



Your Project #: GW

Attention: Brad Mullin - GHD Reporting

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

Your C.O.C. #: 847927-14-01, 847927-06-01, 847927-07-01, 847927-08-01

Report Date: 2021/11/15
Report #: R6902314
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C1W1739

Received: 2021/11/02, 15:40

Sample Matrix: Water
Samples Received: 31

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
ABN Compounds in Water by GC/MS	3	2021/11/04	2021/11/05	CAM SOP-00301	EPA 8270 m
Alkalinity	1	N/A	2021/11/04	CAM SOP-00448	SM 23 2320 B m
Alkalinity	30	N/A	2021/11/05	CAM SOP-00448	SM 23 2320 B m
Anions	6	N/A	2021/11/04	CAM SOP-00435	SM 23 4110 B m
Anions	1	N/A	2021/11/05	CAM SOP-00435	SM 23 4110 B m
Anions	4	N/A	2021/11/08	CAM SOP-00435	SM 23 4110 B m
Anions	20	N/A	2021/11/09	CAM SOP-00435	SM 23 4110 B m
Conductivity	1	N/A	2021/11/04	CAM SOP-00414	SM 23 2510 m
Conductivity	30	N/A	2021/11/05	CAM SOP-00414	SM 23 2510 m
Fluoride	1	2021/11/03	2021/11/04	CAM SOP-00449	SM 23 4500-F C m
Fluoride	30	2021/11/03	2021/11/05	CAM SOP-00449	SM 23 4500-F C m
Hardness (calculated as CaCO3)	31	N/A	2021/11/10	CAM SOP 00102/00408/00447	SM 2340 B
Dissolved Metals by ICPMS	4	N/A	2021/11/10	CAM SOP-00447	EPA 6020B m
Dissolved Metals by ICPMS	1	N/A	2021/11/12	CAM SOP-00447	EPA 6020B m
Dissolved Metals by ICPMS	7	N/A	2021/11/08	CAM SOP-00447	EPA 6020B m
Dissolved Metals by ICPMS	19	N/A	2021/11/09	CAM SOP-00447	EPA 6020B m
Total Ammonia-N	31	N/A	2021/11/07	CAM SOP-00441	USGS I-2522-90 m
Nitrate & Nitrite as Nitrogen in Water (1)	2	N/A	2021/11/04	CAM SOP-00440	SM 23 4500-NO3I/NO2B
Nitrate & Nitrite as Nitrogen in Water (1)	29	N/A	2021/11/06	CAM SOP-00440	SM 23 4500-NO3I/NO2B
OC Pesticides (Selected) & PCB (2)	3	2021/11/08	2021/11/09	CAM SOP-00307	EPA 8081A/8082B m
OC Pesticides Summed Parameters	3	N/A	2021/11/03	CAM SOP-00307	EPA 8081A/8082B m
pH	1	2021/11/03	2021/11/04	CAM SOP-00413	SM 4500H+ B m
pH	30	2021/11/03	2021/11/05	CAM SOP-00413	SM 4500H+ B m
Phenols (4AAP)	31	N/A	2021/11/03	CAM SOP-00444	OMOE E3179 m
Orthophosphate	31	N/A	2021/11/04	CAM SOP-00461	EPA 365.1 m
Total Dissolved Solids	31	2021/11/04	2021/11/05	CAM SOP-00428	SM 23 2540C m



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Sample Matrix: Water
Samples Received: 31

Analyses	Quantity	Date		Laboratory Method	Analytical Method
		Extracted	Analyzed		
Total Kjeldahl Nitrogen in Water	3	2021/11/05	2021/11/05	CAM SOP-00938	OMOE E3516 m
Total Kjeldahl Nitrogen in Water	15	2021/11/05	2021/11/08	CAM SOP-00938	OMOE E3516 m
Total Kjeldahl Nitrogen in Water	13	2021/11/05	2021/11/09	CAM SOP-00938	OMOE E3516 m
Total Organic Carbon (TOC) (3)	18	N/A	2021/11/05	CAM SOP-00446	SM 23 5310B m
Total Organic Carbon (TOC) (3)	13	N/A	2021/11/06	CAM SOP-00446	SM 23 5310B m
Volatile Organic Compounds in Water	3	N/A	2021/11/04	CAM SOP-00226	EPA 8260C m
Non-Routine Volatile Organic Compounds	3	N/A	2021/11/04	CAM SOP-00226	EPA 8260 m

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

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

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

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

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

Encryption Key



AUTHORIZED REPORT
RAPPORT AUTORISÉ

Bureau Veritas

15 Nov 2021 14:28:36

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

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

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RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		RCT885			RCT886			RCT887		
Sampling Date		2021/11/01			2021/11/01			2021/11/01		
COC Number		847927-14-01			847927-14-01			847927-14-01		
	UNITS	30-I	RDL	QC Batch	30-II	RDL	QC Batch	ST1	RDL	QC Batch

Calculated Parameters										
Hardness (CaCO3)	mg/L	460	1.0	7674757	360	1.0	7674757	280	1.0	7674757
Inorganics										
Total Ammonia-N	mg/L	17	0.050	7684520	1.1	0.050	7684531	31	0.25	7684531
Conductivity	umho/cm	3200	1.0	7679257	1500	1.0	7679186	2500	1.0	7679257
Total Dissolved Solids	mg/L	1350	10	7680740	1020	10	7680740	1390	10	7680732
Fluoride (F-)	mg/L	1.0	0.10	7679251	1.7	0.10	7679182	1.2	0.10	7679251
Total Kjeldahl Nitrogen (TKN)	mg/L	23	1.0	7683479	2.2	0.10	7683476	34	2.0	7683476
Total Organic Carbon (TOC)	mg/L	78	0.40	7683451	15	0.40	7683449	8.3	0.40	7683449
Orthophosphate (P)	mg/L	<0.010	0.010	7679162	<0.010	0.010	7679162	0.013	0.010	7679162
pH	pH	11.7		7679254	9.44		7679191	7.97		7679254
Phenols-4AAP	mg/L	1.5	0.050	7677083	0.0037	0.0010	7677083	0.0098	0.0010	7677508
Alkalinity (Total as CaCO3)	mg/L	420	1.0	7679256	31	1.0	7679185	300	1.0	7679256
Nitrite (N)	mg/L	0.020	0.010	7679136	0.106	0.010	7679113	<0.010	0.010	7679249
Dissolved Chloride (Cl-)	mg/L	380	5.0	7681454	110	5.0	7679121	490	5.0	7679230
Nitrate (N)	mg/L	<0.10	0.10	7679136	1.03	0.10	7679113	<0.10	0.10	7679249
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	7679136	1.14	0.10	7679113	<0.10	0.10	7679249
Dissolved Bromide (Br-)	mg/L	<5.0	5.0	7681454	<5.0	5.0	7679121	<5.0	5.0	7679230
Dissolved Sulphate (SO4)	mg/L	210	5.0	7681454	530	5.0	7679121	200	5.0	7679230

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



BUREAU
VERITAS

Bureau Veritas Job #: C1W1739
Report Date: 2021/11/15

Terrapure Environmental
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Sampler Initials: DT

RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		RCT887			RCT888			RCT888		
Sampling Date		2021/11/01			2021/11/01			2021/11/01		
COC Number		847927-14-01			847927-14-01			847927-14-01		
	UNITS	ST1 Lab-Dup	RDL	QC Batch	ST 2	RDL	QC Batch	ST 2 Lab-Dup	RDL	QC Batch

Calculated Parameters										
Hardness (CaCO3)	mg/L				79	1.0	7674757			
Inorganics										
Total Ammonia-N	mg/L				56	0.25	7684520			
Conductivity	umho/cm				3600	1.0	7679273	3600	1.0	7679273
Total Dissolved Solids	mg/L	1420	10	7680732	2140	10	7680740			
Fluoride (F-)	mg/L				1.8	0.10	7679258	1.6	0.10	7679258
Total Kjeldahl Nitrogen (TKN)	mg/L				65	2.0	7683479			
Total Organic Carbon (TOC)	mg/L				13	0.40	7683451			
Orthophosphate (P)	mg/L				0.012	0.010	7679162			
pH	pH				8.64		7679276	8.67		7679276
Phenols-4AAP	mg/L				0.028	0.0050	7677083			
Alkalinity (Total as CaCO3)	mg/L				210	1.0	7679271	210	1.0	7679271
Nitrite (N)	mg/L				<0.010	0.010	7679136			
Dissolved Chloride (Cl-)	mg/L				800	5.0	7679230			
Nitrate (N)	mg/L				<0.10	0.10	7679136			
Nitrate + Nitrite (N)	mg/L				<0.10	0.10	7679136			
Dissolved Bromide (Br-)	mg/L				<5.0	5.0	7679230			
Dissolved Sulphate (SO4)	mg/L				230	5.0	7679230			

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



RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		RCT889			RCT889			RCT890		
Sampling Date		2021/11/01			2021/11/01			2021/11/01		
COC Number		847927-14-01			847927-14-01			847927-14-01		
	UNITS	42-I	RDL	QC Batch	42-I Lab-Dup	RDL	QC Batch	42-II	RDL	QC Batch

Calculated Parameters										
Hardness (CaCO3)	mg/L	2100	1.0	7674757				640	1.0	7674757
Inorganics										
Total Ammonia-N	mg/L	3.3	0.050	7684520				2.3	0.050	7684520
Conductivity	umho/cm	4700	1.0	7679186				1900	1.0	7679186
Total Dissolved Solids	mg/L	3830	10	7681520				960	10	7681520
Fluoride (F-)	mg/L	0.90	0.10	7679182				0.96	0.10	7679182
Total Kjeldahl Nitrogen (TKN)	mg/L	4.2	0.10	7683479				2.8	0.10	7683476
Total Organic Carbon (TOC)	mg/L	5.6	0.40	7683451				6.4	0.40	7683449
Orthophosphate (P)	mg/L	<0.010	0.010	7679156	<0.010	0.010	7679156	<0.010	0.010	7679156
pH	pH	7.58		7679191				7.81		7679191
Phenols-4AAP	mg/L	0.0013	0.0010	7677083				<0.0010	0.0010	7677508
Alkalinity (Total as CaCO3)	mg/L	320	1.0	7679185				330	1.0	7679185
Nitrite (N)	mg/L	<0.010	0.010	7679113				0.012	0.010	7679113
Dissolved Chloride (Cl-)	mg/L	770	10	7679121				170	5.0	7679121
Nitrate (N)	mg/L	<0.10	0.10	7679113				0.23	0.10	7679113
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	7679113				0.24	0.10	7679113
Dissolved Bromide (Br-)	mg/L	<10	10	7679121				<5.0	5.0	7679121
Dissolved Sulphate (SO4)	mg/L	1300	10	7679121				480	5.0	7679121

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RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		RCT891			RCT891			RCT892		
Sampling Date		2021/11/01			2021/11/01			2021/11/01		
COC Number		847927-14-01			847927-14-01			847927-14-01		
	UNITS	42 -III	RDL	QC Batch	42 -III Lab-Dup	RDL	QC Batch	36-IIIIR	RDL	QC Batch

Calculated Parameters										
Hardness (CaCO3)	mg/L	1500	1.0	7674757				1900	1.0	7674757
Inorganics										
Total Ammonia-N	mg/L	6.0	0.050	7684531	6.1	0.050	7684531	3.3	0.050	7684520
Conductivity	umho/cm	2500	1.0	7679186				6000	1.0	7679257
Total Dissolved Solids	mg/L	3270	10	7680740				4320	10	7680740
Fluoride (F-)	mg/L	1.2	0.10	7679182				1.1	0.10	7679251
Total Kjeldahl Nitrogen (TKN)	mg/L	7.9	0.20	7683479				4.6	0.10	7683476
Total Organic Carbon (TOC)	mg/L	14	0.40	7683451				2.2	0.40	7683449
Orthophosphate (P)	mg/L	<0.010	0.010	7679156				<0.010	0.010	7679156
pH	pH	7.71		7679191				7.85		7679254
Phenols-4AAP	mg/L	0.0034	0.0010	7677083				<0.0010	0.0010	7677508
Alkalinity (Total as CaCO3)	mg/L	380	1.0	7679185				240	1.0	7679256
Nitrite (N)	mg/L	<0.010	0.010	7679113				<0.010	0.010	7679113
Dissolved Chloride (Cl-)	mg/L	320	5.0	7679121	320	5.0	7679121	810	10	7679121
Nitrate (N)	mg/L	<0.10	0.10	7679113				<0.10	0.10	7679113
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	7679113				<0.10	0.10	7679113
Dissolved Bromide (Br-)	mg/L	<5.0	5.0	7679121	<5.0	5.0	7679121	<10	10	7679121
Dissolved Sulphate (SO4)	mg/L	550	5.0	7679121	550	5.0	7679121	1800	10	7679121

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RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		RCT893			RCT894			RCT894		
Sampling Date		2021/11/01			2021/10/29			2021/10/29		
COC Number		847927-14-01			847927-14-01			847927-14-01		
	UNITS	P6-IR	RDL	QC Batch	3-II	RDL	QC Batch	3-II Lab-Dup	RDL	QC Batch

Calculated Parameters										
Hardness (CaCO3)	mg/L	42	1.0	7676640	1200	1.0	7676640			
Inorganics										
Total Ammonia-N	mg/L	150	0.50	7684520	4.7	0.050	7684520			
Conductivity	umho/cm	12000	1.0	7679257	3500	1.0	7679186	3500	1.0	7679186
Total Dissolved Solids	mg/L	6840	20	7680740	2450	10	7681520			
Fluoride (F-)	mg/L	3.8	0.10	7679251	1.2	0.10	7679182	1.2	0.10	7679182
Total Kjeldahl Nitrogen (TKN)	mg/L	180	5.0	7683479	5.5	0.20	7683476			
Total Organic Carbon (TOC)	mg/L	32	0.40	7683451	2.8	0.40	7683449			
Orthophosphate (P)	mg/L	0.14	0.010	7679156	<0.010	0.010	7679156			
pH	pH	9.68		7679254	7.71		7679191	7.71		7679191
Phenols-4AAP	mg/L	0.90	0.020	7677508	<0.0010	0.0010	7677508			
Alkalinity (Total as CaCO3)	mg/L	520	1.0	7679256	230	1.0	7679185	230	1.0	7679185
Nitrite (N)	mg/L	0.014	0.010	7679113	<0.010	0.010	7679136			
Dissolved Chloride (Cl-)	mg/L	3300	20	7679121	450	5.0	7679130			
Nitrate (N)	mg/L	<0.10	0.10	7679113	<0.10	0.10	7679136			
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	7679113	<0.10	0.10	7679136			
Dissolved Bromide (Br-)	mg/L	<20	20	7679121	<5.0	5.0	7679130			
Dissolved Sulphate (SO4)	mg/L	590	20	7679121	1100	5.0	7679130			

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RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		RCT895			RCT896			RCT896		
Sampling Date		2021/10/29			2021/10/29			2021/10/29		
COC Number		847927-06-01			847927-06-01			847927-06-01		
	UNITS	60-I	RDL	QC Batch	60-II	RDL	QC Batch	60-II Lab-Dup	RDL	QC Batch

Calculated Parameters										
Hardness (CaCO3)	mg/L	1600	1.0	7676640	970	1.0	7676640			
Inorganics										
Total Ammonia-N	mg/L	5.2	0.050	7684520	2.0	0.050	7684520			
Conductivity	umho/cm	6400	1.0	7679257	2800	1.0	7679186			
Total Dissolved Solids	mg/L	4420	20	7680740	1730	10	7680740			
Fluoride (F-)	mg/L	0.25	0.10	7679251	1.2	0.10	7679182			
Total Kjeldahl Nitrogen (TKN)	mg/L	6.9	0.20	7683479	2.3	0.10	7683479	2.4	0.10	7683479
Total Organic Carbon (TOC)	mg/L	9.6	0.40	7683451	3.0	0.40	7683451			
Orthophosphate (P)	mg/L	0.017	0.010	7679162	<0.010	0.010	7679156			
pH	pH	7.68		7679254	7.74		7679191			
Phenols-4AAP	mg/L	0.0023	0.0010	7677083	<0.0010	0.0010	7677508			
Alkalinity (Total as CaCO3)	mg/L	130	1.0	7679256	260	1.0	7679185			
Nitrite (N)	mg/L	<0.010	0.010	7679136	<0.010	0.010	7679113			
Dissolved Chloride (Cl-)	mg/L	1500	10	7679230	380	5.0	7679121			
Nitrate (N)	mg/L	<0.10	0.10	7679136	<0.10	0.10	7679113			
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	7679136	<0.10	0.10	7679113			
Dissolved Bromide (Br-)	mg/L	<10	10	7679230	<5.0	5.0	7679121			
Dissolved Sulphate (SO4)	mg/L	850	10	7679230	730	5.0	7679121			

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 Lab-Dup = Laboratory Initiated Duplicate



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VERITAS

Bureau Veritas Job #: C1W1739
Report Date: 2021/11/15

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		RCT897			RCT898			RCT899		
Sampling Date		2021/10/29			2021/10/29			2021/10/29		
COC Number		847927-06-01			847927-06-01			847927-06-01		
	UNITS	60-III	RDL	QC Batch	60-IV	RDL	QC Batch	61-I	RDL	QC Batch
Calculated Parameters										
Hardness (CaCO3)	mg/L	1100	1.0	7676640	2200	1.0	7676640	2000	1.0	7676640
Inorganics										
Total Ammonia-N	mg/L	0.53	0.050	7684520	7.2	0.050	7684520	3.6	0.050	7684520
Conductivity	umho/cm	2800	1.0	7679186	6900	1.0	7679186	5100	1.0	7679186
Total Dissolved Solids	mg/L	1980	10	7680740	4910	20	7680740	4160	10	7680740
Fluoride (F-)	mg/L	0.73	0.10	7679182	1.0	0.10	7679182	0.79	0.10	7679182
Total Kjeldahl Nitrogen (TKN)	mg/L	1.2	0.10	7683479	8.1	0.50	7683476	4.6	0.20	7683476
Total Organic Carbon (TOC)	mg/L	6.9	0.40	7683451	3.4	0.40	7683449	1.7	0.40	7683449
Orthophosphate (P)	mg/L	<0.010	0.010	7679156	<0.010	0.010	7679156	<0.010	0.010	7679156
pH	pH	7.58		7679191	7.48		7679191	7.51		7679191
Phenols-4AAP	mg/L	<0.0010	0.0010	7677083	<0.0010	0.0010	7677617	<0.0010	0.0010	7677617
Alkalinity (Total as CaCO3)	mg/L	450	1.0	7679185	170	1.0	7679185	280	1.0	7679185
Nitrite (N)	mg/L	0.070	0.010	7679113	<0.010	0.010	7679136	<0.010	0.010	7679113
Dissolved Chloride (Cl-)	mg/L	250	5.0	7679121	1200	10	7679130	710	10	7679121
Nitrate (N)	mg/L	1.68	0.10	7679113	<0.10	0.10	7679136	<0.10	0.10	7679113
Nitrate + Nitrite (N)	mg/L	1.75	0.10	7679113	<0.10	0.10	7679136	<0.10	0.10	7679113
Dissolved Bromide (Br-)	mg/L	<5.0	5.0	7679121	<10	10	7679130	<10	10	7679121
Dissolved Sulphate (SO4)	mg/L	720	5.0	7679121	1500	10	7679130	1500	10	7679121
RDL = Reportable Detection Limit										
QC Batch = Quality Control Batch										



RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		RCT899			RCT900			RCT900		
Sampling Date		2021/10/29			2021/11/01			2021/11/01		
COC Number		847927-06-01			847927-06-01			847927-06-01		
	UNITS	61-I Lab-Dup	RDL	QC Batch	61-II	RDL	QC Batch	61-II Lab-Dup	RDL	QC Batch

Calculated Parameters										
Hardness (CaCO3)	mg/L				1800	1.0	7676640			
Inorganics										
Total Ammonia-N	mg/L				2.1	0.050	7684520			
Conductivity	umho/cm				4200	1.0	7679186			
Total Dissolved Solids	mg/L	4200	10	7680740	3490	10	7681520	3620	10	7681520
Fluoride (F-)	mg/L				1.0	0.10	7679182			
Total Kjeldahl Nitrogen (TKN)	mg/L				2.5	0.50	7683476			
Total Organic Carbon (TOC)	mg/L				1.2	0.40	7683449			
Orthophosphate (P)	mg/L				<0.010	0.010	7679156			
pH	pH				7.62		7679191			
Phenols-4AAP	mg/L				<0.0010	0.0010	7677617			
Alkalinity (Total as CaCO3)	mg/L				270	1.0	7679185			
Nitrite (N)	mg/L				<0.010	0.010	7679113			
Dissolved Chloride (Cl-)	mg/L				400	10	7679121			
Nitrate (N)	mg/L				<0.10	0.10	7679113			
Nitrate + Nitrite (N)	mg/L				<0.10	0.10	7679113			
Dissolved Bromide (Br-)	mg/L				<10	10	7679121			
Dissolved Sulphate (SO4)	mg/L				1500	10	7679121			

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



RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		RCT901			RCT902			RCT903		
Sampling Date		2021/10/29			2021/10/29			2021/10/29		
COC Number		847927-06-01			847927-06-01			847927-06-01		
	UNITS	61-III	RDL	QC Batch	40-II	RDL	QC Batch	40-III	RDL	QC Batch
Calculated Parameters										
Hardness (CaCO3)	mg/L	1900	1.0	7676640	1300	1.0	7676640	1300	1.0	7676640
Inorganics										
Total Ammonia-N	mg/L	2.6	0.050	7684531	4.7	0.050	7684531	5.0	0.050	7684531
Conductivity	umho/cm	4400	1.0	7679186	3500	1.0	7679257	3600	1.0	7679186
Total Dissolved Solids	mg/L	3480	10	7681520	2540	10	7680740	2510	10	7681520
Fluoride (F-)	mg/L	0.64	0.10	7679182	1.2	0.10	7679251	1.2	0.10	7679182
Total Kjeldahl Nitrogen (TKN)	mg/L	3.5	0.20	7683476	5.6	0.20	7683476	6.4	0.20	7683479
Total Organic Carbon (TOC)	mg/L	2.0	0.40	7683449	2.8	0.40	7683449	3.1	0.40	7683451
Orthophosphate (P)	mg/L	<0.010	0.010	7679156	<0.010	0.010	7679162	<0.010	0.010	7679156
pH	pH	7.52		7679191	7.79		7679254	7.76		7679191
Phenols-4AAP	mg/L	<0.0010	0.0010	7677508	<0.0010	0.0010	7677508	<0.0010	0.0010	7677083
Alkalinity (Total as CaCO3)	mg/L	310	1.0	7679185	240	1.0	7679256	230	1.0	7679185
Nitrite (N)	mg/L	<0.010	0.010	7679136	<0.010	0.010	7679136	<0.010	0.010	7679113
Dissolved Chloride (Cl-)	mg/L	530	5.0	7679130	390	10	7679230	410	5.0	7679121
Nitrate (N)	mg/L	<0.10	0.10	7679136	<0.10	0.10	7679136	<0.10	0.10	7679113
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	7679136	<0.10	0.10	7679136	<0.10	0.10	7679113
Dissolved Bromide (Br-)	mg/L	<5.0	5.0	7679130	<10	10	7679230	<5.0	5.0	7679121
Dissolved Sulphate (SO4)	mg/L	1600	5.0	7679130	940	10	7679230	1000	5.0	7679121
RDL = Reportable Detection Limit										
QC Batch = Quality Control Batch										



BUREAU
VERITAS

Bureau Veritas Job #: C1W1739
Report Date: 2021/11/15

Terrapure Environmental
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RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		RCT904			RCT904			RCT905		
Sampling Date		2021/10/29			2021/10/29			2021/11/01		
COC Number		847927-06-01			847927-06-01			847927-07-01		
	UNITS	11-II	RDL	QC Batch	11-II Lab-Dup	RDL	QC Batch	11-III	RDL	QC Batch

Calculated Parameters										
Hardness (CaCO3)	mg/L	970	1.0	7676640				1900	1.0	7676640
Inorganics										
Total Ammonia-N	mg/L	2.0	0.050	7684531				2.0	0.050	7684531
Conductivity	umho/cm	2800	1.0	7679257	2800	1.0	7679257	4100	1.0	7679186
Total Dissolved Solids	mg/L	1920	10	7681520				3330	10	7680740
Fluoride (F-)	mg/L	1.2	0.10	7679251	1.2	0.10	7679251	1.0	0.10	7679182
Total Kjeldahl Nitrogen (TKN)	mg/L	2.5	0.10	7683476				2.6	0.50	7683476
Total Organic Carbon (TOC)	mg/L	2.9	0.40	7683449				1.2	0.40	7683449
Orthophosphate (P)	mg/L	<0.010	0.010	7679162				<0.010	0.010	7679156
pH	pH	7.79		7679254	7.85		7679254	7.60		7679191
Phenols-4AAP	mg/L	<0.0010	0.0010	7677508				<0.0010	0.0010	7677508
Alkalinity (Total as CaCO3)	mg/L	260	1.0	7679256	260	1.0	7679256	270	1.0	7679185
Nitrite (N)	mg/L	<0.010	0.010	7679113				<0.010	0.010	7679113
Dissolved Chloride (Cl-)	mg/L	370	5.0	7679121				400	10	7679121
Nitrate (N)	mg/L	<0.10	0.10	7679113				<0.10	0.10	7679113
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	7679113				<0.10	0.10	7679113
Dissolved Bromide (Br-)	mg/L	<5.0	5.0	7679121				<10	10	7679121
Dissolved Sulphate (SO4)	mg/L	720	5.0	7679121				1500	10	7679121

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



BUREAU
VERITAS

Bureau Veritas Job #: C1W1739
Report Date: 2021/11/15

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		RCT906			RCT907			RCT908		
Sampling Date		2021/10/29			2021/10/29			2021/10/29		
COC Number		847927-07-01			847927-07-01			847927-07-01		
	UNITS	48-I	RDL	QC Batch	48-II	RDL	QC Batch	48-IV	RDL	QC Batch
Calculated Parameters										
Hardness (CaCO3)	mg/L	2600	1.0	7676640	1800	1.0	7676640	730	1.0	7676640
Inorganics										
Total Ammonia-N	mg/L	2.5	0.050	7684520	1.3	0.050	7684520	<0.050	0.050	7684531
Conductivity	umho/cm	7300	1.0	7679186	4100	1.0	7679186	1800	1.0	7679186
Total Dissolved Solids	mg/L	4770	20	7680732	2940	10	7680740	1070	10	7680740
Fluoride (F-)	mg/L	0.85	0.10	7679182	0.86	0.10	7679182	0.46	0.10	7679182
Total Kjeldahl Nitrogen (TKN)	mg/L	3.4	0.20	7683476	2.1	0.10	7683476	0.17	0.10	7683476
Total Organic Carbon (TOC)	mg/L	1.5	0.40	7683449	2.2	0.40	7683449	2.6	0.40	7683449
Orthophosphate (P)	mg/L	<0.010	0.010	7679156	0.010	0.010	7679156	<0.010	0.010	7679156
pH	pH	7.39		7679191	7.52		7679191	7.71		7679191
Phenols-4AAP	mg/L	<0.0010	0.0010	7677508	<0.0010	0.0010	7677617	<0.0010	0.0010	7677617
Alkalinity (Total as CaCO3)	mg/L	310	1.0	7679185	330	1.0	7679185	380	1.0	7679185
Nitrite (N)	mg/L	<0.010	0.010	7679113	<0.010	0.010	7679113	<0.010	0.010	7679113
Dissolved Chloride (Cl-)	mg/L	1400	20	7679121	430	10	7679121	230	5.0	7679121
Nitrate (N)	mg/L	<0.10	0.10	7679113	<0.10	0.10	7679113	<0.10	0.10	7679113
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	7679113	<0.10	0.10	7679113	<0.10	0.10	7679113
Dissolved Bromide (Br-)	mg/L	<20	20	7679121	<10	10	7679121	<5.0	5.0	7679121
Dissolved Sulphate (SO4)	mg/L	1400	20	7679121	1600	10	7679121	260	5.0	7679121
RDL = Reportable Detection Limit										
QC Batch = Quality Control Batch										



BUREAU
VERITAS

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Terrapure Environmental
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RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		RCT908			RCT909			RCT910		
Sampling Date		2021/10/29			2021/10/29			2021/10/29		
COC Number		847927-07-01			847927-07-01			847927-07-01		
	UNITS	48-IV Lab-Dup	RDL	QC Batch	48-V	RDL	QC Batch	11-I	RDL	QC Batch

Calculated Parameters										
Hardness (CaCO3)	mg/L				1800	1.0	7676640	2600	1.0	7676640
Inorganics										
Total Ammonia-N	mg/L				1.3	0.050	7684531	2.5	0.050	7684520
Conductivity	umho/cm				4000	1.0	7679186	7400	1.0	7679257
Total Dissolved Solids	mg/L				3180	10	7680740	5580	20	7681520
Fluoride (F-)	mg/L				0.84	0.10	7679182	0.85	0.10	7679251
Total Kjeldahl Nitrogen (TKN)	mg/L	0.19	0.10	7683476	2.1	0.10	7683476	3.1	0.20	7683476
Total Organic Carbon (TOC)	mg/L				2.3	0.40	7683449	1.5	0.40	7683449
Orthophosphate (P)	mg/L				<0.010	0.010	7679162	<0.010	0.010	7679162
pH	pH				7.54		7679191	7.56		7679254
Phenols-4AAP	mg/L				<0.0010	0.0010	7677508	0.0011	0.0010	7677508
Alkalinity (Total as CaCO3)	mg/L				340	1.0	7679185	310	1.0	7679256
Nitrite (N)	mg/L				<0.010	0.010	7679113	<0.010	0.010	7679249
Dissolved Chloride (Cl-)	mg/L				400	10	7679121	1400	20	7679230
Nitrate (N)	mg/L				<0.10	0.10	7679113	<0.10	0.10	7679249
Nitrate + Nitrite (N)	mg/L				<0.10	0.10	7679113	<0.10	0.10	7679249
Dissolved Bromide (Br-)	mg/L				<10	10	7679121	<20	20	7679230
Dissolved Sulphate (SO4)	mg/L				1400	10	7679121	1500	20	7679230

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



BUREAU
VERITAS

Bureau Veritas Job #: C1W1739
Report Date: 2021/11/15

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		RCT911			RCT911			RCT912		
Sampling Date		2021/10/29			2021/10/29			2021/10/29		
COC Number		847927-07-01			847927-07-01			847927-07-01		
	UNITS	47-I	RDL	QC Batch	47-I Lab-Dup	RDL	QC Batch	47-IIR	RDL	QC Batch

Calculated Parameters										
Hardness (CaCO3)	mg/L	1800	1.0	7676640				710	1.0	7676640
Inorganics										
Total Ammonia-N	mg/L	4.6	0.050	7684520				<0.050	0.050	7684531
Conductivity	umho/cm	4300	1.0	7679257				1800	1.0	7679186
Total Dissolved Solids	mg/L	3330	10	7681520				1150	10	7680740
Fluoride (F-)	mg/L	0.99	0.10	7679251				0.69	0.10	7679182
Total Kjeldahl Nitrogen (TKN)	mg/L	5.6	0.20	7683476				0.30	0.10	7683476
Total Organic Carbon (TOC)	mg/L	2.5	0.40	7683449	2.6	0.40	7683449	3.9	0.40	7683449
Orthophosphate (P)	mg/L	<0.010	0.010	7679162				<0.010	0.010	7679156
pH	pH	7.73		7679254				7.71		7679191
Phenols-4AAP	mg/L	<0.0010	0.0010	7677508				<0.0010	0.0010	7677508
Alkalinity (Total as CaCO3)	mg/L	230	1.0	7679256				300	1.0	7679185
Nitrite (N)	mg/L	<0.010	0.010	7679113				<0.010	0.010	7679113
Dissolved Chloride (Cl-)	mg/L	460	10	7679121				180	5.0	7679121
Nitrate (N)	mg/L	<0.10	0.10	7679113				0.17	0.10	7679113
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	7679113				0.17	0.10	7679113
Dissolved Bromide (Br-)	mg/L	<10	10	7679121				<5.0	5.0	7679121
Dissolved Sulphate (SO4)	mg/L	1500	10	7679121				410	5.0	7679121

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



RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		RCT912			RCT913			RCT913		
Sampling Date		2021/10/29			2021/10/29			2021/10/29		
COC Number		847927-07-01			847927-07-01			847927-07-01		
	UNITS	47-IIR Lab-Dup	RDL	QC Batch	47-III	RDL	QC Batch	47-III Lab-Dup	RDL	QC Batch

Calculated Parameters										
Hardness (CaCO3)	mg/L				1000	1.0	7676640			
Inorganics										
Total Ammonia-N	mg/L				0.92	0.050	7684520			
Conductivity	umho/cm				2200	1.0	7679257			
Total Dissolved Solids	mg/L				1630	10	7680740			
Fluoride (F-)	mg/L				0.74	0.10	7679251			
Total Kjeldahl Nitrogen (TKN)	mg/L				1.4	0.10	7683479			
Total Organic Carbon (TOC)	mg/L				3.6	0.40	7683451			
Orthophosphate (P)	mg/L				<0.010	0.010	7679162			
pH	pH				7.66		7679254			
Phenols-4AAP	mg/L				<0.0010	0.0010	7677617	<0.0010	0.0010	7677617
Alkalinity (Total as CaCO3)	mg/L				320	1.0	7679256			
Nitrite (N)	mg/L	<0.010	0.010	7679113	<0.010	0.010	7679136			
Dissolved Chloride (Cl-)	mg/L				190	5.0	7679230	190	5.0	7679230
Nitrate (N)	mg/L	0.17	0.10	7679113	<0.10	0.10	7679136			
Nitrate + Nitrite (N)	mg/L	0.17	0.10	7679113	<0.10	0.10	7679136			
Dissolved Bromide (Br-)	mg/L				<5.0	5.0	7679230	<5.0	5.0	7679230
Dissolved Sulphate (SO4)	mg/L				610	5.0	7679230	600	5.0	7679230

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



BUREAU
VERITAS

Bureau Veritas Job #: C1W1739
Report Date: 2021/11/15

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		RCT914			RCT914			RCT915		
Sampling Date		2021/10/29			2021/10/29			2021/10/29		
COC Number		847927-07-01			847927-07-01			847927-08-01		
	UNITS	47-IV	RDL	QC Batch	47-IV Lab-Dup	RDL	QC Batch	12-IV	RDL	QC Batch

Calculated Parameters										
Hardness (CaCO3)	mg/L	490	1.0	7676640				1900	1.0	7676640
Inorganics										
Total Ammonia-N	mg/L	0.13	0.050	7684520	0.12	0.050	7684520	4.6	0.050	7684520
Conductivity	umho/cm	1100	1.0	7679186				4300	1.0	7679186
Total Dissolved Solids	mg/L	665	10	7680740				3120	10	7680732
Fluoride (F-)	mg/L	0.65	0.10	7679182				0.99	0.10	7679182
Total Kjeldahl Nitrogen (TKN)	mg/L	0.70	0.10	7683479				5.6	0.20	7683476
Total Organic Carbon (TOC)	mg/L	6.5	0.40	7683451				2.5	0.40	7683449
Orthophosphate (P)	mg/L	0.016	0.010	7679156				<0.010	0.010	7679156
pH	pH	7.75		7679191				7.70		7679191
Phenols-4AAP	mg/L	<0.0010	0.0010	7677083				0.0014	0.0010	7677617
Alkalinity (Total as CaCO3)	mg/L	320	1.0	7679185				220	1.0	7679185
Nitrite (N)	mg/L	<0.010	0.010	7679113				<0.010	0.010	7679136
Dissolved Chloride (Cl-)	mg/L	38	1.0	7679121				500	10	7679130
Nitrate (N)	mg/L	<0.10	0.10	7679113				<0.10	0.10	7679136
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	7679113				<0.10	0.10	7679136
Dissolved Bromide (Br-)	mg/L	<1.0	1.0	7679121				<10	10	7679130
Dissolved Sulphate (SO4)	mg/L	190	1.0	7679121				1600	10	7679130

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



BUREAU
VERITAS

Bureau Veritas Job #: C1W1739
Report Date: 2021/11/15

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Bureau Veritas ID		RCT885		RCT886		RCT887		
Sampling Date		2021/11/01		2021/11/01		2021/11/01		
COC Number		847927-14-01		847927-14-01		847927-14-01		
	UNITS	30-I	QC Batch	30-II	QC Batch	ST1	RDL	QC Batch
Metals								
Dissolved Aluminum (Al)	ug/L	25	7679932	24	7679945	<4.9	4.9	7679932
Dissolved Antimony (Sb)	ug/L	0.88	7679932	0.50	7679945	<0.50	0.50	7679932
Dissolved Arsenic (As)	ug/L	4.1	7679932	2.6	7679945	<1.0	1.0	7679932
Dissolved Barium (Ba)	ug/L	93	7679932	25	7679945	22	2.0	7679932
Dissolved Beryllium (Be)	ug/L	<0.40	7679932	<0.40	7679945	<0.40	0.40	7679932
Dissolved Bismuth (Bi)	ug/L	<1.0	7679932	<1.0	7679945	<1.0	1.0	7679932
Dissolved Boron (B)	ug/L	130	7679932	52	7679945	340	10	7679932
Dissolved Cadmium (Cd)	ug/L	<0.090	7679932	<0.090	7679945	<0.090	0.090	7679932
Dissolved Calcium (Ca)	ug/L	180000	7679932	140000	7679945	58000	200	7679932
Dissolved Chromium (Cr)	ug/L	<5.0	7679932	11	7679945	<5.0	5.0	7679932
Dissolved Cobalt (Co)	ug/L	<0.50	7679932	<0.50	7679945	<0.50	0.50	7679932
Dissolved Copper (Cu)	ug/L	<0.90	7679932	3.4	7679945	<0.90	0.90	7679932
Dissolved Iron (Fe)	ug/L	<100	7679932	<100	7679945	<100	100	7679932
Dissolved Lead (Pb)	ug/L	<0.50	7679932	<0.50	7679945	<0.50	0.50	7679932
Dissolved Lithium (Li)	ug/L	50	7679932	11	7679945	29	5.0	7679932
Dissolved Magnesium (Mg)	ug/L	<50	7679932	760	7679945	33000	50	7679932
Dissolved Manganese (Mn)	ug/L	<2.0	7679932	<2.0	7679945	8.1	2.0	7679932
Dissolved Molybdenum (Mo)	ug/L	23	7679932	46	7679945	0.98	0.50	7679932
Dissolved Nickel (Ni)	ug/L	11	7679932	2.2	7679945	2.4	1.0	7679932
Dissolved Phosphorus (P)	ug/L	<100	7679932	<100	7679945	<100	100	7679932
Dissolved Potassium (K)	ug/L	100000	7679932	53000	7679945	33000	200	7679932
Dissolved Selenium (Se)	ug/L	2.4	7679932	<2.0	7679945	<2.0	2.0	7679932
Dissolved Silicon (Si)	ug/L	3400	7679932	8300	7679945	7000	50	7679932
Dissolved Silver (Ag)	ug/L	<0.090	7679932	<0.090	7679945	<0.090	0.090	7679932
Dissolved Sodium (Na)	ug/L	320000	7679932	170000	7679945	470000	100	7679932
Dissolved Strontium (Sr)	ug/L	1700	7679932	1100	7679945	1900	1.0	7679932
Dissolved Tellurium (Te)	ug/L	<1.0	7679932	<1.0	7679945	<1.0	1.0	7679932
Dissolved Thallium (Tl)	ug/L	<0.050	7679932	<0.050	7679945	<0.050	0.050	7679932
Dissolved Tin (Sn)	ug/L	<1.0	7679932	<1.0	7679945	<1.0	1.0	7679932
Dissolved Titanium (Ti)	ug/L	<5.0	7679932	<5.0	7679945	<5.0	5.0	7679932
Dissolved Tungsten (W)	ug/L	4.8	7679932	12	7679945	5.7	1.0	7679932
Dissolved Uranium (U)	ug/L	<0.10	7679932	<0.10	7679945	0.25	0.10	7679932
Dissolved Vanadium (V)	ug/L	0.87	7679932	52	7679945	<0.50	0.50	7679932
Dissolved Zinc (Zn)	ug/L	<5.0	7679932	<5.0	7679945	<5.0	5.0	7679932
Dissolved Zirconium (Zr)	ug/L	<1.0	7679932	<1.0	7679945	<1.0	1.0	7679932
RDL = Reportable Detection Limit								
QC Batch = Quality Control Batch								



BUREAU
VERITAS

Bureau Veritas Job #: C1W1739

Report Date: 2021/11/15

Terrapure Environmental

Client Project #: GW

Sampler Initials: DT

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Bureau Veritas ID		RCT888			RCT889			RCT890		
Sampling Date		2021/11/01			2021/11/01			2021/11/01		
COC Number		847927-14-01			847927-14-01			847927-14-01		
	UNITS	ST 2	RDL	QC Batch	42-I	RDL	QC Batch	42-II	RDL	QC Batch
Metals										
Dissolved Aluminum (Al)	ug/L	5.4	4.9	7679945	5.5	4.9	7679932	5.9	4.9	7679945
Dissolved Antimony (Sb)	ug/L	<0.50	0.50	7679945	<0.50	0.50	7679932	0.83	0.50	7679945
Dissolved Arsenic (As)	ug/L	1.1	1.0	7679945	<1.0	1.0	7679932	<1.0	1.0	7679945
Dissolved Barium (Ba)	ug/L	15	2.0	7679945	37	2.0	7679932	33	2.0	7679945
Dissolved Beryllium (Be)	ug/L	<0.40	0.40	7679945	<0.40	0.40	7679932	<0.40	0.40	7679945
Dissolved Bismuth (Bi)	ug/L	<1.0	1.0	7679945	<1.0	1.0	7679932	<1.0	1.0	7679945
Dissolved Boron (B)	ug/L	440	10	7679945	1200	10	7679932	290	10	7679945
Dissolved Cadmium (Cd)	ug/L	<0.090	0.090	7679945	<0.090	0.090	7679932	1.1	0.090	7679945
Dissolved Calcium (Ca)	ug/L	9800	200	7679945	590000	1000	7679932	130000	200	7679945
Dissolved Chromium (Cr)	ug/L	<5.0	5.0	7679945	<5.0	5.0	7679932	<5.0	5.0	7679945
Dissolved Cobalt (Co)	ug/L	<0.50	0.50	7679945	<0.50	0.50	7679932	<0.50	0.50	7679945
Dissolved Copper (Cu)	ug/L	<0.90	0.90	7679945	0.99	0.90	7679932	3.0	0.90	7679945
Dissolved Iron (Fe)	ug/L	<100	100	7679945	3800	100	7679932	<100	100	7679945
Dissolved Lead (Pb)	ug/L	<0.50	0.50	7679945	<0.50	0.50	7679932	<0.50	0.50	7679945
Dissolved Lithium (Li)	ug/L	26	5.0	7679945	160	5.0	7679932	21	5.0	7679945
Dissolved Magnesium (Mg)	ug/L	13000	50	7679945	150000	50	7679932	79000	50	7679945
Dissolved Manganese (Mn)	ug/L	<2.0	2.0	7679945	700	2.0	7679932	2.1	2.0	7679945
Dissolved Molybdenum (Mo)	ug/L	11	0.50	7679945	1.1	0.50	7679932	6.6	0.50	7679945
Dissolved Nickel (Ni)	ug/L	6.5	1.0	7679945	1.3	1.0	7679932	4.0	1.0	7679945
Dissolved Phosphorus (P)	ug/L	<100	100	7679945	<100	100	7679932	<100	100	7679945
Dissolved Potassium (K)	ug/L	55000	200	7679945	29000	200	7679932	11000	200	7679945
Dissolved Selenium (Se)	ug/L	<2.0	2.0	7679945	<2.0	2.0	7679932	<2.0	2.0	7679945
Dissolved Silicon (Si)	ug/L	5400	50	7679945	4100	50	7679932	8100	50	7679945
Dissolved Silver (Ag)	ug/L	<0.090	0.090	7679945	<0.090	0.090	7679932	<0.090	0.090	7679945
Dissolved Sodium (Na)	ug/L	720000	500	7679945	450000	100	7679932	62000	100	7679945
Dissolved Strontium (Sr)	ug/L	1000	1.0	7679945	7000	1.0	7679932	1600	1.0	7679945
Dissolved Tellurium (Te)	ug/L	<1.0	1.0	7679945	<1.0	1.0	7679932	<1.0	1.0	7679945
Dissolved Thallium (Tl)	ug/L	<0.050	0.050	7679945	<0.050	0.050	7679932	<0.050	0.050	7679945
Dissolved Tin (Sn)	ug/L	<1.0	1.0	7679945	<1.0	1.0	7679932	<1.0	1.0	7679945
Dissolved Titanium (Ti)	ug/L	<5.0	5.0	7679945	<5.0	5.0	7679932	<5.0	5.0	7679945
Dissolved Tungsten (W)	ug/L	8.0	1.0	7679945	<1.0	1.0	7679932	<1.0	1.0	7679945
Dissolved Uranium (U)	ug/L	<0.10	0.10	7679945	3.1	0.10	7679932	0.97	0.10	7679945
Dissolved Vanadium (V)	ug/L	0.84	0.50	7679945	<0.50	0.50	7679932	<0.50	0.50	7679945
Dissolved Zinc (Zn)	ug/L	<5.0	5.0	7679945	<5.0	5.0	7679932	66	5.0	7679945
Dissolved Zirconium (Zr)	ug/L	<1.0	1.0	7679945	<1.0	1.0	7679932	<1.0	1.0	7679945
RDL = Reportable Detection Limit										
QC Batch = Quality Control Batch										



BUREAU
VERITAS

Bureau Veritas Job #: C1W1739
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Terrapure Environmental
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Sampler Initials: DT

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Bureau Veritas ID		RCT891	RCT891			RCT892			RCT893		
Sampling Date		2021/11/01	2021/11/01			2021/11/01			2021/11/01		
COC Number		847927-14-01	847927-14-01			847927-14-01			847927-14-01		
	UNITS	42 -III	42 -III Lab-Dup	RDL	QC Batch	36-IIIIR	RDL	QC Batch	P6-IR	RDL	QC Batch

Metals											
Dissolved Aluminum (Al)	ug/L	<4.9	<4.9	4.9	7696463	6.4	4.9	7679945	14	4.9	7679932
Dissolved Antimony (Sb)	ug/L	<0.50	<0.50	0.50	7696463	<0.50	0.50	7679945	<0.50	0.50	7679932
Dissolved Arsenic (As)	ug/L	<1.0	<1.0	1.0	7696463	1.5	1.0	7679945	2.9	1.0	7679932
Dissolved Barium (Ba)	ug/L	36	34	2.0	7696463	12	2.0	7679945	10	2.0	7679932
Dissolved Beryllium (Be)	ug/L	<0.40	<0.40	0.40	7696463	<0.40	0.40	7679945	<0.40	0.40	7679932
Dissolved Bismuth (Bi)	ug/L	<1.0	<1.0	1.0	7696463	<1.0	1.0	7679945	<1.0	1.0	7679932
Dissolved Boron (B)	ug/L	880	890	10	7696463	4200	10	7679945	560	10	7679932
Dissolved Cadmium (Cd)	ug/L	<0.090	<0.090	0.090	7696463	<0.090	0.090	7679945	<0.090	0.090	7679932
Dissolved Calcium (Ca)	ug/L	430000	440000	400	7696463	590000	1000	7679945	15000	200	7679932
Dissolved Chromium (Cr)	ug/L	<5.0	<5.0	5.0	7696463	<5.0	5.0	7679945	<5.0	5.0	7679932
Dissolved Cobalt (Co)	ug/L	<0.50	<0.50	0.50	7696463	<0.50	0.50	7679945	<0.50	0.50	7679932
Dissolved Copper (Cu)	ug/L	<0.90	<0.90	0.90	7696463	<0.90	0.90	7679945	0.96	0.90	7679932
Dissolved Iron (Fe)	ug/L	<100	<100	100	7696463	<100	100	7679945	<100	100	7679932
Dissolved Lead (Pb)	ug/L	<0.50	<0.50	0.50	7696463	<0.50	0.50	7679945	<0.50	0.50	7679932
Dissolved Lithium (Li)	ug/L	53	54	5.0	7696463	1000	25	7679945	30	5.0	7679932
Dissolved Magnesium (Mg)	ug/L	120000	120000	50	7696463	110000	50	7679945	850	50	7679932
Dissolved Manganese (Mn)	ug/L	120	120	2.0	7696463	53	2.0	7679945	<2.0	2.0	7679932
Dissolved Molybdenum (Mo)	ug/L	<0.50	<0.50	0.50	7696463	0.55	0.50	7679945	59	0.50	7679932
Dissolved Nickel (Ni)	ug/L	1.1	1.0	1.0	7696463	<1.0	1.0	7679945	17	1.0	7679932
Dissolved Phosphorus (P)	ug/L	<100	<100	100	7696463	<100	100	7679945	330	100	7679932
Dissolved Potassium (K)	ug/L	42000	43000	200	7696463	31000	200	7679945	140000	200	7679932
Dissolved Selenium (Se)	ug/L	<2.0	<2.0	2.0	7696463	<2.0	2.0	7679945	2.4	2.0	7679932
Dissolved Silicon (Si)	ug/L	4800	4900	50	7696463	3600	50	7679945	9500	50	7679932
Dissolved Silver (Ag)	ug/L	<0.090	<0.090	0.090	7696463	<0.090	0.090	7679945	<0.090	0.090	7679932
Dissolved Sodium (Na)	ug/L	310000	310000	100	7696463	670000	500	7679945	2400000	500	7679932
Dissolved Strontium (Sr)	ug/L	8900	8800	1.0	7696463	6900	1.0	7679945	1100	1.0	7679932
Dissolved Tellurium (Te)	ug/L	<1.0	<1.0	1.0	7696463	<1.0	1.0	7679945	<1.0	1.0	7679932
Dissolved Thallium (Tl)	ug/L	<0.050	<0.050	0.050	7696463	<0.050	0.050	7679945	<0.050	0.050	7679932
Dissolved Tin (Sn)	ug/L	<1.0	<1.0	1.0	7696463	<1.0	1.0	7679945	<1.0	1.0	7679932
Dissolved Titanium (Ti)	ug/L	<5.0	<5.0	5.0	7696463	<5.0	5.0	7679945	<5.0	5.0	7679932
Dissolved Tungsten (W)	ug/L	1.1	1.1	1.0	7696463	<1.0	1.0	7679945	20	1.0	7679932
Dissolved Uranium (U)	ug/L	0.19	0.20	0.10	7696463	6.5	0.10	7679945	<0.10	0.10	7679932
Dissolved Vanadium (V)	ug/L	0.73	0.61	0.50	7696463	<0.50	0.50	7679945	0.96	0.50	7679932
Dissolved Zinc (Zn)	ug/L	<5.0	<5.0	5.0	7696463	<5.0	5.0	7679945	<5.0	5.0	7679932

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



BUREAU
VERITAS

Bureau Veritas Job #: C1W1739
Report Date: 2021/11/15

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Bureau Veritas ID		RCT891	RCT891			RCT892			RCT893		
Sampling Date		2021/11/01	2021/11/01			2021/11/01			2021/11/01		
COC Number		847927-14-01	847927-14-01			847927-14-01			847927-14-01		
	UNITS	42 -III	42 -III Lab-Dup	RDL	QC Batch	36-IIIIR	RDL	QC Batch	P6-IR	RDL	QC Batch
Dissolved Zirconium (Zr)	ug/L	<1.0	<1.0	1.0	7696463	<1.0	1.0	7679945	<1.0	1.0	7679932

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



BUREAU
VERITAS

Bureau Veritas Job #: C1W1739
Report Date: 2021/11/15

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Bureau Veritas ID		RCT894		RCT895			RCT896		RCT897		
Sampling Date		2021/10/29		2021/10/29			2021/10/29		2021/10/29		
COC Number		847927-14-01		847927-06-01			847927-06-01		847927-06-01		
	UNITS	3-II	RDL	60-I	RDL	QC Batch	60-II	QC Batch	60-III	RDL	QC Batch

Metals											
Dissolved Aluminum (Al)	ug/L	<4.9	4.9	<4.9	4.9	7679945	<4.9	7679932	<4.9	4.9	7679945
Dissolved Antimony (Sb)	ug/L	<0.50	0.50	<0.50	0.50	7679945	<0.50	7679932	<0.50	0.50	7679945
Dissolved Arsenic (As)	ug/L	<1.0	1.0	<1.0	1.0	7679945	<1.0	7679932	<1.0	1.0	7679945
Dissolved Barium (Ba)	ug/L	20	2.0	30	2.0	7679945	19	7679932	36	2.0	7679945
Dissolved Beryllium (Be)	ug/L	<0.40	0.40	<0.40	0.40	7679945	<0.40	7679932	<0.40	0.40	7679945
Dissolved Bismuth (Bi)	ug/L	<1.0	1.0	<1.0	1.0	7679945	<1.0	7679932	<1.0	1.0	7679945
Dissolved Boron (B)	ug/L	700	10	470	10	7679945	620	7679932	690	10	7679945
Dissolved Cadmium (Cd)	ug/L	<0.090	0.090	<0.090	0.090	7679945	<0.090	7679932	<0.090	0.090	7679945
Dissolved Calcium (Ca)	ug/L	360000	200	470000	400	7679945	270000	7679932	330000	200	7679945
Dissolved Chromium (Cr)	ug/L	<5.0	5.0	<5.0	5.0	7679945	<5.0	7679932	<5.0	5.0	7679945
Dissolved Cobalt (Co)	ug/L	<0.50	0.50	<0.50	0.50	7679945	<0.50	7679932	0.71	0.50	7679945
Dissolved Copper (Cu)	ug/L	<0.90	0.90	<0.90	0.90	7679945	<0.90	7679932	1.1	0.90	7679945
Dissolved Iron (Fe)	ug/L	660	100	<100	100	7679945	200	7679932	<100	100	7679945
Dissolved Lead (Pb)	ug/L	<0.50	0.50	0.66	0.50	7679945	<0.50	7679932	<0.50	0.50	7679945
Dissolved Lithium (Li)	ug/L	94	5.0	63	5.0	7679945	75	7679932	15	5.0	7679945
Dissolved Magnesium (Mg)	ug/L	82000	50	110000	50	7679945	74000	7679932	70000	50	7679945
Dissolved Manganese (Mn)	ug/L	130	2.0	93	2.0	7679945	120	7679932	69	2.0	7679945
Dissolved Molybdenum (Mo)	ug/L	1.0	0.50	<0.50	0.50	7679945	1.0	7679932	1.2	0.50	7679945
Dissolved Nickel (Ni)	ug/L	<1.0	1.0	<1.0	1.0	7679945	<1.0	7679932	3.0	1.0	7679945
Dissolved Phosphorus (P)	ug/L	<100	100	<100	100	7679945	<100	7679932	<100	100	7679945
Dissolved Potassium (K)	ug/L	22000	200	32000	200	7679945	18000	7679932	13000	200	7679945
Dissolved Selenium (Se)	ug/L	<2.0	2.0	<2.0	2.0	7679945	<2.0	7679932	<2.0	2.0	7679945
Dissolved Silicon (Si)	ug/L	5600	50	3700	50	7679945	5700	7679932	6000	50	7679945
Dissolved Silver (Ag)	ug/L	<0.090	0.090	<0.090	0.090	7679945	<0.090	7679932	<0.090	0.090	7679945
Dissolved Sodium (Na)	ug/L	280000	100	710000	500	7679945	240000	7679932	210000	100	7679945
Dissolved Strontium (Sr)	ug/L	4000	1.0	7400	1.0	7679945	3300	7679932	4300	1.0	7679945
Dissolved Tellurium (Te)	ug/L	<1.0	1.0	<1.0	1.0	7679945	<1.0	7679932	<1.0	1.0	7679945
Dissolved Thallium (Tl)	ug/L	<0.050	0.050	<0.050	0.050	7679945	<0.050	7679932	<0.050	0.050	7679945
Dissolved Tin (Sn)	ug/L	<1.0	1.0	<1.0	1.0	7679945	<1.0	7679932	<1.0	1.0	7679945
Dissolved Titanium (Ti)	ug/L	<5.0	5.0	<5.0	5.0	7679945	<5.0	7679932	<5.0	5.0	7679945
Dissolved Tungsten (W)	ug/L	<1.0	1.0	<1.0	1.0	7679945	<1.0	7679932	<1.0	1.0	7679945
Dissolved Uranium (U)	ug/L	0.79	0.10	<0.10	0.10	7679945	0.37	7679932	4.7	0.10	7679945
Dissolved Vanadium (V)	ug/L	<0.50	0.50	<0.50	0.50	7679945	<0.50	7679932	<0.50	0.50	7679945
Dissolved Zinc (Zn)	ug/L	<5.0	5.0	<5.0	5.0	7679945	<5.0	7679932	42	5.0	7679945
Dissolved Zirconium (Zr)	ug/L	<1.0	1.0	<1.0	1.0	7679945	<1.0	7679932	<1.0	1.0	7679945

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



BUREAU
VERITAS

Bureau Veritas Job #: C1W1739
Report Date: 2021/11/15

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Bureau Veritas ID		RCT897		RCT898		RCT899		RCT900		
Sampling Date		2021/10/29		2021/10/29		2021/10/29		2021/11/01		
COC Number		847927-06-01		847927-06-01		847927-06-01		847927-06-01		
	UNITS	60-III Lab-Dup	RDL	60-IV	RDL	61-I	RDL	61-II	RDL	QC Batch
Metals										
Dissolved Aluminum (Al)	ug/L	<4.9	4.9	<4.9	4.9	<4.9	4.9	8.1	4.9	7679945
Dissolved Antimony (Sb)	ug/L	<0.50	0.50	<0.50	0.50	<0.50	0.50	<0.50	0.50	7679945
Dissolved Arsenic (As)	ug/L	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	7679945
Dissolved Barium (Ba)	ug/L	38	2.0	14	2.0	14	2.0	14	2.0	7679945
Dissolved Beryllium (Be)	ug/L	<0.40	0.40	<0.40	0.40	<0.40	0.40	<0.40	0.40	7679945
Dissolved Bismuth (Bi)	ug/L	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	7679945
Dissolved Boron (B)	ug/L	690	10	1300	10	1500	10	4200	10	7679945
Dissolved Cadmium (Cd)	ug/L	<0.090	0.090	<0.090	0.090	<0.090	0.090	<0.090	0.090	7679945
Dissolved Calcium (Ca)	ug/L	330000	200	680000	1000	640000	1000	550000	1000	7679945
Dissolved Chromium (Cr)	ug/L	<5.0	5.0	<5.0	5.0	<5.0	5.0	<5.0	5.0	7679945
Dissolved Cobalt (Co)	ug/L	0.88	0.50	<0.50	0.50	<0.50	0.50	<0.50	0.50	7679945
Dissolved Copper (Cu)	ug/L	1.2	0.90	<0.90	0.90	<0.90	0.90	<0.90	0.90	7679945
Dissolved Iron (Fe)	ug/L	<100	100	<100	100	<100	100	<100	100	7679945
Dissolved Lead (Pb)	ug/L	<0.50	0.50	<0.50	0.50	<0.50	0.50	<0.50	0.50	7679945
Dissolved Lithium (Li)	ug/L	15	5.0	350	5.0	220	5.0	550	25	7679945
Dissolved Magnesium (Mg)	ug/L	72000	50	110000	50	100000	50	95000	50	7679945
Dissolved Manganese (Mn)	ug/L	72	2.0	91	2.0	100	2.0	67	2.0	7679945
Dissolved Molybdenum (Mo)	ug/L	1.0	0.50	<0.50	0.50	<0.50	0.50	<0.50	0.50	7679945
Dissolved Nickel (Ni)	ug/L	3.1	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	7679945
Dissolved Phosphorus (P)	ug/L	<100	100	<100	100	<100	100	<100	100	7679945
Dissolved Potassium (K)	ug/L	13000	200	38000	200	27000	200	22000	200	7679945
Dissolved Selenium (Se)	ug/L	<2.0	2.0	<2.0	2.0	<2.0	2.0	<2.0	2.0	7679945
Dissolved Silicon (Si)	ug/L	6000	50	3200	50	3700	50	5000	50	7679945
Dissolved Silver (Ag)	ug/L	<0.090	0.090	<0.090	0.090	<0.090	0.090	<0.090	0.090	7679945
Dissolved Sodium (Na)	ug/L	220000	100	680000	500	400000	100	390000	100	7679945
Dissolved Strontium (Sr)	ug/L	4300	1.0	8400	1.0	5900	1.0	6900	1.0	7679945
Dissolved Tellurium (Te)	ug/L	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	7679945
Dissolved Thallium (Tl)	ug/L	<0.050	0.050	<0.050	0.050	<0.050	0.050	<0.050	0.050	7679945
Dissolved Tin (Sn)	ug/L	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	7679945
Dissolved Titanium (Ti)	ug/L	<5.0	5.0	<5.0	5.0	<5.0	5.0	<5.0	5.0	7679945
Dissolved Tungsten (W)	ug/L	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	7679945
Dissolved Uranium (U)	ug/L	4.6	0.10	0.16	0.10	<0.10	0.10	0.20	0.10	7679945
Dissolved Vanadium (V)	ug/L	<0.50	0.50	<0.50	0.50	<0.50	0.50	<0.50	0.50	7679945
Dissolved Zinc (Zn)	ug/L	46	5.0	<5.0	5.0	<5.0	5.0	<5.0	5.0	7679945
RDL = Reportable Detection Limit										
QC Batch = Quality Control Batch										
Lab-Dup = Laboratory Initiated Duplicate										



ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Bureau Veritas ID		RCT897		RCT898		RCT899		RCT900		
Sampling Date		2021/10/29		2021/10/29		2021/10/29		2021/11/01		
COC Number		847927-06-01		847927-06-01		847927-06-01		847927-06-01		
	UNITS	60-III Lab-Dup	RDL	60-IV	RDL	61-I	RDL	61-II	RDL	QC Batch
Dissolved Zirconium (Zr)	ug/L	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	7679945
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate										



BUREAU
VERITAS

Bureau Veritas Job #: C1W1739
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Terrapure Environmental
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ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Bureau Veritas ID		RCT901			RCT902		RCT903	RCT904		
Sampling Date		2021/10/29			2021/10/29		2021/10/29	2021/10/29		
COC Number		847927-06-01			847927-06-01		847927-06-01	847927-06-01		
	UNITS	61-III	RDL	QC Batch	40-II	QC Batch	40-III	11-II	RDL	QC Batch
Metals										
Dissolved Aluminum (Al)	ug/L	<4.9	4.9	7679945	<4.9	7679932	<4.9	<4.9	4.9	7679945
Dissolved Antimony (Sb)	ug/L	<0.50	0.50	7679945	<0.50	7679932	<0.50	<0.50	0.50	7679945
Dissolved Arsenic (As)	ug/L	<1.0	1.0	7679945	<1.0	7679932	<1.0	<1.0	1.0	7679945
Dissolved Barium (Ba)	ug/L	17	2.0	7679945	21	7679932	22	18	2.0	7679945
Dissolved Beryllium (Be)	ug/L	<0.40	0.40	7679945	<0.40	7679932	<0.40	<0.40	0.40	7679945
Dissolved Bismuth (Bi)	ug/L	<1.0	1.0	7679945	<1.0	7679932	<1.0	<1.0	1.0	7679945
Dissolved Boron (B)	ug/L	2100	10	7679945	860	7679932	720	570	10	7679945
Dissolved Cadmium (Cd)	ug/L	<0.090	0.090	7679945	<0.090	7679932	<0.090	<0.090	0.090	7679945
Dissolved Calcium (Ca)	ug/L	630000	1000	7679945	390000	7679932	380000	270000	200	7679945
Dissolved Chromium (Cr)	ug/L	<5.0	5.0	7679945	<5.0	7679932	<5.0	<5.0	5.0	7679945
Dissolved Cobalt (Co)	ug/L	<0.50	0.50	7679945	<0.50	7679932	<0.50	<0.50	0.50	7679945
Dissolved Copper (Cu)	ug/L	<0.90	0.90	7679945	<0.90	7679932	<0.90	<0.90	0.90	7679945
Dissolved Iron (Fe)	ug/L	<100	100	7679945	670	7679932	860	200	100	7679945
Dissolved Lead (Pb)	ug/L	<0.50	0.50	7679945	<0.50	7679932	<0.50	<0.50	0.50	7679945
Dissolved Lithium (Li)	ug/L	210	5.0	7679945	100	7679932	92	68	5.0	7679945
Dissolved Magnesium (Mg)	ug/L	81000	50	7679945	90000	7679932	81000	72000	50	7679945
Dissolved Manganese (Mn)	ug/L	65	2.0	7679945	130	7679932	140	110	2.0	7679945
Dissolved Molybdenum (Mo)	ug/L	<0.50	0.50	7679945	1.1	7679932	2.2	1.1	0.50	7679945
Dissolved Nickel (Ni)	ug/L	<1.0	1.0	7679945	<1.0	7679932	1.0	<1.0	1.0	7679945
Dissolved Phosphorus (P)	ug/L	<100	100	7679945	<100	7679932	<100	<100	100	7679945
Dissolved Potassium (K)	ug/L	27000	200	7679945	25000	7679932	22000	17000	200	7679945
Dissolved Selenium (Se)	ug/L	<2.0	2.0	7679945	<2.0	7679932	<2.0	<2.0	2.0	7679945
Dissolved Silicon (Si)	ug/L	3400	50	7679945	6200	7679932	5500	5500	50	7679945
Dissolved Silver (Ag)	ug/L	<0.090	0.090	7679945	<0.090	7679932	<0.090	<0.090	0.090	7679945
Dissolved Sodium (Na)	ug/L	280000	100	7679945	310000	7679932	280000	240000	100	7679945
Dissolved Strontium (Sr)	ug/L	8300	1.0	7679945	4400	7679932	4000	3000	1.0	7679945
Dissolved Tellurium (Te)	ug/L	<1.0	1.0	7679945	<1.0	7679932	<1.0	<1.0	1.0	7679945
Dissolved Thallium (Tl)	ug/L	<0.050	0.050	7679945	<0.050	7679932	<0.050	<0.050	0.050	7679945
Dissolved Tin (Sn)	ug/L	<1.0	1.0	7679945	<1.0	7679932	<1.0	<1.0	1.0	7679945
Dissolved Titanium (Ti)	ug/L	<5.0	5.0	7679945	<5.0	7679932	<5.0	<5.0	5.0	7679945
Dissolved Tungsten (W)	ug/L	<1.0	1.0	7679945	<1.0	7679932	<1.0	<1.0	1.0	7679945
Dissolved Uranium (U)	ug/L	<0.10	0.10	7679945	0.83	7679932	0.97	0.33	0.10	7679945
Dissolved Vanadium (V)	ug/L	<0.50	0.50	7679945	<0.50	7679932	<0.50	<0.50	0.50	7679945
Dissolved Zinc (Zn)	ug/L	<5.0	5.0	7679945	<5.0	7679932	<5.0	<5.0	5.0	7679945
Dissolved Zirconium (Zr)	ug/L	<1.0	1.0	7679945	<1.0	7679932	<1.0	<1.0	1.0	7679945
RDL = Reportable Detection Limit										
QC Batch = Quality Control Batch										



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VERITAS

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ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Bureau Veritas ID		RCT905			RCT906		RCT907		
Sampling Date		2021/11/01			2021/10/29		2021/10/29		
COC Number		847927-07-01			847927-07-01		847927-07-01		
	UNITS	11-III	RDL	QC Batch	48-I	RDL	48-II	RDL	QC Batch
Metals									
Dissolved Aluminum (Al)	ug/L	6.7	4.9	7679932	<4.9	4.9	<4.9	4.9	7679945
Dissolved Antimony (Sb)	ug/L	<0.50	0.50	7679932	<0.50	0.50	<0.50	0.50	7679945
Dissolved Arsenic (As)	ug/L	<1.0	1.0	7679932	<1.0	1.0	<1.0	1.0	7679945
Dissolved Barium (Ba)	ug/L	15	2.0	7679932	13	2.0	29	2.0	7679945
Dissolved Beryllium (Be)	ug/L	<0.40	0.40	7679932	<0.40	0.40	<0.40	0.40	7679945
Dissolved Bismuth (Bi)	ug/L	<1.0	1.0	7679932	<1.0	1.0	<1.0	1.0	7679945
Dissolved Boron (B)	ug/L	4600	10	7679932	1900	10	1500	10	7679945
Dissolved Cadmium (Cd)	ug/L	<0.090	0.090	7679932	<0.090	0.090	<0.090	0.090	7679945
Dissolved Calcium (Ca)	ug/L	600000	1000	7679932	760000	1000	570000	1000	7679945
Dissolved Chromium (Cr)	ug/L	<5.0	5.0	7679932	<5.0	5.0	<5.0	5.0	7679945
Dissolved Cobalt (Co)	ug/L	<0.50	0.50	7679932	<0.50	0.50	<0.50	0.50	7679945
Dissolved Copper (Cu)	ug/L	<0.90	0.90	7679932	<0.90	0.90	<0.90	0.90	7679945
Dissolved Iron (Fe)	ug/L	<100	100	7679932	<100	100	<100	100	7679945
Dissolved Lead (Pb)	ug/L	<0.50	0.50	7679932	<0.50	0.50	<0.50	0.50	7679945
Dissolved Lithium (Li)	ug/L	600	25	7679932	600	25	160	5.0	7679945
Dissolved Magnesium (Mg)	ug/L	99000	50	7679932	170000	50	91000	50	7679945
Dissolved Manganese (Mn)	ug/L	68	2.0	7679932	94	2.0	120	2.0	7679945
Dissolved Molybdenum (Mo)	ug/L	<0.50	0.50	7679932	<0.50	0.50	<0.50	0.50	7679945
Dissolved Nickel (Ni)	ug/L	<1.0	1.0	7679932	<1.0	1.0	<1.0	1.0	7679945
Dissolved Phosphorus (P)	ug/L	<100	100	7679932	<100	100	<100	100	7679945
Dissolved Potassium (K)	ug/L	24000	200	7679932	25000	200	15000	200	7679945
Dissolved Selenium (Se)	ug/L	2.8	2.0	7679932	<2.0	2.0	<2.0	2.0	7679945
Dissolved Silicon (Si)	ug/L	5300	50	7679932	4000	50	4800	50	7679945
Dissolved Silver (Ag)	ug/L	<0.090	0.090	7679932	<0.090	0.090	<0.090	0.090	7679945
Dissolved Sodium (Na)	ug/L	400000	100	7679932	620000	500	290000	100	7679945
Dissolved Strontium (Sr)	ug/L	7300	1.0	7679932	10000	1.0	5000	1.0	7679945
Dissolved Tellurium (Te)	ug/L	<1.0	1.0	7679932	<1.0	1.0	<1.0	1.0	7679945
Dissolved Thallium (Tl)	ug/L	<0.050	0.050	7679932	<0.050	0.050	<0.050	0.050	7679945
Dissolved Tin (Sn)	ug/L	<1.0	1.0	7679932	<1.0	1.0	<1.0	1.0	7679945
Dissolved Titanium (Ti)	ug/L	<5.0	5.0	7679932	<5.0	5.0	<5.0	5.0	7679945
Dissolved Tungsten (W)	ug/L	<1.0	1.0	7679932	<1.0	1.0	<1.0	1.0	7679945
Dissolved Uranium (U)	ug/L	0.23	0.10	7679932	0.43	0.10	0.53	0.10	7679945
Dissolved Vanadium (V)	ug/L	<0.50	0.50	7679932	<0.50	0.50	<0.50	0.50	7679945
Dissolved Zinc (Zn)	ug/L	<5.0	5.0	7679932	<5.0	5.0	<5.0	5.0	7679945
Dissolved Zirconium (Zr)	ug/L	<1.0	1.0	7679932	<1.0	1.0	<1.0	1.0	7679945
RDL = Reportable Detection Limit									
QC Batch = Quality Control Batch									



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VERITAS

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ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Bureau Veritas ID		RCT908			RCT909		RCT910		RCT911		
Sampling Date		2021/10/29			2021/10/29		2021/10/29		2021/10/29		
COC Number		847927-07-01			847927-07-01		847927-07-01		847927-07-01		
	UNITS	48-IV	RDL	QC Batch	48-V	RDL	11-I	RDL	47-I	RDL	QC Batch

Metals											
Dissolved Aluminum (Al)	ug/L	<4.9	4.9	7679932	<4.9	4.9	<4.9	4.9	5.5	4.9	7679945
Dissolved Antimony (Sb)	ug/L	<0.50	0.50	7679932	<0.50	0.50	<0.50	0.50	<0.50	0.50	7679945
Dissolved Arsenic (As)	ug/L	<1.0	1.0	7679932	<1.0	1.0	<1.0	1.0	<1.0	1.0	7679945
Dissolved Barium (Ba)	ug/L	41	2.0	7679932	30	2.0	13	2.0	17	2.0	7679945
Dissolved Beryllium (Be)	ug/L	<0.40	0.40	7679932	<0.40	0.40	<0.40	0.40	<0.40	0.40	7679945
Dissolved Bismuth (Bi)	ug/L	<1.0	1.0	7679932	<1.0	1.0	<1.0	1.0	<1.0	1.0	7679945
Dissolved Boron (B)	ug/L	140	10	7679932	1400	10	2000	10	820	10	7679945
Dissolved Cadmium (Cd)	ug/L	0.14	0.090	7679932	<0.090	0.090	<0.090	0.090	<0.090	0.090	7679945
Dissolved Calcium (Ca)	ug/L	180000	200	7679932	560000	1000	790000	1000	580000	1000	7679945
Dissolved Chromium (Cr)	ug/L	<5.0	5.0	7679932	<5.0	5.0	<5.0	5.0	<5.0	5.0	7679945
Dissolved Cobalt (Co)	ug/L	<0.50	0.50	7679932	<0.50	0.50	<0.50	0.50	<0.50	0.50	7679945
Dissolved Copper (Cu)	ug/L	1.7	0.90	7679932	<0.90	0.90	<0.90	0.90	<0.90	0.90	7679945
Dissolved Iron (Fe)	ug/L	<100	100	7679932	500	100	<100	100	<100	100	7679945
Dissolved Lead (Pb)	ug/L	<0.50	0.50	7679932	<0.50	0.50	<0.50	0.50	<0.50	0.50	7679945
Dissolved Lithium (Li)	ug/L	39	5.0	7679932	150	5.0	620	25	93	5.0	7679945
Dissolved Magnesium (Mg)	ug/L	68000	50	7679932	92000	50	170000	50	90000	50	7679945
Dissolved Manganese (Mn)	ug/L	14	2.0	7679932	130	2.0	94	2.0	110	2.0	7679945
Dissolved Molybdenum (Mo)	ug/L	1.4	0.50	7679932	<0.50	0.50	<0.50	0.50	<0.50	0.50	7679945
Dissolved Nickel (Ni)	ug/L	1.1	1.0	7679932	<1.0	1.0	<1.0	1.0	<1.0	1.0	7679945
Dissolved Phosphorus (P)	ug/L	<100	100	7679932	<100	100	<100	100	<100	100	7679945
Dissolved Potassium (K)	ug/L	2500	200	7679932	15000	200	25000	200	25000	200	7679945
Dissolved Selenium (Se)	ug/L	<2.0	2.0	7679932	<2.0	2.0	<2.0	2.0	<2.0	2.0	7679945
Dissolved Silicon (Si)	ug/L	7200	50	7679932	5000	50	4000	50	3500	50	7679945
Dissolved Silver (Ag)	ug/L	<0.090	0.090	7679932	<0.090	0.090	<0.090	0.090	<0.090	0.090	7679945
Dissolved Sodium (Na)	ug/L	110000	100	7679932	280000	100	620000	500	290000	100	7679945
Dissolved Strontium (Sr)	ug/L	1100	1.0	7679932	5000	1.0	11000	1.0	4500	1.0	7679945
Dissolved Tellurium (Te)	ug/L	<1.0	1.0	7679932	<1.0	1.0	<1.0	1.0	<1.0	1.0	7679945
Dissolved Thallium (Tl)	ug/L	<0.050	0.050	7679932	<0.050	0.050	<0.050	0.050	<0.050	0.050	7679945
Dissolved Tin (Sn)	ug/L	<1.0	1.0	7679932	<1.0	1.0	<1.0	1.0	<1.0	1.0	7679945
Dissolved Titanium (Ti)	ug/L	<5.0	5.0	7679932	<5.0	5.0	<5.0	5.0	<5.0	5.0	7679945
Dissolved Tungsten (W)	ug/L	1.0	1.0	7679932	<1.0	1.0	<1.0	1.0	<1.0	1.0	7679945
Dissolved Uranium (U)	ug/L	5.4	0.10	7679932	0.80	0.10	0.44	0.10	0.14	0.10	7679945
Dissolved Vanadium (V)	ug/L	<0.50	0.50	7679932	<0.50	0.50	<0.50	0.50	<0.50	0.50	7679945
Dissolved Zinc (Zn)	ug/L	62	5.0	7679932	<5.0	5.0	<5.0	5.0	<5.0	5.0	7679945
Dissolved Zirconium (Zr)	ug/L	<1.0	1.0	7679932	<1.0	1.0	<1.0	1.0	<1.0	1.0	7679945

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch



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VERITAS

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ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Bureau Veritas ID		RCT912		RCT913	RCT914		RCT915		
Sampling Date		2021/10/29		2021/10/29	2021/10/29		2021/10/29		
COC Number		847927-07-01		847927-07-01	847927-07-01		847927-08-01		
	UNITS	47-IIR	QC Batch	47-III	47-IV	RDL	12-IV	RDL	QC Batch
Metals									
Dissolved Aluminum (Al)	ug/L	<4.9	7679945	<4.9	4.9	4.9	<4.9	4.9	7679932
Dissolved Antimony (Sb)	ug/L	<0.50	7679945	<0.50	<0.50	0.50	<0.50	0.50	7679932
Dissolved Arsenic (As)	ug/L	<1.0	7679945	<1.0	<1.0	1.0	<1.0	1.0	7679932
Dissolved Barium (Ba)	ug/L	34	7679945	14	54	2.0	18	2.0	7679932
Dissolved Beryllium (Be)	ug/L	<0.40	7679945	<0.40	<0.40	0.40	<0.40	0.40	7679932
Dissolved Bismuth (Bi)	ug/L	<1.0	7679945	<1.0	<1.0	1.0	<1.0	1.0	7679932
Dissolved Boron (B)	ug/L	190	7679945	1200	210	10	960	10	7679932
Dissolved Cadmium (Cd)	ug/L	<0.090	7679945	<0.090	<0.090	0.090	<0.090	0.090	7679932
Dissolved Calcium (Ca)	ug/L	220000	7679945	320000	130000	200	620000	1000	7679932
Dissolved Chromium (Cr)	ug/L	<5.0	7679945	<5.0	<5.0	5.0	<5.0	5.0	7679932
Dissolved Cobalt (Co)	ug/L	<0.50	7679945	<0.50	<0.50	0.50	<0.50	0.50	7679932
Dissolved Copper (Cu)	ug/L	1.1	7679945	<0.90	1.2	0.90	<0.90	0.90	7679932
Dissolved Iron (Fe)	ug/L	<100	7679945	<100	470	100	<100	100	7679932
Dissolved Lead (Pb)	ug/L	1.6	7679945	<0.50	<0.50	0.50	<0.50	0.50	7679932
Dissolved Lithium (Li)	ug/L	5.2	7679945	55	<5.0	5.0	100	5.0	7679932
Dissolved Magnesium (Mg)	ug/L	43000	7679945	60000	40000	50	97000	50	7679932
Dissolved Manganese (Mn)	ug/L	58	7679945	55	160	2.0	110	2.0	7679932
Dissolved Molybdenum (Mo)	ug/L	4.7	7679945	1.9	2.9	0.50	<0.50	0.50	7679932
Dissolved Nickel (Ni)	ug/L	2.1	7679945	<1.0	1.1	1.0	<1.0	1.0	7679932
Dissolved Phosphorus (P)	ug/L	<100	7679945	<100	<100	100	<100	100	7679932
Dissolved Potassium (K)	ug/L	4800	7679945	12000	3000	200	26000	200	7679932
Dissolved Selenium (Se)	ug/L	<2.0	7679945	<2.0	<2.0	2.0	<2.0	2.0	7679932
Dissolved Silicon (Si)	ug/L	5900	7679945	5400	6000	50	3600	50	7679932
Dissolved Silver (Ag)	ug/L	<0.090	7679945	<0.090	<0.090	0.090	<0.090	0.090	7679932
Dissolved Sodium (Na)	ug/L	110000	7679945	120000	47000	100	300000	100	7679932
Dissolved Strontium (Sr)	ug/L	2600	7679945	4300	1700	1.0	4800	1.0	7679932
Dissolved Tellurium (Te)	ug/L	<1.0	7679945	<1.0	<1.0	1.0	<1.0	1.0	7679932
Dissolved Thallium (Tl)	ug/L	<0.050	7679945	<0.050	<0.050	0.050	<0.050	0.050	7679932
Dissolved Tin (Sn)	ug/L	<1.0	7679945	<1.0	<1.0	1.0	<1.0	1.0	7679932
Dissolved Titanium (Ti)	ug/L	<5.0	7679945	<5.0	<5.0	5.0	<5.0	5.0	7679932
Dissolved Tungsten (W)	ug/L	<1.0	7679945	<1.0	<1.0	1.0	<1.0	1.0	7679932
Dissolved Uranium (U)	ug/L	3.7	7679945	1.3	2.2	0.10	0.14	0.10	7679932
Dissolved Vanadium (V)	ug/L	<0.50	7679945	<0.50	<0.50	0.50	<0.50	0.50	7679932
Dissolved Zinc (Zn)	ug/L	200	7679945	<5.0	110	5.0	<5.0	5.0	7679932
Dissolved Zirconium (Zr)	ug/L	<1.0	7679945	<1.0	<1.0	1.0	<1.0	1.0	7679932
RDL = Reportable Detection Limit									
QC Batch = Quality Control Batch									



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SEMI-VOLATILE ORGANICS BY GC-MS (WATER)

Bureau Veritas ID		RCT911	RCT912	RCT913		
Sampling Date		2021/10/29	2021/10/29	2021/10/29		
COC Number		847927-07-01	847927-07-01	847927-07-01		
	UNITS	47-I	47-IIR	47-III	RDL	QC Batch
Semivolatile Organics						
Acenaphthene	ug/L	<0.20	<0.20	<0.20	0.20	7679989
Acenaphthylene	ug/L	<0.20	<0.20	<0.20	0.20	7679989
Anthracene	ug/L	<0.20	<0.20	<0.20	0.20	7679989
Benzo(a)anthracene	ug/L	<0.20	<0.20	<0.20	0.20	7679989
Benzo(a)pyrene	ug/L	<0.20	<0.20	<0.20	0.20	7679989
Benzo(b,j)fluoranthene	ug/L	<0.20	<0.20	<0.20	0.20	7679989
Benzo(g,h,i)perylene	ug/L	<0.20	<0.20	<0.20	0.20	7679989
Benzo(k)fluoranthene	ug/L	<0.20	<0.20	<0.20	0.20	7679989
1-Chloronaphthalene	ug/L	<1.0	<1.0	<1.0	1.0	7679989
2-Chloronaphthalene	ug/L	<0.50	<0.50	<0.50	0.50	7679989
Chrysene	ug/L	<0.20	<0.20	<0.20	0.20	7679989
Dibenzo(a,h)anthracene	ug/L	<0.20	<0.20	<0.20	0.20	7679989
Fluoranthene	ug/L	<0.20	<0.20	<0.20	0.20	7679989
Fluorene	ug/L	<0.20	<0.20	<0.20	0.20	7679989
Indeno(1,2,3-cd)pyrene	ug/L	<0.20	<0.20	<0.20	0.20	7679989
1-Methylnaphthalene	ug/L	<0.20	<0.20	<0.20	0.20	7679989
2-Methylnaphthalene	ug/L	<0.20	<0.20	<0.20	0.20	7679989
Naphthalene	ug/L	<0.20	<0.20	<0.20	0.20	7679989
5-Nitroacenaphthene	ug/L	<1.0	<1.0	<1.0	1.0	7679989
Perylene	ug/L	<0.20	<0.20	<0.20	0.20	7679989
Phenanthrene	ug/L	<0.20	<0.20	<0.20	0.20	7679989
Pyrene	ug/L	<0.20	<0.20	<0.20	0.20	7679989
1,2-Dichlorobenzene	ug/L	<0.50	<0.50	<0.50	0.50	7679989
1,3-Dichlorobenzene	ug/L	<0.50	<0.50	<0.50	0.50	7679989
1,4-Dichlorobenzene	ug/L	<0.50	<0.50	<0.50	0.50	7679989
Hexachlorobenzene	ug/L	<0.50	<0.50	<0.50	0.50	7679989
Pentachlorobenzene	ug/L	<0.50	<0.50	<0.50	0.50	7679989
1,2,3,5-Tetrachlorobenzene	ug/L	<0.50	<0.50	<0.50	0.50	7679989
1,2,4,5-Tetrachlorobenzene	ug/L	<0.50	<0.50	<0.50	0.50	7679989
1,2,3-Trichlorobenzene	ug/L	<0.50	<0.50	<0.50	0.50	7679989
1,2,4-Trichlorobenzene	ug/L	<0.50	<0.50	<0.50	0.50	7679989
1,3,5-Trichlorobenzene	ug/L	<0.50	<0.50	<0.50	0.50	7679989
2-Chlorophenol	ug/L	<0.30	<0.30	<0.30	0.30	7679989
4-Chloro-3-Methylphenol	ug/L	<0.50	<0.50	<0.50	0.50	7679989
m/p-Cresol	ug/L	<0.50	<0.50	<0.50	0.50	7679989
o-Cresol	ug/L	<0.50	<0.50	<0.50	0.50	7679989
RDL = Reportable Detection Limit						
QC Batch = Quality Control Batch						



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Terrapure Environmental
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SEMI-VOLATILE ORGANICS BY GC-MS (WATER)

Bureau Veritas ID		RCT911	RCT912	RCT913		
Sampling Date		2021/10/29	2021/10/29	2021/10/29		
COC Number		847927-07-01	847927-07-01	847927-07-01		
	UNITS	47-I	47-IIR	47-III	RDL	QC Batch
1,2,3,4-Tetrachlorobenzene	ug/L	<0.50	<0.50	<0.50	0.50	7679989
2,3-Dichlorophenol	ug/L	<0.50	<0.50	<0.50	0.50	7679989
2,4-Dichlorophenol	ug/L	<0.30	<0.30	<0.30	0.30	7679989
2,5-Dichlorophenol	ug/L	<0.50	<0.50	<0.50	0.50	7679989
2,6-Dichlorophenol	ug/L	<0.50	<0.50	<0.50	0.50	7679989
3,4-Dichlorophenol	ug/L	<0.50	<0.50	<0.50	0.50	7679989
3,5-Dichlorophenol	ug/L	<0.50	<0.50	<0.50	0.50	7679989
2,4-Dimethylphenol	ug/L	<0.50	<0.50	<0.50	0.50	7679989
2,4-Dinitrophenol	ug/L	<2.0	<2.0	<2.0	2.0	7679989
4,6-Dinitro-2-methylphenol	ug/L	<2.0	<2.0	<2.0	2.0	7679989
2-Nitrophenol	ug/L	<0.50	<0.50	<0.50	0.50	7679989
4-Nitrophenol	ug/L	<1.4	<1.4	<1.4	1.4	7679989
Pentachlorophenol	ug/L	<1.0	<1.0	<1.0	1.0	7679989
Phenol	ug/L	<0.50	<0.50	<0.50	0.50	7679989
2,3,4,5-Tetrachlorophenol	ug/L	<0.40	<0.40	<0.40	0.40	7679989
2,3,4,6-Tetrachlorophenol	ug/L	<0.50	<0.50	<0.50	0.50	7679989
2,3,5,6-Tetrachlorophenol	ug/L	<0.50	<0.50	<0.50	0.50	7679989
2,3,4-Trichlorophenol	ug/L	<0.50	<0.50	<0.50	0.50	7679989
2,3,5-Trichlorophenol	ug/L	<0.50	<0.50	<0.50	0.50	7679989
2,3,6-Trichlorophenol	ug/L	<0.50	<0.50	<0.50	0.50	7679989
2,4,5-Trichlorophenol	ug/L	<0.50	<0.50	<0.50	0.50	7679989
2,4,6-Trichlorophenol	ug/L	<0.50	<0.50	<0.50	0.50	7679989
3,4,5-Trichlorophenol	ug/L	<0.50	<0.50	<0.50	0.50	7679989
Benzyl butyl phthalate	ug/L	<0.50	<0.50	<0.50	0.50	7679989
Biphenyl	ug/L	<0.50	<0.50	<0.50	0.50	7679989
Bis(2-chloroethyl)ether	ug/L	<0.50	<0.50	<0.50	0.50	7679989
Bis(2-chloroethoxy)methane	ug/L	<0.50	<0.50	<0.50	0.50	7679989
Bis(2-chloroisopropyl)ether	ug/L	<0.50	<0.50	<0.50	0.50	7679989
Bis(2-ethylhexyl)phthalate	ug/L	<2.0	<2.0	<2.0	2.0	7679989
4-Bromophenyl phenyl ether	ug/L	<0.30	<0.30	<0.30	0.30	7679989
p-Chloroaniline	ug/L	<1.0	<1.0	<1.0	1.0	7679989
4-Chlorophenyl phenyl ether	ug/L	<0.50	<0.50	<0.50	0.50	7679989
Di-N-butyl phthalate	ug/L	<2.0	<2.0	<2.0	2.0	7679989
di-n-octyl phthalate	ug/L	<0.80	<0.80	<0.80	0.80	7679989
2,4-Dinitrotoluene	ug/L	<0.50	<0.50	<0.50	0.50	7679989
Diethyl phthalate	ug/L	<1.0	<1.0	<1.0	1.0	7679989
3,3'-Dichlorobenzidine	ug/L	<0.50	<0.50	<0.50	0.50	7679989
RDL = Reportable Detection Limit						
QC Batch = Quality Control Batch						



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Report Date: 2021/11/15

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

SEMI-VOLATILE ORGANICS BY GC-MS (WATER)

Bureau Veritas ID		RCT911	RCT912	RCT913		
Sampling Date		2021/10/29	2021/10/29	2021/10/29		
COC Number		847927-07-01	847927-07-01	847927-07-01		
	UNITS	47-I	47-IIR	47-III	RDL	QC Batch
Dimethyl phthalate	ug/L	<1.0	<1.0	<1.0	1.0	7679989
2,6-Dinitrotoluene	ug/L	<0.50	<0.50	<0.50	0.50	7679989
Diphenyl Ether	ug/L	<0.30	<0.30	<0.30	0.30	7679989
Hexachlorobutadiene	ug/L	<0.40	<0.40	<0.40	0.40	7679989
Hexachlorocyclopentadiene	ug/L	<2.0	<2.0	<2.0	2.0	7679989
Hexachloroethane	ug/L	<0.50	<0.50	<0.50	0.50	7679989
Isophorone	ug/L	<0.50	<0.50	<0.50	0.50	7679989
Nitrobenzene	ug/L	<0.50	<0.50	<0.50	0.50	7679989
Nitrosodiphenylamine/Diphenylamine	ug/L	<1.0	<1.0	<1.0	1.0	7679989
N-Nitroso-di-n-propylamine	ug/L	<0.50	<0.50	<0.50	0.50	7679989
Surrogate Recovery (%)						
2,4,6-Tribromophenol	%	76	70	81		7679989
2-Fluorobiphenyl	%	71	71	78		7679989
2-Fluorophenol	%	30	28	36		7679989
D14-Terphenyl	%	102	100	106		7679989
D5-Nitrobenzene	%	71	70	75		7679989
D5-Phenol	%	23	22	25		7679989
RDL = Reportable Detection Limit						
QC Batch = Quality Control Batch						



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Bureau Veritas Job #: C1W1739
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Terrapure Environmental
Client Project #: GW
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VOLATILE ORGANICS BY GC/MS (WATER)

Bureau Veritas ID		RCT911	RCT912	RCT912	RCT913		
Sampling Date		2021/10/29	2021/10/29	2021/10/29	2021/10/29		
COC Number		847927-07-01	847927-07-01	847927-07-01	847927-07-01		
	UNITS	47-I	47-IIR	47-IIR Lab-Dup	47-III	RDL	QC Batch
Volatile Organics							
Acetone (2-Propanone)	ug/L	<10	<10	<10	<10	10	7678438
Benzene	ug/L	<0.10	<0.10	<0.10	<0.10	0.10	7678438
Bromodichloromethane	ug/L	<0.10	<0.10	<0.10	<0.10	0.10	7678438
Acrolein	ug/L	<10	<10	<10	<10	10	7678429
Bromoform	ug/L	<0.20	<0.20	<0.20	<0.20	0.20	7678438
Bromomethane	ug/L	<0.50	<0.50	<0.50	<0.50	0.50	7678438
Carbon Tetrachloride	ug/L	<0.10	<0.10	<0.10	<0.10	0.10	7678438
Chlorobenzene	ug/L	<0.10	<0.10	<0.10	<0.10	0.10	7678438
Chloroethane	ug/L	<0.20	<0.20	<0.20	<0.20	0.20	7678438
Chloroform	ug/L	<0.10	<0.10	<0.10	<0.10	0.10	7678438
Acrylonitrile	ug/L	<5.0	<5.0	<5.0	<5.0	5.0	7678429
Chloromethane	ug/L	<0.50	<0.50	<0.50	<0.50	0.50	7678438
Dibromochloromethane	ug/L	<0.20	<0.20	<0.20	<0.20	0.20	7678438
1,2-Dichlorobenzene	ug/L	<0.20	<0.20	<0.20	<0.20	0.20	7678438
1,3-Dichlorobenzene	ug/L	<0.20	<0.20	<0.20	<0.20	0.20	7678438
1,4-Dichlorobenzene	ug/L	<0.20	<0.20	<0.20	<0.20	0.20	7678438
1,1-Dichloroethane	ug/L	<0.10	<0.10	<0.10	<0.10	0.10	7678438
1,2-Dichloroethane	ug/L	<0.20	<0.20	<0.20	<0.20	0.20	7678438
1,1-Dichloroethylene	ug/L	<0.10	<0.10	<0.10	<0.10	0.10	7678438
cis-1,2-Dichloroethylene	ug/L	<0.10	<0.10	<0.10	<0.10	0.10	7678438
trans-1,2-Dichloroethylene	ug/L	<0.10	<0.10	<0.10	<0.10	0.10	7678438
1,2-Dichloropropane	ug/L	<0.10	<0.10	<0.10	<0.10	0.10	7678438
cis-1,3-Dichloropropene	ug/L	<0.20	<0.20	<0.20	<0.20	0.20	7678438
trans-1,3-Dichloropropene	ug/L	<0.20	<0.20	<0.20	<0.20	0.20	7678438
Ethylbenzene	ug/L	<0.10	<0.10	<0.10	<0.10	0.10	7678438
Ethylene Dibromide	ug/L	<0.20	<0.20	<0.20	<0.20	0.20	7678438
Methylene Chloride(Dichloromethane)	ug/L	<0.50	<0.50	<0.50	<0.50	0.50	7678438
Methyl Ethyl Ketone (2-Butanone)	ug/L	<5.0	<5.0	<5.0	<5.0	5.0	7678438
Methyl Isobutyl Ketone	ug/L	<5.0	<5.0	<5.0	<5.0	5.0	7678438
Methyl t-butyl ether (MTBE)	ug/L	<0.20	<0.20	<0.20	<0.20	0.20	7678438
Styrene	ug/L	<0.20	<0.20	<0.20	<0.20	0.20	7678438
1,1,1,2-Tetrachloroethane	ug/L	<0.20	<0.20	<0.20	<0.20	0.20	7678438
1,1,2,2-Tetrachloroethane	ug/L	<0.20	<0.20	<0.20	<0.20	0.20	7678438
Tetrachloroethylene	ug/L	<0.10	<0.10	<0.10	<0.10	0.10	7678438
Toluene	ug/L	<0.20	<0.20	<0.20	<0.20	0.20	7678438
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate							



VOLATILE ORGANICS BY GC/MS (WATER)

Bureau Veritas ID		RCT911	RCT912	RCT912	RCT913		
Sampling Date		2021/10/29	2021/10/29	2021/10/29	2021/10/29		
COC Number		847927-07-01	847927-07-01	847927-07-01	847927-07-01		
	UNITS	47-I	47-IIR	47-IIR Lab-Dup	47-III	RDL	QC Batch
1,1,1-Trichloroethane	ug/L	<0.10	<0.10	<0.10	<0.10	0.10	7678438
1,1,2-Trichloroethane	ug/L	<0.20	<0.20	<0.20	<0.20	0.20	7678438
Trichloroethylene	ug/L	<0.10	<0.10	<0.10	<0.10	0.10	7678438
Trichlorofluoromethane (FREON 11)	ug/L	<0.20	<0.20	<0.20	<0.20	0.20	7678438
Vinyl Chloride	ug/L	<0.20	<0.20	<0.20	<0.20	0.20	7678438
p+m-Xylene	ug/L	<0.10	<0.10	<0.10	<0.10	0.10	7678438
Methyl Butyl Ketone (2-Hexanone)	ug/L	<5.0	<5.0	<5.0	<5.0	5.0	7678429
o-Xylene	ug/L	<0.10	<0.10	<0.10	<0.10	0.10	7678438
Total Xylenes	ug/L	<0.10	<0.10	<0.10	<0.10	0.10	7678438
Total Trihalomethanes	ug/L	<0.20	<0.20	<0.20	<0.20	0.20	7678438
Surrogate Recovery (%)							
4-Bromofluorobenzene	%	103	101	105	104		7678438
D4-1,2-Dichloroethane	%	110	109	110	106		7678438
D8-Toluene	%	96	94	95	97		7678438
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate							



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Bureau Veritas Job #: C1W1739
Report Date: 2021/11/15

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

O.REG 153 OC PESTICIDES (WATER)

Bureau Veritas ID		RCT911	RCT912	RCT913		
Sampling Date		2021/10/29	2021/10/29	2021/10/29		
COC Number		847927-07-01	847927-07-01	847927-07-01		
	UNITS	47-I	47-IIR	47-III	RDL	QC Batch
Calculated Parameters						
Chlordane (Total)	ug/L	<0.005	<0.005	<0.005	0.005	7674895
o,p-DDD + p,p-DDD	ug/L	<0.005	<0.005	<0.005	0.005	7674895
o,p-DDE + p,p-DDE	ug/L	<0.005	<0.005	<0.005	0.005	7674895
o,p-DDT + p,p-DDT	ug/L	<0.005	<0.005	<0.005	0.005	7674895
Total Endosulfan	ug/L	<0.005	<0.005	<0.005	0.005	7674895
Total PCB	ug/L	<0.05	<0.05	<0.05	0.05	7674895
Pesticides & Herbicides						
Aldrin	ug/L	<0.005	<0.005	<0.005	0.005	7687640
Dieldrin	ug/L	<0.005	<0.005	<0.005	0.005	7687640
a-Chlordane	ug/L	<0.005	<0.005	<0.005	0.005	7687640
g-Chlordane	ug/L	<0.005	<0.005	<0.005	0.005	7687640
o,p-DDD	ug/L	<0.005	<0.005	<0.005	0.005	7687640
p,p-DDD	ug/L	<0.005	<0.005	<0.005	0.005	7687640
o,p-DDE	ug/L	<0.005	<0.005	<0.005	0.005	7687640
p,p-DDE	ug/L	<0.005	<0.005	<0.005	0.005	7687640
o,p-DDT	ug/L	<0.005	<0.005	<0.005	0.005	7687640
p,p-DDT	ug/L	<0.005	<0.005	<0.005	0.005	7687640
Lindane	ug/L	<0.003	<0.003	<0.003	0.003	7687640
Endosulfan I (alpha)	ug/L	<0.005	<0.005	<0.005	0.005	7687640
Endosulfan II (beta)	ug/L	<0.005	<0.005	<0.005	0.005	7687640
Endrin	ug/L	<0.005	<0.005	<0.005	0.005	7687640
Heptachlor	ug/L	<0.005	<0.005	<0.005	0.005	7687640
Heptachlor epoxide	ug/L	<0.005	<0.005	<0.005	0.005	7687640
Hexachlorobenzene	ug/L	<0.005	<0.005	<0.005	0.005	7687640
Hexachlorobutadiene	ug/L	<0.009	<0.009	<0.009	0.009	7687640
Hexachloroethane	ug/L	<0.01	<0.01	<0.01	0.01	7687640
Methoxychlor	ug/L	<0.01	<0.01	<0.01	0.01	7687640
Aroclor 1242	ug/L	<0.05	<0.05	<0.05	0.05	7687640
Aroclor 1248	ug/L	<0.05	<0.05	<0.05	0.05	7687640
Aroclor 1254	ug/L	<0.05	<0.05	<0.05	0.05	7687640
Aroclor 1260	ug/L	<0.05	<0.05	<0.05	0.05	7687640
alpha-BHC	ug/L	<0.005	<0.005	<0.005	0.005	7687640
beta-BHC	ug/L	<0.005	<0.005	<0.005	0.005	7687640
Endrin aldehyde	ug/L	<0.005	<0.005	<0.005	0.005	7687640
Endrin ketone	ug/L	<0.005	<0.005	<0.005	0.005	7687640
Mirex	ug/L	<0.005	<0.005	<0.005	0.005	7687640
RDL = Reportable Detection Limit QC Batch = Quality Control Batch						



O.REG 153 OC PESTICIDES (WATER)

Bureau Veritas ID		RCT911	RCT912	RCT913		
Sampling Date		2021/10/29	2021/10/29	2021/10/29		
COC Number		847927-07-01	847927-07-01	847927-07-01		
	UNITS	47-I	47-IIR	47-III	RDL	QC Batch
Toxaphene	ug/L	<0.2	<0.2	<0.2	0.2	7687640
Surrogate Recovery (%)						
2,4,5,6-Tetrachloro-m-xylene	%	54	55	53		7687640
Decachlorobiphenyl	%	90	87	88		7687640
RDL = Reportable Detection Limit QC Batch = Quality Control Batch						



BUREAU
VERITAS

Bureau Veritas Job #: C1W1739
Report Date: 2021/11/15

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

TEST SUMMARY

Bureau Veritas ID: RCT885
Sample ID: 30-I
Matrix: Water

Collected: 2021/11/01
Shipped:
Received: 2021/11/02

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7679256	N/A	2021/11/05	Surinder Rai
Anions	IC	7681454	N/A	2021/11/05	Fari Dehdezi
Conductivity	AT	7679257	N/A	2021/11/05	Surinder Rai
Fluoride	ISE	7679251	2021/11/03	2021/11/05	Surinder Rai
Hardness (calculated as CaCO3)		7674757	N/A	2021/11/10	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7679932	N/A	2021/11/09	Arefa Dabhad
Total Ammonia-N	LACH/NH4	7684520	N/A	2021/11/07	Amanpreet Sappal
Nitrate & Nitrite as Nitrogen in Water	LACH	7679136	N/A	2021/11/06	Nimarta Singh
pH	AT	7679254	2021/11/03	2021/11/05	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7677083	N/A	2021/11/03	Deonarine Ramnarine
Orthophosphate	KONE	7679162	N/A	2021/11/04	Avneet Kour Sudan
Total Dissolved Solids	BAL	7680740	2021/11/04	2021/11/05	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7683479	2021/11/05	2021/11/08	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7683451	N/A	2021/11/05	Julianna Castiglione

Bureau Veritas ID: RCT886
Sample ID: 30-II
Matrix: Water

Collected: 2021/11/01
Shipped:
Received: 2021/11/02

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7679185	N/A	2021/11/05	Surinder Rai
Anions	IC	7679121	N/A	2021/11/09	Fari Dehdezi
Conductivity	AT	7679186	N/A	2021/11/05	Surinder Rai
Fluoride	ISE	7679182	2021/11/03	2021/11/05	Surinder Rai
Hardness (calculated as CaCO3)		7674757	N/A	2021/11/10	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7679945	N/A	2021/11/08	Azita Fazaeli
Total Ammonia-N	LACH/NH4	7684531	N/A	2021/11/07	Amanpreet Sappal
Nitrate & Nitrite as Nitrogen in Water	LACH	7679113	N/A	2021/11/06	Nimarta Singh
pH	AT	7679191	2021/11/03	2021/11/05	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7677083	N/A	2021/11/03	Deonarine Ramnarine
Orthophosphate	KONE	7679162	N/A	2021/11/04	Avneet Kour Sudan
Total Dissolved Solids	BAL	7680740	2021/11/04	2021/11/05	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7683476	2021/11/05	2021/11/08	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7683449	N/A	2021/11/06	Julianna Castiglione

Bureau Veritas ID: RCT887
Sample ID: ST1
Matrix: Water

Collected: 2021/11/01
Shipped:
Received: 2021/11/02

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7679256	N/A	2021/11/05	Surinder Rai
Anions	IC	7679230	N/A	2021/11/04	Fari Dehdezi
Conductivity	AT	7679257	N/A	2021/11/05	Surinder Rai
Fluoride	ISE	7679251	2021/11/03	2021/11/05	Surinder Rai
Hardness (calculated as CaCO3)		7674757	N/A	2021/11/10	Automated Statchk



BUREAU
VERITAS

Bureau Veritas Job #: C1W1739
Report Date: 2021/11/15

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

TEST SUMMARY

Bureau Veritas ID: RCT887
Sample ID: ST1
Matrix: Water

Collected: 2021/11/01
Shipped:
Received: 2021/11/02

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dissolved Metals by ICPMS	ICP/MS	7679932	N/A	2021/11/09	Arefa Dabhad
Total Ammonia-N	LACH/NH4	7684531	N/A	2021/11/07	Amanpreet Sappal
Nitrate & Nitrite as Nitrogen in Water	LACH	7679249	N/A	2021/11/04	Chandra Nandlal
pH	AT	7679254	2021/11/03	2021/11/05	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7677508	N/A	2021/11/03	Deonarine Ramnarine
Orthophosphate	KONE	7679162	N/A	2021/11/04	Avneet Kour Sudan
Total Dissolved Solids	BAL	7680732	2021/11/04	2021/11/05	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7683476	2021/11/05	2021/11/09	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7683449	N/A	2021/11/06	Julianna Castiglione

Bureau Veritas ID: RCT887 Dup
Sample ID: ST1
Matrix: Water

Collected: 2021/11/01
Shipped:
Received: 2021/11/02

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Dissolved Solids	BAL	7680732	2021/11/04	2021/11/05	Shaneil Hall

Bureau Veritas ID: RCT888
Sample ID: ST 2
Matrix: Water

Collected: 2021/11/01
Shipped:
Received: 2021/11/02

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7679271	N/A	2021/11/04	Surinder Rai
Anions	IC	7679230	N/A	2021/11/04	Fari Dehdezi
Conductivity	AT	7679273	N/A	2021/11/04	Surinder Rai
Fluoride	ISE	7679258	2021/11/03	2021/11/04	Surinder Rai
Hardness (calculated as CaCO3)		7674757	N/A	2021/11/10	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7679945	N/A	2021/11/09	Azita Fazaeli
Total Ammonia-N	LACH/NH4	7684520	N/A	2021/11/07	Amanpreet Sappal
Nitrate & Nitrite as Nitrogen in Water	LACH	7679136	N/A	2021/11/06	Nimarta Singh
pH	AT	7679276	2021/11/03	2021/11/04	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7677083	N/A	2021/11/03	Deonarine Ramnarine
Orthophosphate	KONE	7679162	N/A	2021/11/04	Avneet Kour Sudan
Total Dissolved Solids	BAL	7680740	2021/11/04	2021/11/05	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7683479	2021/11/05	2021/11/08	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7683451	N/A	2021/11/05	Julianna Castiglione

Bureau Veritas ID: RCT888 Dup
Sample ID: ST 2
Matrix: Water

Collected: 2021/11/01
Shipped:
Received: 2021/11/02

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7679271	N/A	2021/11/04	Surinder Rai
Conductivity	AT	7679273	N/A	2021/11/04	Surinder Rai
Fluoride	ISE	7679258	2021/11/03	2021/11/04	Surinder Rai



BUREAU
VERITAS

Bureau Veritas Job #: C1W1739
Report Date: 2021/11/15

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

TEST SUMMARY

Bureau Veritas ID: RCT888 Dup
Sample ID: ST 2
Matrix: Water

Collected: 2021/11/01
Shipped:
Received: 2021/11/02

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
pH	AT	7679276	2021/11/03	2021/11/04	Surinder Rai

Bureau Veritas ID: RCT889
Sample ID: 42-I
Matrix: Water

Collected: 2021/11/01
Shipped:
Received: 2021/11/02

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7679185	N/A	2021/11/05	Surinder Rai
Anions	IC	7679121	N/A	2021/11/09	Fari Dehdezi
Conductivity	AT	7679186	N/A	2021/11/05	Surinder Rai
Fluoride	ISE	7679182	2021/11/03	2021/11/05	Surinder Rai
Hardness (calculated as CaCO3)		7674757	N/A	2021/11/10	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7679932	N/A	2021/11/10	Arefa Dabhad
Total Ammonia-N	LACH/NH4	7684520	N/A	2021/11/07	Amanpreet Sappal
Nitrate & Nitrite as Nitrogen in Water	LACH	7679113	N/A	2021/11/06	Nimarta Singh
pH	AT	7679191	2021/11/03	2021/11/05	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7677083	N/A	2021/11/03	Deonarine Ramnarine
Orthophosphate	KONE	7679156	N/A	2021/11/04	Avneet Kour Sudan
Total Dissolved Solids	BAL	7681520	2021/11/04	2021/11/05	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7683479	2021/11/05	2021/11/05	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7683451	N/A	2021/11/05	Julianna Castiglione

Bureau Veritas ID: RCT889 Dup
Sample ID: 42-I
Matrix: Water

Collected: 2021/11/01
Shipped:
Received: 2021/11/02

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Orthophosphate	KONE	7679156	N/A	2021/11/04	Avneet Kour Sudan

Bureau Veritas ID: RCT890
Sample ID: 42-II
Matrix: Water

Collected: 2021/11/01
Shipped:
Received: 2021/11/02

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7679185	N/A	2021/11/05	Surinder Rai
Anions	IC	7679121	N/A	2021/11/09	Fari Dehdezi
Conductivity	AT	7679186	N/A	2021/11/05	Surinder Rai
Fluoride	ISE	7679182	2021/11/03	2021/11/05	Surinder Rai
Hardness (calculated as CaCO3)		7674757	N/A	2021/11/10	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7679945	N/A	2021/11/08	Azita Fazaali
Total Ammonia-N	LACH/NH4	7684520	N/A	2021/11/07	Amanpreet Sappal
Nitrate & Nitrite as Nitrogen in Water	LACH	7679113	N/A	2021/11/06	Nimarta Singh
pH	AT	7679191	2021/11/03	2021/11/05	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7677508	N/A	2021/11/03	Deonarine Ramnarine
Orthophosphate	KONE	7679156	N/A	2021/11/04	Avneet Kour Sudan



BUREAU
VERITAS

Bureau Veritas Job #: C1W1739
Report Date: 2021/11/15

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

TEST SUMMARY

Bureau Veritas ID: RCT890
Sample ID: 42-II
Matrix: Water

Collected: 2021/11/01
Shipped:
Received: 2021/11/02

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Dissolved Solids	BAL	7681520	2021/11/04	2021/11/05	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7683476	2021/11/05	2021/11/08	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7683449	N/A	2021/11/05	Julianna Castiglione

Bureau Veritas ID: RCT891
Sample ID: 42 -III
Matrix: Water

Collected: 2021/11/01
Shipped:
Received: 2021/11/02

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7679185	N/A	2021/11/05	Surinder Rai
Anions	IC	7679121	N/A	2021/11/09	Fari Dehdezi
Conductivity	AT	7679186	N/A	2021/11/05	Surinder Rai
Fluoride	ISE	7679182	2021/11/03	2021/11/05	Surinder Rai
Hardness (calculated as CaCO3)		7674757	N/A	2021/11/10	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7696463	N/A	2021/11/12	Azita Fazaeli
Total Ammonia-N	LACH/NH4	7684531	N/A	2021/11/07	Amanpreet Sappal
Nitrate & Nitrite as Nitrogen in Water	LACH	7679113	N/A	2021/11/06	Nimarta Singh
pH	AT	7679191	2021/11/03	2021/11/05	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7677083	N/A	2021/11/03	Deonarine Ramnarine
Orthophosphate	KONE	7679156	N/A	2021/11/04	Avneet Kour Sudan
Total Dissolved Solids	BAL	7680740	2021/11/04	2021/11/05	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7683479	2021/11/05	2021/11/08	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7683451	N/A	2021/11/05	Julianna Castiglione

Bureau Veritas ID: RCT891 Dup
Sample ID: 42 -III
Matrix: Water

Collected: 2021/11/01
Shipped:
Received: 2021/11/02

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Anions	IC	7679121	N/A	2021/11/09	Fari Dehdezi
Dissolved Metals by ICPMS	ICP/MS	7696463	N/A	2021/11/12	Azita Fazaeli
Total Ammonia-N	LACH/NH4	7684531	N/A	2021/11/07	Amanpreet Sappal

Bureau Veritas ID: RCT892
Sample ID: 36-IIIR
Matrix: Water

Collected: 2021/11/01
Shipped:
Received: 2021/11/02

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7679256	N/A	2021/11/05	Surinder Rai
Anions	IC	7679121	N/A	2021/11/09	Fari Dehdezi
Conductivity	AT	7679257	N/A	2021/11/05	Surinder Rai
Fluoride	ISE	7679251	2021/11/03	2021/11/05	Surinder Rai
Hardness (calculated as CaCO3)		7674757	N/A	2021/11/10	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7679945	N/A	2021/11/09	Azita Fazaeli
Total Ammonia-N	LACH/NH4	7684520	N/A	2021/11/07	Amanpreet Sappal



BUREAU
VERITAS

Bureau Veritas Job #: C1W1739
Report Date: 2021/11/15

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

TEST SUMMARY

Bureau Veritas ID: RCT892
Sample ID: 36-IIIR
Matrix: Water

Collected: 2021/11/01
Shipped:
Received: 2021/11/02

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Nitrate & Nitrite as Nitrogen in Water	LACH	7679113	N/A	2021/11/06	Nimarta Singh
pH	AT	7679254	2021/11/03	2021/11/05	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7677508	N/A	2021/11/03	Deonarine Ramnarine
Orthophosphate	KONE	7679156	N/A	2021/11/04	Avneet Kour Sudan
Total Dissolved Solids	BAL	7680740	2021/11/04	2021/11/05	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7683476	2021/11/05	2021/11/08	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7683449	N/A	2021/11/06	Julianna Castiglione

Bureau Veritas ID: RCT893
Sample ID: P6-IR
Matrix: Water

Collected: 2021/11/01
Shipped:
Received: 2021/11/02

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7679256	N/A	2021/11/05	Surinder Rai
Anions	IC	7679121	N/A	2021/11/09	Fari Dehdezi
Conductivity	AT	7679257	N/A	2021/11/05	Surinder Rai
Fluoride	ISE	7679251	2021/11/03	2021/11/05	Surinder Rai
Hardness (calculated as CaCO3)		7676640	N/A	2021/11/10	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7679932	N/A	2021/11/09	Arefa Dabhad
Total Ammonia-N	LACH/NH4	7684520	N/A	2021/11/07	Amanpreet Sappal
Nitrate & Nitrite as Nitrogen in Water	LACH	7679113	N/A	2021/11/06	Nimarta Singh
pH	AT	7679254	2021/11/03	2021/11/05	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7677508	N/A	2021/11/03	Deonarine Ramnarine
Orthophosphate	KONE	7679156	N/A	2021/11/04	Avneet Kour Sudan
Total Dissolved Solids	BAL	7680740	2021/11/04	2021/11/05	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7683479	2021/11/05	2021/11/08	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7683451	N/A	2021/11/05	Julianna Castiglione

Bureau Veritas ID: RCT894
Sample ID: 3-II
Matrix: Water

Collected: 2021/10/29
Shipped:
Received: 2021/11/02

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7679185	N/A	2021/11/05	Surinder Rai
Anions	IC	7679130	N/A	2021/11/08	Fari Dehdezi
Conductivity	AT	7679186	N/A	2021/11/05	Surinder Rai
Fluoride	ISE	7679182	2021/11/03	2021/11/05	Surinder Rai
Hardness (calculated as CaCO3)		7676640	N/A	2021/11/10	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7679945	N/A	2021/11/08	Azita Fazaali
Total Ammonia-N	LACH/NH4	7684520	N/A	2021/11/07	Amanpreet Sappal
Nitrate & Nitrite as Nitrogen in Water	LACH	7679136	N/A	2021/11/06	Nimarta Singh
pH	AT	7679191	2021/11/03	2021/11/05	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7677508	N/A	2021/11/03	Deonarine Ramnarine
Orthophosphate	KONE	7679156	N/A	2021/11/04	Avneet Kour Sudan
Total Dissolved Solids	BAL	7681520	2021/11/04	2021/11/05	Shaneil Hall



BUREAU
VERITAS

Bureau Veritas Job #: C1W1739
Report Date: 2021/11/15

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

TEST SUMMARY

Bureau Veritas ID: RCT894
Sample ID: 3-II
Matrix: Water

Collected: 2021/10/29
Shipped:
Received: 2021/11/02

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Kjeldahl Nitrogen in Water	SKAL	7683476	2021/11/05	2021/11/09	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7683449	N/A	2021/11/06	Julianna Castiglione

Bureau Veritas ID: RCT894 Dup
Sample ID: 3-II
Matrix: Water

Collected: 2021/10/29
Shipped:
Received: 2021/11/02

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7679185	N/A	2021/11/05	Surinder Rai
Conductivity	AT	7679186	N/A	2021/11/05	Surinder Rai
Fluoride	ISE	7679182	2021/11/03	2021/11/05	Surinder Rai
pH	AT	7679191	2021/11/03	2021/11/05	Surinder Rai

Bureau Veritas ID: RCT895
Sample ID: 60-I
Matrix: Water

Collected: 2021/10/29
Shipped:
Received: 2021/11/02

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7679256	N/A	2021/11/05	Surinder Rai
Anions	IC	7679230	N/A	2021/11/04	Fari Dehdezi
Conductivity	AT	7679257	N/A	2021/11/05	Surinder Rai
Fluoride	ISE	7679251	2021/11/03	2021/11/05	Surinder Rai
Hardness (calculated as CaCO ₃)		7676640	N/A	2021/11/10	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7679945	N/A	2021/11/09	Azita Fazaeli
Total Ammonia-N	LACH/NH ₄	7684520	N/A	2021/11/07	Amanpreet Sappal
Nitrate & Nitrite as Nitrogen in Water	LACH	7679136	N/A	2021/11/06	Nimarta Singh
pH	AT	7679254	2021/11/03	2021/11/05	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7677083	N/A	2021/11/03	Deonarine Ramnarine
Orthophosphate	KONE	7679162	N/A	2021/11/04	Avneet Kour Sudan
Total Dissolved Solids	BAL	7680740	2021/11/04	2021/11/05	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7683479	2021/11/05	2021/11/08	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7683451	N/A	2021/11/05	Julianna Castiglione

Bureau Veritas ID: RCT896
Sample ID: 60-II
Matrix: Water

Collected: 2021/10/29
Shipped:
Received: 2021/11/02

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7679185	N/A	2021/11/05	Surinder Rai
Anions	IC	7679121	N/A	2021/11/09	Fari Dehdezi
Conductivity	AT	7679186	N/A	2021/11/05	Surinder Rai
Fluoride	ISE	7679182	2021/11/03	2021/11/05	Surinder Rai
Hardness (calculated as CaCO ₃)		7676640	N/A	2021/11/10	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7679932	N/A	2021/11/09	Arefa Dabhad
Total Ammonia-N	LACH/NH ₄	7684520	N/A	2021/11/07	Amanpreet Sappal



BUREAU
VERITAS

Bureau Veritas Job #: C1W1739
Report Date: 2021/11/15

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

TEST SUMMARY

Bureau Veritas ID: RCT896
Sample ID: 60-II
Matrix: Water

Collected: 2021/10/29
Shipped:
Received: 2021/11/02

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Nitrate & Nitrite as Nitrogen in Water	LACH	7679113	N/A	2021/11/06	Nimarta Singh
pH	AT	7679191	2021/11/03	2021/11/05	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7677508	N/A	2021/11/03	Deonarine Ramnarine
Orthophosphate	KONE	7679156	N/A	2021/11/04	Avneet Kour Sudan
Total Dissolved Solids	BAL	7680740	2021/11/04	2021/11/05	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7683479	2021/11/05	2021/11/05	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7683451	N/A	2021/11/05	Julianna Castiglione

Bureau Veritas ID: RCT896 Dup
Sample ID: 60-II
Matrix: Water

Collected: 2021/10/29
Shipped:
Received: 2021/11/02

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Kjeldahl Nitrogen in Water	SKAL	7683479	2021/11/05	2021/11/05	Massarat Jan

Bureau Veritas ID: RCT897
Sample ID: 60-III
Matrix: Water

Collected: 2021/10/29
Shipped:
Received: 2021/11/02

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7679185	N/A	2021/11/05	Surinder Rai
Anions	IC	7679121	N/A	2021/11/09	Fari Dehdezi
Conductivity	AT	7679186	N/A	2021/11/05	Surinder Rai
Fluoride	ISE	7679182	2021/11/03	2021/11/05	Surinder Rai
Hardness (calculated as CaCO3)		7676640	N/A	2021/11/10	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7679945	N/A	2021/11/08	Azita Fazaeli
Total Ammonia-N	LACH/NH4	7684520	N/A	2021/11/07	Amanpreet Sappal
Nitrate & Nitrite as Nitrogen in Water	LACH	7679113	N/A	2021/11/06	Nimarta Singh
pH	AT	7679191	2021/11/03	2021/11/05	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7677083	N/A	2021/11/03	Deonarine Ramnarine
Orthophosphate	KONE	7679156	N/A	2021/11/04	Avneet Kour Sudan
Total Dissolved Solids	BAL	7680740	2021/11/04	2021/11/05	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7683479	2021/11/05	2021/11/08	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7683451	N/A	2021/11/05	Julianna Castiglione

Bureau Veritas ID: RCT897 Dup
Sample ID: 60-III
Matrix: Water

Collected: 2021/10/29
Shipped:
Received: 2021/11/02

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dissolved Metals by ICPMS	ICP/MS	7679945	N/A	2021/11/08	Azita Fazaeli



BUREAU
VERITAS

Bureau Veritas Job #: C1W1739
Report Date: 2021/11/15

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

TEST SUMMARY

Bureau Veritas ID: RCT898
Sample ID: 60-IV
Matrix: Water

Collected: 2021/10/29
Shipped:
Received: 2021/11/02

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7679185	N/A	2021/11/05	Surinder Rai
Anions	IC	7679130	N/A	2021/11/08	Fari Dehdezi
Conductivity	AT	7679186	N/A	2021/11/05	Surinder Rai
Fluoride	ISE	7679182	2021/11/03	2021/11/05	Surinder Rai
Hardness (calculated as CaCO3)		7676640	N/A	2021/11/10	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7679945	N/A	2021/11/09	Azita Fazaeli
Total Ammonia-N	LACH/NH4	7684520	N/A	2021/11/07	Amanpreet Sappal
Nitrate & Nitrite as Nitrogen in Water	LACH	7679136	N/A	2021/11/06	Nimarta Singh
pH	AT	7679191	2021/11/03	2021/11/05	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7677617	N/A	2021/11/03	Deonarine Ramnarine
Orthophosphate	KONE	7679156	N/A	2021/11/04	Avneet Kour Sudan
Total Dissolved Solids	BAL	7680740	2021/11/04	2021/11/05	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7683476	2021/11/05	2021/11/09	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7683449	N/A	2021/11/06	Julianna Castiglione

Bureau Veritas ID: RCT899
Sample ID: 61-I
Matrix: Water

Collected: 2021/10/29
Shipped:
Received: 2021/11/02

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7679185	N/A	2021/11/05	Surinder Rai
Anions	IC	7679121	N/A	2021/11/09	Fari Dehdezi
Conductivity	AT	7679186	N/A	2021/11/05	Surinder Rai
Fluoride	ISE	7679182	2021/11/03	2021/11/05	Surinder Rai
Hardness (calculated as CaCO3)		7676640	N/A	2021/11/10	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7679945	N/A	2021/11/09	Azita Fazaeli
Total Ammonia-N	LACH/NH4	7684520	N/A	2021/11/07	Amanpreet Sappal
Nitrate & Nitrite as Nitrogen in Water	LACH	7679113	N/A	2021/11/06	Nimarta Singh
pH	AT	7679191	2021/11/03	2021/11/05	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7677617	N/A	2021/11/03	Deonarine Ramnarine
Orthophosphate	KONE	7679156	N/A	2021/11/04	Avneet Kour Sudan
Total Dissolved Solids	BAL	7680740	2021/11/04	2021/11/05	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7683476	2021/11/05	2021/11/09	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7683449	N/A	2021/11/06	Julianna Castiglione

Bureau Veritas ID: RCT899 Dup
Sample ID: 61-I
Matrix: Water

Collected: 2021/10/29
Shipped:
Received: 2021/11/02

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Dissolved Solids	BAL	7680740	2021/11/04	2021/11/05	Shaneil Hall



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VERITAS

Bureau Veritas Job #: C1W1739
Report Date: 2021/11/15

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

TEST SUMMARY

Bureau Veritas ID: RCT900
Sample ID: 61-II
Matrix: Water

Collected: 2021/11/01
Shipped:
Received: 2021/11/02

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7679185	N/A	2021/11/05	Surinder Rai
Anions	IC	7679121	N/A	2021/11/09	Fari Dehdezi
Conductivity	AT	7679186	N/A	2021/11/05	Surinder Rai
Fluoride	ISE	7679182	2021/11/03	2021/11/05	Surinder Rai
Hardness (calculated as CaCO3)		7676640	N/A	2021/11/10	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7679945	N/A	2021/11/09	Azita Fazaeli
Total Ammonia-N	LACH/NH4	7684520	N/A	2021/11/07	Amanpreet Sappal
Nitrate & Nitrite as Nitrogen in Water	LACH	7679113	N/A	2021/11/06	Nimarta Singh
pH	AT	7679191	2021/11/03	2021/11/05	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7677617	N/A	2021/11/03	Deonarine Ramnarine
Orthophosphate	KONE	7679156	N/A	2021/11/04	Avneet Kour Sudan
Total Dissolved Solids	BAL	7681520	2021/11/04	2021/11/05	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7683476	2021/11/05	2021/11/09	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7683449	N/A	2021/11/06	Julianna Castiglione

Bureau Veritas ID: RCT900 Dup
Sample ID: 61-II
Matrix: Water

Collected: 2021/11/01
Shipped:
Received: 2021/11/02

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Dissolved Solids	BAL	7681520	2021/11/04	2021/11/05	Shaneil Hall

Bureau Veritas ID: RCT901
Sample ID: 61-III
Matrix: Water

Collected: 2021/10/29
Shipped:
Received: 2021/11/02

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7679185	N/A	2021/11/05	Surinder Rai
Anions	IC	7679130	N/A	2021/11/08	Fari Dehdezi
Conductivity	AT	7679186	N/A	2021/11/05	Surinder Rai
Fluoride	ISE	7679182	2021/11/03	2021/11/05	Surinder Rai
Hardness (calculated as CaCO3)		7676640	N/A	2021/11/10	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7679945	N/A	2021/11/09	Azita Fazaeli
Total Ammonia-N	LACH/NH4	7684531	N/A	2021/11/07	Amanpreet Sappal
Nitrate & Nitrite as Nitrogen in Water	LACH	7679136	N/A	2021/11/06	Nimarta Singh
pH	AT	7679191	2021/11/03	2021/11/05	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7677508	N/A	2021/11/03	Deonarine Ramnarine
Orthophosphate	KONE	7679156	N/A	2021/11/04	Avneet Kour Sudan
Total Dissolved Solids	BAL	7681520	2021/11/04	2021/11/05	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7683476	2021/11/05	2021/11/09	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7683449	N/A	2021/11/06	Julianna Castiglione



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VERITAS

Bureau Veritas Job #: C1W1739
Report Date: 2021/11/15

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

TEST SUMMARY

Bureau Veritas ID: RCT902
Sample ID: 40-II
Matrix: Water

Collected: 2021/10/29
Shipped:
Received: 2021/11/02

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7679256	N/A	2021/11/05	Surinder Rai
Anions	IC	7679230	N/A	2021/11/04	Fari Dehdezi
Conductivity	AT	7679257	N/A	2021/11/05	Surinder Rai
Fluoride	ISE	7679251	2021/11/03	2021/11/05	Surinder Rai
Hardness (calculated as CaCO3)		7676640	N/A	2021/11/10	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7679932	N/A	2021/11/09	Arefa Dabhad
Total Ammonia-N	LACH/NH4	7684531	N/A	2021/11/07	Amanpreet Sappal
Nitrate & Nitrite as Nitrogen in Water	LACH	7679136	N/A	2021/11/06	Nimarta Singh
pH	AT	7679254	2021/11/03	2021/11/05	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7677508	N/A	2021/11/03	Deonarine Ramnarine
Orthophosphate	KONE	7679162	N/A	2021/11/04	Avneet Kour Sudan
Total Dissolved Solids	BAL	7680740	2021/11/04	2021/11/05	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7683476	2021/11/05	2021/11/09	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7683449	N/A	2021/11/06	Julianna Castiglione

Bureau Veritas ID: RCT903
Sample ID: 40-III
Matrix: Water

Collected: 2021/10/29
Shipped:
Received: 2021/11/02

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7679185	N/A	2021/11/05	Surinder Rai
Anions	IC	7679121	N/A	2021/11/09	Fari Dehdezi
Conductivity	AT	7679186	N/A	2021/11/05	Surinder Rai
Fluoride	ISE	7679182	2021/11/03	2021/11/05	Surinder Rai
Hardness (calculated as CaCO3)		7676640	N/A	2021/11/10	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7679945	N/A	2021/11/08	Azita Fazaeli
Total Ammonia-N	LACH/NH4	7684531	N/A	2021/11/07	Amanpreet Sappal
Nitrate & Nitrite as Nitrogen in Water	LACH	7679113	N/A	2021/11/06	Nimarta Singh
pH	AT	7679191	2021/11/03	2021/11/05	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7677083	N/A	2021/11/03	Deonarine Ramnarine
Orthophosphate	KONE	7679156	N/A	2021/11/04	Avneet Kour Sudan
Total Dissolved Solids	BAL	7681520	2021/11/04	2021/11/05	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7683479	2021/11/05	2021/11/08	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7683451	N/A	2021/11/05	Julianna Castiglione

Bureau Veritas ID: RCT904
Sample ID: 11-II
Matrix: Water

Collected: 2021/10/29
Shipped:
Received: 2021/11/02

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7679256	N/A	2021/11/05	Surinder Rai
Anions	IC	7679121	N/A	2021/11/09	Fari Dehdezi
Conductivity	AT	7679257	N/A	2021/11/05	Surinder Rai
Fluoride	ISE	7679251	2021/11/03	2021/11/05	Surinder Rai
Hardness (calculated as CaCO3)		7676640	N/A	2021/11/10	Automated Statchk



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VERITAS

Bureau Veritas Job #: C1W1739
Report Date: 2021/11/15

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

TEST SUMMARY

Bureau Veritas ID: RCT904
Sample ID: 11-II
Matrix: Water

Collected: 2021/10/29
Shipped:
Received: 2021/11/02

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dissolved Metals by ICPMS	ICP/MS	7679945	N/A	2021/11/08	Azita Fazaeli
Total Ammonia-N	LACH/NH4	7684531	N/A	2021/11/07	Amanpreet Sappal
Nitrate & Nitrite as Nitrogen in Water	LACH	7679113	N/A	2021/11/06	Nimarta Singh
pH	AT	7679254	2021/11/03	2021/11/05	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7677508	N/A	2021/11/03	Deonarine Ramnarine
Orthophosphate	KONE	7679162	N/A	2021/11/04	Avneet Kour Sudan
Total Dissolved Solids	BAL	7681520	2021/11/04	2021/11/05	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7683476	2021/11/05	2021/11/08	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7683449	N/A	2021/11/06	Julianna Castiglione

Bureau Veritas ID: RCT904 Dup
Sample ID: 11-II
Matrix: Water

Collected: 2021/10/29
Shipped:
Received: 2021/11/02

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7679256	N/A	2021/11/05	Surinder Rai
Conductivity	AT	7679257	N/A	2021/11/05	Surinder Rai
Fluoride	ISE	7679251	2021/11/03	2021/11/05	Surinder Rai
pH	AT	7679254	2021/11/03	2021/11/05	Surinder Rai

Bureau Veritas ID: RCT905
Sample ID: 11-III
Matrix: Water

Collected: 2021/11/01
Shipped:
Received: 2021/11/02

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7679185	N/A	2021/11/05	Surinder Rai
Anions	IC	7679121	N/A	2021/11/09	Fari Dehdezi
Conductivity	AT	7679186	N/A	2021/11/05	Surinder Rai
Fluoride	ISE	7679182	2021/11/03	2021/11/05	Surinder Rai
Hardness (calculated as CaCO3)		7676640	N/A	2021/11/10	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7679932	N/A	2021/11/10	Arefa Dabhad
Total Ammonia-N	LACH/NH4	7684531	N/A	2021/11/07	Amanpreet Sappal
Nitrate & Nitrite as Nitrogen in Water	LACH	7679113	N/A	2021/11/06	Nimarta Singh
pH	AT	7679191	2021/11/03	2021/11/05	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7677508	N/A	2021/11/03	Deonarine Ramnarine
Orthophosphate	KONE	7679156	N/A	2021/11/04	Avneet Kour Sudan
Total Dissolved Solids	BAL	7680740	2021/11/04	2021/11/05	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7683476	2021/11/05	2021/11/09	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7683449	N/A	2021/11/05	Julianna Castiglione



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VERITAS

Bureau Veritas Job #: C1W1739
Report Date: 2021/11/15

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

TEST SUMMARY

Bureau Veritas ID: RCT906
Sample ID: 48-I
Matrix: Water

Collected: 2021/10/29
Shipped:
Received: 2021/11/02

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7679185	N/A	2021/11/05	Surinder Rai
Anions	IC	7679121	N/A	2021/11/09	Fari Dehdezi
Conductivity	AT	7679186	N/A	2021/11/05	Surinder Rai
Fluoride	ISE	7679182	2021/11/03	2021/11/05	Surinder Rai
Hardness (calculated as CaCO3)		7676640	N/A	2021/11/10	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7679945	N/A	2021/11/09	Azita Fazaeli
Total Ammonia-N	LACH/NH4	7684520	N/A	2021/11/07	Amanpreet Sappal
Nitrate & Nitrite as Nitrogen in Water	LACH	7679113	N/A	2021/11/06	Nimarta Singh
pH	AT	7679191	2021/11/03	2021/11/05	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7677508	N/A	2021/11/03	Deonarine Ramnarine
Orthophosphate	KONE	7679156	N/A	2021/11/04	Avneet Kour Sudan
Total Dissolved Solids	BAL	7680732	2021/11/04	2021/11/05	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7683476	2021/11/05	2021/11/09	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7683449	N/A	2021/11/05	Julianna Castiglione

Bureau Veritas ID: RCT907
Sample ID: 48-II
Matrix: Water

Collected: 2021/10/29
Shipped:
Received: 2021/11/02

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7679185	N/A	2021/11/05	Surinder Rai
Anions	IC	7679121	N/A	2021/11/09	Fari Dehdezi
Conductivity	AT	7679186	N/A	2021/11/05	Surinder Rai
Fluoride	ISE	7679182	2021/11/03	2021/11/05	Surinder Rai
Hardness (calculated as CaCO3)		7676640	N/A	2021/11/10	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7679945	N/A	2021/11/09	Azita Fazaeli
Total Ammonia-N	LACH/NH4	7684520	N/A	2021/11/07	Amanpreet Sappal
Nitrate & Nitrite as Nitrogen in Water	LACH	7679113	N/A	2021/11/06	Nimarta Singh
pH	AT	7679191	2021/11/03	2021/11/05	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7677617	N/A	2021/11/03	Deonarine Ramnarine
Orthophosphate	KONE	7679156	N/A	2021/11/04	Avneet Kour Sudan
Total Dissolved Solids	BAL	7680740	2021/11/04	2021/11/05	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7683476	2021/11/05	2021/11/08	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7683449	N/A	2021/11/05	Julianna Castiglione

Bureau Veritas ID: RCT908
Sample ID: 48-IV
Matrix: Water

Collected: 2021/10/29
Shipped:
Received: 2021/11/02

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7679185	N/A	2021/11/05	Surinder Rai
Anions	IC	7679121	N/A	2021/11/09	Fari Dehdezi
Conductivity	AT	7679186	N/A	2021/11/05	Surinder Rai
Fluoride	ISE	7679182	2021/11/03	2021/11/05	Surinder Rai
Hardness (calculated as CaCO3)		7676640	N/A	2021/11/10	Automated Statchk



BUREAU
VERITAS

Bureau Veritas Job #: C1W1739
Report Date: 2021/11/15

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

TEST SUMMARY

Bureau Veritas ID: RCT908
Sample ID: 48-IV
Matrix: Water

Collected: 2021/10/29
Shipped:
Received: 2021/11/02

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dissolved Metals by ICPMS	ICP/MS	7679932	N/A	2021/11/10	Arefa Dabhad
Total Ammonia-N	LACH/NH4	7684531	N/A	2021/11/07	Amanpreet Sappal
Nitrate & Nitrite as Nitrogen in Water	LACH	7679113	N/A	2021/11/06	Nimarta Singh
pH	AT	7679191	2021/11/03	2021/11/05	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7677617	N/A	2021/11/03	Deonarine Ramnarine
Orthophosphate	KONE	7679156	N/A	2021/11/04	Avneet Kour Sudan
Total Dissolved Solids	BAL	7680740	2021/11/04	2021/11/05	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7683476	2021/11/05	2021/11/08	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7683449	N/A	2021/11/06	Julianna Castiglione

Bureau Veritas ID: RCT908 Dup
Sample ID: 48-IV
Matrix: Water

Collected: 2021/10/29
Shipped:
Received: 2021/11/02

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Kjeldahl Nitrogen in Water	SKAL	7683476	2021/11/05	2021/11/08	Massarat Jan

Bureau Veritas ID: RCT909
Sample ID: 48-V
Matrix: Water

Collected: 2021/10/29
Shipped:
Received: 2021/11/02

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7679185	N/A	2021/11/05	Surinder Rai
Anions	IC	7679121	N/A	2021/11/09	Fari Dehdezi
Conductivity	AT	7679186	N/A	2021/11/05	Surinder Rai
Fluoride	ISE	7679182	2021/11/03	2021/11/05	Surinder Rai
Hardness (calculated as CaCO3)		7676640	N/A	2021/11/10	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7679945	N/A	2021/11/09	Azita Fazaeli
Total Ammonia-N	LACH/NH4	7684531	N/A	2021/11/07	Amanpreet Sappal
Nitrate & Nitrite as Nitrogen in Water	LACH	7679113	N/A	2021/11/06	Nimarta Singh
pH	AT	7679191	2021/11/03	2021/11/05	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7677508	N/A	2021/11/03	Deonarine Ramnarine
Orthophosphate	KONE	7679162	N/A	2021/11/04	Avneet Kour Sudan
Total Dissolved Solids	BAL	7680740	2021/11/04	2021/11/05	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7683476	2021/11/05	2021/11/09	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7683449	N/A	2021/11/06	Julianna Castiglione

Bureau Veritas ID: RCT910
Sample ID: 11-I
Matrix: Water

Collected: 2021/10/29
Shipped:
Received: 2021/11/02

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7679256	N/A	2021/11/05	Surinder Rai
Anions	IC	7679230	N/A	2021/11/04	Fari Dehdezi
Conductivity	AT	7679257	N/A	2021/11/05	Surinder Rai



BUREAU
VERITAS

Bureau Veritas Job #: C1W1739
Report Date: 2021/11/15

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

TEST SUMMARY

Bureau Veritas ID: RCT910
Sample ID: 11-I
Matrix: Water

Collected: 2021/10/29
Shipped:
Received: 2021/11/02

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Fluoride	ISE	7679251	2021/11/03	2021/11/05	Surinder Rai
Hardness (calculated as CaCO3)		7676640	N/A	2021/11/10	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7679945	N/A	2021/11/09	Azita Fazaeli
Total Ammonia-N	LACH/NH4	7684520	N/A	2021/11/07	Amanpreet Sappal
Nitrate & Nitrite as Nitrogen in Water	LACH	7679249	N/A	2021/11/04	Chandra Nandlal
pH	AT	7679254	2021/11/03	2021/11/05	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7677508	N/A	2021/11/03	Deonarine Ramnarine
Orthophosphate	KONE	7679162	N/A	2021/11/04	Avneet Kour Sudan
Total Dissolved Solids	BAL	7681520	2021/11/04	2021/11/05	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7683476	2021/11/05	2021/11/09	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7683449	N/A	2021/11/06	Julianna Castiglione

Bureau Veritas ID: RCT911
Sample ID: 47-I
Matrix: Water

Collected: 2021/10/29
Shipped:
Received: 2021/11/02

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
ABN Compounds in Water by GC/MS	GC/MS	7679989	2021/11/04	2021/11/05	Anh Lieu
Alkalinity	AT	7679256	N/A	2021/11/05	Surinder Rai
Anions	IC	7679121	N/A	2021/11/09	Fari Dehdezi
Conductivity	AT	7679257	N/A	2021/11/05	Surinder Rai
Fluoride	ISE	7679251	2021/11/03	2021/11/05	Surinder Rai
Hardness (calculated as CaCO3)		7676640	N/A	2021/11/10	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7679945	N/A	2021/11/09	Azita Fazaeli
Total Ammonia-N	LACH/NH4	7684520	N/A	2021/11/07	Amanpreet Sappal
Nitrate & Nitrite as Nitrogen in Water	LACH	7679113	N/A	2021/11/06	Nimarta Singh
OC Pesticides (Selected) & PCB	GC/ECD	7687640	2021/11/08	2021/11/09	Mahmudul Khan
OC Pesticides Summed Parameters	CALC	7674895	N/A	2021/11/03	Automated Statchk
pH	AT	7679254	2021/11/03	2021/11/05	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7677508	N/A	2021/11/03	Deonarine Ramnarine
Orthophosphate	KONE	7679162	N/A	2021/11/04	Avneet Kour Sudan
Total Dissolved Solids	BAL	7681520	2021/11/04	2021/11/05	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7683476	2021/11/05	2021/11/09	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7683449	N/A	2021/11/05	Julianna Castiglione
Volatile Organic Compounds in Water	P&T/MS	7678438	N/A	2021/11/04	Gladys Guerrero
Non-Routine Volatile Organic Compounds	P&T/MS	7678429	N/A	2021/11/04	Gladys Guerrero

Bureau Veritas ID: RCT911 Dup
Sample ID: 47-I
Matrix: Water

Collected: 2021/10/29
Shipped:
Received: 2021/11/02

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Organic Carbon (TOC)	TOCV/NDIR	7683449	N/A	2021/11/05	Julianna Castiglione



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VERITAS

Bureau Veritas Job #: C1W1739
Report Date: 2021/11/15

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

TEST SUMMARY

Bureau Veritas ID: RCT912
Sample ID: 47-IIR
Matrix: Water

Collected: 2021/10/29
Shipped:
Received: 2021/11/02

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
ABN Compounds in Water by GC/MS	GC/MS	7679989	2021/11/04	2021/11/05	Anh Lieu
Alkalinity	AT	7679185	N/A	2021/11/05	Surinder Rai
Anions	IC	7679121	N/A	2021/11/09	Fari Dehdezi
Conductivity	AT	7679186	N/A	2021/11/05	Surinder Rai
Fluoride	ISE	7679182	2021/11/03	2021/11/05	Surinder Rai
Hardness (calculated as CaCO3)		7676640	N/A	2021/11/10	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7679945	N/A	2021/11/08	Azita Fazaali
Total Ammonia-N	LACH/NH4	7684531	N/A	2021/11/07	Amanpreet Sappal
Nitrate & Nitrite as Nitrogen in Water	LACH	7679113	N/A	2021/11/06	Nimarta Singh
OC Pesticides (Selected) & PCB	GC/ECD	7687640	2021/11/08	2021/11/09	Mahmudul Khan
OC Pesticides Summed Parameters	CALC	7674895	N/A	2021/11/03	Automated Statchk
pH	AT	7679191	2021/11/03	2021/11/05	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7677508	N/A	2021/11/03	Deonarine Ramnarine
Orthophosphate	KONE	7679156	N/A	2021/11/04	Avneet Kour Sudan
Total Dissolved Solids	BAL	7680740	2021/11/04	2021/11/05	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7683476	2021/11/05	2021/11/08	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7683449	N/A	2021/11/05	Julianna Castiglione
Volatile Organic Compounds in Water	P&T/MS	7678438	N/A	2021/11/04	Gladys Guerrero
Non-Routine Volatile Organic Compounds	P&T/MS	7678429	N/A	2021/11/04	Gladys Guerrero

Bureau Veritas ID: RCT912 Dup
Sample ID: 47-IIR
Matrix: Water

Collected: 2021/10/29
Shipped:
Received: 2021/11/02

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Nitrate & Nitrite as Nitrogen in Water	LACH	7679113	N/A	2021/11/06	Nimarta Singh
Volatile Organic Compounds in Water	P&T/MS	7678438	N/A	2021/11/04	Gladys Guerrero
Non-Routine Volatile Organic Compounds	P&T/MS	7678429	N/A	2021/11/04	Gladys Guerrero

Bureau Veritas ID: RCT913
Sample ID: 47-III
Matrix: Water

Collected: 2021/10/29
Shipped:
Received: 2021/11/02

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
ABN Compounds in Water by GC/MS	GC/MS	7679989	2021/11/04	2021/11/05	Anh Lieu
Alkalinity	AT	7679256	N/A	2021/11/05	Surinder Rai
Anions	IC	7679230	N/A	2021/11/04	Fari Dehdezi
Conductivity	AT	7679257	N/A	2021/11/05	Surinder Rai
Fluoride	ISE	7679251	2021/11/03	2021/11/05	Surinder Rai
Hardness (calculated as CaCO3)		7676640	N/A	2021/11/10	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7679932	N/A	2021/11/09	Arefa Dabhad
Total Ammonia-N	LACH/NH4	7684520	N/A	2021/11/07	Amanpreet Sappal
Nitrate & Nitrite as Nitrogen in Water	LACH	7679136	N/A	2021/11/06	Nimarta Singh
OC Pesticides (Selected) & PCB	GC/ECD	7687640	2021/11/08	2021/11/09	Mahmudul Khan
OC Pesticides Summed Parameters	CALC	7674895	N/A	2021/11/03	Automated Statchk



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Sampler Initials: DT

TEST SUMMARY

Bureau Veritas ID: RCT913
Sample ID: 47-III
Matrix: Water

Collected: 2021/10/29
Shipped:
Received: 2021/11/02

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
pH	AT	7679254	2021/11/03	2021/11/05	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7677617	N/A	2021/11/03	Deonarine Ramnarine
Orthophosphate	KONE	7679162	N/A	2021/11/04	Avneet Kour Sudan
Total Dissolved Solids	BAL	7680740	2021/11/04	2021/11/05	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7683479	2021/11/05	2021/11/08	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7683451	N/A	2021/11/05	Julianna Castiglione
Volatile Organic Compounds in Water	P&T/MS	7678438	N/A	2021/11/04	Gladys Guerrero
Non-Routine Volatile Organic Compounds	P&T/MS	7678429	N/A	2021/11/04	Gladys Guerrero

Bureau Veritas ID: RCT913 Dup
Sample ID: 47-III
Matrix: Water

Collected: 2021/10/29
Shipped:
Received: 2021/11/02

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Anions	IC	7679230	N/A	2021/11/04	Fari Dehdezi
Phenols (4AAP)	TECH/PHEN	7677617	N/A	2021/11/03	Deonarine Ramnarine

Bureau Veritas ID: RCT914
Sample ID: 47-IV
Matrix: Water

Collected: 2021/10/29
Shipped:
Received: 2021/11/02

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7679185	N/A	2021/11/05	Surinder Rai
Anions	IC	7679121	N/A	2021/11/09	Fari Dehdezi
Conductivity	AT	7679186	N/A	2021/11/05	Surinder Rai
Fluoride	ISE	7679182	2021/11/03	2021/11/05	Surinder Rai
Hardness (calculated as CaCO3)		7676640	N/A	2021/11/10	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7679932	N/A	2021/11/09	Arefa Dabhad
Total Ammonia-N	LACH/NH4	7684520	N/A	2021/11/07	Amanpreet Sappal
Nitrate & Nitrite as Nitrogen in Water	LACH	7679113	N/A	2021/11/06	Nimarta Singh
pH	AT	7679191	2021/11/03	2021/11/05	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7677083	N/A	2021/11/03	Deonarine Ramnarine
Orthophosphate	KONE	7679156	N/A	2021/11/04	Avneet Kour Sudan
Total Dissolved Solids	BAL	7680740	2021/11/04	2021/11/05	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7683479	2021/11/05	2021/11/05	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7683451	N/A	2021/11/05	Julianna Castiglione

Bureau Veritas ID: RCT914 Dup
Sample ID: 47-IV
Matrix: Water

Collected: 2021/10/29
Shipped:
Received: 2021/11/02

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Ammonia-N	LACH/NH4	7684520	N/A	2021/11/07	Amanpreet Sappal



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Bureau Veritas Job #: C1W1739
Report Date: 2021/11/15

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

TEST SUMMARY

Bureau Veritas ID: RCT915
Sample ID: 12-IV
Matrix: Water

Collected: 2021/10/29
Shipped:
Received: 2021/11/02

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7679185	N/A	2021/11/05	Surinder Rai
Anions	IC	7679130	N/A	2021/11/08	Fari Dehdezi
Conductivity	AT	7679186	N/A	2021/11/05	Surinder Rai
Fluoride	ISE	7679182	2021/11/03	2021/11/05	Surinder Rai
Hardness (calculated as CaCO3)		7676640	N/A	2021/11/10	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7679932	N/A	2021/11/10	Arefa Dabhad
Total Ammonia-N	LACH/NH4	7684520	N/A	2021/11/07	Amanpreet Sappal
Nitrate & Nitrite as Nitrogen in Water	LACH	7679136	N/A	2021/11/06	Nimarta Singh
pH	AT	7679191	2021/11/03	2021/11/05	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7677617	N/A	2021/11/03	Deonarine Ramnarine
Orthophosphate	KONE	7679156	N/A	2021/11/04	Avneet Kour Sudan
Total Dissolved Solids	BAL	7680732	2021/11/04	2021/11/05	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7683476	2021/11/05	2021/11/09	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7683449	N/A	2021/11/05	Julianna Castiglione



GENERAL COMMENTS

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

Package 1	2.7°C
Package 2	2.3°C
Package 3	1.3°C
Package 4	4.3°C
Package 5	5.3°C
Package 6	3.0°C
Package 7	3.3°C

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

Results relate only to the items tested.



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VERITAS

Bureau Veritas Job #: C1W1739

Report Date: 2021/11/15

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
7678438	4-Bromofluorobenzene	2021/11/04	99	70 - 130	105	70 - 130	101	%				
7678438	D4-1,2-Dichloroethane	2021/11/04	104	70 - 130	109	70 - 130	101	%				
7678438	D8-Toluene	2021/11/04	99	70 - 130	98	70 - 130	98	%				
7679989	2,4,6-Tribromophenol	2021/11/04	88	10 - 130	88	10 - 130	74	%				
7679989	2-Fluorobiphenyl	2021/11/04	66	30 - 130	60	30 - 130	71	%				
7679989	2-Fluorophenol	2021/11/04	42	10 - 130	45	10 - 130	42	%				
7679989	D14-Terphenyl	2021/11/04	94	30 - 130	97	30 - 130	94	%				
7679989	D5-Nitrobenzene	2021/11/04	86	30 - 130	87	30 - 130	87	%				
7679989	D5-Phenol	2021/11/04	28	10 - 130	30	10 - 130	27	%				
7687640	2,4,5,6-Tetrachloro-m-xylene	2021/11/09	56	50 - 130	46 (1)	50 - 130	74	%				
7687640	Decachlorobiphenyl	2021/11/09	91	50 - 130	92	50 - 130	93	%				
7677083	Phenols-4AAP	2021/11/03	103	80 - 120	100	80 - 120	<0.0010	mg/L	4.9	20		
7677508	Phenols-4AAP	2021/11/03	100	80 - 120	100	80 - 120	<0.0010	mg/L	NC	20		
7677617	Phenols-4AAP	2021/11/03	100	80 - 120	100	80 - 120	<0.0010	mg/L	NC	20		
7678429	Acrolein	2021/11/04	95	60 - 140	90	60 - 140	<10	ug/L	NC	30		
7678429	Acrylonitrile	2021/11/04	105	60 - 140	103	60 - 140	<5.0	ug/L	NC	30		
7678429	Methyl Butyl Ketone (2-Hexanone)	2021/11/04			101	60 - 140	<5.0	ug/L	NC	30		
7678438	1,1,1,2-Tetrachloroethane	2021/11/04	112	70 - 130	105	70 - 130	<0.20	ug/L	NC	30		
7678438	1,1,1-Trichloroethane	2021/11/04	114	70 - 130	106	70 - 130	<0.10	ug/L	NC	30		
7678438	1,1,2,2-Tetrachloroethane	2021/11/04	98	70 - 130	95	70 - 130	<0.20	ug/L	NC	30		
7678438	1,1,2-Trichloroethane	2021/11/04	106	70 - 130	99	70 - 130	<0.20	ug/L	NC	30		
7678438	1,1-Dichloroethane	2021/11/04	102	70 - 130	94	70 - 130	<0.10	ug/L	NC	30		
7678438	1,1-Dichloroethylene	2021/11/04	107	70 - 130	97	70 - 130	<0.10	ug/L	NC	30		
7678438	1,2-Dichlorobenzene	2021/11/04	102	70 - 130	92	70 - 130	<0.20	ug/L	NC	30		
7678438	1,2-Dichloroethane	2021/11/04	101	70 - 130	98	70 - 130	<0.20	ug/L	NC	30		
7678438	1,2-Dichloropropane	2021/11/04	101	70 - 130	98	70 - 130	<0.10	ug/L	NC	30		
7678438	1,3-Dichlorobenzene	2021/11/04	100	70 - 130	91	70 - 130	<0.20	ug/L	NC	30		
7678438	1,4-Dichlorobenzene	2021/11/04	119	70 - 130	109	70 - 130	<0.20	ug/L	NC	30		
7678438	Acetone (2-Propanone)	2021/11/04	108	60 - 140	101	60 - 140	<10	ug/L	NC	30		
7678438	Benzene	2021/11/04	99	70 - 130	93	70 - 130	<0.10	ug/L	NC	30		
7678438	Bromodichloromethane	2021/11/04	111	70 - 130	109	70 - 130	<0.10	ug/L	NC	30		



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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
7678438	Bromoform	2021/11/04	123	70 - 130	112	70 - 130	<0.20	ug/L	NC	30		
7678438	Bromomethane	2021/11/04	75	60 - 140	84	60 - 140	<0.50	ug/L	NC	30		
7678438	Carbon Tetrachloride	2021/11/04	117	70 - 130	110	70 - 130	<0.10	ug/L	NC	30		
7678438	Chlorobenzene	2021/11/04	102	70 - 130	95	70 - 130	<0.10	ug/L	NC	30		
7678438	Chloroethane	2021/11/04	114	70 - 130	102	70 - 130	<0.20	ug/L	NC	30		
7678438	Chloroform	2021/11/04	104	70 - 130	98	70 - 130	<0.10	ug/L	NC	30		
7678438	Chloromethane	2021/11/04	90	60 - 140	78	60 - 140	<0.50	ug/L	NC	30		
7678438	cis-1,2-Dichloroethylene	2021/11/04	109	70 - 130	101	70 - 130	<0.10	ug/L	NC	30		
7678438	cis-1,3-Dichloropropene	2021/11/04	110	70 - 130	104	70 - 130	<0.20	ug/L	NC	30		
7678438	Dibromochloromethane	2021/11/04	114	70 - 130	107	70 - 130	<0.20	ug/L	NC	30		
7678438	Ethylbenzene	2021/11/04	100	70 - 130	92	70 - 130	<0.10	ug/L	NC	30		
7678438	Ethylene Dibromide	2021/11/04	104	70 - 130	98	70 - 130	<0.20	ug/L	NC	30		
7678438	Methyl Ethyl Ketone (2-Butanone)	2021/11/04	112	60 - 140	103	60 - 140	<5.0	ug/L	NC	30		
7678438	Methyl Isobutyl Ketone	2021/11/04	127	70 - 130	109	70 - 130	<5.0	ug/L	NC	30		
7678438	Methyl t-butyl ether (MTBE)	2021/11/04	107	70 - 130	102	70 - 130	<0.20	ug/L	NC	30		
7678438	Methylene Chloride(Dichloromethane)	2021/11/04	101	70 - 130	96	70 - 130	<0.50	ug/L	NC	30		
7678438	o-Xylene	2021/11/04	101	70 - 130	93	70 - 130	<0.10	ug/L	NC	30		
7678438	p+m-Xylene	2021/11/04	107	70 - 130	95	70 - 130	<0.10	ug/L	NC	30		
7678438	Styrene	2021/11/04	111	70 - 130	104	70 - 130	<0.20	ug/L	NC	30		
7678438	Tetrachloroethylene	2021/11/04	101	70 - 130	90	70 - 130	<0.10	ug/L	NC	30		
7678438	Toluene	2021/11/04	101	70 - 130	91	70 - 130	<0.20	ug/L	NC	30		
7678438	Total Trihalomethanes	2021/11/04					<0.20	ug/L	NC	30		
7678438	Total Xylenes	2021/11/04					<0.10	ug/L	NC	30		
7678438	trans-1,2-Dichloroethylene	2021/11/04	109	70 - 130	100	70 - 130	<0.10	ug/L	NC	30		
7678438	trans-1,3-Dichloropropene	2021/11/04	115	70 - 130	105	70 - 130	<0.20	ug/L	NC	30		
7678438	Trichloroethylene	2021/11/04	110	70 - 130	101	70 - 130	<0.10	ug/L	NC	30		
7678438	Trichlorofluoromethane (FREON 11)	2021/11/04	105	70 - 130	99	70 - 130	<0.20	ug/L	NC	30		
7678438	Vinyl Chloride	2021/11/04	103	70 - 130	96	70 - 130	<0.20	ug/L	NC	30		
7679113	Nitrate (N)	2021/11/06	101	80 - 120	107	80 - 120	<0.10	mg/L	0.92	20		
7679113	Nitrite (N)	2021/11/06	105	80 - 120	108	80 - 120	<0.010	mg/L	NC	20		
7679121	Dissolved Bromide (Br-)	2021/11/09	106	80 - 120	108	80 - 120	<1.0	mg/L	NC	20		



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QUALITY ASSURANCE REPORT(CONT'D)

Terrapure Environmental

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QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
7679121	Dissolved Chloride (Cl-)	2021/11/09	NC	80 - 120	102	70 - 130	<1.0	mg/L	0.98	20		
7679121	Dissolved Sulphate (SO4)	2021/11/09	NC	80 - 120	103	80 - 120	<1.0	mg/L	0.81	20		
7679130	Dissolved Bromide (Br-)	2021/11/08	100	80 - 120	101	80 - 120	<1.0	mg/L	NC	20		
7679130	Dissolved Chloride (Cl-)	2021/11/08	97	80 - 120	96	70 - 130	<1.0	mg/L				
7679130	Dissolved Sulphate (SO4)	2021/11/08	104	80 - 120	97	80 - 120	<1.0	mg/L				
7679136	Nitrate (N)	2021/11/06	102	80 - 120	104	80 - 120	<0.10	mg/L	NC	20		
7679136	Nitrite (N)	2021/11/06	107	80 - 120	108	80 - 120	<0.010	mg/L	NC	20		
7679156	Orthophosphate (P)	2021/11/04	116	75 - 125	101	80 - 120	<0.010	mg/L	NC	25		
7679162	Orthophosphate (P)	2021/11/04	112	75 - 125	101	80 - 120	<0.010	mg/L	NC	25		
7679182	Fluoride (F-)	2021/11/05	102	80 - 120	100	80 - 120	<0.10	mg/L	0.45	20		
7679185	Alkalinity (Total as CaCO3)	2021/11/05			96	85 - 115	<1.0	mg/L	0.73	20		
7679186	Conductivity	2021/11/05			103	85 - 115	<1.0	umho/cm	0	25		
7679191	pH	2021/11/05			102	98 - 103			0.0013	N/A		
7679230	Dissolved Bromide (Br-)	2021/11/04	105	80 - 120	103	80 - 120	<1.0	mg/L	NC	20		
7679230	Dissolved Chloride (Cl-)	2021/11/04	NC	80 - 120	98	70 - 130	<1.0	mg/L	1.6	20		
7679230	Dissolved Sulphate (SO4)	2021/11/04	NC	80 - 120	99	80 - 120	<1.0	mg/L	1.5	20		
7679249	Nitrate (N)	2021/11/04	101	80 - 120	105	80 - 120	<0.10	mg/L	NC	20		
7679249	Nitrite (N)	2021/11/04	103	80 - 120	107	80 - 120	<0.010	mg/L	NC	20		
7679251	Fluoride (F-)	2021/11/05	102	80 - 120	105	80 - 120	<0.10	mg/L	2.3	20		
7679254	pH	2021/11/05			101	98 - 103			0.73	N/A		
7679256	Alkalinity (Total as CaCO3)	2021/11/05			96	85 - 115	<1.0	mg/L	0.96	20		
7679257	Conductivity	2021/11/05			103	85 - 115	<1.0	umho/cm	0	25		
7679258	Fluoride (F-)	2021/11/04	104	80 - 120	103	80 - 120	<0.10	mg/L	16	20		
7679271	Alkalinity (Total as CaCO3)	2021/11/04			93	85 - 115	<1.0	mg/L	0.45	20		
7679273	Conductivity	2021/11/04			100	85 - 115	<1.0	umho/cm	0	25		
7679276	pH	2021/11/04			101	98 - 103			0.36	N/A		
7679932	Dissolved Aluminum (Al)	2021/11/09	98	80 - 120	101	80 - 120	<4.9	ug/L				
7679932	Dissolved Antimony (Sb)	2021/11/09	104	80 - 120	101	80 - 120	<0.50	ug/L				



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			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
7679932	Dissolved Arsenic (As)	2021/11/09	98	80 - 120	99	80 - 120	<1.0	ug/L				
7679932	Dissolved Barium (Ba)	2021/11/09	99	80 - 120	99	80 - 120	<2.0	ug/L				
7679932	Dissolved Beryllium (Be)	2021/11/09	101	80 - 120	102	80 - 120	<0.40	ug/L				
7679932	Dissolved Bismuth (Bi)	2021/11/09	99	80 - 120	98	80 - 120	<1.0	ug/L				
7679932	Dissolved Boron (B)	2021/11/09	97	80 - 120	99	80 - 120	<10	ug/L	0.73	20		
7679932	Dissolved Cadmium (Cd)	2021/11/09	101	80 - 120	99	80 - 120	<0.090	ug/L				
7679932	Dissolved Calcium (Ca)	2021/11/09	NC	80 - 120	101	80 - 120	<200	ug/L	0.41	20		
7679932	Dissolved Chromium (Cr)	2021/11/09	93	80 - 120	93	80 - 120	<5.0	ug/L	NC	20		
7679932	Dissolved Cobalt (Co)	2021/11/09	98	80 - 120	100	80 - 120	<0.50	ug/L				
7679932	Dissolved Copper (Cu)	2021/11/09	102	80 - 120	102	80 - 120	<0.90	ug/L				
7679932	Dissolved Iron (Fe)	2021/11/09	97	80 - 120	97	80 - 120	<100	ug/L	2.9	20		
7679932	Dissolved Lead (Pb)	2021/11/09	98	80 - 120	98	80 - 120	<0.50	ug/L				
7679932	Dissolved Lithium (Li)	2021/11/09	100	80 - 120	96	80 - 120	<5.0	ug/L				
7679932	Dissolved Magnesium (Mg)	2021/11/09	NC	80 - 120	99	80 - 120	<50	ug/L	0.80	20		
7679932	Dissolved Manganese (Mn)	2021/11/09	97	80 - 120	99	80 - 120	<2.0	ug/L	0.68	20		
7679932	Dissolved Molybdenum (Mo)	2021/11/09	100	80 - 120	99	80 - 120	<0.50	ug/L				
7679932	Dissolved Nickel (Ni)	2021/11/09	97	80 - 120	98	80 - 120	<1.0	ug/L	NC	20		
7679932	Dissolved Phosphorus (P)	2021/11/09	98	80 - 120	110	80 - 120	<100	ug/L				
7679932	Dissolved Potassium (K)	2021/11/09	100	80 - 120	100	80 - 120	<200	ug/L	1.2	20		
7679932	Dissolved Selenium (Se)	2021/11/09	98	80 - 120	100	80 - 120	<2.0	ug/L				
7679932	Dissolved Silicon (Si)	2021/11/09	97	80 - 120	100	80 - 120	<50	ug/L				
7679932	Dissolved Silver (Ag)	2021/11/09	95	80 - 120	92	80 - 120	<0.090	ug/L				
7679932	Dissolved Sodium (Na)	2021/11/09	96	80 - 120	101	80 - 120	<100	ug/L	3.2	20		
7679932	Dissolved Strontium (Sr)	2021/11/09	97	80 - 120	96	80 - 120	<1.0	ug/L				
7679932	Dissolved Tellurium (Te)	2021/11/09	102	80 - 120	97	80 - 120	<1.0	ug/L				
7679932	Dissolved Thallium (Tl)	2021/11/09	102	80 - 120	102	80 - 120	<0.050	ug/L				
7679932	Dissolved Tin (Sn)	2021/11/09	100	80 - 120	101	80 - 120	<1.0	ug/L				
7679932	Dissolved Titanium (Ti)	2021/11/09	99	80 - 120	99	80 - 120	<5.0	ug/L				
7679932	Dissolved Tungsten (W)	2021/11/09	104	80 - 120	103	80 - 120	<1.0	ug/L				
7679932	Dissolved Uranium (U)	2021/11/09	100	80 - 120	100	80 - 120	<0.10	ug/L				
7679932	Dissolved Vanadium (V)	2021/11/09	97	80 - 120	95	80 - 120	<0.50	ug/L				



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			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
7679932	Dissolved Zinc (Zn)	2021/11/09	97	80 - 120	99	80 - 120	<5.0	ug/L	NC	20		
7679932	Dissolved Zirconium (Zr)	2021/11/09	104	80 - 120	101	80 - 120	<1.0	ug/L				
7679945	Dissolved Aluminum (Al)	2021/11/08	97	80 - 120	99	80 - 120	<4.9	ug/L	NC	20		
7679945	Dissolved Antimony (Sb)	2021/11/08	99	80 - 120	99	80 - 120	<0.50	ug/L	NC	20		
7679945	Dissolved Arsenic (As)	2021/11/08	97	80 - 120	98	80 - 120	<1.0	ug/L	NC	20		
7679945	Dissolved Barium (Ba)	2021/11/08	97	80 - 120	98	80 - 120	<2.0	ug/L	5.0	20		
7679945	Dissolved Beryllium (Be)	2021/11/08	97	80 - 120	95	80 - 120	<0.40	ug/L	NC	20		
7679945	Dissolved Bismuth (Bi)	2021/11/08	92	80 - 120	94	80 - 120	<1.0	ug/L	NC	20		
7679945	Dissolved Boron (B)	2021/11/08	NC	80 - 120	94	80 - 120	<10	ug/L	0.088	20		
7679945	Dissolved Cadmium (Cd)	2021/11/08	95	80 - 120	96	80 - 120	<0.090	ug/L	NC	20		
7679945	Dissolved Calcium (Ca)	2021/11/08	NC	80 - 120	99	80 - 120	<200	ug/L	1.4	20		
7679945	Dissolved Chromium (Cr)	2021/11/08	97	80 - 120	98	80 - 120	<5.0	ug/L	NC	20		
7679945	Dissolved Cobalt (Co)	2021/11/08	97	80 - 120	97	80 - 120	<0.50	ug/L	NC	20		
7679945	Dissolved Copper (Cu)	2021/11/08	94	80 - 120	97	80 - 120	<0.90	ug/L	8.2	20		
7679945	Dissolved Iron (Fe)	2021/11/08	97	80 - 120	98	80 - 120	<100	ug/L	NC	20		
7679945	Dissolved Lead (Pb)	2021/11/08	90	80 - 120	92	80 - 120	<0.50	ug/L	NC	20		
7679945	Dissolved Lithium (Li)	2021/11/08	95	80 - 120	95	80 - 120	<5.0	ug/L	2.9	20		
7679945	Dissolved Magnesium (Mg)	2021/11/08	NC	80 - 120	98	80 - 120	<50	ug/L	2.2	20		
7679945	Dissolved Manganese (Mn)	2021/11/08	97	80 - 120	99	80 - 120	<2.0	ug/L	3.3	20		
7679945	Dissolved Molybdenum (Mo)	2021/11/08	102	80 - 120	100	80 - 120	<0.50	ug/L	18	20		
7679945	Dissolved Nickel (Ni)	2021/11/08	96	80 - 120	97	80 - 120	<1.0	ug/L	4.0	20		
7679945	Dissolved Phosphorus (P)	2021/11/08	103	80 - 120	102	80 - 120	<100	ug/L	NC	20		
7679945	Dissolved Potassium (K)	2021/11/08	97	80 - 120	98	80 - 120	<200	ug/L	1.4	20		
7679945	Dissolved Selenium (Se)	2021/11/08	97	80 - 120	98	80 - 120	<2.0	ug/L	NC	20		
7679945	Dissolved Silicon (Si)	2021/11/08	97	80 - 120	98	80 - 120	<50	ug/L	0.86	20		
7679945	Dissolved Silver (Ag)	2021/11/08	86	80 - 120	95	80 - 120	<0.090	ug/L	NC	20		
7679945	Dissolved Sodium (Na)	2021/11/08	NC	80 - 120	99	80 - 120	<100	ug/L	2.5	20		
7679945	Dissolved Strontium (Sr)	2021/11/08	NC	80 - 120	97	80 - 120	<1.0	ug/L	1.9	20		
7679945	Dissolved Tellurium (Te)	2021/11/08	94	80 - 120	98	80 - 120	<1.0	ug/L	NC	20		
7679945	Dissolved Thallium (Tl)	2021/11/08	90	80 - 120	93	80 - 120	<0.050	ug/L	NC	20		
7679945	Dissolved Tin (Sn)	2021/11/08	100	80 - 120	100	80 - 120	<1.0	ug/L	NC	20		



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			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
7679945	Dissolved Titanium (Ti)	2021/11/08	95	80 - 120	96	80 - 120	<5.0	ug/L	NC	20		
7679945	Dissolved Tungsten (W)	2021/11/08	97	80 - 120	95	80 - 120	<1.0	ug/L	NC	20		
7679945	Dissolved Uranium (U)	2021/11/08	94	80 - 120	96	80 - 120	<0.10	ug/L	2.2	20		
7679945	Dissolved Vanadium (V)	2021/11/08	99	80 - 120	97	80 - 120	<0.50	ug/L	NC	20		
7679945	Dissolved Zinc (Zn)	2021/11/08	94	80 - 120	94	80 - 120	<5.0	ug/L	9.7	20		
7679945	Dissolved Zirconium (Zr)	2021/11/08	102	80 - 120	102	80 - 120	<1.0	ug/L	NC	20		
7679989	1,2,3,4-Tetrachlorobenzene	2021/11/04	59	30 - 130	53	30 - 130	<0.50	ug/L	NC	40		
7679989	1,2,3,5-Tetrachlorobenzene	2021/11/04	60	30 - 130	53	30 - 130	<0.50	ug/L	NC	40		
7679989	1,2,3-Trichlorobenzene	2021/11/04	58	30 - 130	54	30 - 130	<0.50	ug/L	NC	40		
7679989	1,2,4,5-Tetrachlorobenzene	2021/11/04	59	30 - 130	53	30 - 130	<0.50	ug/L	NC	40		
7679989	1,2,4-Trichlorobenzene	2021/11/04	56	30 - 130	51	30 - 130	<0.50	ug/L	NC	40		
7679989	1,2-Dichlorobenzene	2021/11/04	61	30 - 130	58	30 - 130	<0.50	ug/L	NC	40		
7679989	1,3,5-Trichlorobenzene	2021/11/04	68	30 - 130	65	30 - 130	<0.50	ug/L	NC	40		
7679989	1,3-Dichlorobenzene	2021/11/04	57	30 - 130	53	30 - 130	<0.50	ug/L	NC	40		
7679989	1,4-Dichlorobenzene	2021/11/04	60	30 - 130	57	30 - 130	<0.50	ug/L	NC	40		
7679989	1-Chloronaphthalene	2021/11/04	62	30 - 130	57	30 - 130	<1.0	ug/L	NC	40		
7679989	1-Methylnaphthalene	2021/11/04	73	30 - 130	67	30 - 130	<0.20	ug/L	NC	40		
7679989	2,3,4,5-Tetrachlorophenol	2021/11/04	83	10 - 130	83	10 - 130	<0.40	ug/L	NC	40		
7679989	2,3,4,6-Tetrachlorophenol	2021/11/04	97	10 - 130	101	10 - 130	<0.50	ug/L	NC	40		
7679989	2,3,4-Trichlorophenol	2021/11/04	83	10 - 130	87	10 - 130	<0.50	ug/L	NC	40		
7679989	2,3,5,6-Tetrachlorophenol	2021/11/04	82	10 - 130	83	10 - 130	<0.50	ug/L	NC	40		
7679989	2,3,5-Trichlorophenol	2021/11/04	91	10 - 130	95	10 - 130	<0.50	ug/L	NC	40		
7679989	2,3,6-Trichlorophenol	2021/11/04	84	10 - 130	86	10 - 130	<0.50	ug/L	NC	40		
7679989	2,3-Dichlorophenol	2021/11/04	76	10 - 130	75	10 - 130	<0.50	ug/L	NC	40		
7679989	2,4,5-Trichlorophenol	2021/11/04	92	10 - 130	92	10 - 130	<0.50	ug/L	NC	40		
7679989	2,4,6-Trichlorophenol	2021/11/04	89	10 - 130	93	10 - 130	<0.50	ug/L	NC	40		
7679989	2,4-Dichlorophenol	2021/11/04	81	10 - 130	81	10 - 130	<0.30	ug/L	NC	40		
7679989	2,4-Dimethylphenol	2021/11/04	49	10 - 130	54	10 - 130	<0.50	ug/L	NC	40		
7679989	2,4-Dinitrophenol	2021/11/04	80	10 - 130	84	10 - 130	<2.0	ug/L	NC	40		
7679989	2,4-Dinitrotoluene	2021/11/04	100	30 - 130	102	30 - 130	<0.50	ug/L	NC	40		
7679989	2,5-Dichlorophenol	2021/11/04	79	10 - 130	81	10 - 130	<0.50	ug/L	NC	40		



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			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
7679989	2,6-Dichlorophenol	2021/11/04	77	10 - 130	78	10 - 130	<0.50	ug/L	NC	40		
7679989	2,6-Dinitrotoluene	2021/11/04	90	30 - 130	93	30 - 130	<0.50	ug/L	NC	40		
7679989	2-Chloronaphthalene	2021/11/04	75	30 - 130	69	30 - 130	<0.50	ug/L	NC	40		
7679989	2-Chlorophenol	2021/11/04	77	10 - 130	78	10 - 130	<0.30	ug/L	NC	40		
7679989	2-Methylnaphthalene	2021/11/04	69	30 - 130	65	30 - 130	<0.20	ug/L	NC	40		
7679989	2-Nitrophenol	2021/11/04	86	10 - 130	87	10 - 130	<0.50	ug/L	NC	40		
7679989	3,3'-Dichlorobenzidine	2021/11/04	87	30 - 130	90	30 - 130	<0.50	ug/L	NC	40		
7679989	3,4,5-Trichlorophenol	2021/11/04	88	10 - 130	88	10 - 130	<0.50	ug/L	NC	40		
7679989	3,4-Dichlorophenol	2021/11/04	95	10 - 130	99	10 - 130	<0.50	ug/L	NC	40		
7679989	3,5-Dichlorophenol	2021/11/04	101	10 - 130	102	10 - 130	<0.50	ug/L	NC	40		
7679989	4,6-Dinitro-2-methylphenol	2021/11/04	114	10 - 130	120	10 - 130	<2.0	ug/L	NC	40		
7679989	4-Bromophenyl phenyl ether	2021/11/04	81	30 - 130	77	30 - 130	<0.30	ug/L	NC	40		
7679989	4-Chloro-3-Methylphenol	2021/11/04	76	10 - 130	76	10 - 130	<0.50	ug/L	NC	40		
7679989	4-Chlorophenyl phenyl ether	2021/11/04	77	30 - 130	73	30 - 130	<0.50	ug/L	NC	40		
7679989	4-Nitrophenol	2021/11/04	20	10 - 130	21	10 - 130	<1.4	ug/L	NC	40		
7679989	5-Nitroacenaphthene	2021/11/04	100	30 - 130	102	30 - 130	<1.0	ug/L				
7679989	Acenaphthene	2021/11/04	87	30 - 130	82	30 - 130	<0.20	ug/L	NC	40		
7679989	Acenaphthylene	2021/11/04	85	30 - 130	81	30 - 130	<0.20	ug/L	NC	40		
7679989	Anthracene	2021/11/04	90	30 - 130	90	30 - 130	<0.20	ug/L	NC	40		
7679989	Benzo(a)anthracene	2021/11/04	100	30 - 130	101	30 - 130	<0.20	ug/L	NC	40		
7679989	Benzo(a)pyrene	2021/11/04	105	30 - 130	102	30 - 130	<0.20	ug/L	NC	40		
7679989	Benzo(b,j)fluoranthene	2021/11/04	99	30 - 130	98	30 - 130	<0.20	ug/L	NC	40		
7679989	Benzo(g,h,i)perylene	2021/11/04	100	30 - 130	103	30 - 130	<0.20	ug/L	NC	40		
7679989	Benzo(k)fluoranthene	2021/11/04	104	30 - 130	101	30 - 130	<0.20	ug/L	NC	40		
7679989	Benzyl butyl phthalate	2021/11/04	98	30 - 130	101	30 - 130	<0.50	ug/L	NC	40		
7679989	Biphenyl	2021/11/04	77	30 - 130	72	30 - 130	<0.50	ug/L	NC	40		
7679989	Bis(2-chloroethoxy)methane	2021/11/04	75	30 - 130	75	30 - 130	<0.50	ug/L	NC	40		
7679989	Bis(2-chloroethyl)ether	2021/11/04	85	30 - 130	83	30 - 130	<0.50	ug/L	NC	40		
7679989	Bis(2-chloroisopropyl)ether	2021/11/04	78	30 - 130	76	30 - 130	<0.50	ug/L	NC	40		
7679989	Bis(2-ethylhexyl)phthalate	2021/11/04	97	30 - 130	95	30 - 130	<2.0	ug/L	NC	40		
7679989	Chrysene	2021/11/04	97	30 - 130	105	30 - 130	<0.20	ug/L	NC	40		



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			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
7679989	Dibenzo(a,h)anthracene	2021/11/04	108	30 - 130	108	30 - 130	<0.20	ug/L	NC	40		
7679989	Diethyl phthalate	2021/11/04	88	30 - 130	92	30 - 130	<1.0	ug/L	NC	40		
7679989	Dimethyl phthalate	2021/11/04	90	30 - 130	93	30 - 130	<1.0	ug/L	NC	40		
7679989	Di-N-butyl phthalate	2021/11/04	100	30 - 130	99	30 - 130	<2.0	ug/L	NC	40		
7679989	di-n-octyl phthalate	2021/11/04	106	30 - 130	106	30 - 130	<0.80	ug/L	NC	40		
7679989	Diphenyl Ether	2021/11/04	77	30 - 130	71	30 - 130	<0.30	ug/L	NC	40		
7679989	Fluoranthene	2021/11/04	95	30 - 130	96	30 - 130	<0.20	ug/L	NC	40		
7679989	Fluorene	2021/11/04	92	30 - 130	89	30 - 130	<0.20	ug/L	NC	40		
7679989	Hexachlorobenzene	2021/11/04	84	30 - 130	83	30 - 130	<0.50	ug/L	NC	40		
7679989	Hexachlorobutadiene	2021/11/04	55	30 - 130	52	30 - 130	<0.40	ug/L	NC	40		
7679989	Hexachlorocyclopentadiene	2021/11/04	61	30 - 130	57	30 - 130	<2.0	ug/L	NC	40		
7679989	Hexachloroethane	2021/11/04	61	30 - 130	51	30 - 130	<0.50	ug/L	NC	40		
7679989	Indeno(1,2,3-cd)pyrene	2021/11/04	104	30 - 130	102	30 - 130	<0.20	ug/L	NC	40		
7679989	Isophorone	2021/11/04	86	30 - 130	87	30 - 130	<0.50	ug/L	NC	40		
7679989	m/p-Cresol	2021/11/04	60	10 - 130	63	10 - 130	<0.50	ug/L	NC	40		
7679989	Naphthalene	2021/11/04	68	30 - 130	65	30 - 130	<0.20	ug/L	NC	40		
7679989	Nitrobenzene	2021/11/04	81	30 - 130	78	30 - 130	<0.50	ug/L	NC	40		
7679989	Nitrosodiphenylamine/Diphenylamine	2021/11/04	119	30 - 130	120	30 - 130	<1.0	ug/L	NC	40		
7679989	N-Nitroso-di-n-propylamine	2021/11/04	111	30 - 130	112	30 - 130	<0.50	ug/L	NC	40		
7679989	o-Cresol	2021/11/04	69	10 - 130	72	10 - 130	<0.50	ug/L	NC	40		
7679989	p-Chloroaniline	2021/11/04	91	30 - 130	85	30 - 130	<1.0	ug/L	NC	40		
7679989	Pentachlorobenzene	2021/11/04	66	30 - 130	55	30 - 130	<0.50	ug/L	NC	40		
7679989	Pentachlorophenol	2021/11/04	62	10 - 130	66	10 - 130	<1.0	ug/L	NC	40		
7679989	Perylene	2021/11/04	99	30 - 130	98	30 - 130	<0.20	ug/L	NC	40		
7679989	Phenanthrene	2021/11/04	94	30 - 130	94	30 - 130	<0.20	ug/L	NC	40		
7679989	Phenol	2021/11/04	31	10 - 130	32	10 - 130	<0.50	ug/L	NC	40		
7679989	Pyrene	2021/11/04	108	30 - 130	110	30 - 130	<0.20	ug/L	NC	40		
7680732	Total Dissolved Solids	2021/11/05					<10	mg/L	2.1	25	100	90 - 110
7680740	Total Dissolved Solids	2021/11/05					<10	mg/L	0.96	25	97	90 - 110
7681454	Dissolved Bromide (Br-)	2021/11/05	102	80 - 120	102	80 - 120	<1.0	mg/L				
7681454	Dissolved Chloride (Cl-)	2021/11/05	97	80 - 120	98	70 - 130	<1.0	mg/L	0.27	20		



BUREAU
VERITAS

Bureau Veritas Job #: C1W1739

Report Date: 2021/11/15

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
7681454	Dissolved Sulphate (SO4)	2021/11/05	NC	80 - 120	99	80 - 120	<1.0	mg/L				
7681520	Total Dissolved Solids	2021/11/05					<10	mg/L	3.5	25	98	90 - 110
7683449	Total Organic Carbon (TOC)	2021/11/05	97	80 - 120	97	80 - 120	<0.40	mg/L	1.9	20		
7683451	Total Organic Carbon (TOC)	2021/11/05	95	80 - 120	97	80 - 120	<0.40	mg/L	0.080	20		
7683476	Total Kjeldahl Nitrogen (TKN)	2021/11/08	110	80 - 120	104	80 - 120	<0.10	mg/L	7.9	20	109	80 - 120
7683479	Total Kjeldahl Nitrogen (TKN)	2021/11/05	NC	80 - 120	92	80 - 120	<0.10	mg/L	4.0	20	92	80 - 120
7684520	Total Ammonia-N	2021/11/07	92	75 - 125	97	80 - 120	<0.050	mg/L	7.1	20		
7684531	Total Ammonia-N	2021/11/07	85	75 - 125	95	80 - 120	<0.050	mg/L	1.3	20		
7687640	a-Chlordane	2021/11/09	51	50 - 130	85	50 - 130	<0.005	ug/L	3.2	30		
7687640	Aldrin	2021/11/09	56	50 - 130	74	50 - 130	<0.005	ug/L	4.2	30		
7687640	alpha-BHC	2021/11/09	79	30 - 130	86	30 - 130	<0.005	ug/L	3.5	40		
7687640	Aroclor 1242	2021/11/09					<0.05	ug/L				
7687640	Aroclor 1248	2021/11/09					<0.05	ug/L				
7687640	Aroclor 1254	2021/11/09					<0.05	ug/L				
7687640	Aroclor 1260	2021/11/09					<0.05	ug/L				
7687640	beta-BHC	2021/11/09	70	30 - 130	77	30 - 130	<0.005	ug/L	2.7	40		
7687640	Dieldrin	2021/11/09	75	50 - 130	98	50 - 130	<0.005	ug/L	1.1	30		
7687640	Endosulfan I (alpha)	2021/11/09	68	50 - 130	84	50 - 130	<0.005	ug/L	4.0	30		
7687640	Endosulfan II (beta)	2021/11/09	70	50 - 130	76	50 - 130	<0.005	ug/L	2.6	30		
7687640	Endrin aldehyde	2021/11/09	58	30 - 130	75	30 - 130	<0.005	ug/L	0.53	40		
7687640	Endrin ketone	2021/11/09	87	30 - 130	91	30 - 130	<0.005	ug/L	5.4	40		
7687640	Endrin	2021/11/09	72	50 - 130	83	50 - 130	<0.005	ug/L	3.6	30		
7687640	g-Chlordane	2021/11/09	57	50 - 130	86	50 - 130	<0.005	ug/L	2.6	30		
7687640	Heptachlor epoxide	2021/11/09	78	50 - 130	90	50 - 130	<0.005	ug/L	4.7	30		
7687640	Heptachlor	2021/11/09	71	50 - 130	72	50 - 130	<0.005	ug/L	4.4	30		
7687640	Hexachlorobenzene	2021/11/09	76	50 - 130	84	50 - 130	<0.005	ug/L	NC	30		
7687640	Hexachlorobutadiene	2021/11/09	73	50 - 130	73	50 - 130	<0.009	ug/L	5.7	30		
7687640	Hexachloroethane	2021/11/09	60	50 - 130	62	50 - 130	<0.01	ug/L	2.5	30		
7687640	Lindane	2021/11/09	87	50 - 130	97	50 - 130	<0.003	ug/L	2.9	30		
7687640	Methoxychlor	2021/11/09	82	50 - 130	76	50 - 130	<0.01	ug/L	6.2	30		
7687640	Mirex	2021/11/09	77	30 - 130	88	30 - 130	<0.005	ug/L	12	40		



BUREAU
VERITAS

Bureau Veritas Job #: C1W1739

Report Date: 2021/11/15

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
7687640	o,p-DDD	2021/11/09	66	50 - 130	106	50 - 130	<0.005	ug/L	4.5	30		
7687640	o,p-DDE	2021/11/09	80	50 - 130	102	50 - 130	<0.005	ug/L	3.8	30		
7687640	o,p-DDT	2021/11/09	71	50 - 130	75	50 - 130	<0.005	ug/L	4.4	30		
7687640	p,p-DDD	2021/11/09	79	50 - 130	97	50 - 130	<0.005	ug/L	5.2	30		
7687640	p,p-DDE	2021/11/09	74	50 - 130	88	50 - 130	<0.005	ug/L	5.8	30		
7687640	p,p-DDT	2021/11/09	62	50 - 130	61	50 - 130	<0.005	ug/L	3.5	30		
7687640	Toxaphene	2021/11/09					<0.2	ug/L				
7696463	Dissolved Aluminum (Al)	2021/11/12	100	80 - 120	101	80 - 120	<4.9	ug/L	NC	20		
7696463	Dissolved Antimony (Sb)	2021/11/12	105	80 - 120	104	80 - 120	<0.50	ug/L	NC	20		
7696463	Dissolved Arsenic (As)	2021/11/12	98	80 - 120	98	80 - 120	<1.0	ug/L	NC	20		
7696463	Dissolved Barium (Ba)	2021/11/12	97	80 - 120	100	80 - 120	<2.0	ug/L	4.2	20		
7696463	Dissolved Beryllium (Be)	2021/11/12	98	80 - 120	99	80 - 120	<0.40	ug/L	NC	20		
7696463	Dissolved Bismuth (Bi)	2021/11/12	74 (2)	80 - 120	94	80 - 120	<1.0	ug/L	NC	20		
7696463	Dissolved Boron (B)	2021/11/12	NC	80 - 120	100	80 - 120	<10	ug/L	1.2	20		
7696463	Dissolved Cadmium (Cd)	2021/11/12	99	80 - 120	100	80 - 120	<0.090	ug/L	NC	20		
7696463	Dissolved Calcium (Ca)	2021/11/12	NC	80 - 120	101	80 - 120	<200	ug/L	3.4	20		
7696463	Dissolved Chromium (Cr)	2021/11/12	96	80 - 120	97	80 - 120	<5.0	ug/L	NC	20		
7696463	Dissolved Cobalt (Co)	2021/11/12	94	80 - 120	96	80 - 120	<0.50	ug/L	NC	20		
7696463	Dissolved Copper (Cu)	2021/11/12	93	80 - 120	99	80 - 120	<0.90	ug/L	NC	20		
7696463	Dissolved Iron (Fe)	2021/11/12	95	80 - 120	96	80 - 120	<100	ug/L	NC	20		
7696463	Dissolved Lead (Pb)	2021/11/12	90	80 - 120	93	80 - 120	<0.50	ug/L	NC	20		
7696463	Dissolved Lithium (Li)	2021/11/12	99	80 - 120	101	80 - 120	<5.0	ug/L	3.0	20		
7696463	Dissolved Magnesium (Mg)	2021/11/12	NC	80 - 120	97	80 - 120	<50	ug/L	2.4	20		
7696463	Dissolved Manganese (Mn)	2021/11/12	97	80 - 120	100	80 - 120	<2.0	ug/L	1.5	20		
7696463	Dissolved Molybdenum (Mo)	2021/11/12	105	80 - 120	101	80 - 120	<0.50	ug/L	NC	20		
7696463	Dissolved Nickel (Ni)	2021/11/12	92	80 - 120	95	80 - 120	<1.0	ug/L	7.3	20		
7696463	Dissolved Phosphorus (P)	2021/11/12	104	80 - 120	117	80 - 120	<100	ug/L	NC	20		
7696463	Dissolved Potassium (K)	2021/11/12	NC	80 - 120	100	80 - 120	<200	ug/L	2.5	20		
7696463	Dissolved Selenium (Se)	2021/11/12	76 (2)	80 - 120	96	80 - 120	<2.0	ug/L	NC	20		
7696463	Dissolved Silicon (Si)	2021/11/12	101	80 - 120	103	80 - 120	<50	ug/L	3.2	20		
7696463	Dissolved Silver (Ag)	2021/11/12	72 (2)	80 - 120	98	80 - 120	<0.090	ug/L	NC	20		



BUREAU
VERITAS

Bureau Veritas Job #: C1W1739

Report Date: 2021/11/15

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
7696463	Dissolved Sodium (Na)	2021/11/12	NC	80 - 120	99	80 - 120	<100	ug/L	1.5	20		
7696463	Dissolved Strontium (Sr)	2021/11/12	NC	80 - 120	100	80 - 120	<1.0	ug/L	0.65	20		
7696463	Dissolved Tellurium (Te)	2021/11/12	76 (2)	80 - 120	102	80 - 120	<1.0	ug/L	NC	20		
7696463	Dissolved Thallium (Tl)	2021/11/12	92	80 - 120	94	80 - 120	<0.050	ug/L	NC	20		
7696463	Dissolved Tin (Sn)	2021/11/12	106	80 - 120	104	80 - 120	<1.0	ug/L	NC	20		
7696463	Dissolved Titanium (Ti)	2021/11/12	97	80 - 120	100	80 - 120	<5.0	ug/L	NC	20		
7696463	Dissolved Tungsten (W)	2021/11/12	97	80 - 120	95	80 - 120	<1.0	ug/L	4.3	20		
7696463	Dissolved Uranium (U)	2021/11/12	99	80 - 120	99	80 - 120	<0.10	ug/L	4.2	20		
7696463	Dissolved Vanadium (V)	2021/11/12	98	80 - 120	98	80 - 120	<0.50	ug/L	18	20		
7696463	Dissolved Zinc (Zn)	2021/11/12	91	80 - 120	97	80 - 120	<5.0	ug/L	NC	20		
7696463	Dissolved Zirconium (Zr)	2021/11/12	108	80 - 120	105	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.

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) Matrix Spike exceeds acceptance limits, probable matrix interference.



BUREAU
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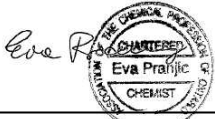
Bureau Veritas Job #: C1W1739
Report Date: 2021/11/15

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

VALIDATION SIGNATURE PAGE

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

Anastassia Hamanov, Scientific Specialist



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

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



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

02-Nov-21 15:40

Jolanta Goralczyk
C1W1739

INVOICE TO:

Company Name: #16786 Terrapure Environmental
 Attention: Accounting
 Address: 65 Green Mountain Rd West
 Stoney Creek ON L8J 1X5
 Tel: (905) 561-0305 Fax: (905) 561-1674
 Email: kbailey@terrapureenv.com

REPORT TO:

Company Name:
 Attention: Brad Mullin - GHD Reporting
 Address:
 Tel:
 Email: bmullin@terrapureenv.com; dtaylor2@terrapureenv.com

PROJECT INFORMATION

Quotation #: B60569
 P.O. #:
 Project: GW
 Project Name: ENV 1274
 Site #:
 Sampled By:

Use Only:

Bottle Order #: 847927
 Project Manager: Jolanta Goralczyk

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

Regulation 153 (2011)
 Table 1 Res/Park Medium/Fine
 Table 2 Ind/Comm Coarse
 Table 3 Agri/Other For RSC
 Table

Other Regulations
 CCME Sanitary Sewer Bylaw
 Reg 558 Storm Sewer Bylaw
 MISA Municipality
 PWQO Reg 406 Table
 Other

Special Instructions

ANALYSIS REQUESTED (PLEASE BE SPECIFIC)

Field Filtered (please circle)	Metals - Hg / Cr / V	List "A" - GW Monitoring	List "B" - GW Monitoring	Biochemical Oxygen Demand (BOD)
Y	X			

Turnaround Time (TAT) Required:

Please provide advance notice for rush projects

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

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

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

Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Field Filtered (please circle)	Metals - Hg / Cr / V	List "A" - GW Monitoring	List "B" - GW Monitoring	Biochemical Oxygen Demand (BOD)	# of Bottles	Comments
1	30-I	Nov 1 2021	NA	GW	Y	X				6	
2	30-II			GW	Y	X				6	
3	5T1			GW	Y	X				6	
4	5T2			GW	Y	X				6	
5	42-I			GW	Y	X				6	
6	42-II			GW	Y	X				6	
7	42-III			GW	Y	X				6	
8	36-IR			GW	Y	X				6	
9	06-IR			GW	Y	X				6	
10	3-II	Oct 29 2021		GW	Y	X				6	

RECEIVED BY: (Signature/Print) Date: (YY/MM/DD) Time

RECEIVED BY: (Signature/Print) Date: (YY/MM/DD) Time

2021/11/02 15:40

Laboratory Use Only

Temperature (°C) on Receipt: See ACTR

Custody Seal: 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.



Bureau Veritas Laboratories
6740 Campobello Road, Mississauga, Ontario Canada L5N 2L8 Tel: (905) 817-5700 Toll-free 800-563-6266 Fax: (905) 617-5777 www.bvlabs.com

CHAIN OF CUSTODY RECORD

INVOICE TO: Company Name: #16786 Terrapure Environmental Attention: Accounting Address: 65 Green Mountain Rd West Stoney Creek ON L8J 1X5 Tel: (905) 561-0305 Fax: (905) 561-1674 Email: kbailey@terrapureenv.com		REPORT TO: Company Name: Brad Mullin - GHD Reporting Attention: Address: Tel: Email: bmullin@terrapureenv.com; dtaylor2@terrapureenv.com		PROJECT INFORMATION: Quotation #: B60569 P.O #: GW Project: Project Name: Site #: Sampled By:		Laboratory Use Only: BV Labs Job #: Bottle Order #: 847927 COC #: Project Manager: Jolanta Gora-Kzyk C#847927-08-01 Turnaround Time (TAT) Required:	
--	--	--	--	--	--	--	--

MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE BV LABS DRINKING WATER CHAIN OF CUSTODY						ANALYSIS REQUESTED (PLEASE BE SPECIFIC)				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	List "B" GW Monitoring	Biochemical Oxygen Demand (BOD)	List "A" GW "Phenol"	Regular (Standard) TAT: <small>(will be applied if Rush TAT is not specified)</small> 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.	
Table 1	Res/Park	Medium/Fine	CCME	Sanitary Sewer Bylaw							Date Required:	Time Required:
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>						<input checked="" 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							# of Bottles	Comments
1	12-IV	Oct 29 2001	Ma	GW	Y	X					6	
2	41-II	Nov 1 2001		GW	N				X		1	Phenol for job # C12V6641
3				GW								
4				GW								
5				GW								
6				GW								
7				GW								
8				GW								
9				GW								
10				GW								

RELINQUISHED BY: (Signature/Print) <i>Don Taylor</i>	Date: (YY/MM/DD) 21/11/02	Time 9:20	RECEIVED BY: (Signature/Print) <i>See pg 1</i>	Date: (YY/MM/DD)	Time	# Jars used and not submitted	Laboratory Use Only		Custody Seal	Yes	No
							Time Sensitive	Temperature (°C) on Receipt	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.

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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

Bureau Veritas Canada (2019) Inc.



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

Attention: Brad Mullin - GHD Reporting

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

Report Date: 2021/11/12
Report #: R6899172
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C1W2929

Received: 2021/11/03, 14:49

Sample Matrix: Water
Samples Received: 12

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
ABN Compounds in Water by GC/MS	4	2021/11/04	2021/11/05	CAM SOP-00301	EPA 8270 m
Alkalinity	12	N/A	2021/11/08	CAM SOP-00448	SM 23 2320 B m
Anions	6	N/A	2021/11/10	CAM SOP-00435	SM 23 4110 B m
Anions	6	N/A	2021/11/09	CAM SOP-00435	SM 23 4110 B m
Biochemical Oxygen Demand (BOD)	1	2021/11/04	2021/11/09	CAM SOP-00427	SM 23 5210B m
Conductivity	12	N/A	2021/11/08	CAM SOP-00414	SM 23 2510 m
Fluoride	12	2021/11/06	2021/11/08	CAM SOP-00449	SM 23 4500-F C m
Hardness (calculated as CaCO3)	10	N/A	2021/11/10	CAM SOP 00102/00408/00447	SM 2340 B
Hardness (calculated as CaCO3)	2	N/A	2021/11/11	CAM SOP 00102/00408/00447	SM 2340 B
Dissolved Metals by ICPMS	2	N/A	2021/11/10	CAM SOP-00447	EPA 6020B m
Dissolved Metals by ICPMS	10	N/A	2021/11/09	CAM SOP-00447	EPA 6020B m
Total Ammonia-N	12	N/A	2021/11/09	CAM SOP-00441	USGS I-2522-90 m
Nitrate & Nitrite as Nitrogen in Water (1)	1	N/A	2021/11/10	CAM SOP-00440	SM 23 4500-NO3I/NO2B
Nitrate & Nitrite as Nitrogen in Water (1)	11	N/A	2021/11/09	CAM SOP-00440	SM 23 4500-NO3I/NO2B
OC Pesticides (Selected) & PCB (2)	4	2021/11/08	2021/11/09	CAM SOP-00307	EPA 8081A/8082B m
OC Pesticides Summed Parameters	4	N/A	2021/11/08	CAM SOP-00307	EPA 8081A/8082B m
pH	12	2021/11/06	2021/11/08	CAM SOP-00413	SM 4500H+ B m
Phenols (4AAP)	11	N/A	2021/11/08	CAM SOP-00444	OMOE E3179 m
Phenols (4AAP)	1	N/A	2021/11/09	CAM SOP-00444	OMOE E3179 m
Orthophosphate	12	N/A	2021/11/09	CAM SOP-00461	EPA 365.1 m
Total Dissolved Solids	12	2021/11/06	2021/11/08	CAM SOP-00428	SM 23 2540C m
Total Kjeldahl Nitrogen in Water	10	2021/11/07	2021/11/10	CAM SOP-00938	OMOE E3516 m
Total Kjeldahl Nitrogen in Water	2	2021/11/07	2021/11/09	CAM SOP-00938	OMOE E3516 m
Total Organic Carbon (TOC) (3)	12	N/A	2021/11/08	CAM SOP-00446	SM 23 5310B m
Volatile Organic Compounds in Water	4	N/A	2021/11/09	CAM SOP-00226	EPA 8260C m
Non-Routine Volatile Organic Compounds	4	N/A	2021/11/10	CAM SOP-00226	EPA 8260 m

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

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

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



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

Attention: Brad Mullin - GHD Reporting

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

Report Date: 2021/11/12
Report #: R6899172
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C1W2929

Received: 2021/11/03, 14:49

- (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
12 Nov 2021 17:06:29

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

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BUREAU
VERITAS

Bureau Veritas Job #: C1W2929
Report Date: 2021/11/12

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		RDA317			RDA318			RDA319		
Sampling Date		2021/11/02			2021/11/02			2021/11/02		
	UNITS	57-IR	RDL	QC Batch	57-II	RDL	QC Batch	14-I	RDL	QC Batch
Calculated Parameters										
Hardness (CaCO ₃)	mg/L	140	1.0	7677400	1200	1.0	7677400	840	1.0	7679275
Inorganics										
Total Ammonia-N	mg/L	200	0.50	7686834	0.56	0.050	7686834	<0.050	0.050	7686834
Total BOD	mg/L				<2	2	7679915			
Conductivity	umho/cm	13000	1.0	7685387	5100	1.0	7685387	1500	1.0	7685387
Total Dissolved Solids	mg/L	7290	20	7685033	1200	10	7685033	1040	10	7685033
Fluoride (F ⁻)	mg/L	4.1	0.10	7685383	0.47	0.10	7685383	0.30	0.10	7685383
Total Kjeldahl Nitrogen (TKN)	mg/L	230	5.0	7685954	1.3	0.10	7685954	0.18	0.10	7686041
Total Organic Carbon (TOC)	mg/L	66	0.40	7685957	3.5	0.40	7685956	1.1	0.40	7684633
Orthophosphate (P)	mg/L	0.040	0.010	7685191	<0.050	0.050	7685191	0.020	0.010	7685191
pH	pH	10.7		7685381	12.3		7685381	7.79		7685381
Phenols-4AAP	mg/L	1.0	0.050	7686347	0.010	0.0010	7686347	<0.0010	0.0010	7686329
Alkalinity (Total as CaCO ₃)	mg/L	840	1.0	7685385	1200	1.0	7685385	410	1.0	7685385
Nitrite (N)	mg/L	0.014	0.010	7685219	0.021	0.010	7685219	<0.010	0.010	7685219
Dissolved Chloride (Cl ⁻)	mg/L	4000	20	7685277	20	1.0	7685275	82	1.0	7685275
Nitrate (N)	mg/L	<0.10	0.10	7685219	<0.10	0.10	7685219	0.17	0.10	7685219
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	7685219	<0.10	0.10	7685219	0.17	0.10	7685219
Dissolved Bromide (Br ⁻)	mg/L	<20	20	7685277	<1.0	1.0	7685275	<1.0	1.0	7685275
Dissolved Sulphate (SO ₄)	mg/L	110	20	7685277	28	1.0	7685275	360	1.0	7685275
RDL = Reportable Detection Limit QC Batch = Quality Control Batch										



BUREAU
VERITAS

Bureau Veritas Job #: C1W2929
Report Date: 2021/11/12

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		RDA320		RDA321			RDA321		
Sampling Date		2021/11/02		2021/11/02			2021/11/02		
	UNITS	45-I	QC Batch	45-II	RDL	QC Batch	45-II Lab-Dup	RDL	QC Batch
Calculated Parameters									
Hardness (CaCO ₃)	mg/L	430	7679275	460	1.0	7679275			
Inorganics									
Total Ammonia-N	mg/L	0.099	7686834	0.15	0.050	7686834			
Conductivity	umho/cm	860	7685387	1100	1.0	7685387			
Total Dissolved Solids	mg/L	530	7685033	615	10	7684389			
Fluoride (F ⁻)	mg/L	0.24	7685383	0.24	0.10	7685383			
Total Kjeldahl Nitrogen (TKN)	mg/L	0.19	7685954	0.31	0.10	7685954	0.33	0.10	7685954
Total Organic Carbon (TOC)	mg/L	1.3	7685956	2.6	0.40	7685956			
Orthophosphate (P)	mg/L	<0.010	7685191	<0.010	0.010	7685191			
pH	pH	7.98	7685381	7.80		7685381			
Phenols-4AAP	mg/L	<0.0010	7686347	<0.0010	0.0010	7686347			
Alkalinity (Total as CaCO ₃)	mg/L	300	7685385	300	1.0	7685385			
Nitrite (N)	mg/L	<0.010	7685219	<0.010	0.010	7685219			
Dissolved Chloride (Cl ⁻)	mg/L	50	7685277	140	1.0	7685275			
Nitrate (N)	mg/L	<0.10	7685219	<0.10	0.10	7685219			
Nitrate + Nitrite (N)	mg/L	<0.10	7685219	<0.10	0.10	7685219			
Dissolved Bromide (Br ⁻)	mg/L	<1.0	7685277	<1.0	1.0	7685275			
Dissolved Sulphate (SO ₄)	mg/L	100	7685277	97	1.0	7685275			
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate									



RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		RDA322		RDA323			RDA323		
Sampling Date		2021/11/02		2021/11/02			2021/11/02		
	UNITS	76-1	RDL	76-II	RDL	QC Batch	76-II Lab-Dup	RDL	QC Batch
Calculated Parameters									
Hardness (CaCO ₃)	mg/L	34000	1.0	450	1.0	7679275			
Inorganics									
Total Ammonia-N	mg/L	30	0.050	<0.050	0.050	7686834	<0.050	0.050	7686834
Conductivity	umho/cm	120000	1.0	1300	1.0	7685387			
Total Dissolved Solids	mg/L	71100	20	635	10	7684389			
Fluoride (F ⁻)	mg/L	0.18	0.10	0.28	0.10	7685383			
Total Kjeldahl Nitrogen (TKN)	mg/L	39	2.0	0.27	0.10	7685954			
Total Organic Carbon (TOC)	mg/L	7.2	0.40	3.2	0.40	7685956			
Orthophosphate (P)	mg/L	<0.20 (1)	0.20	<0.010	0.010	7685191			
pH	pH	6.92		7.71		7685381			
Phenols-4AAP	mg/L	<0.010 (2)	0.010	<0.0010	0.0010	7686347			
Alkalinity (Total as CaCO ₃)	mg/L	130	1.0	400	1.0	7685385			
Nitrite (N)	mg/L	<0.10	0.10	<0.010	0.010	7685219			
Dissolved Chloride (Cl ⁻)	mg/L	49000	500	98	1.0	7685275			
Nitrate (N)	mg/L	<1.0	1.0	<0.10	0.10	7685219			
Nitrate + Nitrite (N)	mg/L	<1.0	1.0	<0.10	0.10	7685219			
Dissolved Bromide (Br ⁻)	mg/L	590	500	<1.0	1.0	7685275			
Dissolved Sulphate (SO ₄)	mg/L	1300	500	170	1.0	7685275			
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate (1) Due to colour interferences, sample required dilution. Detection limit was adjusted accordingly. (2) Detection Limit was raised due to matrix interferences.									



RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		RDA324			RDA325			RDA325		
Sampling Date		2021/11/02			2021/11/02			2021/11/02		
	UNITS	76-III	RDL	QC Batch	P12	RDL	QC Batch	P12 Lab-Dup	RDL	QC Batch
Calculated Parameters										
Hardness (CaCO3)	mg/L	440	1.0	7679275	350	1.0	7679275			
Inorganics										
Total Ammonia-N	mg/L	<0.050	0.050	7686834	8.6	0.050	7686834			
Conductivity	umho/cm	1100	1.0	7685387	2100	1.0	7685387			
Total Dissolved Solids	mg/L	595	10	7683859	1250	10	7685033			
Fluoride (F-)	mg/L	0.26	0.10	7685383	0.60	0.10	7685383			
Total Kjeldahl Nitrogen (TKN)	mg/L	0.26	0.10	7685954	15	0.50	7685954			
Total Organic Carbon (TOC)	mg/L	3.2	0.40	7685956	15	0.40	7685956			
Orthophosphate (P)	mg/L	<0.010	0.010	7685191	<0.010	0.010	7685191	<0.010	0.010	7685191
pH	pH	7.79		7685381	8.35		7685381			
Phenols-4AAP	mg/L	<0.0010	0.0010	7686347	0.13	0.010	7686347			
Alkalinity (Total as CaCO3)	mg/L	380	1.0	7685385	100	1.0	7685385			
Nitrite (N)	mg/L	<0.010	0.010	7685219	0.029	0.010	7685422			
Dissolved Chloride (Cl-)	mg/L	59	1.0	7685275	230	5.0	7685277			
Nitrate (N)	mg/L	<0.10	0.10	7685219	<0.10	0.10	7685422			
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	7685219	<0.10	0.10	7685422			
Dissolved Bromide (Br-)	mg/L	<1.0	1.0	7685275	<5.0	5.0	7685277			
Dissolved Sulphate (SO4)	mg/L	140	1.0	7685275	580	5.0	7685277			
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate										



BUREAU
VERITAS

Bureau Veritas Job #: C1W2929
Report Date: 2021/11/12

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		RDA326			RDA327			RDA327		
Sampling Date		2021/11/02			2021/11/02			2021/11/02		
	UNITS	P2-I	RDL	QC Batch	P3-II	RDL	QC Batch	P3-II Lab-Dup	RDL	QC Batch
Calculated Parameters										
Hardness (CaCO3)	mg/L	1700	1.0	7679275	610	1.0	7679275			
Inorganics										
Total Ammonia-N	mg/L	19	0.050	7686834	7.0	0.050	7686834			
Conductivity	umho/cm	6900	1.0	7685387	2500	1.0	7685387	2600	1.0	7685387
Total Dissolved Solids	mg/L	4310	10	7685033	1190	10	7684389			
Fluoride (F-)	mg/L	0.76	0.10	7685383	1.3	0.10	7685383	1.3	0.10	7685383
Total Kjeldahl Nitrogen (TKN)	mg/L	20	1.0	7685954	7.5	0.20	7685954			
Total Organic Carbon (TOC)	mg/L	4.8	0.40	7685956	12	0.40	7685956			
Orthophosphate (P)	mg/L	<0.010	0.010	7685191	<0.010	0.010	7685191			
pH	pH	7.70		7685381	7.60		7685381	7.64		7685381
Phenols-4AAP	mg/L	<0.0010	0.0010	7686347	0.045	0.0050	7686347			
Alkalinity (Total as CaCO3)	mg/L	210	1.0	7685385	150	1.0	7685385	150	1.0	7685385
Nitrite (N)	mg/L	<0.010	0.010	7685219	<0.010	0.010	7685219			
Dissolved Chloride (Cl-)	mg/L	1300	20	7685277	450	5.0	7685277			
Nitrate (N)	mg/L	0.20	0.10	7685219	<0.10	0.10	7685219			
Nitrate + Nitrite (N)	mg/L	0.20	0.10	7685219	<0.10	0.10	7685219			
Dissolved Bromide (Br-)	mg/L	<20	20	7685277	<5.0	5.0	7685277			
Dissolved Sulphate (SO4)	mg/L	1500	20	7685277	480	5.0	7685277			
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate										



RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		RDA329			RDA329		
Sampling Date		2021/11/02			2021/11/02		
	UNITS	P3-III	RDL	QC Batch	P3-III Lab-Dup	RDL	QC Batch
Calculated Parameters							
Hardness (CaCO3)	mg/L	1100	1.0	7679275			
Inorganics							
Total Ammonia-N	mg/L	0.94	0.050	7686834			
Conductivity	umho/cm	3400	1.0	7685387			
Total Dissolved Solids	mg/L	1980	10	7684389	1970	10	7684389
Fluoride (F-)	mg/L	0.47	0.10	7685383			
Total Kjeldahl Nitrogen (TKN)	mg/L	1.5	0.10	7685954			
Total Organic Carbon (TOC)	mg/L	4.2	0.40	7685957			
Orthophosphate (P)	mg/L	<0.010	0.010	7685191			
pH	pH	7.63		7685381			
Phenols-4AAP	mg/L	<0.0010	0.0010	7686347			
Alkalinity (Total as CaCO3)	mg/L	270	1.0	7685385			
Nitrite (N)	mg/L	<0.010	0.010	7685219			
Dissolved Chloride (Cl-)	mg/L	610	5.0	7685277			
Nitrate (N)	mg/L	0.17	0.10	7685219			
Nitrate + Nitrite (N)	mg/L	0.17	0.10	7685219			
Dissolved Bromide (Br-)	mg/L	<5.0	5.0	7685277			
Dissolved Sulphate (SO4)	mg/L	590	5.0	7685277			
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate							



BUREAU VERITAS

Bureau Veritas Job #: C1W2929
Report Date: 2021/11/12

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Bureau Veritas ID		RDA317		RDA318		RDA319	RDA320	RDA320		
Sampling Date		2021/11/02		2021/11/02		2021/11/02	2021/11/02	2021/11/02		
	UNITS	57-IR	RDL	57-II	RDL	14-I	45-I	45-I Lab-Dup	RDL	QC Batch
Metals										
Dissolved Aluminum (Al)	ug/L	5000	4.9	180	4.9	9.8	<4.9	<4.9	4.9	7685533
Dissolved Antimony (Sb)	ug/L	<0.50	0.50	<0.50	0.50	<0.50	<0.50	<0.50	0.50	7685533
Dissolved Arsenic (As)	ug/L	3.7	1.0	<1.0	1.0	<1.0	<1.0	<1.0	1.0	7685533
Dissolved Barium (Ba)	ug/L	15	2.0	130	2.0	12	48	46	2.0	7685533
Dissolved Beryllium (Be)	ug/L	<0.40	0.40	<0.40	0.40	<0.40	<0.40	<0.40	0.40	7685533
Dissolved Bismuth (Bi)	ug/L	<1.0	1.0	<1.0	1.0	<1.0	<1.0	<1.0	1.0	7685533
Dissolved Boron (B)	ug/L	470	10	73	10	120	38	38	10	7685533
Dissolved Cadmium (Cd)	ug/L	<0.090	0.090	<0.090	0.090	0.44	<0.090	<0.090	0.090	7685533
Dissolved Calcium (Ca)	ug/L	54000	200	490000	1000	140000	110000	110000	200	7685533
Dissolved Chromium (Cr)	ug/L	<5.0	5.0	<5.0	5.0	<5.0	<5.0	<5.0	5.0	7685533
Dissolved Cobalt (Co)	ug/L	<0.50	0.50	<0.50	0.50	0.76	<0.50	<0.50	0.50	7685533
Dissolved Copper (Cu)	ug/L	<0.90	0.90	8.3	0.90	<0.90	<0.90	<0.90	0.90	7685533
Dissolved Iron (Fe)	ug/L	<100	100	<100	100	<100	<100	<100	100	7685533
Dissolved Lead (Pb)	ug/L	<0.50	0.50	26	0.50	<0.50	<0.50	<0.50	0.50	7685533
Dissolved Lithium (Li)	ug/L	23	5.0	16	5.0	80	27	27	5.0	7685533
Dissolved Magnesium (Mg)	ug/L	590	50	<50	50	120000	36000	36000	50	7685533
Dissolved Manganese (Mn)	ug/L	<2.0	2.0	<2.0	2.0	43	25	25	2.0	7685533
Dissolved Molybdenum (Mo)	ug/L	88	0.50	20	0.50	0.86	<0.50	<0.50	0.50	7685533
Dissolved Nickel (Ni)	ug/L	34	1.0	<1.0	1.0	2.3	<1.0	<1.0	1.0	7685533
Dissolved Phosphorus (P)	ug/L	590	100	<100	100	<100	<100	<100	100	7685533
Dissolved Potassium (K)	ug/L	170000	200	10000	200	4300	2800	2800	200	7685533
Dissolved Selenium (Se)	ug/L	<2.0	2.0	<2.0	2.0	<2.0	<2.0	<2.0	2.0	7685533
Dissolved Silicon (Si)	ug/L	9100	50	700	50	8100	5100	4900	50	7685533
Dissolved Silver (Ag)	ug/L	<0.090	0.090	<0.090	0.090	<0.090	<0.090	<0.090	0.090	7685533
Dissolved Sodium (Na)	ug/L	2600000	500	12000	100	33000	17000	17000	100	7685533
Dissolved Strontium (Sr)	ug/L	910	1.0	500	1.0	2300	2200	2200	1.0	7685533
Dissolved Tellurium (Te)	ug/L	<1.0	1.0	<1.0	1.0	<1.0	<1.0	<1.0	1.0	7685533
Dissolved Thallium (Tl)	ug/L	<0.050	0.050	<0.050	0.050	<0.050	<0.050	<0.050	0.050	7685533
Dissolved Tin (Sn)	ug/L	<1.0	1.0	<1.0	1.0	<1.0	<1.0	<1.0	1.0	7685533
Dissolved Titanium (Ti)	ug/L	<5.0	5.0	<5.0	5.0	<5.0	<5.0	<5.0	5.0	7685533
Dissolved Tungsten (W)	ug/L	21	1.0	2.2	1.0	<1.0	<1.0	<1.0	1.0	7685533
Dissolved Uranium (U)	ug/L	<0.10	0.10	<0.10	0.10	8.8	0.20	0.20	0.10	7685533
Dissolved Vanadium (V)	ug/L	0.99	0.50	4.8	0.50	<0.50	<0.50	<0.50	0.50	7685533
Dissolved Zinc (Zn)	ug/L	<5.0	5.0	7.9	5.0	9.9	13	12	5.0	7685533
Dissolved Zirconium (Zr)	ug/L	<1.0	1.0	<1.0	1.0	<1.0	<1.0	<1.0	1.0	7685533

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



BUREAU VERITAS

Bureau Veritas Job #: C1W2929
Report Date: 2021/11/12

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Bureau Veritas ID		RDA321		RDA322		RDA323	RDA324	RDA325		
Sampling Date		2021/11/02		2021/11/02		2021/11/02	2021/11/02	2021/11/02		
	UNITS	45-II	RDL	76-1	RDL	76-II	76-III	P12	RDL	QC Batch
Metals										
Dissolved Aluminum (Al)	ug/L	14	4.9	42	25	<4.9	<4.9	<4.9	4.9	7685533
Dissolved Antimony (Sb)	ug/L	<0.50	0.50	<2.5	2.5	<0.50	<0.50	<0.50	0.50	7685533
Dissolved Arsenic (As)	ug/L	<1.0	1.0	<5.0	5.0	<1.0	<1.0	1.5	1.0	7685533
Dissolved Barium (Ba)	ug/L	47	2.0	100	10	19	16	31	2.0	7685533
Dissolved Beryllium (Be)	ug/L	<0.40	0.40	<2.0	2.0	<0.40	<0.40	<0.40	0.40	7685533
Dissolved Bismuth (Bi)	ug/L	<1.0	1.0	<5.0	5.0	<1.0	<1.0	<1.0	1.0	7685533
Dissolved Boron (B)	ug/L	56	10	7500	50	77	67	430	10	7685533
Dissolved Cadmium (Cd)	ug/L	<0.090	0.090	<0.45	0.45	0.33	<0.090	<0.090	0.090	7685533
Dissolved Calcium (Ca)	ug/L	120000	200	9800000	10000	120000	120000	120000	200	7685533
Dissolved Chromium (Cr)	ug/L	<5.0	5.0	<25	25	<5.0	<5.0	<5.0	5.0	7685533
Dissolved Cobalt (Co)	ug/L	<0.50	0.50	<2.5	2.5	<0.50	<0.50	<0.50	0.50	7685533
Dissolved Copper (Cu)	ug/L	<0.90	0.90	<4.5	4.5	1.1	<0.90	<0.90	0.90	7685533
Dissolved Iron (Fe)	ug/L	<100	100	<500	500	<100	150	<100	100	7685533
Dissolved Lead (Pb)	ug/L	<0.50	0.50	<2.5	2.5	4.6	1.5	<0.50	0.50	7685533
Dissolved Lithium (Li)	ug/L	27	5.0	18000	250	12	12	31	5.0	7685533
Dissolved Magnesium (Mg)	ug/L	38000	50	2400000	2500	34000	33000	14000	50	7685533
Dissolved Manganese (Mn)	ug/L	20	2.0	1300	10	43	43	2.9	2.0	7685533
Dissolved Molybdenum (Mo)	ug/L	<0.50	0.50	<2.5	2.5	0.96	0.95	14	0.50	7685533
Dissolved Nickel (Ni)	ug/L	<1.0	1.0	<5.0	5.0	3.7	2.3	2.5	1.0	7685533
Dissolved Phosphorus (P)	ug/L	<100	100	<500	500	<100	<100	<100	100	7685533
Dissolved Potassium (K)	ug/L	4500	200	290000	1000	2900	2700	57000	200	7685533
Dissolved Selenium (Se)	ug/L	<2.0	2.0	<10	10	<2.0	<2.0	<2.0	2.0	7685533
Dissolved Silicon (Si)	ug/L	5300	50	3700	250	6300	6300	9700	50	7685533
Dissolved Silver (Ag)	ug/L	<0.090	0.090	<0.45	0.45	<0.090	<0.090	<0.090	0.090	7685533
Dissolved Sodium (Na)	ug/L	57000	100	15000000	5000	120000	80000	240000	100	7685533
Dissolved Strontium (Sr)	ug/L	760	1.0	190000	5.0	840	760	3300	1.0	7685533
Dissolved Tellurium (Te)	ug/L	<1.0	1.0	<5.0	5.0	<1.0	<1.0	<1.0	1.0	7685533
Dissolved Thallium (Tl)	ug/L	<0.050	0.050	<0.25	0.25	<0.050	<0.050	<0.050	0.050	7685533
Dissolved Tin (Sn)	ug/L	<1.0	1.0	<5.0	5.0	<1.0	<1.0	<1.0	1.0	7685533
Dissolved Titanium (Ti)	ug/L	<5.0	5.0	<25	25	<5.0	<5.0	<5.0	5.0	7685533
Dissolved Tungsten (W)	ug/L	<1.0	1.0	<5.0	5.0	<1.0	<1.0	6.7	1.0	7685533
Dissolved Uranium (U)	ug/L	0.78	0.10	1.2	0.50	1.8	1.7	<0.10	0.10	7685533
Dissolved Vanadium (V)	ug/L	<0.50	0.50	<2.5	2.5	<0.50	<0.50	0.66	0.50	7685533
Dissolved Zinc (Zn)	ug/L	48	5.0	<25	25	110	74	<5.0	5.0	7685533
Dissolved Zirconium (Zr)	ug/L	<1.0	1.0	<5.0	5.0	<1.0	<1.0	<1.0	1.0	7685533
RDL = Reportable Detection Limit										
QC Batch = Quality Control Batch										



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Bureau Veritas Job #: C1W2929
Report Date: 2021/11/12

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Bureau Veritas ID		RDA326		RDA327		RDA329		
Sampling Date		2021/11/02		2021/11/02		2021/11/02		
	UNITS	P2-I	RDL	P3-II	RDL	P3-III	RDL	QC Batch
Metals								
Dissolved Aluminum (Al)	ug/L	6.0	4.9	9.9	4.9	<4.9	4.9	7685533
Dissolved Antimony (Sb)	ug/L	<0.50	0.50	<0.50	0.50	<0.50	0.50	7685533
Dissolved Arsenic (As)	ug/L	<1.0	1.0	<1.0	1.0	<1.0	1.0	7685533
Dissolved Barium (Ba)	ug/L	21	2.0	15	2.0	43	2.0	7685533
Dissolved Beryllium (Be)	ug/L	<0.40	0.40	<0.40	0.40	<0.40	0.40	7685533
Dissolved Bismuth (Bi)	ug/L	<1.0	1.0	<1.0	1.0	<1.0	1.0	7685533
Dissolved Boron (B)	ug/L	940	10	790	10	320	10	7685533
Dissolved Cadmium (Cd)	ug/L	<0.090	0.090	<0.090	0.090	<0.090	0.090	7685533
Dissolved Calcium (Ca)	ug/L	520000	1000	190000	200	300000	400	7685533
Dissolved Chromium (Cr)	ug/L	<5.0	5.0	<5.0	5.0	<5.0	5.0	7685533
Dissolved Cobalt (Co)	ug/L	2.2	0.50	<0.50	0.50	1.2	0.50	7685533
Dissolved Copper (Cu)	ug/L	<0.90	0.90	<0.90	0.90	<0.90	0.90	7685533
Dissolved Iron (Fe)	ug/L	170	100	<100	100	1700	100	7685533
Dissolved Lead (Pb)	ug/L	<0.50	0.50	<0.50	0.50	<0.50	0.50	7685533
Dissolved Lithium (Li)	ug/L	230	5.0	49	5.0	58	5.0	7685533
Dissolved Magnesium (Mg)	ug/L	85000	50	33000	50	94000	50	7685533
Dissolved Manganese (Mn)	ug/L	200	2.0	56	2.0	190	2.0	7685533
Dissolved Molybdenum (Mo)	ug/L	<0.50	0.50	0.52	0.50	0.52	0.50	7685533
Dissolved Nickel (Ni)	ug/L	4.0	1.0	<1.0	1.0	2.4	1.0	7685533
Dissolved Phosphorus (P)	ug/L	<100	100	<100	100	<100	100	7685533
Dissolved Potassium (K)	ug/L	43000	200	35000	200	19000	200	7685533
Dissolved Selenium (Se)	ug/L	<2.0	2.0	<2.0	2.0	<2.0	2.0	7685533
Dissolved Silicon (Si)	ug/L	5700	50	12000	50	5700	50	7685533
Dissolved Silver (Ag)	ug/L	<0.090	0.090	<0.090	0.090	<0.090	0.090	7685533
Dissolved Sodium (Na)	ug/L	760000	500	220000	100	280000	100	7685533
Dissolved Strontium (Sr)	ug/L	6400	1.0	3400	1.0	6200	1.0	7685533
Dissolved Tellurium (Te)	ug/L	<1.0	1.0	<1.0	1.0	<1.0	1.0	7685533
Dissolved Thallium (Tl)	ug/L	<0.050	0.050	<0.050	0.050	<0.050	0.050	7685533
Dissolved Tin (Sn)	ug/L	<1.0	1.0	<1.0	1.0	<1.0	1.0	7685533
Dissolved Titanium (Ti)	ug/L	<5.0	5.0	<5.0	5.0	<5.0	5.0	7685533
Dissolved Tungsten (W)	ug/L	<1.0	1.0	1.3	1.0	<1.0	1.0	7685533
Dissolved Uranium (U)	ug/L	2.5	0.10	<0.10	0.10	0.32	0.10	7685533
Dissolved Vanadium (V)	ug/L	<0.50	0.50	<0.50	0.50	<0.50	0.50	7685533
Dissolved Zinc (Zn)	ug/L	<5.0	5.0	<5.0	5.0	<5.0	5.0	7685533
Dissolved Zirconium (Zr)	ug/L	<1.0	1.0	<1.0	1.0	<1.0	1.0	7685533
RDL = Reportable Detection Limit QC Batch = Quality Control Batch								



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Bureau Veritas Job #: C1W2929
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Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

SEMI-VOLATILE ORGANICS BY GC-MS (WATER)

Bureau Veritas ID		RD318	RD322		RD323	RD324		
Sampling Date		2021/11/02	2021/11/02		2021/11/02	2021/11/02		
	UNITS	57-II	76-1	RDL	76-II	76-III	RDL	QC Batch
Semivolatile Organics								
Acenaphthene	ug/L	<2.0	<2.0	2.0	<0.20	<0.20	0.20	7679989
Acenaphthylene	ug/L	<2.0	<2.0	2.0	<0.20	<0.20	0.20	7679989
Anthracene	ug/L	<2.0	<2.0	2.0	<0.20	<0.20	0.20	7679989
Benzo(a)anthracene	ug/L	<2.0	<2.0	2.0	<0.20	<0.20	0.20	7679989
Benzo(a)pyrene	ug/L	<2.0	<2.0	2.0	<0.20	<0.20	0.20	7679989
Benzo(b/j)fluoranthene	ug/L	<2.0	<2.0	2.0	<0.20	<0.20	0.20	7679989
Benzo(g,h,i)perylene	ug/L	<2.0	<2.0	2.0	<0.20	<0.20	0.20	7679989
Benzo(k)fluoranthene	ug/L	<2.0	<2.0	2.0	<0.20	<0.20	0.20	7679989
1-Chloronaphthalene	ug/L	<10	<10	10	<1.0	<1.0	1.0	7679989
2-Chloronaphthalene	ug/L	<5.0	<5.0	5.0	<0.50	<0.50	0.50	7679989
Chrysene	ug/L	<2.0	<2.0	2.0	<0.20	<0.20	0.20	7679989
Dibenzo(a,h)anthracene	ug/L	<2.0	<2.0	2.0	<0.20	<0.20	0.20	7679989
Fluoranthene	ug/L	<2.0	<2.0	2.0	<0.20	<0.20	0.20	7679989
Fluorene	ug/L	<2.0	<2.0	2.0	<0.20	<0.20	0.20	7679989
Indeno(1,2,3-cd)pyrene	ug/L	<2.0	<2.0	2.0	<0.20	<0.20	0.20	7679989
1-Methylnaphthalene	ug/L	<2.0	<2.0	2.0	<0.20	<0.20	0.20	7679989
2-Methylnaphthalene	ug/L	<2.0	<2.0	2.0	<0.20	<0.20	0.20	7679989
Naphthalene	ug/L	2.1	<2.0	2.0	<0.20	<0.20	0.20	7679989
5-Nitroacenaphthene	ug/L	<10	<10	10	<1.0	<1.0	1.0	7679989
Perylene	ug/L	<2.0	<2.0	2.0	<0.20	<0.20	0.20	7679989
Phenanthrene	ug/L	<2.0	<2.0	2.0	<0.20	<0.20	0.20	7679989
Pyrene	ug/L	<2.0	<2.0	2.0	<0.20	<0.20	0.20	7679989
1,2-Dichlorobenzene	ug/L	<5.0	<5.0	5.0	<0.50	<0.50	0.50	7679989
1,3-Dichlorobenzene	ug/L	<5.0	<5.0	5.0	<0.50	<0.50	0.50	7679989
1,4-Dichlorobenzene	ug/L	<5.0	<5.0	5.0	<0.50	<0.50	0.50	7679989
Hexachlorobenzene	ug/L	<5.0	<5.0	5.0	<0.50	<0.50	0.50	7679989
Pentachlorobenzene	ug/L	<5.0	<5.0	5.0	<0.50	<0.50	0.50	7679989
1,2,3,5-Tetrachlorobenzene	ug/L	<5.0	<5.0	5.0	<0.50	<0.50	0.50	7679989
1,2,4,5-Tetrachlorobenzene	ug/L	<5.0	<5.0	5.0	<0.50	<0.50	0.50	7679989
1,2,3-Trichlorobenzene	ug/L	<5.0	<5.0	5.0	<0.50	<0.50	0.50	7679989
1,2,4-Trichlorobenzene	ug/L	<5.0	<5.0	5.0	<0.50	<0.50	0.50	7679989
1,3,5-Trichlorobenzene	ug/L	<5.0	<5.0	5.0	<0.50	<0.50	0.50	7679989
2-Chlorophenol	ug/L	<3.0	<3.0	3.0	<0.30	<0.30	0.30	7679989
4-Chloro-3-Methylphenol	ug/L	<5.0	<5.0	5.0	<0.50	<0.50	0.50	7679989
m/p-Cresol	ug/L	<5.0	<5.0	5.0	<0.50	<0.50	0.50	7679989
o-Cresol	ug/L	<5.0	<5.0	5.0	<0.50	<0.50	0.50	7679989
1,2,3,4-Tetrachlorobenzene	ug/L	<5.0	<5.0	5.0	<0.50	<0.50	0.50	7679989
RDL = Reportable Detection Limit								
QC Batch = Quality Control Batch								



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Bureau Veritas Job #: C1W2929
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Terrapure Environmental
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SEMI-VOLATILE ORGANICS BY GC-MS (WATER)

Bureau Veritas ID		RD318	RD322		RD323	RD324		
Sampling Date		2021/11/02	2021/11/02		2021/11/02	2021/11/02		
	UNITS	57-II	76-1	RDL	76-II	76-III	RDL	QC Batch
2,3-Dichlorophenol	ug/L	<5.0	<5.0	5.0	<0.50	<0.50	0.50	7679989
2,4-Dichlorophenol	ug/L	<3.0	<3.0	3.0	<0.30	<0.30	0.30	7679989
2,5-Dichlorophenol	ug/L	<5.0	<5.0	5.0	<0.50	<0.50	0.50	7679989
2,6-Dichlorophenol	ug/L	<5.0	<5.0	5.0	<0.50	<0.50	0.50	7679989
3,4-Dichlorophenol	ug/L	<5.0	<5.0	5.0	<0.50	<0.50	0.50	7679989
3,5-Dichlorophenol	ug/L	<5.0	<5.0	5.0	<0.50	<0.50	0.50	7679989
2,4-Dimethylphenol	ug/L	<5.0	<5.0	5.0	<0.50	<0.50	0.50	7679989
2,4-Dinitrophenol	ug/L	<20	<20	20	<2.0	<2.0	2.0	7679989
4,6-Dinitro-2-methylphenol	ug/L	<20	<20	20	<2.0	<2.0	2.0	7679989
2-Nitrophenol	ug/L	<5.0	<5.0	5.0	<0.50	<0.50	0.50	7679989
4-Nitrophenol	ug/L	<14	<14	14	<1.4	<1.4	1.4	7679989
Pentachlorophenol	ug/L	<10	<10	10	<1.0	<1.0	1.0	7679989
Phenol	ug/L	<5.0	<5.0	5.0	<0.50	<0.50	0.50	7679989
2,3,4,5-Tetrachlorophenol	ug/L	<4.0	<4.0	4.0	<0.40	<0.40	0.40	7679989
2,3,4,6-Tetrachlorophenol	ug/L	<5.0	<5.0	5.0	<0.50	<0.50	0.50	7679989
2,3,5,6-Tetrachlorophenol	ug/L	<5.0	<5.0	5.0	<0.50	<0.50	0.50	7679989
2,3,4-Trichlorophenol	ug/L	<5.0	<5.0	5.0	<0.50	<0.50	0.50	7679989
2,3,5-Trichlorophenol	ug/L	<5.0	<5.0	5.0	<0.50	<0.50	0.50	7679989
2,3,6-Trichlorophenol	ug/L	<5.0	<5.0	5.0	<0.50	<0.50	0.50	7679989
2,4,5-Trichlorophenol	ug/L	<5.0	<5.0	5.0	<0.50	<0.50	0.50	7679989
2,4,6-Trichlorophenol	ug/L	<5.0	<5.0	5.0	<0.50	<0.50	0.50	7679989
3,4,5-Trichlorophenol	ug/L	<5.0	<5.0	5.0	<0.50	<0.50	0.50	7679989
Benzyl butyl phthalate	ug/L	<5.0	<5.0	5.0	<0.50	<0.50	0.50	7679989
Biphenyl	ug/L	<5.0	<5.0	5.0	<0.50	<0.50	0.50	7679989
Bis(2-chloroethyl)ether	ug/L	<5.0	<5.0	5.0	<0.50	<0.50	0.50	7679989
Bis(2-chloroethoxy)methane	ug/L	<5.0	<5.0	5.0	<0.50	<0.50	0.50	7679989
Bis(2-chloroisopropyl)ether	ug/L	<5.0	<5.0	5.0	<0.50	<0.50	0.50	7679989
Bis(2-ethylhexyl)phthalate	ug/L	<20	<20	20	<2.0	<2.0	2.0	7679989
4-Bromophenyl phenyl ether	ug/L	<3.0	<3.0	3.0	<0.30	<0.30	0.30	7679989
p-Chloroaniline	ug/L	<10	<10	10	<1.0	<1.0	1.0	7679989
4-Chlorophenyl phenyl ether	ug/L	<5.0	<5.0	5.0	<0.50	<0.50	0.50	7679989
Di-N-butyl phthalate	ug/L	<20	<20	20	<2.0	<2.0	2.0	7679989
di-n-octyl phthalate	ug/L	<8.0	<8.0	8.0	<0.80	<0.80	0.80	7679989
2,4-Dinitrotoluene	ug/L	<5.0	<5.0	5.0	<0.50	<0.50	0.50	7679989
Diethyl phthalate	ug/L	<10	<10	10	<1.0	<1.0	1.0	7679989
3,3'-Dichlorobenzidine	ug/L	<5.0	<5.0	5.0	<0.50	<0.50	0.50	7679989
Dimethyl phthalate	ug/L	<10	<10	10	<1.0	<1.0	1.0	7679989
2,6-Dinitrotoluene	ug/L	<5.0	<5.0	5.0	<0.50	<0.50	0.50	7679989

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



SEMI-VOLATILE ORGANICS BY GC-MS (WATER)

Bureau Veritas ID		RD318	RD322		RD323	RD324		
Sampling Date		2021/11/02	2021/11/02		2021/11/02	2021/11/02		
	UNITS	57-II	76-1	RDL	76-II	76-III	RDL	QC Batch
Diphenyl Ether	ug/L	<3.0	<3.0	3.0	<0.30	<0.30	0.30	7679989
Hexachlorobutadiene	ug/L	<4.0	<4.0	4.0	<0.40	<0.40	0.40	7679989
Hexachlorocyclopentadiene	ug/L	<20	<20	20	<2.0	<2.0	2.0	7679989
Hexachloroethane	ug/L	<5.0	<5.0	5.0	<0.50	<0.50	0.50	7679989
Isophorone	ug/L	<5.0	<5.0	5.0	<0.50	<0.50	0.50	7679989
Nitrobenzene	ug/L	<5.0	<5.0	5.0	<0.50	<0.50	0.50	7679989
Nitrosodiphenylamine/Diphenylamine	ug/L	<10	<10	10	<1.0	<1.0	1.0	7679989
N-Nitroso-di-n-propylamine	ug/L	<5.0	<5.0	5.0	<0.50	<0.50	0.50	7679989
Surrogate Recovery (%)								
2,4,6-Tribromophenol	%	89	76		57	52		7679989
2-Fluorobiphenyl	%	78	66		76	74		7679989
2-Fluorophenol	%	37	35		22	21		7679989
D14-Terphenyl	%	101	102		104	105		7679989
D5-Nitrobenzene	%	85	72		83	77		7679989
D5-Phenol	%	18	26		20	18		7679989
RDL = Reportable Detection Limit QC Batch = Quality Control Batch								



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Bureau Veritas Job #: C1W2929
Report Date: 2021/11/12

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

VOLATILE ORGANICS BY GC/MS (WATER)

Bureau Veritas ID		DA318		DA322		DA323		DA324	DA324		
Sampling Date		2021/11/02		2021/11/02		2021/11/02		2021/11/02	2021/11/02		
	UNITS	57-II	RDL	76-1	RDL	76-II	RDL	76-III	76-III Lab-Dup	RDL	QC Batch
Volatile Organics											
Acetone (2-Propanone)	ug/L	12	10	<50	50	<10	10	<10	<10	10	7685001
Benzene	ug/L	1.6	0.10	<0.50	0.50	<0.10	0.10	<0.10	<0.10	0.10	7685001
Bromodichloromethane	ug/L	<0.10	0.10	<0.50	0.50	<0.10	0.10	<0.10	<0.10	0.10	7685001
Acrolein	ug/L	<10	10	<50	50	<10	10	<10	<10	10	7685006
Bromoform	ug/L	<0.20	0.20	<1.0	1.0	<0.20	0.20	<0.20	<0.20	0.20	7685001
Bromomethane	ug/L	<0.50	0.50	<2.5	2.5	<0.50	0.50	<0.50	<0.50	0.50	7685001
Carbon Tetrachloride	ug/L	<0.10	0.10	<0.50	0.50	<0.10	0.10	<0.10	<0.10	0.10	7685001
Chlorobenzene	ug/L	<0.10	0.10	<0.50	0.50	<0.10	0.10	<0.10	<0.10	0.10	7685001
Chloroethane	ug/L	<0.20	0.20	<2.0 (1)	2.0	<0.20	0.20	<2.0 (1)	<2.0 (1)	2.0	7685001
Chloroform	ug/L	<0.10	0.10	<0.50	0.50	<0.10	0.10	<0.10	<0.10	0.10	7685001
Acrylonitrile	ug/L	<5.0	5.0	<25	25	<5.0	5.0	<5.0	<5.0	5.0	7685006
Chloromethane	ug/L	<0.50	0.50	<2.5	2.5	<0.50	0.50	<0.50	<0.50	0.50	7685001
Dibromochloromethane	ug/L	<0.20	0.20	<1.0	1.0	<0.20	0.20	<0.20	<0.20	0.20	7685001
1,2-Dichlorobenzene	ug/L	<0.20	0.20	<1.0	1.0	<0.20	0.20	<0.20	<0.20	0.20	7685001
1,3-Dichlorobenzene	ug/L	<0.20	0.20	<1.0	1.0	<0.20	0.20	<0.20	<0.20	0.20	7685001
1,4-Dichlorobenzene	ug/L	<0.20	0.20	<1.0	1.0	<0.20	0.20	<0.20	<0.20	0.20	7685001
1,1-Dichloroethane	ug/L	0.81	0.10	<0.50	0.50	<0.10	0.10	<0.10	<0.10	0.10	7685001
1,2-Dichloroethane	ug/L	<0.20	0.20	<1.0	1.0	<0.20	0.20	<0.20	<0.20	0.20	7685001
1,1-Dichloroethylene	ug/L	<0.10	0.10	<0.50	0.50	<0.10	0.10	<0.10	<0.10	0.10	7685001
cis-1,2-Dichloroethylene	ug/L	<0.10	0.10	<0.50	0.50	<0.10	0.10	<0.10	<0.10	0.10	7685001
trans-1,2-Dichloroethylene	ug/L	<0.10	0.10	<0.50	0.50	<0.10	0.10	<0.10	<0.10	0.10	7685001
1,2-Dichloropropane	ug/L	<0.10	0.10	<0.50	0.50	<0.10	0.10	<0.10	<0.10	0.10	7685001
cis-1,3-Dichloropropene	ug/L	<0.20	0.20	<1.0	1.0	<0.20	0.20	<0.20	<0.20	0.20	7685001
trans-1,3-Dichloropropene	ug/L	<0.20	0.20	<1.0	1.0	<0.20	0.20	<0.20	<0.20	0.20	7685001
Ethylbenzene	ug/L	0.35	0.10	<0.50	0.50	<0.10	0.10	<0.10	<0.10	0.10	7685001
Ethylene Dibromide	ug/L	<0.20	0.20	<1.0	1.0	<0.20	0.20	<0.20	<0.20	0.20	7685001
Methylene Chloride(Dichloromethane)	ug/L	<0.50	0.50	<2.5	2.5	<0.50	0.50	<0.50	<0.50	0.50	7685001
Methyl Ethyl Ketone (2-Butanone)	ug/L	<5.0	5.0	<25	25	<5.0	5.0	<5.0	<5.0	5.0	7685001
Methyl Isobutyl Ketone	ug/L	<5.0	5.0	<25	25	<5.0	5.0	<5.0	<5.0	5.0	7685001
Methyl t-butyl ether (MTBE)	ug/L	<0.20	0.20	<1.0	1.0	<0.20	0.20	<0.20	<0.20	0.20	7685001
Styrene	ug/L	<0.20	0.20	<1.0	1.0	<0.20	0.20	<0.20	<0.20	0.20	7685001
1,1,1,2-Tetrachloroethane	ug/L	<0.20	0.20	<1.0	1.0	<0.20	0.20	<0.20	<0.20	0.20	7685001
1,1,1,2,2-Tetrachloroethane	ug/L	<0.20	0.20	<1.0	1.0	<0.20	0.20	<0.20	<0.20	0.20	7685001
Tetrachloroethylene	ug/L	<0.10	0.10	<0.50	0.50	<0.10	0.10	<0.10	<0.10	0.10	7685001
Toluene	ug/L	2.4	0.20	<1.0	1.0	<0.20	0.20	<0.20	<0.20	0.20	7685001
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate (1) The detection limit was raised due to matrix interferences.											



VOLATILE ORGANICS BY GC/MS (WATER)

Bureau Veritas ID		DA318		DA322		DA323		DA324	DA324		
Sampling Date		2021/11/02		2021/11/02		2021/11/02		2021/11/02	2021/11/02		
	UNITS	57-II	RDL	76-1	RDL	76-II	RDL	76-III	76-III Lab-Dup	RDL	QC Batch
1,1,1-Trichloroethane	ug/L	<0.10	0.10	<0.50	0.50	<0.10	0.10	<0.10	<0.10	0.10	7685001
1,1,2-Trichloroethane	ug/L	<0.20	0.20	<1.0	1.0	<0.20	0.20	<0.20	<0.20	0.20	7685001
Trichloroethylene	ug/L	0.35	0.10	<0.50	0.50	<0.10	0.10	<0.10	<0.10	0.10	7685001
Trichlorofluoromethane (FREON 11)	ug/L	<0.20	0.20	<1.0	1.0	<0.20	0.20	<0.20	<0.20	0.20	7685001
Vinyl Chloride	ug/L	<0.20	0.20	<1.0	1.0	<0.20	0.20	<0.20	<0.20	0.20	7685001
p+m-Xylene	ug/L	0.96	0.10	<0.50	0.50	<0.10	0.10	<0.10	<0.10	0.10	7685001
Methyl Butyl Ketone (2-Hexanone)	ug/L	<5.0	5.0	<25	25	<5.0	5.0	<5.0	<5.0	5.0	7685006
o-Xylene	ug/L	2.2	0.10	<0.50	0.50	<0.10	0.10	<0.10	<0.10	0.10	7685001
Total Xylenes	ug/L	3.2	0.10	<0.50	0.50	<0.10	0.10	<0.10	<0.10	0.10	7685001
Total Trihalomethanes	ug/L	<0.20	0.20	<1.0	1.0	<0.20	0.20	<0.20	<0.20	0.20	7685001
Surrogate Recovery (%)											
4-Bromofluorobenzene	%	97		98		97		97	99		7685001
D4-1,2-Dichloroethane	%	88		94		94		90	94		7685001
D8-Toluene	%	102		96		100		100	99		7685001
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate											



BUREAU
VERITAS

Bureau Veritas Job #: C1W2929
Report Date: 2021/11/12

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

O.REG 153 OC PESTICIDES (WATER)

Bureau Veritas ID		RDA318		RDA322		RDA323	RDA324		
Sampling Date		2021/11/02		2021/11/02		2021/11/02	2021/11/02		
	UNITS	57-II	RDL	76-1	RDL	76-II	76-III	RDL	QC Batch
Calculated Parameters									
Chlordane (Total)	ug/L	<0.005	0.005	<0.05	0.05	<0.005	<0.005	0.005	7678430
o,p-DDD + p,p-DDD	ug/L	<0.005	0.005	<0.05	0.05	<0.005	<0.005	0.005	7678430
o,p-DDE + p,p-DDE	ug/L	<0.005	0.005	<0.05	0.05	<0.005	<0.005	0.005	7678430
o,p-DDT + p,p-DDT	ug/L	<0.005	0.005	<0.05	0.05	<0.005	<0.005	0.005	7678430
Total Endosulfan	ug/L	<0.005	0.005	<0.05	0.05	<0.005	<0.005	0.005	7678430
Total PCB	ug/L	<0.05	0.05	<0.5	0.5	<0.05	<0.05	0.05	7678430
Pesticides & Herbicides									
Aldrin	ug/L	<0.005	0.005	<0.05	0.05	<0.005	<0.005	0.005	7687640
Dieldrin	ug/L	<0.005	0.005	<0.05	0.05	<0.005	<0.005	0.005	7687640
a-Chlordane	ug/L	<0.005	0.005	<0.05	0.05	<0.005	<0.005	0.005	7687640
g-Chlordane	ug/L	<0.005	0.005	<0.05	0.05	<0.005	<0.005	0.005	7687640
o,p-DDD	ug/L	<0.005	0.005	<0.05	0.05	<0.005	<0.005	0.005	7687640
p,p-DDD	ug/L	<0.005	0.005	<0.05	0.05	<0.005	<0.005	0.005	7687640
o,p-DDE	ug/L	<0.005	0.005	<0.05	0.05	<0.005	<0.005	0.005	7687640
p,p-DDE	ug/L	<0.005	0.005	<0.05	0.05	<0.005	<0.005	0.005	7687640
o,p-DDT	ug/L	<0.005	0.005	<0.05	0.05	<0.005	<0.005	0.005	7687640
p,p-DDT	ug/L	<0.005	0.005	<0.05	0.05	<0.005	<0.005	0.005	7687640
Lindane	ug/L	<0.003	0.003	<0.03	0.03	<0.003	<0.003	0.003	7687640
Endosulfan I (alpha)	ug/L	<0.005	0.005	<0.05	0.05	<0.005	<0.005	0.005	7687640
Endosulfan II (beta)	ug/L	<0.005	0.005	<0.05	0.05	<0.005	<0.005	0.005	7687640
Endrin	ug/L	<0.005	0.005	<0.05	0.05	<0.005	<0.005	0.005	7687640
Heptachlor	ug/L	<0.005	0.005	<0.05	0.05	<0.005	<0.005	0.005	7687640
Heptachlor epoxide	ug/L	<0.005	0.005	<0.05	0.05	<0.005	<0.005	0.005	7687640
Hexachlorobenzene	ug/L	<0.005	0.005	<0.05	0.05	<0.005	<0.005	0.005	7687640
Hexachlorobutadiene	ug/L	<0.009	0.009	<0.09	0.09	<0.009	<0.009	0.009	7687640
Hexachloroethane	ug/L	<0.01	0.01	<0.1	0.1	<0.01	<0.01	0.01	7687640
Methoxychlor	ug/L	<0.01	0.01	<0.1	0.1	<0.01	<0.01	0.01	7687640
Aroclor 1242	ug/L	<0.05	0.05	<0.5	0.5	<0.05	<0.05	0.05	7687640
Aroclor 1248	ug/L	<0.05	0.05	<0.5	0.5	<0.05	<0.05	0.05	7687640
Aroclor 1254	ug/L	<0.05	0.05	<0.5	0.5	<0.05	<0.05	0.05	7687640
Aroclor 1260	ug/L	<0.05	0.05	<0.5	0.5	<0.05	<0.05	0.05	7687640
alpha-BHC	ug/L	<0.005	0.005	<0.05	0.05	<0.005	<0.005	0.005	7687640
beta-BHC	ug/L	<0.005	0.005	<0.05	0.05	<0.005	<0.005	0.005	7687640
Endrin aldehyde	ug/L	<0.005	0.005	<0.05	0.05	<0.005	<0.005	0.005	7687640
Endrin ketone	ug/L	<0.005	0.005	<0.05	0.05	<0.005	<0.005	0.005	7687640
Mirex	ug/L	<0.005	0.005	<0.05	0.05	<0.005	<0.005	0.005	7687640
Toxaphene	ug/L	<0.2	0.2	<2	2	<0.2	<0.2	0.2	7687640
RDL = Reportable Detection Limit QC Batch = Quality Control Batch									



O.REG 153 OC PESTICIDES (WATER)

Bureau Veritas ID		RD318		RD322		RD323	RD324		
Sampling Date		2021/11/02		2021/11/02		2021/11/02	2021/11/02		
	UNITS	57-II	RDL	76-1	RDL	76-II	76-III	RDL	QC Batch
Surrogate Recovery (%)									
2,4,5,6-Tetrachloro-m-xylene	%	57		49 (1)		60	60		7687640
Decachlorobiphenyl	%	92		90		97	97		7687640
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

Bureau Veritas Job #: C1W2929
Report Date: 2021/11/12

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

TEST SUMMARY

Bureau Veritas ID: RDA317
Sample ID: 57-IR
Matrix: Water

Collected: 2021/11/02
Shipped:
Received: 2021/11/03

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7685385	N/A	2021/11/08	Surinder Rai
Anions	IC	7685277	N/A	2021/11/10	Fari Dehdezi
Conductivity	AT	7685387	N/A	2021/11/08	Surinder Rai
Fluoride	ISE	7685383	2021/11/06	2021/11/08	Surinder Rai
Hardness (calculated as CaCO3)		7677400	N/A	2021/11/10	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7685533	N/A	2021/11/09	Azita Fazaeli
Total Ammonia-N	LACH/NH4	7686834	N/A	2021/11/09	Viorica Rotaru
Nitrate & Nitrite as Nitrogen in Water	LACH	7685219	N/A	2021/11/09	Chandra Nandlal
pH	AT	7685381	2021/11/06	2021/11/08	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7686347	N/A	2021/11/08	Deonarine Ramnarine
Orthophosphate	KONE	7685191	N/A	2021/11/09	Avneet Kour Sudan
Total Dissolved Solids	BAL	7685033	2021/11/06	2021/11/08	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7685954	2021/11/07	2021/11/10	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7685957	N/A	2021/11/08	Julianna Castiglione

Bureau Veritas ID: RDA318
Sample ID: 57-II
Matrix: Water

Collected: 2021/11/02
Shipped:
Received: 2021/11/03

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
ABN Compounds in Water by GC/MS	GC/MS	7679989	2021/11/04	2021/11/05	Anh Lieu
Alkalinity	AT	7685385	N/A	2021/11/08	Surinder Rai
Anions	IC	7685275	N/A	2021/11/09	Fari Dehdezi
Biochemical Oxygen Demand (BOD)	DO	7679915	2021/11/04	2021/11/09	Nusrat Naz
Conductivity	AT	7685387	N/A	2021/11/08	Surinder Rai
Fluoride	ISE	7685383	2021/11/06	2021/11/08	Surinder Rai
Hardness (calculated as CaCO3)		7677400	N/A	2021/11/11	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7685533	N/A	2021/11/10	Azita Fazaeli
Total Ammonia-N	LACH/NH4	7686834	N/A	2021/11/09	Viorica Rotaru
Nitrate & Nitrite as Nitrogen in Water	LACH	7685219	N/A	2021/11/09	Chandra Nandlal
OC Pesticides (Selected) & PCB	GC/ECD	7687640	2021/11/08	2021/11/09	Mahmudul Khan
OC Pesticides Summed Parameters	CALC	7678430	N/A	2021/11/08	Automated Statchk
pH	AT	7685381	2021/11/06	2021/11/08	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7686347	N/A	2021/11/08	Deonarine Ramnarine
Orthophosphate	KONE	7685191	N/A	2021/11/09	Avneet Kour Sudan
Total Dissolved Solids	BAL	7685033	2021/11/06	2021/11/08	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7685954	2021/11/07	2021/11/10	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7685956	N/A	2021/11/08	Julianna Castiglione
Volatile Organic Compounds in Water	P&T/MS	7685001	N/A	2021/11/09	Rebecca McClean
Non-Routine Volatile Organic Compounds	P&T/MS	7685006	N/A	2021/11/10	Rebecca McClean



BUREAU
VERITAS

Bureau Veritas Job #: C1W2929
Report Date: 2021/11/12

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

TEST SUMMARY

Bureau Veritas ID: RDA319
Sample ID: 14-I
Matrix: Water

Collected: 2021/11/02
Shipped:
Received: 2021/11/03

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7685385	N/A	2021/11/08	Surinder Rai
Anions	IC	7685275	N/A	2021/11/09	Fari Dehdezi
Conductivity	AT	7685387	N/A	2021/11/08	Surinder Rai
Fluoride	ISE	7685383	2021/11/06	2021/11/08	Surinder Rai
Hardness (calculated as CaCO3)		7679275	N/A	2021/11/10	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7685533	N/A	2021/11/09	Azita Fazaeli
Total Ammonia-N	LACH/NH4	7686834	N/A	2021/11/09	Viorica Rotaru
Nitrate & Nitrite as Nitrogen in Water	LACH	7685219	N/A	2021/11/09	Chandra Nandlal
pH	AT	7685381	2021/11/06	2021/11/08	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7686329	N/A	2021/11/08	Deonarine Ramnarine
Orthophosphate	KONE	7685191	N/A	2021/11/09	Avneet Kour Sudan
Total Dissolved Solids	BAL	7685033	2021/11/06	2021/11/08	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7686041	2021/11/07	2021/11/09	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7684633	N/A	2021/11/08	Julianna Castiglione

Bureau Veritas ID: RDA320
Sample ID: 45-I
Matrix: Water

Collected: 2021/11/02
Shipped:
Received: 2021/11/03

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7685385	N/A	2021/11/08	Surinder Rai
Anions	IC	7685277	N/A	2021/11/10	Fari Dehdezi
Conductivity	AT	7685387	N/A	2021/11/08	Surinder Rai
Fluoride	ISE	7685383	2021/11/06	2021/11/08	Surinder Rai
Hardness (calculated as CaCO3)		7679275	N/A	2021/11/10	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7685533	N/A	2021/11/09	Azita Fazaeli
Total Ammonia-N	LACH/NH4	7686834	N/A	2021/11/09	Viorica Rotaru
Nitrate & Nitrite as Nitrogen in Water	LACH	7685219	N/A	2021/11/09	Chandra Nandlal
pH	AT	7685381	2021/11/06	2021/11/08	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7686347	N/A	2021/11/08	Deonarine Ramnarine
Orthophosphate	KONE	7685191	N/A	2021/11/09	Avneet Kour Sudan
Total Dissolved Solids	BAL	7685033	2021/11/06	2021/11/08	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7685954	2021/11/07	2021/11/10	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7685956	N/A	2021/11/08	Julianna Castiglione

Bureau Veritas ID: RDA320 Dup
Sample ID: 45-I
Matrix: Water

Collected: 2021/11/02
Shipped:
Received: 2021/11/03

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dissolved Metals by ICPMS	ICP/MS	7685533	N/A	2021/11/09	Azita Fazaeli



BUREAU
VERITAS

Bureau Veritas Job #: C1W2929
Report Date: 2021/11/12

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

TEST SUMMARY

Bureau Veritas ID: RDA321
Sample ID: 45-II
Matrix: Water

Collected: 2021/11/02
Shipped:
Received: 2021/11/03

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7685385	N/A	2021/11/08	Surinder Rai
Anions	IC	7685275	N/A	2021/11/09	Fari Dehdezi
Conductivity	AT	7685387	N/A	2021/11/08	Surinder Rai
Fluoride	ISE	7685383	2021/11/06	2021/11/08	Surinder Rai
Hardness (calculated as CaCO3)		7679275	N/A	2021/11/10	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7685533	N/A	2021/11/09	Azita Fazaeli
Total Ammonia-N	LACH/NH4	7686834	N/A	2021/11/09	Viorica Rotaru
Nitrate & Nitrite as Nitrogen in Water	LACH	7685219	N/A	2021/11/09	Chandra Nandlal
pH	AT	7685381	2021/11/06	2021/11/08	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7686347	N/A	2021/11/08	Deonarine Ramnarine
Orthophosphate	KONE	7685191	N/A	2021/11/09	Avneet Kour Sudan
Total Dissolved Solids	BAL	7684389	2021/11/06	2021/11/08	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7685954	2021/11/07	2021/11/09	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7685956	N/A	2021/11/08	Julianna Castiglione

Bureau Veritas ID: RDA321 Dup
Sample ID: 45-II
Matrix: Water

Collected: 2021/11/02
Shipped:
Received: 2021/11/03

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Kjeldahl Nitrogen in Water	SKAL	7685954	2021/11/07	2021/11/09	Massarat Jan

Bureau Veritas ID: RDA322
Sample ID: 76-1
Matrix: Water

Collected: 2021/11/02
Shipped:
Received: 2021/11/03

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
ABN Compounds in Water by GC/MS	GC/MS	7679989	2021/11/04	2021/11/05	Anh Lieu
Alkalinity	AT	7685385	N/A	2021/11/08	Surinder Rai
Anions	IC	7685275	N/A	2021/11/09	Fari Dehdezi
Conductivity	AT	7685387	N/A	2021/11/08	Surinder Rai
Fluoride	ISE	7685383	2021/11/06	2021/11/08	Surinder Rai
Hardness (calculated as CaCO3)		7679275	N/A	2021/11/11	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7685533	N/A	2021/11/10	Azita Fazaeli
Total Ammonia-N	LACH/NH4	7686834	N/A	2021/11/09	Viorica Rotaru
Nitrate & Nitrite as Nitrogen in Water	LACH	7685219	N/A	2021/11/10	Chandra Nandlal
OC Pesticides (Selected) & PCB	GC/ECD	7687640	2021/11/08	2021/11/09	Mahmudul Khan
OC Pesticides Summed Parameters	CALC	7678430	N/A	2021/11/08	Automated Statchk
pH	AT	7685381	2021/11/06	2021/11/08	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7686347	N/A	2021/11/08	Deonarine Ramnarine
Orthophosphate	KONE	7685191	N/A	2021/11/09	Avneet Kour Sudan
Total Dissolved Solids	BAL	7684389	2021/11/06	2021/11/08	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7685954	2021/11/07	2021/11/10	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7685956	N/A	2021/11/08	Julianna Castiglione
Volatile Organic Compounds in Water	P&T/MS	7685001	N/A	2021/11/09	Rebecca McClean



BUREAU
VERITAS

Bureau Veritas Job #: C1W2929
Report Date: 2021/11/12

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

TEST SUMMARY

Bureau Veritas ID: RDA322
Sample ID: 76-1
Matrix: Water

Collected: 2021/11/02
Shipped:
Received: 2021/11/03

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Non-Routine Volatile Organic Compounds	P&T/MS	7685006	N/A	2021/11/10	Rebecca McClean

Bureau Veritas ID: RDA323
Sample ID: 76-II
Matrix: Water

Collected: 2021/11/02
Shipped:
Received: 2021/11/03

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
ABN Compounds in Water by GC/MS	GC/MS	7679989	2021/11/04	2021/11/05	Anh Lieu
Alkalinity	AT	7685385	N/A	2021/11/08	Surinder Rai
Anions	IC	7685275	N/A	2021/11/09	Fari Dehdezi
Conductivity	AT	7685387	N/A	2021/11/08	Surinder Rai
Fluoride	ISE	7685383	2021/11/06	2021/11/08	Surinder Rai
Hardness (calculated as CaCO3)		7679275	N/A	2021/11/10	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7685533	N/A	2021/11/09	Azita Fazaeli
Total Ammonia-N	LACH/NH4	7686834	N/A	2021/11/09	Viorica Rotaru
Nitrate & Nitrite as Nitrogen in Water	LACH	7685219	N/A	2021/11/09	Chandra Nandlal
OC Pesticides (Selected) & PCB	GC/ECD	7687640	2021/11/08	2021/11/09	Mahmudul Khan
OC Pesticides Summed Parameters	CALC	7678430	N/A	2021/11/08	Automated Statchk
pH	AT	7685381	2021/11/06	2021/11/08	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7686347	N/A	2021/11/08	Deonarine Ramnarine
Orthophosphate	KONE	7685191	N/A	2021/11/09	Avneet Kour Sudan
Total Dissolved Solids	BAL	7684389	2021/11/06	2021/11/08	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7685954	2021/11/07	2021/11/10	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7685956	N/A	2021/11/08	Julianna Castiglione
Volatile Organic Compounds in Water	P&T/MS	7685001	N/A	2021/11/09	Rebecca McClean
Non-Routine Volatile Organic Compounds	P&T/MS	7685006	N/A	2021/11/10	Rebecca McClean

Bureau Veritas ID: RDA323 Dup
Sample ID: 76-II
Matrix: Water

Collected: 2021/11/02
Shipped:
Received: 2021/11/03

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Ammonia-N	LACH/NH4	7686834	N/A	2021/11/09	Viorica Rotaru

Bureau Veritas ID: RDA324
Sample ID: 76-III
Matrix: Water

Collected: 2021/11/02
Shipped:
Received: 2021/11/03

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
ABN Compounds in Water by GC/MS	GC/MS	7679989	2021/11/04	2021/11/05	Anh Lieu
Alkalinity	AT	7685385	N/A	2021/11/08	Surinder Rai
Anions	IC	7685275	N/A	2021/11/09	Fari Dehdezi
Conductivity	AT	7685387	N/A	2021/11/08	Surinder Rai
Fluoride	ISE	7685383	2021/11/06	2021/11/08	Surinder Rai
Hardness (calculated as CaCO3)		7679275	N/A	2021/11/10	Automated Statchk



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VERITAS

Bureau Veritas Job #: C1W2929
Report Date: 2021/11/12

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

TEST SUMMARY

Bureau Veritas ID: RDA324
Sample ID: 76-III
Matrix: Water

Collected: 2021/11/02
Shipped:
Received: 2021/11/03

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dissolved Metals by ICPMS	ICP/MS	7685533	N/A	2021/11/09	Azita Fazaeli
Total Ammonia-N	LACH/NH4	7686834	N/A	2021/11/09	Viorica Rotaru
Nitrate & Nitrite as Nitrogen in Water	LACH	7685219	N/A	2021/11/09	Chandra Nandlal
OC Pesticides (Selected) & PCB	GC/ECD	7687640	2021/11/08	2021/11/09	Mahmudul Khan
OC Pesticides Summed Parameters	CALC	7678430	N/A	2021/11/08	Automated Statchk
pH	AT	7685381	2021/11/06	2021/11/08	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7686347	N/A	2021/11/08	Deonarine Ramnarine
Orthophosphate	KONE	7685191	N/A	2021/11/09	Avneet Kour Sudan
Total Dissolved Solids	BAL	7683859	2021/11/06	2021/11/08	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7685954	2021/11/07	2021/11/10	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7685956	N/A	2021/11/08	Julianna Castiglione
Volatile Organic Compounds in Water	P&T/MS	7685001	N/A	2021/11/09	Rebecca McClean
Non-Routine Volatile Organic Compounds	P&T/MS	7685006	N/A	2021/11/10	Rebecca McClean

Bureau Veritas ID: RDA324 Dup
Sample ID: 76-III
Matrix: Water

Collected: 2021/11/02
Shipped:
Received: 2021/11/03

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Volatile Organic Compounds in Water	P&T/MS	7685001	N/A	2021/11/09	Rebecca McClean
Non-Routine Volatile Organic Compounds	P&T/MS	7685006	N/A	2021/11/10	Rebecca McClean

Bureau Veritas ID: RDA325
Sample ID: P12
Matrix: Water

Collected: 2021/11/02
Shipped:
Received: 2021/11/03

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7685385	N/A	2021/11/08	Surinder Rai
Anions	IC	7685277	N/A	2021/11/10	Fari Dehdezi
Conductivity	AT	7685387	N/A	2021/11/08	Surinder Rai
Fluoride	ISE	7685383	2021/11/06	2021/11/08	Surinder Rai
Hardness (calculated as CaCO3)		7679275	N/A	2021/11/10	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7685533	N/A	2021/11/09	Azita Fazaeli
Total Ammonia-N	LACH/NH4	7686834	N/A	2021/11/09	Viorica Rotaru
Nitrate & Nitrite as Nitrogen in Water	LACH	7685422	N/A	2021/11/09	Chandra Nandlal
pH	AT	7685381	2021/11/06	2021/11/08	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7686347	N/A	2021/11/08	Deonarine Ramnarine
Orthophosphate	KONE	7685191	N/A	2021/11/09	Avneet Kour Sudan
Total Dissolved Solids	BAL	7685033	2021/11/06	2021/11/08	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7685954	2021/11/07	2021/11/10	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7685956	N/A	2021/11/08	Julianna Castiglione



BUREAU
VERITAS

Bureau Veritas Job #: C1W2929
Report Date: 2021/11/12

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

TEST SUMMARY

Bureau Veritas ID: RDA325 Dup
Sample ID: P12
Matrix: Water

Collected: 2021/11/02
Shipped:
Received: 2021/11/03

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Orthophosphate	KONE	7685191	N/A	2021/11/09	Avneet Kour Sudan

Bureau Veritas ID: RDA326
Sample ID: P2-I
Matrix: Water

Collected: 2021/11/02
Shipped:
Received: 2021/11/03

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7685385	N/A	2021/11/08	Surinder Rai
Anions	IC	7685277	N/A	2021/11/10	Fari Dehdezi
Conductivity	AT	7685387	N/A	2021/11/08	Surinder Rai
Fluoride	ISE	7685383	2021/11/06	2021/11/08	Surinder Rai
Hardness (calculated as CaCO3)		7679275	N/A	2021/11/10	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7685533	N/A	2021/11/09	Azita Fazaeli
Total Ammonia-N	LACH/NH4	7686834	N/A	2021/11/09	Viorica Rotaru
Nitrate & Nitrite as Nitrogen in Water	LACH	7685219	N/A	2021/11/09	Chandra Nandlal
pH	AT	7685381	2021/11/06	2021/11/08	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7686347	N/A	2021/11/08	Deonarine Ramnarine
Orthophosphate	KONE	7685191	N/A	2021/11/09	Avneet Kour Sudan
Total Dissolved Solids	BAL	7685033	2021/11/06	2021/11/08	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7685954	2021/11/07	2021/11/10	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7685956	N/A	2021/11/08	Julianna Castiglione

Bureau Veritas ID: RDA327
Sample ID: P3-II
Matrix: Water

Collected: 2021/11/02
Shipped:
Received: 2021/11/03

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7685385	N/A	2021/11/08	Surinder Rai
Anions	IC	7685277	N/A	2021/11/10	Fari Dehdezi
Conductivity	AT	7685387	N/A	2021/11/08	Surinder Rai
Fluoride	ISE	7685383	2021/11/06	2021/11/08	Surinder Rai
Hardness (calculated as CaCO3)		7679275	N/A	2021/11/10	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7685533	N/A	2021/11/09	Azita Fazaeli
Total Ammonia-N	LACH/NH4	7686834	N/A	2021/11/09	Viorica Rotaru
Nitrate & Nitrite as Nitrogen in Water	LACH	7685219	N/A	2021/11/09	Chandra Nandlal
pH	AT	7685381	2021/11/06	2021/11/08	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7686347	N/A	2021/11/08	Deonarine Ramnarine
Orthophosphate	KONE	7685191	N/A	2021/11/09	Avneet Kour Sudan
Total Dissolved Solids	BAL	7684389	2021/11/06	2021/11/08	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7685954	2021/11/07	2021/11/10	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7685956	N/A	2021/11/08	Julianna Castiglione



BUREAU
VERITAS

Bureau Veritas Job #: C1W2929
Report Date: 2021/11/12

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

TEST SUMMARY

Bureau Veritas ID: RDA327 Dup
Sample ID: P3-II
Matrix: Water

Collected: 2021/11/02
Shipped:
Received: 2021/11/03

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7685385	N/A	2021/11/08	Surinder Rai
Conductivity	AT	7685387	N/A	2021/11/08	Surinder Rai
Fluoride	ISE	7685383	2021/11/06	2021/11/08	Surinder Rai
pH	AT	7685381	2021/11/06	2021/11/08	Surinder Rai

Bureau Veritas ID: RDA329
Sample ID: P3-III
Matrix: Water

Collected: 2021/11/02
Shipped:
Received: 2021/11/03

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7685385	N/A	2021/11/08	Surinder Rai
Anions	IC	7685277	N/A	2021/11/10	Fari Dehdezi
Conductivity	AT	7685387	N/A	2021/11/08	Surinder Rai
Fluoride	ISE	7685383	2021/11/06	2021/11/08	Surinder Rai
Hardness (calculated as CaCO3)		7679275	N/A	2021/11/10	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7685533	N/A	2021/11/09	Azita Fazaeli
Total Ammonia-N	LACH/NH4	7686834	N/A	2021/11/09	Viorica Rotaru
Nitrate & Nitrite as Nitrogen in Water	LACH	7685219	N/A	2021/11/09	Chandra Nandlal
pH	AT	7685381	2021/11/06	2021/11/08	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7686347	N/A	2021/11/09	Deonarine Ramnarine
Orthophosphate	KONE	7685191	N/A	2021/11/09	Avneet Kour Sudan
Total Dissolved Solids	BAL	7684389	2021/11/06	2021/11/08	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7685954	2021/11/07	2021/11/10	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7685957	N/A	2021/11/08	Julianna Castiglione

Bureau Veritas ID: RDA329 Dup
Sample ID: P3-III
Matrix: Water

Collected: 2021/11/02
Shipped:
Received: 2021/11/03

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Dissolved Solids	BAL	7684389	2021/11/06	2021/11/08	Shaneil Hall



GENERAL COMMENTS

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

Package 1	2.7°C
Package 2	6.0°C
Package 3	0.7°C
Package 4	6.3°C

Sample RDA318 [57-II] : ABN analysis: Due to the nature of the sample matrix, sample required dilution. Detection limits were adjusted accordingly.

Sample RDA322 [76-1] : ABN analysis: Due to the nature of the sample matrix, a smaller than usual portion of the sample was used for extraction. Detection limits were adjusted accordingly.

VOC Water Analysis: Due to foaming, sample required dilution. The detection limits were adjusted accordingly.

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

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

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

Bureau Veritas Job #: C1W2929

Report Date: 2021/11/12

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
7679989	2,4,6-Tribromophenol	2021/11/04	88	10 - 130	88	10 - 130	74	%				
7679989	2-Fluorobiphenyl	2021/11/04	66	30 - 130	60	30 - 130	71	%				
7679989	2-Fluorophenol	2021/11/04	42	10 - 130	45	10 - 130	42	%				
7679989	D14-Terphenyl	2021/11/04	94	30 - 130	97	30 - 130	94	%				
7679989	D5-Nitrobenzene	2021/11/04	86	30 - 130	87	30 - 130	87	%				
7679989	D5-Phenol	2021/11/04	28	10 - 130	30	10 - 130	27	%				
7685001	4-Bromofluorobenzene	2021/11/09	100	70 - 130	101	70 - 130	95	%				
7685001	D4-1,2-Dichloroethane	2021/11/09	88	70 - 130	90	70 - 130	87	%				
7685001	D8-Toluene	2021/11/09	103	70 - 130	103	70 - 130	101	%				
7687640	2,4,5,6-Tetrachloro-m-xylene	2021/11/09	56	50 - 130	46 (2)	50 - 130	74	%				
7687640	Decachlorobiphenyl	2021/11/09	91	50 - 130	92	50 - 130	93	%				
7679915	Total BOD	2021/11/09					<2	mg/L	13	30	94	80 - 120
7679989	1,2,3,4-Tetrachlorobenzene	2021/11/04	59	30 - 130	53	30 - 130	<0.50	ug/L	NC	40		
7679989	1,2,3,5-Tetrachlorobenzene	2021/11/04	60	30 - 130	53	30 - 130	<0.50	ug/L	NC	40		
7679989	1,2,3-Trichlorobenzene	2021/11/04	58	30 - 130	54	30 - 130	<0.50	ug/L	NC	40		
7679989	1,2,4,5-Tetrachlorobenzene	2021/11/04	59	30 - 130	53	30 - 130	<0.50	ug/L	NC	40		
7679989	1,2,4-Trichlorobenzene	2021/11/04	56	30 - 130	51	30 - 130	<0.50	ug/L	NC	40		
7679989	1,2-Dichlorobenzene	2021/11/04	61	30 - 130	58	30 - 130	<0.50	ug/L	NC	40		
7679989	1,3,5-Trichlorobenzene	2021/11/04	68	30 - 130	65	30 - 130	<0.50	ug/L	NC	40		
7679989	1,3-Dichlorobenzene	2021/11/04	57	30 - 130	53	30 - 130	<0.50	ug/L	NC	40		
7679989	1,4-Dichlorobenzene	2021/11/04	60	30 - 130	57	30 - 130	<0.50	ug/L	NC	40		
7679989	1-Chloronaphthalene	2021/11/04	62	30 - 130	57	30 - 130	<1.0	ug/L	NC	40		
7679989	1-Methylnaphthalene	2021/11/04	73	30 - 130	67	30 - 130	<0.20	ug/L	NC	40		
7679989	2,3,4,5-Tetrachlorophenol	2021/11/04	83	10 - 130	83	10 - 130	<0.40	ug/L	NC	40		
7679989	2,3,4,6-Tetrachlorophenol	2021/11/04	97	10 - 130	101	10 - 130	<0.50	ug/L	NC	40		
7679989	2,3,4-Trichlorophenol	2021/11/04	83	10 - 130	87	10 - 130	<0.50	ug/L	NC	40		
7679989	2,3,5,6-Tetrachlorophenol	2021/11/04	82	10 - 130	83	10 - 130	<0.50	ug/L	NC	40		
7679989	2,3,5-Trichlorophenol	2021/11/04	91	10 - 130	95	10 - 130	<0.50	ug/L	NC	40		
7679989	2,3,6-Trichlorophenol	2021/11/04	84	10 - 130	86	10 - 130	<0.50	ug/L	NC	40		
7679989	2,3-Dichlorophenol	2021/11/04	76	10 - 130	75	10 - 130	<0.50	ug/L	NC	40		
7679989	2,4,5-Trichlorophenol	2021/11/04	92	10 - 130	92	10 - 130	<0.50	ug/L	NC	40		



BUREAU
VERITAS

Bureau Veritas Job #: C1W2929

Report Date: 2021/11/12

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
7679989	2,4,6-Trichlorophenol	2021/11/04	89	10 - 130	93	10 - 130	<0.50	ug/L	NC	40		
7679989	2,4-Dichlorophenol	2021/11/04	81	10 - 130	81	10 - 130	<0.30	ug/L	NC	40		
7679989	2,4-Dimethylphenol	2021/11/04	49	10 - 130	54	10 - 130	<0.50	ug/L	NC	40		
7679989	2,4-Dinitrophenol	2021/11/04	80	10 - 130	84	10 - 130	<2.0	ug/L	NC	40		
7679989	2,4-Dinitrotoluene	2021/11/04	100	30 - 130	102	30 - 130	<0.50	ug/L	NC	40		
7679989	2,5-Dichlorophenol	2021/11/04	79	10 - 130	81	10 - 130	<0.50	ug/L	NC	40		
7679989	2,6-Dichlorophenol	2021/11/04	77	10 - 130	78	10 - 130	<0.50	ug/L	NC	40		
7679989	2,6-Dinitrotoluene	2021/11/04	90	30 - 130	93	30 - 130	<0.50	ug/L	NC	40		
7679989	2-Chloronaphthalene	2021/11/04	75	30 - 130	69	30 - 130	<0.50	ug/L	NC	40		
7679989	2-Chlorophenol	2021/11/04	77	10 - 130	78	10 - 130	<0.30	ug/L	NC	40		
7679989	2-Methylnaphthalene	2021/11/04	69	30 - 130	65	30 - 130	<0.20	ug/L	NC	40		
7679989	2-Nitrophenol	2021/11/04	86	10 - 130	87	10 - 130	<0.50	ug/L	NC	40		
7679989	3,3'-Dichlorobenzidine	2021/11/04	87	30 - 130	90	30 - 130	<0.50	ug/L	NC	40		
7679989	3,4,5-Trichlorophenol	2021/11/04	88	10 - 130	88	10 - 130	<0.50	ug/L	NC	40		
7679989	3,4-Dichlorophenol	2021/11/04	95	10 - 130	99	10 - 130	<0.50	ug/L	NC	40		
7679989	3,5-Dichlorophenol	2021/11/04	101	10 - 130	102	10 - 130	<0.50	ug/L	NC	40		
7679989	4,6-Dinitro-2-methylphenol	2021/11/04	114	10 - 130	120	10 - 130	<2.0	ug/L	NC	40		
7679989	4-Bromophenyl phenyl ether	2021/11/04	81	30 - 130	77	30 - 130	<0.30	ug/L	NC	40		
7679989	4-Chloro-3-Methylphenol	2021/11/04	76	10 - 130	76	10 - 130	<0.50	ug/L	NC	40		
7679989	4-Chlorophenyl phenyl ether	2021/11/04	77	30 - 130	73	30 - 130	<0.50	ug/L	NC	40		
7679989	4-Nitrophenol	2021/11/04	20	10 - 130	21	10 - 130	<1.4	ug/L	NC	40		
7679989	5-Nitroacenaphthene	2021/11/04	100	30 - 130	102	30 - 130	<1.0	ug/L				
7679989	Acenaphthene	2021/11/04	87	30 - 130	82	30 - 130	<0.20	ug/L	NC	40		
7679989	Acenaphthylene	2021/11/04	85	30 - 130	81	30 - 130	<0.20	ug/L	NC	40		
7679989	Anthracene	2021/11/04	90	30 - 130	90	30 - 130	<0.20	ug/L	NC	40		
7679989	Benzo(a)anthracene	2021/11/04	100	30 - 130	101	30 - 130	<0.20	ug/L	NC	40		
7679989	Benzo(a)pyrene	2021/11/04	105	30 - 130	102	30 - 130	<0.20	ug/L	NC	40		
7679989	Benzo(b,j)fluoranthene	2021/11/04	99	30 - 130	98	30 - 130	<0.20	ug/L	NC	40		
7679989	Benzo(g,h,i)perylene	2021/11/04	100	30 - 130	103	30 - 130	<0.20	ug/L	NC	40		
7679989	Benzo(k)fluoranthene	2021/11/04	104	30 - 130	101	30 - 130	<0.20	ug/L	NC	40		
7679989	Benzyl butyl phthalate	2021/11/04	98	30 - 130	101	30 - 130	<0.50	ug/L	NC	40		



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			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
7679989	Biphenyl	2021/11/04	77	30 - 130	72	30 - 130	<0.50	ug/L	NC	40		
7679989	Bis(2-chloroethoxy)methane	2021/11/04	75	30 - 130	75	30 - 130	<0.50	ug/L	NC	40		
7679989	Bis(2-chloroethyl)ether	2021/11/04	85	30 - 130	83	30 - 130	<0.50	ug/L	NC	40		
7679989	Bis(2-chloroisopropyl)ether	2021/11/04	78	30 - 130	76	30 - 130	<0.50	ug/L	NC	40		
7679989	Bis(2-ethylhexyl)phthalate	2021/11/04	97	30 - 130	95	30 - 130	<2.0	ug/L	NC	40		
7679989	Chrysene	2021/11/04	97	30 - 130	105	30 - 130	<0.20	ug/L	NC	40		
7679989	Dibenzo(a,h)anthracene	2021/11/04	108	30 - 130	108	30 - 130	<0.20	ug/L	NC	40		
7679989	Diethyl phthalate	2021/11/04	88	30 - 130	92	30 - 130	<1.0	ug/L	NC	40		
7679989	Dimethyl phthalate	2021/11/04	90	30 - 130	93	30 - 130	<1.0	ug/L	NC	40		
7679989	Di-N-butyl phthalate	2021/11/04	100	30 - 130	99	30 - 130	<2.0	ug/L	NC	40		
7679989	di-n-octyl phthalate	2021/11/04	106	30 - 130	106	30 - 130	<0.80	ug/L	NC	40		
7679989	Diphenyl Ether	2021/11/04	77	30 - 130	71	30 - 130	<0.30	ug/L	NC	40		
7679989	Fluoranthene	2021/11/04	95	30 - 130	96	30 - 130	<0.20	ug/L	NC	40		
7679989	Fluorene	2021/11/04	92	30 - 130	89	30 - 130	<0.20	ug/L	NC	40		
7679989	Hexachlorobenzene	2021/11/04	84	30 - 130	83	30 - 130	<0.50	ug/L	NC	40		
7679989	Hexachlorobutadiene	2021/11/04	55	30 - 130	52	30 - 130	<0.40	ug/L	NC	40		
7679989	Hexachlorocyclopentadiene	2021/11/04	61	30 - 130	57	30 - 130	<2.0	ug/L	NC	40		
7679989	Hexachloroethane	2021/11/04	61	30 - 130	51	30 - 130	<0.50	ug/L	NC	40		
7679989	Indeno(1,2,3-cd)pyrene	2021/11/04	104	30 - 130	102	30 - 130	<0.20	ug/L	NC	40		
7679989	Isophorone	2021/11/04	86	30 - 130	87	30 - 130	<0.50	ug/L	NC	40		
7679989	m/p-Cresol	2021/11/04	60	10 - 130	63	10 - 130	<0.50	ug/L	NC	40		
7679989	Naphthalene	2021/11/04	68	30 - 130	65	30 - 130	<0.20	ug/L	NC	40		
7679989	Nitrobenzene	2021/11/04	81	30 - 130	78	30 - 130	<0.50	ug/L	NC	40		
7679989	Nitrosodiphenylamine/Diphenylamine	2021/11/04	119	30 - 130	120	30 - 130	<1.0	ug/L	NC	40		
7679989	N-Nitroso-di-n-propylamine	2021/11/04	111	30 - 130	112	30 - 130	<0.50	ug/L	NC	40		
7679989	o-Cresol	2021/11/04	69	10 - 130	72	10 - 130	<0.50	ug/L	NC	40		
7679989	p-Chloroaniline	2021/11/04	91	30 - 130	85	30 - 130	<1.0	ug/L	NC	40		
7679989	Pentachlorobenzene	2021/11/04	66	30 - 130	55	30 - 130	<0.50	ug/L	NC	40		
7679989	Pentachlorophenol	2021/11/04	62	10 - 130	66	10 - 130	<1.0	ug/L	NC	40		
7679989	Perylene	2021/11/04	99	30 - 130	98	30 - 130	<0.20	ug/L	NC	40		
7679989	Phenanthrene	2021/11/04	94	30 - 130	94	30 - 130	<0.20	ug/L	NC	40		



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			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
7679989	Phenol	2021/11/04	31	10 - 130	32	10 - 130	<0.50	ug/L	NC	40		
7679989	Pyrene	2021/11/04	108	30 - 130	110	30 - 130	<0.20	ug/L	NC	40		
7683859	Total Dissolved Solids	2021/11/08					<10	mg/L	1.9	25	100	90 - 110
7684389	Total Dissolved Solids	2021/11/08					<10	mg/L	0.25	25	100	90 - 110
7684633	Total Organic Carbon (TOC)	2021/11/08	97	80 - 120	95	80 - 120	<0.40	mg/L	0.18	20		
7685001	1,1,1,2-Tetrachloroethane	2021/11/09	104	70 - 130	106	70 - 130	<0.20	ug/L	NC	30		
7685001	1,1,1-Trichloroethane	2021/11/09	106	70 - 130	106	70 - 130	<0.10	ug/L	NC	30		
7685001	1,1,2,2-Tetrachloroethane	2021/11/09	95	70 - 130	93	70 - 130	<0.20	ug/L	NC	30		
7685001	1,1,2-Trichloroethane	2021/11/09	102	70 - 130	101	70 - 130	<0.20	ug/L	NC	30		
7685001	1,1-Dichloroethane	2021/11/09	95	70 - 130	96	70 - 130	<0.10	ug/L	NC	30		
7685001	1,1-Dichloroethylene	2021/11/09	99	70 - 130	101	70 - 130	<0.10	ug/L	NC	30		
7685001	1,2-Dichlorobenzene	2021/11/09	99	70 - 130	100	70 - 130	<0.20	ug/L	NC	30		
7685001	1,2-Dichloroethane	2021/11/09	88	70 - 130	90	70 - 130	<0.20	ug/L	NC	30		
7685001	1,2-Dichloropropane	2021/11/09	97	70 - 130	99	70 - 130	<0.10	ug/L	NC	30		
7685001	1,3-Dichlorobenzene	2021/11/09	105	70 - 130	105	70 - 130	<0.20	ug/L	NC	30		
7685001	1,4-Dichlorobenzene	2021/11/09	120	70 - 130	121	70 - 130	<0.20	ug/L	NC	30		
7685001	Acetone (2-Propanone)	2021/11/09	88	60 - 140	84	60 - 140	<10	ug/L	NC	30		
7685001	Benzene	2021/11/09	98	70 - 130	99	70 - 130	<0.10	ug/L	NC	30		
7685001	Bromodichloromethane	2021/11/09	100	70 - 130	102	70 - 130	<0.10	ug/L	NC	30		
7685001	Bromoform	2021/11/09	103	70 - 130	102	70 - 130	<0.20	ug/L	NC	30		
7685001	Bromomethane	2021/11/09	76	60 - 140	133	60 - 140	<0.50	ug/L	NC	30		
7685001	Carbon Tetrachloride	2021/11/09	102	70 - 130	104	70 - 130	<0.10	ug/L	NC	30		
7685001	Chlorobenzene	2021/11/09	103	70 - 130	104	70 - 130	<0.10	ug/L	NC	30		
7685001	Chloroethane	2021/11/09	73	70 - 130	111	70 - 130	<0.20	ug/L	NC (1)	30		
7685001	Chloroform	2021/11/09	98	70 - 130	101	70 - 130	<0.10	ug/L	NC	30		
7685001	Chloromethane	2021/11/09	99	60 - 140	101	60 - 140	<0.50	ug/L	NC	30		
7685001	cis-1,2-Dichloroethylene	2021/11/09	103	70 - 130	106	70 - 130	<0.10	ug/L	NC	30		
7685001	cis-1,3-Dichloropropene	2021/11/09	99	70 - 130	104	70 - 130	<0.20	ug/L	NC	30		
7685001	Dibromochloromethane	2021/11/09	99	70 - 130	99	70 - 130	<0.20	ug/L	NC	30		
7685001	Ethylbenzene	2021/11/09	102	70 - 130	102	70 - 130	<0.10	ug/L	NC	30		
7685001	Ethylene Dibromide	2021/11/09	97	70 - 130	96	70 - 130	<0.20	ug/L	NC	30		



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7685001	Methyl Ethyl Ketone (2-Butanone)	2021/11/09	92	60 - 140	91	60 - 140	<5.0	ug/L	NC	30		
7685001	Methyl Isobutyl Ketone	2021/11/09	99	70 - 130	92	70 - 130	<5.0	ug/L	NC	30		
7685001	Methyl t-butyl ether (MTBE)	2021/11/09	92	70 - 130	93	70 - 130	<0.20	ug/L	NC	30		
7685001	Methylene Chloride(Dichloromethane)	2021/11/09	94	70 - 130	98	70 - 130	<0.50	ug/L	NC	30		
7685001	o-Xylene	2021/11/09	104	70 - 130	104	70 - 130	<0.10	ug/L	NC	30		
7685001	p+m-Xylene	2021/11/09	109	70 - 130	107	70 - 130	<0.10	ug/L	NC	30		
7685001	Styrene	2021/11/09	113	70 - 130	114	70 - 130	<0.20	ug/L	NC	30		
7685001	Tetrachloroethylene	2021/11/09	100	70 - 130	99	70 - 130	<0.10	ug/L	NC	30		
7685001	Toluene	2021/11/09	104	70 - 130	104	70 - 130	<0.20	ug/L	NC	30		
7685001	Total Trihalomethanes	2021/11/09					<0.20	ug/L	NC	30		
7685001	Total Xylenes	2021/11/09					<0.10	ug/L	NC	30		
7685001	trans-1,2-Dichloroethylene	2021/11/09	106	70 - 130	105	70 - 130	<0.10	ug/L	NC	30		
7685001	trans-1,3-Dichloropropene	2021/11/09	105	70 - 130	107	70 - 130	<0.20	ug/L	NC	30		
7685001	Trichloroethylene	2021/11/09	110	70 - 130	112	70 - 130	<0.10	ug/L	NC	30		
7685001	Trichlorofluoromethane (FREON 11)	2021/11/09	94	70 - 130	98	70 - 130	<0.20	ug/L	NC	30		
7685001	Vinyl Chloride	2021/11/09	95	70 - 130	98	70 - 130	<0.20	ug/L	NC	30		
7685006	Acrolein	2021/11/10	100	60 - 140	112	60 - 140	<10	ug/L	NC	30		
7685006	Acrylonitrile	2021/11/10	100	60 - 140	102	60 - 140	<5.0	ug/L	NC	30		
7685006	Methyl Butyl Ketone (2-Hexanone)	2021/11/10	106	60 - 140	96	60 - 140	<5.0	ug/L	NC	30		
7685033	Total Dissolved Solids	2021/11/08					<10	mg/L	0	25	98	90 - 110
7685191	Orthophosphate (P)	2021/11/09	141 (2)	75 - 125	101	80 - 120	<0.010	mg/L	NC	25		
7685219	Nitrate (N)	2021/11/09	98	80 - 120	99	80 - 120	<0.10	mg/L	NC	20		
7685219	Nitrite (N)	2021/11/09	105	80 - 120	107	80 - 120	<0.010	mg/L	NC	20		
7685275	Dissolved Bromide (Br-)	2021/11/09	107	80 - 120	104	80 - 120	<1.0	mg/L	NC	20		
7685275	Dissolved Chloride (Cl-)	2021/11/09	100	80 - 120	99	70 - 130	<1.0	mg/L	NC	20		
7685275	Dissolved Sulphate (SO4)	2021/11/09	101	80 - 120	99	80 - 120	<1.0	mg/L	0.98	20		
7685277	Dissolved Bromide (Br-)	2021/11/10	99	80 - 120	99	80 - 120	<1.0	mg/L	NC	20		
7685277	Dissolved Chloride (Cl-)	2021/11/10	94	80 - 120	94	70 - 130	<1.0	mg/L	1.8	20		
7685277	Dissolved Sulphate (SO4)	2021/11/10	94	80 - 120	94	80 - 120	<1.0	mg/L	9.4	20		
7685381	pH	2021/11/08			102	98 - 103			0.51	N/A		
7685383	Fluoride (F-)	2021/11/08	104	80 - 120	93	80 - 120	<0.10	mg/L	0.46	20		



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7685385	Alkalinity (Total as CaCO3)	2021/11/08			96	85 - 115	<1.0	mg/L	0.97	20		
7685387	Conductivity	2021/11/08			100	85 - 115	<1.0	umho/cm	0.38	25		
7685422	Nitrate (N)	2021/11/09	102	80 - 120	102	80 - 120	<0.10	mg/L	0.19	20		
7685422	Nitrite (N)	2021/11/09	105	80 - 120	107	80 - 120	<0.010	mg/L				
7685533	Dissolved Aluminum (Al)	2021/11/09	103	80 - 120	105	80 - 120	<4.9	ug/L	NC	20		
7685533	Dissolved Antimony (Sb)	2021/11/09	102	80 - 120	99	80 - 120	<0.50	ug/L	NC	20		
7685533	Dissolved Arsenic (As)	2021/11/09	99	80 - 120	97	80 - 120	<1.0	ug/L	NC	20		
7685533	Dissolved Barium (Ba)	2021/11/09	100	80 - 120	101	80 - 120	<2.0	ug/L	4.1	20		
7685533	Dissolved Beryllium (Be)	2021/11/09	98	80 - 120	97	80 - 120	<0.40	ug/L	NC	20		
7685533	Dissolved Bismuth (Bi)	2021/11/09	94	80 - 120	94	80 - 120	<1.0	ug/L	NC	20		
7685533	Dissolved Boron (B)	2021/11/09	95	80 - 120	97	80 - 120	<10	ug/L	0.53	20		
7685533	Dissolved Cadmium (Cd)	2021/11/09	98	80 - 120	96	80 - 120	<0.090	ug/L	NC	20		
7685533	Dissolved Calcium (Ca)	2021/11/09	NC	80 - 120	103	80 - 120	<200	ug/L	1.3	20		
7685533	Dissolved Chromium (Cr)	2021/11/09	98	80 - 120	97	80 - 120	<5.0	ug/L	NC	20		
7685533	Dissolved Cobalt (Co)	2021/11/09	96	80 - 120	98	80 - 120	<0.50	ug/L	NC	20		
7685533	Dissolved Copper (Cu)	2021/11/09	96	80 - 120	97	80 - 120	<0.90	ug/L	NC	20		
7685533	Dissolved Iron (Fe)	2021/11/09	98	80 - 120	98	80 - 120	<100	ug/L	NC	20		
7685533	Dissolved Lead (Pb)	2021/11/09	92	80 - 120	93	80 - 120	<0.50	ug/L	NC	20		
7685533	Dissolved Lithium (Li)	2021/11/09	98	80 - 120	98	80 - 120	<5.0	ug/L	1.2	20		
7685533	Dissolved Magnesium (Mg)	2021/11/09	NC	80 - 120	100	80 - 120	<50	ug/L	2.0	20		
7685533	Dissolved Manganese (Mn)	2021/11/09	98	80 - 120	100	80 - 120	<2.0	ug/L	0.66	20		
7685533	Dissolved Molybdenum (Mo)	2021/11/09	102	80 - 120	99	80 - 120	<0.50	ug/L	NC	20		
7685533	Dissolved Nickel (Ni)	2021/11/09	94	80 - 120	96	80 - 120	<1.0	ug/L	NC	20		
7685533	Dissolved Phosphorus (P)	2021/11/09	104	80 - 120	109	80 - 120	<100	ug/L	NC	20		
7685533	Dissolved Potassium (K)	2021/11/09	101	80 - 120	103	80 - 120	<200	ug/L	1.8	20		
7685533	Dissolved Selenium (Se)	2021/11/09	99	80 - 120	100	80 - 120	<2.0	ug/L	NC	20		
7685533	Dissolved Silicon (Si)	2021/11/09	101	80 - 120	104	80 - 120	<50	ug/L	2.2	20		
7685533	Dissolved Silver (Ag)	2021/11/09	89	80 - 120	95	80 - 120	<0.090	ug/L	NC	20		
7685533	Dissolved Sodium (Na)	2021/11/09	99	80 - 120	101	80 - 120	110, RDL=100	ug/L	2.6	20		
7685533	Dissolved Strontium (Sr)	2021/11/09	NC	80 - 120	99	80 - 120	<1.0	ug/L	2.7	20		



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7685533	Dissolved Tellurium (Te)	2021/11/09	101	80 - 120	99	80 - 120	<1.0	ug/L	NC	20		
7685533	Dissolved Thallium (Tl)	2021/11/09	94	80 - 120	93	80 - 120	<0.050	ug/L	NC	20		
7685533	Dissolved Tin (Sn)	2021/11/09	102	80 - 120	100	80 - 120	<1.0	ug/L	NC	20		
7685533	Dissolved Titanium (Ti)	2021/11/09	102	80 - 120	106	80 - 120	<5.0	ug/L	NC	20		
7685533	Dissolved Tungsten (W)	2021/11/09	97	80 - 120	96	80 - 120	<1.0	ug/L	NC	20		
7685533	Dissolved Uranium (U)	2021/11/09	98	80 - 120	97	80 - 120	<0.10	ug/L	0.51	20		
7685533	Dissolved Vanadium (V)	2021/11/09	99	80 - 120	98	80 - 120	<0.50	ug/L	NC	20		
7685533	Dissolved Zinc (Zn)	2021/11/09	96	80 - 120	97	80 - 120	<5.0	ug/L	0.23	20		
7685533	Dissolved Zirconium (Zr)	2021/11/09	103	80 - 120	101	80 - 120	<1.0	ug/L	NC	20		
7685954	Total Kjeldahl Nitrogen (TKN)	2021/11/09	111	80 - 120	107	80 - 120	<0.10	mg/L	4.7	20	104	80 - 120
7685956	Total Organic Carbon (TOC)	2021/11/08	100	80 - 120	94	80 - 120	<0.40	mg/L	0.20	20		
7685957	Total Organic Carbon (TOC)	2021/11/08	93	80 - 120	95	80 - 120	<0.40	mg/L	0.76	20		
7686041	Total Kjeldahl Nitrogen (TKN)	2021/11/10	NC	80 - 120	101	80 - 120	<0.10	mg/L	3.8	20	110	80 - 120
7686329	Phenols-4AAP	2021/11/08	100	80 - 120	99	80 - 120	<0.0010	mg/L	NC	20		
7686347	Phenols-4AAP	2021/11/08	99	80 - 120	99	80 - 120	<0.0010	mg/L	NC	20		
7686834	Total Ammonia-N	2021/11/09	93	75 - 125	99	80 - 120	<0.050	mg/L	NC	20		
7687640	a-Chlordane	2021/11/09	51	50 - 130	85	50 - 130	<0.005	ug/L	3.2	30		
7687640	Aldrin	2021/11/09	56	50 - 130	74	50 - 130	<0.005	ug/L	4.2	30		
7687640	alpha-BHC	2021/11/09	79	30 - 130	86	30 - 130	<0.005	ug/L	3.5	40		
7687640	Aroclor 1242	2021/11/09					<0.05	ug/L				
7687640	Aroclor 1248	2021/11/09					<0.05	ug/L				
7687640	Aroclor 1254	2021/11/09					<0.05	ug/L				
7687640	Aroclor 1260	2021/11/09					<0.05	ug/L				
7687640	beta-BHC	2021/11/09	70	30 - 130	77	30 - 130	<0.005	ug/L	2.7	40		
7687640	Dieldrin	2021/11/09	75	50 - 130	98	50 - 130	<0.005	ug/L	1.1	30		
7687640	Endosulfan I (alpha)	2021/11/09	68	50 - 130	84	50 - 130	<0.005	ug/L	4.0	30		
7687640	Endosulfan II (beta)	2021/11/09	70	50 - 130	76	50 - 130	<0.005	ug/L	2.6	30		
7687640	Endrin aldehyde	2021/11/09	58	30 - 130	75	30 - 130	<0.005	ug/L	0.53	40		
7687640	Endrin ketone	2021/11/09	87	30 - 130	91	30 - 130	<0.005	ug/L	5.4	40		
7687640	Endrin	2021/11/09	72	50 - 130	83	50 - 130	<0.005	ug/L	3.6	30		
7687640	g-Chlordane	2021/11/09	57	50 - 130	86	50 - 130	<0.005	ug/L	2.6	30		



BUREAU
VERITAS

Bureau Veritas Job #: C1W2929

Report Date: 2021/11/12

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
7687640	Heptachlor epoxide	2021/11/09	78	50 - 130	90	50 - 130	<0.005	ug/L	4.7	30		
7687640	Heptachlor	2021/11/09	71	50 - 130	72	50 - 130	<0.005	ug/L	4.4	30		
7687640	Hexachlorobenzene	2021/11/09	76	50 - 130	84	50 - 130	<0.005	ug/L	NC	30		
7687640	Hexachlorobutadiene	2021/11/09	73	50 - 130	73	50 - 130	<0.009	ug/L	5.7	30		
7687640	Hexachloroethane	2021/11/09	60	50 - 130	62	50 - 130	<0.01	ug/L	2.5	30		
7687640	Lindane	2021/11/09	87	50 - 130	97	50 - 130	<0.003	ug/L	2.9	30		
7687640	Methoxychlor	2021/11/09	82	50 - 130	76	50 - 130	<0.01	ug/L	6.2	30		
7687640	Mirex	2021/11/09	77	30 - 130	88	30 - 130	<0.005	ug/L	12	40		
7687640	o,p-DDD	2021/11/09	66	50 - 130	106	50 - 130	<0.005	ug/L	4.5	30		
7687640	o,p-DDE	2021/11/09	80	50 - 130	102	50 - 130	<0.005	ug/L	3.8	30		
7687640	o,p-DDT	2021/11/09	71	50 - 130	75	50 - 130	<0.005	ug/L	4.4	30		
7687640	p,p-DDD	2021/11/09	79	50 - 130	97	50 - 130	<0.005	ug/L	5.2	30		
7687640	p,p-DDE	2021/11/09	74	50 - 130	88	50 - 130	<0.005	ug/L	5.8	30		
7687640	p,p-DDT	2021/11/09	62	50 - 130	61	50 - 130	<0.005	ug/L	3.5	30		
7687640	Toxaphene	2021/11/09					<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) The detection limit was raised due to matrix interferences.

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



BUREAU
VERITAS

Bureau Veritas Job #: C1W2929
Report Date: 2021/11/12

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

VALIDATION SIGNATURE PAGE

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

Anastassia Hamanov, Scientific Specialist

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

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



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 Stoney Creek ON L8J 1X5		Address:		Project: GW		COC #:	
Tel: (905) 561-0305 Fax: (905) 561-1674		Tel: Fax:		Project Name:		Project Manager:	
Email: kbailey@terrapureenv.com		Email: bmullin@terrapureenv.com; dtaylor2@terrapureenv.com		Site #:		Jolanta Goralczyk	
				Sampled By:		C#847927-05-01	

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	Lit 'A' GW Monitoring	Lit 'B' GW Monitoring	Biochemical Oxygen Demand (BOD)							
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"/>														
Include Criteria on Certificate of Analysis (Y/N)?																			
Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix															
1	P3-II	Nov 2 2021	NA	GW	Y	X												6	
2	P3-III	Nov 2 2021	NA	GW	Y	X												6	
3				GW															
4				GW															
5				GW															
6				GW															
7				GW															
8				GW															
9				GW															
10				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				
Dan Taylor		21/11/03	9:25	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.

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

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

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

White: BV Labs Yellow: Client



Your Project #: GW
 Your C.O.C. #: 847927-13-01, 847927-15-01

Attention: Brad Mullin - GHD Reporting

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

Report Date: 2021/11/17
 Report #: R6905877
 Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C1W5119

Received: 2021/11/04, 16:15

Sample Matrix: Water
 # Samples Received: 15

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
ABN Compounds in Water by GC/MS	5	2021/11/08	2021/11/09	CAM SOP-00301	EPA 8270 m
Alkalinity	11	N/A	2021/11/09	CAM SOP-00448	SM 23 2320 B m
Anions	11	N/A	2021/11/11	CAM SOP-00435	SM 23 4110 B m
Conductivity	11	N/A	2021/11/09	CAM SOP-00414	SM 23 2510 m
Fluoride	11	2021/11/08	2021/11/09	CAM SOP-00449	SM 23 4500-F C m
Hardness (calculated as CaCO3)	1	N/A	2021/11/11	CAM SOP 00102/00408/00447	SM 2340 B
Hardness (calculated as CaCO3)	10	N/A	2021/11/09	CAM SOP 00102/00408/00447	SM 2340 B
Dissolved Metals by ICPMS	1	N/A	2021/11/11	CAM SOP-00447	EPA 6020B m
Dissolved Metals by ICPMS	1	N/A	2021/11/16	CAM SOP-00447	EPA 6020B m
Dissolved Metals by ICPMS	9	N/A	2021/11/09	CAM SOP-00447	EPA 6020B m
Total Ammonia-N	11	N/A	2021/11/10	CAM SOP-00441	USGS I-2522-90 m
Nitrate & Nitrite as Nitrogen in Water (1)	11	N/A	2021/11/09	CAM SOP-00440	SM 23 4500-NO3I/NO2B
OC Pesticides (Selected) & PCB (2)	1	2021/11/08	2021/11/10	CAM SOP-00307	EPA 8081A/8082B m
OC Pesticides (Selected) & PCB (2)	4	2021/11/08	2021/11/09	CAM SOP-00307	EPA 8081A/8082B m
OC Pesticides Summed Parameters	3	N/A	2021/11/10	CAM SOP-00307	EPA 8081A/8082B m
OC Pesticides Summed Parameters	2	N/A	2021/11/09	CAM SOP-00307	EPA 8081A/8082B m
pH	11	2021/11/08	2021/11/09	CAM SOP-00413	SM 4500H+ B m
Phenols (4AAP)	1	N/A	2021/11/10	CAM SOP-00444	OMOE E3179 m
Phenols (4AAP)	8	N/A	2021/11/08	CAM SOP-00444	OMOE E3179 m
Phenols (4AAP)	2	N/A	2021/11/09	CAM SOP-00444	OMOE E3179 m
Orthophosphate	11	N/A	2021/11/11	CAM SOP-00461	EPA 365.1 m
Total Dissolved Solids	11	2021/11/08	2021/11/09	CAM SOP-00428	SM 23 2540C m
Total Kjeldahl Nitrogen in Water	11	2021/11/09	2021/11/12	CAM SOP-00938	OMOE E3516 m
Total Organic Carbon (TOC) (3)	1	N/A	2021/11/10	CAM SOP-00446	SM 23 5310B m
Total Organic Carbon (TOC) (3)	10	N/A	2021/11/09	CAM SOP-00446	SM 23 5310B m
Volatile Organic Compounds in Water	3	N/A	2021/11/10	CAM SOP-00226	EPA 8260C m
Volatile Organic Compounds in Water	2	N/A	2021/11/09	CAM SOP-00226	EPA 8260C m
Non-Routine Volatile Organic Compounds	2	N/A	2021/11/10	CAM SOP-00226	EPA 8260 m
Non-Routine Volatile Organic Compounds	3	N/A	2021/11/11	CAM SOP-00226	EPA 8260 m



Your Project #: GW
Your C.O.C. #: 847927-13-01, 847927-15-01

Attention: Brad Mullin - GHD Reporting

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

Report Date: 2021/11/17
Report #: R6905877
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C1W5119

Received: 2021/11/04, 16:15

Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.
* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

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

Encryption Key



**AUTHORIZED REPORT
RAPPORT AUTORISÉ**

Bureau Veritas
17 Nov 2021 17:11:42

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



BUREAU
VERITAS

Bureau Veritas Job #: C1W5119
Report Date: 2021/11/17

Terrapure Environmental
Client Project #: GW
Sampler Initials: CR

RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		RDL872			RDL873			RDL873		
Sampling Date		2021/11/03			2021/11/03			2021/11/03		
COC Number		847927-13-01			847927-13-01			847927-13-01		
	UNITS	44-I	RDL	QC Batch	44-II	RDL	QC Batch	44-II Lab-Dup	RDL	QC Batch

Calculated Parameters										
Hardness (CaCO3)	mg/L	620	1.0	7682654	420	1.0	7682654			
Inorganics										
Total Ammonia-N	mg/L	1.2	0.050	7689767	0.061	0.050	7689767			
Conductivity	umho/cm	2700	1.0	7687261	820	1.0	7687261			
Total Dissolved Solids	mg/L	1260	10	7687110	490	10	7687110			
Fluoride (F-)	mg/L	0.56	0.10	7687250	0.27	0.10	7687250			
Total Kjeldahl Nitrogen (TKN)	mg/L	1.4	0.10	7689210	0.29	0.10	7689210			
Total Organic Carbon (TOC)	mg/L	1.7	0.40	7688215	1.9	0.40	7688215			
Orthophosphate (P)	mg/L	<0.010	0.010	7687677	<0.010	0.010	7687677			
pH	pH	7.72		7687229	7.87		7687229			
Phenols-4AAP	mg/L	<0.0010	0.0010	7686709	<0.0010	0.0010	7686709			
Alkalinity (Total as CaCO3)	mg/L	350	1.0	7687253	330	1.0	7687253			
Nitrite (N)	mg/L	<0.010	0.010	7687349	<0.010	0.010	7688247	<0.010	0.010	7688247
Dissolved Chloride (Cl-)	mg/L	340	5.0	7688250	28	1.0	7688250			
Nitrate (N)	mg/L	<0.10	0.10	7687349	<0.10	0.10	7688247	<0.10	0.10	7688247
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	7687349	<0.10	0.10	7688247	<0.10	0.10	7688247
Dissolved Bromide (Br-)	mg/L	<5.0	5.0	7688250	<1.0	1.0	7688250			
Dissolved Sulphate (SO4)	mg/L	600	5.0	7688250	86	1.0	7688250			

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



RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		RDL874			RDL875			RDL876		
Sampling Date		2021/11/03			2021/11/03			2021/11/03		
COC Number		847927-13-01			847927-13-01			847927-13-01		
	UNITS	2-I	RDL	QC Batch	46-IR	RDL	QC Batch	46-IIR	RDL	QC Batch
Calculated Parameters										
Hardness (CaCO3)	mg/L	420	1.0	7682654	1900	1.0	7682654	690	1.0	7682654
Inorganics										
Total Ammonia-N	mg/L	0.059	0.050	7689767	29	0.050	7689767	<0.050	0.050	7689767
Conductivity	umho/cm	840	1.0	7687261	7200	1.0	7687261	2000	1.0	7687261
Total Dissolved Solids	mg/L	505	10	7687110	5080	20	7687110	1360	10	7687110
Fluoride (F-)	mg/L	0.26	0.10	7687250	1.2	0.10	7687250	0.50	0.10	7687250
Total Kjeldahl Nitrogen (TKN)	mg/L	0.37	0.10	7689210	31	2.0	7689210	0.38	0.10	7689210
Total Organic Carbon (TOC)	mg/L	2.2	0.40	7688215	6.9	0.40	7688215	3.5	0.40	7688215
Orthophosphate (P)	mg/L	<0.010	0.010	7687677	<0.010	0.010	7687677	<0.010	0.010	7687677
pH	pH	7.85		7687229	7.52		7687229	7.92		7687229
Phenols-4AAP	mg/L	<0.0010	0.0010	7686709	0.0018	0.0010	7686347	<0.0010	0.0010	7686709
Alkalinity (Total as CaCO3)	mg/L	330	1.0	7687253	97	1.0	7687253	150	1.0	7687253
Nitrite (N)	mg/L	<0.010	0.010	7687349	0.017	0.010	7687349	<0.010	0.010	7687349
Dissolved Chloride (Cl-)	mg/L	32	1.0	7687129	1400	10	7687129	270	5.0	7688250
Nitrate (N)	mg/L	<0.10	0.10	7687349	0.23	0.10	7687349	<0.10	0.10	7687349
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	7687349	0.24	0.10	7687349	<0.10	0.10	7687349
Dissolved Bromide (Br-)	mg/L	<1.0	1.0	7687129	<10	10	7687129	<5.0	5.0	7688250
Dissolved Sulphate (SO4)	mg/L	95	1.0	7687129	1700	10	7687129	590	5.0	7688250
RDL = Reportable Detection Limit										
QC Batch = Quality Control Batch										



BUREAU
VERITAS

Bureau Veritas Job #: C1W5119
Report Date: 2021/11/17

Terrapure Environmental
Client Project #: GW
Sampler Initials: CR

RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		RDL877		RDL878			RDL879		
Sampling Date		2021/11/03		2021/11/03			2021/11/03		
COC Number		847927-13-01		847927-13-01			847927-13-01		
	UNITS	46-IIIR	RDL	P14	RDL	QC Batch	P15	RDL	QC Batch
Calculated Parameters									
Hardness (CaCO3)	mg/L	810	1.0	62	1.0	7682654	76	1.0	7682654
Inorganics									
Total Ammonia-N	mg/L	<0.050	0.050	33	0.25	7689767	130	0.50	7689767
Conductivity	umho/cm	2100	1.0	2400	1.0	7687261	8800	1.0	7687261
Total Dissolved Solids	mg/L	1280	10	1230	10	7687110	4900	20	7687110
Fluoride (F-)	mg/L	0.23	0.10	1.6	0.10	7687250	3.2	0.10	7687250
Total Kjeldahl Nitrogen (TKN)	mg/L	1.0	0.10	34	2.0	7689210	130	5.0	7689210
Total Organic Carbon (TOC)	mg/L	13	0.40	18	0.40	7688215	35	0.40	7688215
Orthophosphate (P)	mg/L	<0.010	0.010	<0.010	0.010	7687677	0.084	0.010	7687677
pH	pH	7.80		8.14		7687229	9.62		7687229
Phenols-4AAP	mg/L	<0.0010	0.0010	0.064	0.0050	7686709			
Alkalinity (Total as CaCO3)	mg/L	480	1.0	160	1.0	7687253	330	1.0	7687253
Nitrite (N)	mg/L	<0.010	0.010	<0.010	0.010	7687349	<0.010	0.010	7687349
Dissolved Chloride (Cl-)	mg/L	190	5.0	500	5.0	7687129	2500	20	7688250
Nitrate (N)	mg/L	<0.10	0.10	<0.10	0.10	7687349	<0.10	0.10	7687349
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	<0.10	0.10	7687349	<0.10	0.10	7687349
Dissolved Bromide (Br-)	mg/L	<5.0	5.0	<5.0	5.0	7687129	<20	20	7688250
Dissolved Sulphate (SO4)	mg/L	440	5.0	180	5.0	7687129	230	20	7688250
RDL = Reportable Detection Limit									
QC Batch = Quality Control Batch									



BUREAU
VERITAS

Bureau Veritas Job #: C1W5119
Report Date: 2021/11/17

Terrapure Environmental
Client Project #: GW
Sampler Initials: CR

RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		RDL880			RDL880			RDL881		
Sampling Date		2021/11/03			2021/11/03			2021/11/03		
COC Number		847927-13-01			847927-13-01			847927-13-01		
	UNITS	P16	RDL	QC Batch	P16 Lab-Dup	RDL	QC Batch	P17	RDL	QC Batch

Calculated Parameters										
Hardness (CaCO3)	mg/L	590	1.0	7682654				35	1.0	7682654
Inorganics										
Total Ammonia-N	mg/L	5.4	0.050	7689767				110	0.25	7689767
Conductivity	umho/cm	2400	1.0	7687261				7600	1.0	7687261
Total Dissolved Solids	mg/L	1550	10	7687110	1570	10	7687110	4550	20	7687110
Fluoride (F-)	mg/L	1.3	0.10	7687250				3.3	0.10	7687250
Total Kjeldahl Nitrogen (TKN)	mg/L	5.9	0.20	7689210				110	5.0	7689210
Total Organic Carbon (TOC)	mg/L	13	0.40	7688215				28	0.40	7688215
Orthophosphate (P)	mg/L	<0.010	0.010	7687677				0.12	0.010	7687677
pH	pH	7.95		7687229				9.47		7687229
Phenols-4AAP	mg/L	0.0015	0.0010	7686709				0.73	0.050	7686709
Alkalinity (Total as CaCO3)	mg/L	130	1.0	7687253				300	1.0	7687253
Nitrite (N)	mg/L	<0.010	0.010	7687349				<0.010	0.010	7687349
Dissolved Chloride (Cl-)	mg/L	580	5.0	7688250				2300	10	7687129
Nitrate (N)	mg/L	<0.10	0.10	7687349				<0.10	0.10	7687349
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	7687349				<0.10	0.10	7687349
Dissolved Bromide (Br-)	mg/L	<5.0	5.0	7688250				<10	10	7687129
Dissolved Sulphate (SO4)	mg/L	330	5.0	7688250				230	10	7687129

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



RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		RDL881			RDL886			RDL886		
Sampling Date		2021/11/03			2021/11/03			2021/11/03		
COC Number		847927-13-01			847927-15-01			847927-15-01		
	UNITS	P17 Lab-Dup	RDL	QC Batch	4-III	RDL	QC Batch	4-III Lab-Dup	RDL	QC Batch
Calculated Parameters										
Hardness (CaCO3)	mg/L				660	1.0	7682654			
Inorganics										
Total Ammonia-N	mg/L	120	0.25	7689767	5.3	0.050	7689767			
Conductivity	umho/cm				2400	1.0	7687261			
Total Dissolved Solids	mg/L				1530	10	7687931			
Fluoride (F-)	mg/L				1.8	0.10	7687250			
Total Kjeldahl Nitrogen (TKN)	mg/L				6.3	0.20	7689210			
Total Organic Carbon (TOC)	mg/L				13	0.40	7688215			
Orthophosphate (P)	mg/L				<0.010	0.010	7687677			
pH	pH				7.88		7687229			
Phenols-4AAP	mg/L				0.0018	0.0010	7686709			
Alkalinity (Total as CaCO3)	mg/L				130	1.0	7687253			
Nitrite (N)	mg/L				<0.010	0.010	7687349			
Dissolved Chloride (Cl-)	mg/L				570	5.0	7688250	550	5.0	7688250
Nitrate (N)	mg/L				<0.10	0.10	7687349			
Nitrate + Nitrite (N)	mg/L				<0.10	0.10	7687349			
Dissolved Bromide (Br-)	mg/L				<5.0	5.0	7688250	<5.0	5.0	7688250
Dissolved Sulphate (SO4)	mg/L				330	5.0	7688250	310	5.0	7688250
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate										

Bureau Veritas ID		REE921		
Sampling Date		2021/11/08		
COC Number		847927-13-01		
	UNITS	P15	RDL	QC Batch
Inorganics				
Phenols-4AAP	mg/L	0.92	0.050	7691540
RDL = Reportable Detection Limit QC Batch = Quality Control Batch				



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VERITAS

Bureau Veritas Job #: C1W5119
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Terrapure Environmental
Client Project #: GW
Sampler Initials: CR

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Bureau Veritas ID		RDL872			RDL873	RDL874		RDL875		
Sampling Date		2021/11/03			2021/11/03	2021/11/03		2021/11/03		
COC Number		847927-13-01			847927-13-01	847927-13-01		847927-13-01		
	UNITS	44-I	RDL	QC Batch	44-II	2-I	RDL	46-IR	RDL	QC Batch
Metals										
Dissolved Aluminum (Al)	ug/L	<4.9	4.9	7702474	51	36	4.9	7.2	4.9	7688220
Dissolved Antimony (Sb)	ug/L	<0.50	0.50	7702474	<0.50	<0.50	0.50	<0.50	0.50	7688220
Dissolved Arsenic (As)	ug/L	<1.0	1.0	7702474	4.3	4.0	1.0	<1.0	1.0	7688220
Dissolved Barium (Ba)	ug/L	26	2.0	7702474	43	41	2.0	33	2.0	7688220
Dissolved Beryllium (Be)	ug/L	<0.40	0.40	7702474	<0.40	<0.40	0.40	<0.40	0.40	7688220
Dissolved Bismuth (Bi)	ug/L	<1.0	1.0	7702474	<1.0	<1.0	1.0	<1.0	1.0	7688220
Dissolved Boron (B)	ug/L	180	10	7702474	43	43	10	850	10	7688220
Dissolved Cadmium (Cd)	ug/L	0.12	0.090	7702474	0.099	<0.090	0.090	<0.090	0.090	7688220
Dissolved Calcium (Ca)	ug/L	180000	400	7702474	110000	110000	200	650000	1000	7688220
Dissolved Chromium (Cr)	ug/L	<5.0	5.0	7702474	<5.0	<5.0	5.0	<5.0	5.0	7688220
Dissolved Cobalt (Co)	ug/L	<0.50	0.50	7702474	0.59	0.60	0.50	<0.50	0.50	7688220
Dissolved Copper (Cu)	ug/L	<0.90	0.90	7702474	<0.90	<0.90	0.90	<0.90	0.90	7688220
Dissolved Iron (Fe)	ug/L	<100	100	7702474	640	590	100	120	100	7688220
Dissolved Lead (Pb)	ug/L	<0.50	0.50	7702474	1.8	1.6	0.50	<0.50	0.50	7688220
Dissolved Lithium (Li)	ug/L	39	5.0	7702474	23	23	5.0	170	5.0	7688220
Dissolved Magnesium (Mg)	ug/L	42000	50	7702474	37000	38000	50	79000	50	7688220
Dissolved Manganese (Mn)	ug/L	34	2.0	7702474	56	56	2.0	670	2.0	7688220
Dissolved Molybdenum (Mo)	ug/L	<0.50	0.50	7702474	1.1	1.1	0.50	<0.50	0.50	7688220
Dissolved Nickel (Ni)	ug/L	<1.0	1.0	7702474	1.5	1.5	1.0	<1.0	1.0	7688220
Dissolved Phosphorus (P)	ug/L	<100	100	7702474	<100	<100	100	<100	100	7688220
Dissolved Potassium (K)	ug/L	9800	200	7702474	2600	2700	200	57000	200	7688220
Dissolved Selenium (Se)	ug/L	<2.0	2.0	7702474	<2.0	<2.0	2.0	12	2.0	7688220
Dissolved Silicon (Si)	ug/L	3900	50	7702474	6700	6700	50	4100	50	7688220
Dissolved Silver (Ag)	ug/L	<0.090	0.090	7702474	<0.090	<0.090	0.090	<0.090	0.090	7688220
Dissolved Sodium (Na)	ug/L	190000	100	7702474	18000	18000	100	810000	500	7688220
Dissolved Strontium (Sr)	ug/L	9600	1.0	7702474	1100	1100	1.0	8900	1.0	7688220
Dissolved Tellurium (Te)	ug/L	<1.0	1.0	7702474	<1.0	<1.0	1.0	<1.0	1.0	7688220
Dissolved Thallium (Tl)	ug/L	<0.050	0.050	7702474	<0.050	<0.050	0.050	<0.050	0.050	7688220
Dissolved Tin (Sn)	ug/L	<1.0	1.0	7702474	<1.0	<1.0	1.0	<1.0	1.0	7688220
Dissolved Titanium (Ti)	ug/L	<5.0	5.0	7702474	<5.0	<5.0	5.0	<5.0	5.0	7688220
Dissolved Tungsten (W)	ug/L	<1.0	1.0	7702474	<1.0	<1.0	1.0	13	1.0	7688220
Dissolved Uranium (U)	ug/L	<0.10	0.10	7702474	1.7	1.6	0.10	<0.10	0.10	7688220
Dissolved Vanadium (V)	ug/L	<0.50	0.50	7702474	<0.50	<0.50	0.50	<0.50	0.50	7688220
Dissolved Zinc (Zn)	ug/L	<5.0	5.0	7702474	7.8	7.7	5.0	<5.0	5.0	7688220
Dissolved Zirconium (Zr)	ug/L	<1.0	1.0	7702474	<1.0	<1.0	1.0	<1.0	1.0	7688220
RDL = Reportable Detection Limit										
QC Batch = Quality Control Batch										



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VERITAS

Bureau Veritas Job #: C1W5119
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Terrapure Environmental
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Sampler Initials: CR

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Bureau Veritas ID		RDL876	RDL877	RDL878		RDL879		RDL880		
Sampling Date		2021/11/03	2021/11/03	2021/11/03		2021/11/03		2021/11/03		
COC Number		847927-13-01	847927-13-01	847927-13-01		847927-13-01		847927-13-01		
	UNITS	46-IIR	46-IIIR	P14	RDL	P15	RDL	P16	RDL	QC Batch
Metals										
Dissolved Aluminum (Al)	ug/L	<4.9	<4.9	<4.9	4.9	350	4.9	<4.9	4.9	7688220
Dissolved Antimony (Sb)	ug/L	<0.50	<0.50	<0.50	0.50	<0.50	0.50	<0.50	0.50	7688220
Dissolved Arsenic (As)	ug/L	<1.0	1.5	<1.0	1.0	2.6	1.0	<1.0	1.0	7688220
Dissolved Barium (Ba)	ug/L	63	36	5.8	2.0	7.0	2.0	11	2.0	7688220
Dissolved Beryllium (Be)	ug/L	<0.40	<0.40	<0.40	0.40	<0.40	0.40	<0.40	0.40	7688220
Dissolved Bismuth (Bi)	ug/L	<1.0	<1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	7688220
Dissolved Boron (B)	ug/L	310	160	330	10	470	10	490	10	7688220
Dissolved Cadmium (Cd)	ug/L	<0.090	<0.090	<0.090	0.090	0.18	0.090	<0.090	0.090	7688220
Dissolved Calcium (Ca)	ug/L	180000	210000	16000	200	26000	200	140000	200	7688220
Dissolved Chromium (Cr)	ug/L	<5.0	<5.0	<5.0	5.0	<5.0	5.0	<5.0	5.0	7688220
Dissolved Cobalt (Co)	ug/L	<0.50	2.2	<0.50	0.50	0.51	0.50	<0.50	0.50	7688220
Dissolved Copper (Cu)	ug/L	<0.90	1.2	<0.90	0.90	2.0	0.90	<0.90	0.90	7688220
Dissolved Iron (Fe)	ug/L	<100	860	<100	100	3600	100	<100	100	7688220
Dissolved Lead (Pb)	ug/L	0.91	<0.50	<0.50	0.50	<0.50	0.50	<0.50	0.50	7688220
Dissolved Lithium (Li)	ug/L	32	11	15	5.0	23	5.0	30	5.0	7688220
Dissolved Magnesium (Mg)	ug/L	56000	69000	5100	50	2600	50	58000	50	7688220
Dissolved Manganese (Mn)	ug/L	22	1200	<2.0	2.0	41	2.0	42	2.0	7688220
Dissolved Molybdenum (Mo)	ug/L	5.9	3.0	2.9	0.50	30	0.50	<0.50	0.50	7688220
Dissolved Nickel (Ni)	ug/L	1.1	6.2	5.3	1.0	22	1.0	2.0	1.0	7688220
Dissolved Phosphorus (P)	ug/L	<100	<100	<100	100	240	100	<100	100	7688220
Dissolved Potassium (K)	ug/L	11000	1700	48000	200	110000	200	31000	200	7688220
Dissolved Selenium (Se)	ug/L	<2.0	<2.0	7.6	2.0	7.2	2.0	4.6	2.0	7688220
Dissolved Silicon (Si)	ug/L	5600	7000	7200	50	5300	50	4600	50	7688220
Dissolved Silver (Ag)	ug/L	<0.090	<0.090	<0.090	0.090	<0.090	0.090	<0.090	0.090	7688220
Dissolved Sodium (Na)	ug/L	180000	170000	460000	100	1600000	1000	220000	100	7688220
Dissolved Strontium (Sr)	ug/L	2700	760	360	1.0	890	1.0	2000	1.0	7688220
Dissolved Tellurium (Te)	ug/L	<1.0	<1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	7688220
Dissolved Thallium (Tl)	ug/L	<0.050	<0.050	<0.050	0.050	<0.050	0.050	<0.050	0.050	7688220
Dissolved Tin (Sn)	ug/L	<1.0	<1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	7688220
Dissolved Titanium (Ti)	ug/L	<5.0	<5.0	<5.0	5.0	<5.0	5.0	<5.0	5.0	7688220
Dissolved Tungsten (W)	ug/L	<1.0	<1.0	5.6	1.0	15	1.0	1.6	1.0	7688220
Dissolved Uranium (U)	ug/L	1.6	7.2	<0.10	0.10	<0.10	0.10	<0.10	0.10	7688220
Dissolved Vanadium (V)	ug/L	<0.50	1.4	0.83	0.50	1.0	0.50	<0.50	0.50	7688220
Dissolved Zinc (Zn)	ug/L	<5.0	10	<5.0	5.0	<5.0	5.0	<5.0	5.0	7688220
Dissolved Zirconium (Zr)	ug/L	<1.0	<1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	7688220
RDL = Reportable Detection Limit										
QC Batch = Quality Control Batch										



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VERITAS

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Terrapure Environmental
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ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Bureau Veritas ID		RDL881			RDL886		
Sampling Date		2021/11/03			2021/11/03		
COC Number		847927-13-01			847927-15-01		
	UNITS	P17	RDL	QC Batch	4-III	RDL	QC Batch
Metals							
Dissolved Aluminum (Al)	ug/L	100	4.9	7688220	<4.9	4.9	7688136
Dissolved Antimony (Sb)	ug/L	<0.50	0.50	7688220	<0.50	0.50	7688136
Dissolved Arsenic (As)	ug/L	2.5	1.0	7688220	<1.0	1.0	7688136
Dissolved Barium (Ba)	ug/L	7.1	2.0	7688220	11	2.0	7688136
Dissolved Beryllium (Be)	ug/L	<0.40	0.40	7688220	<0.40	0.40	7688136
Dissolved Bismuth (Bi)	ug/L	<1.0	1.0	7688220	<1.0	1.0	7688136
Dissolved Boron (B)	ug/L	480	10	7688220	490	10	7688136
Dissolved Cadmium (Cd)	ug/L	<0.090	0.090	7688220	<0.090	0.090	7688136
Dissolved Calcium (Ca)	ug/L	11000	200	7688220	160000	200	7688136
Dissolved Chromium (Cr)	ug/L	<5.0	5.0	7688220	<5.0	5.0	7688136
Dissolved Cobalt (Co)	ug/L	<0.50	0.50	7688220	<0.50	0.50	7688136
Dissolved Copper (Cu)	ug/L	<0.90	0.90	7688220	<0.90	0.90	7688136
Dissolved Iron (Fe)	ug/L	<100	100	7688220	<100	100	7688136
Dissolved Lead (Pb)	ug/L	<0.50	0.50	7688220	<0.50	0.50	7688136
Dissolved Lithium (Li)	ug/L	25	5.0	7688220	33	5.0	7688136
Dissolved Magnesium (Mg)	ug/L	1900	50	7688220	63000	50	7688136
Dissolved Manganese (Mn)	ug/L	<2.0	2.0	7688220	44	2.0	7688136
Dissolved Molybdenum (Mo)	ug/L	51	0.50	7688220	0.81	0.50	7688136
Dissolved Nickel (Ni)	ug/L	15	1.0	7688220	2.2	1.0	7688136
Dissolved Phosphorus (P)	ug/L	210	100	7688220	<100	100	7688136
Dissolved Potassium (K)	ug/L	110000	200	7688220	33000	200	7688136
Dissolved Selenium (Se)	ug/L	18	2.0	7688220	<2.0	2.0	7688136
Dissolved Silicon (Si)	ug/L	6800	50	7688220	5100	50	7688136
Dissolved Silver (Ag)	ug/L	<0.090	0.090	7688220	<0.090	0.090	7688136
Dissolved Sodium (Na)	ug/L	1600000	1000	7688220	240000	100	7688136
Dissolved Strontium (Sr)	ug/L	920	1.0	7688220	2000	1.0	7688136
Dissolved Tellurium (Te)	ug/L	<1.0	1.0	7688220	<1.0	1.0	7688136
Dissolved Thallium (Tl)	ug/L	<0.050	0.050	7688220	<0.050	0.050	7688136
Dissolved Tin (Sn)	ug/L	<1.0	1.0	7688220	<1.0	1.0	7688136
Dissolved Titanium (Ti)	ug/L	<5.0	5.0	7688220	<5.0	5.0	7688136
Dissolved Tungsten (W)	ug/L	15	1.0	7688220	1.7	1.0	7688136
Dissolved Uranium (U)	ug/L	<0.10	0.10	7688220	<0.10	0.10	7688136
Dissolved Vanadium (V)	ug/L	1.1	0.50	7688220	<0.50	0.50	7688136
Dissolved Zinc (Zn)	ug/L	<5.0	5.0	7688220	<5.0	5.0	7688136
Dissolved Zirconium (Zr)	ug/L	<1.0	1.0	7688220	<1.0	1.0	7688136
RDL = Reportable Detection Limit QC Batch = Quality Control Batch							



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Terrapure Environmental
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SEMI-VOLATILE ORGANICS BY GC-MS (WATER)

Bureau Veritas ID		RDL872	RDL873	RDL883	RDL884	RDL885		
Sampling Date		2021/11/03	2021/11/03	2021/11/03	2021/11/03	2021/11/03		
COC Number		847927-13-01	847927-13-01	847927-15-01	847927-15-01	847927-15-01		
	UNITS	44-I	44-II	67-II	67-III	75-IV	RDL	QC Batch

Semivolatile Organics								
Acenaphthene	ug/L	<0.80	<0.80	<0.80	<0.80	<0.80	0.80	7687392
Acenaphthylene	ug/L	<0.80	<0.80	<0.80	<0.80	<0.80	0.80	7687392
Anthracene	ug/L	<0.80	<0.80	<0.80	<0.80	<0.80	0.80	7687392
Benzo(a)anthracene	ug/L	<0.80	<0.80	<0.80	<0.80	<0.80	0.80	7687392
Benzo(a)pyrene	ug/L	<0.80	<0.80	<0.80	<0.80	<0.80	0.80	7687392
Benzo(b,j)fluoranthene	ug/L	<0.80	<0.80	<0.80	<0.80	<0.80	0.80	7687392
Benzo(g,h,i)perylene	ug/L	<0.80	<0.80	<0.80	<0.80	<0.80	0.80	7687392
Benzo(k)fluoranthene	ug/L	<0.80	<0.80	<0.80	<0.80	<0.80	0.80	7687392
1-Chloronaphthalene	ug/L	<4.0	<4.0	<4.0	<4.0	<4.0	4.0	7687392
2-Chloronaphthalene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	7687392
Chrysene	ug/L	<0.80	<0.80	<0.80	<0.80	<0.80	0.80	7687392
Dibenzo(a,h)anthracene	ug/L	<0.80	<0.80	<0.80	<0.80	<0.80	0.80	7687392
Fluoranthene	ug/L	<0.80	<0.80	<0.80	<0.80	<0.80	0.80	7687392
Fluorene	ug/L	<0.80	<0.80	<0.80	<0.80	<0.80	0.80	7687392
Indeno(1,2,3-cd)pyrene	ug/L	<0.80	<0.80	<0.80	<0.80	<0.80	0.80	7687392
1-Methylnaphthalene	ug/L	<0.80	<0.80	<0.80	<0.80	<0.80	0.80	7687392
2-Methylnaphthalene	ug/L	<0.80	<0.80	<0.80	<0.80	<0.80	0.80	7687392
Naphthalene	ug/L	<0.80	<0.80	<0.80	<0.80	<0.80	0.80	7687392
5-Nitroacenaphthene	ug/L	<4.0	<4.0	<4.0	<4.0	<4.0	4.0	7687392
Perylene	ug/L	<0.80	<0.80	<0.80	<0.80	<0.80	0.80	7687392
Phenanthrene	ug/L	<0.80	<0.80	<0.80	<0.80	<0.80	0.80	7687392
Pyrene	ug/L	<0.80	<0.80	<0.80	<0.80	<0.80	0.80	7687392
1,2-Dichlorobenzene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	7687392
1,3-Dichlorobenzene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	7687392
1,4-Dichlorobenzene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	7687392
Hexachlorobenzene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	7687392
Pentachlorobenzene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	7687392
1,2,3,5-Tetrachlorobenzene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	7687392
1,2,4,5-Tetrachlorobenzene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	7687392
1,2,3-Trichlorobenzene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	7687392
1,2,4-Trichlorobenzene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	7687392
1,3,5-Trichlorobenzene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	7687392
2-Chlorophenol	ug/L	<1.2	<1.2	<1.2	<1.2	<1.2	1.2	7687392
4-Chloro-3-Methylphenol	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	7687392
m/p-Cresol	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	7687392
o-Cresol	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	7687392

RDL = Reportable Detection Limit
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BUREAU
VERITAS

Bureau Veritas Job #: C1W5119
Report Date: 2021/11/17

Terrapure Environmental
Client Project #: GW
Sampler Initials: CR

SEMI-VOLATILE ORGANICS BY GC-MS (WATER)

Bureau Veritas ID		RDL872	RDL873	RDL883	RDL884	RDL885		
Sampling Date		2021/11/03	2021/11/03	2021/11/03	2021/11/03	2021/11/03		
COC Number		847927-13-01	847927-13-01	847927-15-01	847927-15-01	847927-15-01		
	UNITS	44-I	44-II	67-II	67-III	75-IV	RDL	QC Batch
1,2,3,4-Tetrachlorobenzene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	7687392
2,3-Dichlorophenol	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	7687392
2,4-Dichlorophenol	ug/L	<1.2	<1.2	<1.2	<1.2	<1.2	1.2	7687392
2,5-Dichlorophenol	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	7687392
2,6-Dichlorophenol	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	7687392
3,4-Dichlorophenol	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	7687392
3,5-Dichlorophenol	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	7687392
2,4-Dimethylphenol	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	7687392
2,4-Dinitrophenol	ug/L	<8.0	<8.0	<8.0	<8.0	<8.0	8.0	7687392
4,6-Dinitro-2-methylphenol	ug/L	<8.0	<8.0	<8.0	<8.0	<8.0	8.0	7687392
2-Nitrophenol	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	7687392
4-Nitrophenol	ug/L	<5.6	<5.6	<5.6	<5.6	<5.6	5.6	7687392
Pentachlorophenol	ug/L	<4.0	<4.0	<4.0	<4.0	<4.0	4.0	7687392
Phenol	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	7687392
2,3,4,5-Tetrachlorophenol	ug/L	<1.6	<1.6	<1.6	<1.6	<1.6	1.6	7687392
2,3,4,6-Tetrachlorophenol	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	7687392
2,3,5,6-Tetrachlorophenol	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	7687392
2,3,4-Trichlorophenol	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	7687392
2,3,5-Trichlorophenol	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	7687392
2,3,6-Trichlorophenol	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	7687392
2,4,5-Trichlorophenol	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	7687392
2,4,6-Trichlorophenol	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	7687392
3,4,5-Trichlorophenol	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	7687392
Benzyl butyl phthalate	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	7687392
Biphenyl	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	7687392
Bis(2-chloroethyl)ether	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	7687392
Bis(2-chloroethoxy)methane	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	7687392
Bis(2-chloroisopropyl)ether	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	7687392
Bis(2-ethylhexyl)phthalate	ug/L	<8.0	<8.0	<8.0	<8.0	<8.0	8.0	7687392
4-Bromophenyl phenyl ether	ug/L	<1.2	<1.2	<1.2	<1.2	<1.2	1.2	7687392
p-Chloroaniline	ug/L	<4.0	<4.0	<4.0	<4.0	<4.0	4.0	7687392
4-Chlorophenyl phenyl ether	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	7687392
Di-N-butyl phthalate	ug/L	<8.0	<8.0	<8.0	<8.0	<8.0	8.0	7687392
di-n-octyl phthalate	ug/L	<3.2	<3.2	<3.2	<3.2	<3.2	3.2	7687392
2,4-Dinitrotoluene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	7687392
Diethyl phthalate	ug/L	<4.0	<4.0	<4.0	<4.0	<4.0	4.0	7687392
3,3'-Dichlorobenzidine	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	7687392

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



SEMI-VOLATILE ORGANICS BY GC-MS (WATER)

Bureau Veritas ID		RDL872	RDL873	RDL883	RDL884	RDL885		
Sampling Date		2021/11/03	2021/11/03	2021/11/03	2021/11/03	2021/11/03		
COC Number		847927-13-01	847927-13-01	847927-15-01	847927-15-01	847927-15-01		
	UNITS	44-I	44-II	67-II	67-III	75-IV	RDL	QC Batch
Dimethyl phthalate	ug/L	<4.0	<4.0	<4.0	<4.0	<4.0	4.0	7687392
2,6-Dinitrotoluene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	7687392
Diphenyl Ether	ug/L	<1.2	<1.2	<1.2	<1.2	<1.2	1.2	7687392
Hexachlorobutadiene	ug/L	<1.6	<1.6	<1.6	<1.6	<1.6	1.6	7687392
Hexachlorocyclopentadiene	ug/L	<8.0	<8.0	<8.0	<8.0	<8.0	8.0	7687392
Hexachloroethane	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	7687392
Isophorone	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	7687392
Nitrobenzene	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	7687392
Nitrosodiphenylamine/Diphenylamine	ug/L	<4.0	<4.0	<4.0	<4.0	<4.0	4.0	7687392
N-Nitroso-di-n-propylamine	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	7687392
Surrogate Recovery (%)								
2,4,6-Tribromophenol	%	88	59	90	73	79		7687392
2-Fluorobiphenyl	%	65	65	72	72	66		7687392
2-Fluorophenol	%	35	30	39	37	34		7687392
D14-Terphenyl	%	94	90	97	95	96		7687392
D5-Nitrobenzene	%	76	78	86	89	78		7687392
D5-Phenol	%	21	20	23	23	20		7687392
RDL = Reportable Detection Limit QC Batch = Quality Control Batch								



BUREAU
VERITAS

Bureau Veritas Job #: C1W5119
Report Date: 2021/11/17

Terrapure Environmental
Client Project #: GW
Sampler Initials: CR

VOLATILE ORGANICS BY GC/MS (WATER)

Bureau Veritas ID		RDL872		RDL873			RDL883		
Sampling Date		2021/11/03		2021/11/03			2021/11/03		
COC Number		847927-13-01		847927-13-01			847927-15-01		
	UNITS	44-I	RDL	44-II	RDL	QC Batch	67-II	RDL	QC Batch
Volatile Organics									
Acetone (2-Propanone)	ug/L	<10	10	<10	10	7685001	<10	10	7686768
Benzene	ug/L	<0.10	0.10	<0.10	0.10	7685001	0.19	0.10	7686768
Bromodichloromethane	ug/L	<0.10	0.10	<0.10	0.10	7685001	<0.10	0.10	7686768
Acrolein	ug/L	<10	10	<10	10	7685006	<10	10	7686780
Bromoform	ug/L	<0.20	0.20	<0.20	0.20	7685001	<0.20	0.20	7686768
Bromomethane	ug/L	<0.50	0.50	<0.50	0.50	7685001	<0.50	0.50	7686768
Carbon Tetrachloride	ug/L	<0.10	0.10	<0.10	0.10	7685001	<0.10	0.10	7686768
Chlorobenzene	ug/L	<0.10	0.10	<0.10	0.10	7685001	<0.10	0.10	7686768
Chloroethane	ug/L	<0.20	0.20	<2.0 (1)	2.0	7685001	<0.40 (1)	0.40	7686768
Chloroform	ug/L	<0.10	0.10	<0.10	0.10	7685001	<0.10	0.10	7686768
Acrylonitrile	ug/L	<5.0	5.0	<5.0	5.0	7685006	<5.0	5.0	7686780
Chloromethane	ug/L	<0.50	0.50	<0.50	0.50	7685001	<0.50	0.50	7686768
Dibromochloromethane	ug/L	<0.20	0.20	<0.20	0.20	7685001	<0.20	0.20	7686768
1,2-Dichlorobenzene	ug/L	<0.20	0.20	<0.20	0.20	7685001	<0.20	0.20	7686768
1,3-Dichlorobenzene	ug/L	<0.20	0.20	<0.20	0.20	7685001	<0.20	0.20	7686768
1,4-Dichlorobenzene	ug/L	<0.20	0.20	<0.20	0.20	7685001	<0.20	0.20	7686768
1,1-Dichloroethane	ug/L	<0.10	0.10	<0.10	0.10	7685001	<0.10	0.10	7686768
1,2-Dichloroethane	ug/L	<0.20	0.20	<0.20	0.20	7685001	<0.20	0.20	7686768
1,1-Dichloroethylene	ug/L	<0.10	0.10	<0.10	0.10	7685001	<0.10	0.10	7686768
cis-1,2-Dichloroethylene	ug/L	<0.10	0.10	<0.10	0.10	7685001	<0.10	0.10	7686768
trans-1,2-Dichloroethylene	ug/L	<0.10	0.10	<0.10	0.10	7685001	<0.10	0.10	7686768
1,2-Dichloropropane	ug/L	<0.10	0.10	<0.10	0.10	7685001	<0.10	0.10	7686768
cis-1,3-Dichloropropene	ug/L	<0.20	0.20	<0.20	0.20	7685001	<0.20	0.20	7686768
trans-1,3-Dichloropropene	ug/L	<0.20	0.20	<0.20	0.20	7685001	<0.20	0.20	7686768
Ethylbenzene	ug/L	<0.10	0.10	<0.10	0.10	7685001	<0.10	0.10	7686768
Ethylene Dibromide	ug/L	<0.20	0.20	<0.20	0.20	7685001	<0.20	0.20	7686768
Methylene Chloride(Dichloromethane)	ug/L	<0.50	0.50	<0.50	0.50	7685001	<0.50	0.50	7686768
Methyl Ethyl Ketone (2-Butanone)	ug/L	<5.0	5.0	<5.0	5.0	7685001	<5.0	5.0	7686768
Methyl Isobutyl Ketone	ug/L	<5.0	5.0	<5.0	5.0	7685001	<5.0	5.0	7686768
Methyl t-butyl ether (MTBE)	ug/L	<0.20	0.20	<0.20	0.20	7685001	<0.20	0.20	7686768
Styrene	ug/L	<0.20	0.20	<0.20	0.20	7685001	<0.20	0.20	7686768
1,1,1,2-Tetrachloroethane	ug/L	<0.20	0.20	<0.20	0.20	7685001	<0.20	0.20	7686768
1,1,2,2-Tetrachloroethane	ug/L	<0.20	0.20	<0.20	0.20	7685001	<0.20	0.20	7686768
Tetrachloroethylene	ug/L	<0.10	0.10	<0.10	0.10	7685001	<0.10	0.10	7686768
Toluene	ug/L	<0.20	0.20	<0.20	0.20	7685001	<0.20	0.20	7686768
RDL = Reportable Detection Limit QC Batch = Quality Control Batch (1) The detection limit was raised due to matrix interferences.									



VOLATILE ORGANICS BY GC/MS (WATER)

Bureau Veritas ID		RDL872		RDL873			RDL883		
Sampling Date		2021/11/03		2021/11/03			2021/11/03		
COC Number		847927-13-01		847927-13-01			847927-15-01		
	UNITS	44-I	RDL	44-II	RDL	QC Batch	67-II	RDL	QC Batch
1,1,1-Trichloroethane	ug/L	<0.10	0.10	<0.10	0.10	7685001	<0.10	0.10	7686768
1,1,2-Trichloroethane	ug/L	<0.20	0.20	<0.20	0.20	7685001	<0.20	0.20	7686768
Trichloroethylene	ug/L	<0.10	0.10	<0.10	0.10	7685001	<0.10	0.10	7686768
Trichlorofluoromethane (FREON 11)	ug/L	<0.20	0.20	<0.20	0.20	7685001	<0.20	0.20	7686768
Vinyl Chloride	ug/L	<0.20	0.20	<0.20	0.20	7685001	<0.20	0.20	7686768
p+m-Xylene	ug/L	<0.10	0.10	<0.10	0.10	7685001	<0.10	0.10	7686768
Methyl Butyl Ketone (2-Hexanone)	ug/L	<5.0	5.0	<5.0	5.0	7685006	<5.0	5.0	7686780
o-Xylene	ug/L	<0.10	0.10	<0.10	0.10	7685001	<0.10	0.10	7686768
Total Xylenes	ug/L	<0.10	0.10	<0.10	0.10	7685001	<0.10	0.10	7686768
Total Trihalomethanes	ug/L	<0.20	0.20	<0.20	0.20	7685001	<0.20	0.20	7686768
Surrogate Recovery (%)									
4-Bromofluorobenzene	%	97		98		7685001	100		7686768
D4-1,2-Dichloroethane	%	89		91		7685001	89		7686768
D8-Toluene	%	101		99		7685001	101		7686768
RDL = Reportable Detection Limit QC Batch = Quality Control Batch									



VOLATILE ORGANICS BY GC/MS (WATER)

Bureau Veritas ID		RDL884	RDL884		RDL885		
Sampling Date		2021/11/03	2021/11/03		2021/11/03		
COC Number		847927-15-01	847927-15-01		847927-15-01		
	UNITS	67-III	67-III Lab-Dup	RDL	75-IV	RDL	QC Batch
Volatile Organics							
Acetone (2-Propanone)	ug/L	<10	<10	10	<10	10	7686768
Benzene	ug/L	<0.10	<0.10	0.10	<0.10	0.10	7686768
Bromodichloromethane	ug/L	<0.10	<0.10	0.10	<0.10	0.10	7686768
Acrolein	ug/L	<10	<10	10	<10	10	7686780
Bromoform	ug/L	<0.20	<0.20	0.20	<0.20	0.20	7686768
Bromomethane	ug/L	<0.50	<0.50	0.50	<0.50	0.50	7686768
Carbon Tetrachloride	ug/L	<0.10	<0.10	0.10	<0.10	0.10	7686768
Chlorobenzene	ug/L	<0.10	<0.10	0.10	<0.10	0.10	7686768
Chloroethane	ug/L	<2.0 (1)	<2.0 (1)	2.0	<0.20	0.20	7686768
Chloroform	ug/L	<0.10	<0.10	0.10	<0.10	0.10	7686768
Acrylonitrile	ug/L	<5.0	<5.0	5.0	<5.0	5.0	7686780
Chloromethane	ug/L	<0.50	<0.50	0.50	<0.50	0.50	7686768
Dibromochloromethane	ug/L	<0.20	<0.20	0.20	<0.20	0.20	7686768
1,2-Dichlorobenzene	ug/L	<0.20	<0.20	0.20	<0.20	0.20	7686768
1,3-Dichlorobenzene	ug/L	<0.20	<0.20	0.20	<0.20	0.20	7686768
1,4-Dichlorobenzene	ug/L	<0.20	<0.20	0.20	<0.20	0.20	7686768
1,1-Dichloroethane	ug/L	<0.10	<0.10	0.10	<0.10	0.10	7686768
1,2-Dichloroethane	ug/L	<0.20	<0.20	0.20	<0.20	0.20	7686768
1,1-Dichloroethylene	ug/L	<0.10	<0.10	0.10	<0.10	0.10	7686768
cis-1,2-Dichloroethylene	ug/L	<0.10	<0.10	0.10	<0.10	0.10	7686768
trans-1,2-Dichloroethylene	ug/L	<0.10	<0.10	0.10	<0.10	0.10	7686768
1,2-Dichloropropane	ug/L	<0.10	<0.10	0.10	<0.10	0.10	7686768
cis-1,3-Dichloropropene	ug/L	<0.20	<0.20	0.20	<0.20	0.20	7686768
trans-1,3-Dichloropropene	ug/L	<0.20	<0.20	0.20	<0.20	0.20	7686768
Ethylbenzene	ug/L	<0.10	<0.10	0.10	<0.10	0.10	7686768
Ethylene Dibromide	ug/L	<0.20	<0.20	0.20	<0.20	0.20	7686768
Methylene Chloride(Dichloromethane)	ug/L	<0.50	<0.50	0.50	<0.50	0.50	7686768
Methyl Ethyl Ketone (2-Butanone)	ug/L	<5.0	<5.0	5.0	<5.0	5.0	7686768
Methyl Isobutyl Ketone	ug/L	<5.0	<5.0	5.0	<5.0	5.0	7686768
Methyl t-butyl ether (MTBE)	ug/L	<0.20	<0.20	0.20	<0.20	0.20	7686768
Styrene	ug/L	<0.20	<0.20	0.20	<0.20	0.20	7686768
1,1,1,2-Tetrachloroethane	ug/L	<0.20	<0.20	0.20	<0.20	0.20	7686768
1,1,2,2-Tetrachloroethane	ug/L	<0.20	<0.20	0.20	<0.20	0.20	7686768
Tetrachloroethylene	ug/L	<0.10	<0.10	0.10	<0.10	0.10	7686768
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate (1) The detection limit was raised due to matrix interferences.							



VOLATILE ORGANICS BY GC/MS (WATER)

Bureau Veritas ID		RDL884	RDL884		RDL885		
Sampling Date		2021/11/03	2021/11/03		2021/11/03		
COC Number		847927-15-01	847927-15-01		847927-15-01		
	UNITS	67-III	67-III Lab-Dup	RDL	75-IV	RDL	QC Batch
Toluene	ug/L	<0.20	<0.20	0.20	<0.20	0.20	7686768
1,1,1-Trichloroethane	ug/L	<0.10	<0.10	0.10	<0.10	0.10	7686768
1,1,2-Trichloroethane	ug/L	<0.20	<0.20	0.20	<0.20	0.20	7686768
Trichloroethylene	ug/L	<0.10	<0.10	0.10	<0.10	0.10	7686768
Trichlorofluoromethane (FREON 11)	ug/L	<0.20	<0.20	0.20	<0.20	0.20	7686768
Vinyl Chloride	ug/L	<0.20	<0.20	0.20	<0.20	0.20	7686768
p+m-Xylene	ug/L	<0.10	<0.10	0.10	<0.10	0.10	7686768
Methyl Butyl Ketone (2-Hexanone)	ug/L	<5.0	<5.0	5.0	<5.0	5.0	7686780
o-Xylene	ug/L	<0.10	<0.10	0.10	<0.10	0.10	7686768
Total Xylenes	ug/L	<0.10	<0.10	0.10	<0.10	0.10	7686768
Total Trihalomethanes	ug/L	<0.20	<0.20	0.20	<0.20	0.20	7686768
Surrogate Recovery (%)							
4-Bromofluorobenzene	%	98	99		101		7686768
D4-1,2-Dichloroethane	%	88	90		91		7686768
D8-Toluene	%	100	100		100		7686768
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate							



BUREAU
VERITAS

Bureau Veritas Job #: C1W5119
Report Date: 2021/11/17

Terrapure Environmental
Client Project #: GW
Sampler Initials: CR

O.REG 153 OC PESTICIDES (WATER)

Bureau Veritas ID		RDL872		RDL873		RDL883		RDL884		
Sampling Date		2021/11/03		2021/11/03		2021/11/03		2021/11/03		
COC Number		847927-13-01		847927-13-01		847927-15-01		847927-15-01		
	UNITS	44-I	RDL	44-II	RDL	67-II	RDL	67-III	RDL	QC Batch
Calculated Parameters										
Chlordane (Total)	ug/L	<1	1	<0.005	0.005	<0.01	0.01	<0.005	0.005	7682930
o,p-DDD + p,p-DDD	ug/L	<1	1	<0.005	0.005	<0.01	0.01	<0.005	0.005	7682930
o,p-DDE + p,p-DDE	ug/L	<1	1	<0.005	0.005	<0.01	0.01	0.007	0.005	7682930
o,p-DDT + p,p-DDT	ug/L	<1	1	<0.005	0.005	<0.01	0.01	<0.005	0.005	7682930
Total Endosulfan	ug/L	<1	1	<0.005	0.005	<0.01	0.01	<0.005	0.005	7682930
Total PCB	ug/L	<20	20	<0.05	0.05	<0.2	0.2	<0.05	0.05	7682930
Pesticides & Herbicides										
Aldrin	ug/L	<1	1	<0.005	0.005	<0.01	0.01	<0.005	0.005	7687640
Dieldrin	ug/L	<1	1	<0.005	0.005	<0.01	0.01	<0.005	0.005	7687640
a-Chlordane	ug/L	<1	1	<0.005	0.005	<0.01	0.01	<0.005	0.005	7687640
g-Chlordane	ug/L	<1	1	<0.005	0.005	<0.01	0.01	<0.005	0.005	7687640
o,p-DDD	ug/L	<1	1	<0.005	0.005	<0.01	0.01	<0.005	0.005	7687640
p,p-DDD	ug/L	<1	1	<0.005	0.005	<0.01	0.01	<0.005	0.005	7687640
o,p-DDE	ug/L	<1	1	<0.005	0.005	<0.01	0.01	<0.005	0.005	7687640
p,p-DDE	ug/L	<1	1	<0.005	0.005	<0.01	0.01	0.007	0.005	7687640
o,p-DDT	ug/L	<1	1	<0.005	0.005	<0.01	0.01	<0.005	0.005	7687640
p,p-DDT	ug/L	<1	1	<0.005	0.005	<0.01	0.01	<0.005	0.005	7687640
Lindane	ug/L	<1	1	<0.003	0.003	<0.01	0.01	<0.003	0.003	7687640
Endosulfan I (alpha)	ug/L	<1	1	<0.005	0.005	<0.01	0.01	<0.005	0.005	7687640
Endosulfan II (beta)	ug/L	<1	1	<0.005	0.005	<0.01	0.01	<0.005	0.005	7687640
Endrin	ug/L	<1	1	<0.005	0.005	<0.01	0.01	<0.005	0.005	7687640
Heptachlor	ug/L	<1	1	<0.005	0.005	<0.01	0.01	<0.005	0.005	7687640
Heptachlor epoxide	ug/L	<1	1	<0.005	0.005	<0.01	0.01	<0.005	0.005	7687640
Hexachlorobenzene	ug/L	<1	1	<0.005	0.005	<0.01	0.01	<0.005	0.005	7687640
Hexachlorobutadiene	ug/L	<1	1	<0.009	0.009	<0.02	0.02	<0.009	0.009	7687640
Hexachloroethane	ug/L	<1	1	<0.01	0.01	<0.02	0.02	<0.01	0.01	7687640
Methoxychlor	ug/L	<5	5	<0.01	0.01	<0.03	0.03	<0.01	0.01	7687640
Aroclor 1242	ug/L	<20	20	<0.05	0.05	<0.2	0.2	<0.05	0.05	7687640
Aroclor 1248	ug/L	<20	20	<0.05	0.05	<0.2	0.2	<0.05	0.05	7687640
Aroclor 1254	ug/L	<20	20	<0.05	0.05	<0.2	0.2	<0.05	0.05	7687640
Aroclor 1260	ug/L	<20	20	<0.05	0.05	<0.2	0.2	<0.05	0.05	7687640
alpha-BHC	ug/L	<1	1	<0.005	0.005	<0.01	0.01	<0.005	0.005	7687640
beta-BHC	ug/L	<1	1	<0.005	0.005	<0.01	0.01	<0.005	0.005	7687640
Endrin aldehyde	ug/L	<1	1	<0.005	0.005	<0.01	0.01	<0.005	0.005	7687640
Endrin ketone	ug/L	<1	1	<0.005	0.005	<0.01	0.01	<0.005	0.005	7687640
Mirex	ug/L	<1	1	<0.005	0.005	<0.01	0.01	<0.005	0.005	7687640
RDL = Reportable Detection Limit QC Batch = Quality Control Batch										



BUREAU
VERITAS

Bureau Veritas Job #: C1W5119
Report Date: 2021/11/17

Terrapure Environmental
Client Project #: GW
Sampler Initials: CR

O.REG 153 OC PESTICIDES (WATER)

Bureau Veritas ID		RDL872		RDL873		RDL883		RDL884		
Sampling Date		2021/11/03		2021/11/03		2021/11/03		2021/11/03		
COC Number		847927-13-01		847927-13-01		847927-15-01		847927-15-01		
	UNITS	44-I	RDL	44-II	RDL	67-II	RDL	67-III	RDL	QC Batch
Toxaphene	ug/L	<20	20	<0.2	0.2	<0.4	0.4	<0.2	0.2	7687640
Surrogate Recovery (%)										
2,4,5,6-Tetrachloro-m-xylene	%	76		51		65		61		7687640
Decachlorobiphenyl	%	NC		73		108		94		7687640
RDL = Reportable Detection Limit QC Batch = Quality Control Batch										



BUREAU
VERITAS

Bureau Veritas Job #: C1W5119
Report Date: 2021/11/17

Terrapure Environmental
Client Project #: GW
Sampler Initials: CR

O.REG 153 OC PESTICIDES (WATER)

Bureau Veritas ID		RDL885		
Sampling Date		2021/11/03		
COC Number		847927-15-01		
	UNITS	75-IV	RDL	QC Batch
Calculated Parameters				
Chlordane (Total)	ug/L	<0.01	0.01	7682930
o,p-DDD + p,p-DDD	ug/L	<0.01	0.01	7682930
o,p-DDE + p,p-DDE	ug/L	<0.01	0.01	7682930
o,p-DDT + p,p-DDT	ug/L	<0.01	0.01	7682930
Total Endosulfan	ug/L	<0.01	0.01	7682930
Total PCB	ug/L	<0.2	0.2	7682930
Pesticides & Herbicides				
Aldrin	ug/L	<0.01	0.01	7687640
Dieldrin	ug/L	<0.01	0.01	7687640
a-Chlordane	ug/L	<0.01	0.01	7687640
g-Chlordane	ug/L	<0.01	0.01	7687640
o,p-DDD	ug/L	<0.01	0.01	7687640
p,p-DDD	ug/L	<0.01	0.01	7687640
o,p-DDE	ug/L	<0.01	0.01	7687640
p,p-DDE	ug/L	<0.01	0.01	7687640
o,p-DDT	ug/L	<0.01	0.01	7687640
p,p-DDT	ug/L	<0.01	0.01	7687640
Lindane	ug/L	<0.01	0.01	7687640
Endosulfan I (alpha)	ug/L	<0.01	0.01	7687640
Endosulfan II (beta)	ug/L	<0.01	0.01	7687640
Endrin	ug/L	<0.01	0.01	7687640
Heptachlor	ug/L	<0.01	0.01	7687640
Heptachlor epoxide	ug/L	<0.01	0.01	7687640
Hexachlorobenzene	ug/L	<0.01	0.01	7687640
Hexachlorobutadiene	ug/L	<0.02	0.02	7687640
Hexachloroethane	ug/L	<0.02	0.02	7687640
Methoxychlor	ug/L	<0.03	0.03	7687640
Aroclor 1242	ug/L	<0.2	0.2	7687640
Aroclor 1248	ug/L	<0.2	0.2	7687640
Aroclor 1254	ug/L	<0.2	0.2	7687640
Aroclor 1260	ug/L	<0.2	0.2	7687640
alpha-BHC	ug/L	<0.01	0.01	7687640
beta-BHC	ug/L	<0.01	0.01	7687640
Endrin aldehyde	ug/L	<0.01	0.01	7687640
Endrin ketone	ug/L	<0.01	0.01	7687640
Mirex	ug/L	<0.01	0.01	7687640
RDL = Reportable Detection Limit QC Batch = Quality Control Batch				



O.REG 153 OC PESTICIDES (WATER)

Bureau Veritas ID		RDL885		
Sampling Date		2021/11/03		
COC Number		847927-15-01		
	UNITS	75-IV	RDL	QC Batch
Toxaphene	ug/L	<0.4	0.4	7687640
Surrogate Recovery (%)				
2,4,5,6-Tetrachloro-m-xylene	%	68		7687640
Decachlorobiphenyl	%	94		7687640
RDL = Reportable Detection Limit QC Batch = Quality Control Batch				



BUREAU
VERITAS

Bureau Veritas Job #: C1W5119
Report Date: 2021/11/17

Terrapure Environmental
Client Project #: GW
Sampler Initials: CR

TEST SUMMARY

Bureau Veritas ID: RDL872
Sample ID: 44-I
Matrix: Water

Collected: 2021/11/03
Shipped:
Received: 2021/11/04

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
ABN Compounds in Water by GC/MS	GC/MS	7687392	2021/11/08	2021/11/09	Anh Lieu
Alkalinity	AT	7687253	N/A	2021/11/09	Surinder Rai
Anions	IC	7688250	N/A	2021/11/11	Fari Dehdezi
Conductivity	AT	7687261	N/A	2021/11/09	Surinder Rai
Fluoride	ISE	7687250	2021/11/08	2021/11/09	Surinder Rai
Hardness (calculated as CaCO3)		7682654	N/A	2021/11/09	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7702474	N/A	2021/11/16	Azita Fazaeli
Total Ammonia-N	LACH/NH4	7689767	N/A	2021/11/10	Viorica Rotaru
Nitrate & Nitrite as Nitrogen in Water	LACH	7687349	N/A	2021/11/09	Chandra Nandlal
OC Pesticides (Selected) & PCB	GC/ECD	7687640	2021/11/08	2021/11/09	Mahmudul Khan
OC Pesticides Summed Parameters	CALC	7682930	N/A	2021/11/09	Automated Statchk
pH	AT	7687229	2021/11/08	2021/11/09	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7686709	N/A	2021/11/08	Deonarine Ramnarine
Orthophosphate	KONE	7687677	N/A	2021/11/11	Avneet Kour Sudan
Total Dissolved Solids	BAL	7687110	2021/11/08	2021/11/09	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7689210	2021/11/09	2021/11/12	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7688215	N/A	2021/11/09	Julianna Castiglione
Volatile Organic Compounds in Water	P&T/MS	7685001	N/A	2021/11/09	Rebecca McClean
Non-Routine Volatile Organic Compounds	P&T/MS	7685006	N/A	2021/11/10	Rebecca McClean

Bureau Veritas ID: RDL873
Sample ID: 44-II
Matrix: Water

Collected: 2021/11/03
Shipped:
Received: 2021/11/04

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
ABN Compounds in Water by GC/MS	GC/MS	7687392	2021/11/08	2021/11/09	Anh Lieu
Alkalinity	AT	7687253	N/A	2021/11/09	Surinder Rai
Anions	IC	7688250	N/A	2021/11/11	Fari Dehdezi
Conductivity	AT	7687261	N/A	2021/11/09	Surinder Rai
Fluoride	ISE	7687250	2021/11/08	2021/11/09	Surinder Rai
Hardness (calculated as CaCO3)		7682654	N/A	2021/11/09	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7688220	N/A	2021/11/09	Nan Raykha
Total Ammonia-N	LACH/NH4	7689767	N/A	2021/11/10	Viorica Rotaru
Nitrate & Nitrite as Nitrogen in Water	LACH	7688247	N/A	2021/11/09	Chandra Nandlal
OC Pesticides (Selected) & PCB	GC/ECD	7687640	2021/11/08	2021/11/09	Mahmudul Khan
OC Pesticides Summed Parameters	CALC	7682930	N/A	2021/11/09	Automated Statchk
pH	AT	7687229	2021/11/08	2021/11/09	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7686709	N/A	2021/11/08	Deonarine Ramnarine
Orthophosphate	KONE	7687677	N/A	2021/11/11	Avneet Kour Sudan
Total Dissolved Solids	BAL	7687110	2021/11/08	2021/11/09	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7689210	2021/11/09	2021/11/12	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7688215	N/A	2021/11/09	Julianna Castiglione
Volatile Organic Compounds in Water	P&T/MS	7685001	N/A	2021/11/09	Rebecca McClean
Non-Routine Volatile Organic Compounds	P&T/MS	7685006	N/A	2021/11/10	Rebecca McClean



BUREAU
VERITAS

Bureau Veritas Job #: C1W5119
Report Date: 2021/11/17

Terrapure Environmental
Client Project #: GW
Sampler Initials: CR

TEST SUMMARY

Bureau Veritas ID: RDL873 Dup
Sample ID: 44-II
Matrix: Water

Collected: 2021/11/03
Shipped:
Received: 2021/11/04

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Nitrate & Nitrite as Nitrogen in Water	LACH	7688247	N/A	2021/11/09	Chandra Nandlal

Bureau Veritas ID: RDL874
Sample ID: 2-I
Matrix: Water

Collected: 2021/11/03
Shipped:
Received: 2021/11/04

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7687253	N/A	2021/11/09	Surinder Rai
Anions	IC	7687129	N/A	2021/11/11	Fari Dehdezi
Conductivity	AT	7687261	N/A	2021/11/09	Surinder Rai
Fluoride	ISE	7687250	2021/11/08	2021/11/09	Surinder Rai
Hardness (calculated as CaCO3)		7682654	N/A	2021/11/09	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7688220	N/A	2021/11/09	Nan Raykha
Total Ammonia-N	LACH/NH4	7689767	N/A	2021/11/10	Viorica Rotaru
Nitrate & Nitrite as Nitrogen in Water	LACH	7687349	N/A	2021/11/09	Chandra Nandlal
pH	AT	7687229	2021/11/08	2021/11/09	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7686709	N/A	2021/11/08	Deonarine Ramnarine
Orthophosphate	KONE	7687677	N/A	2021/11/11	Avneet Kour Sudan
Total Dissolved Solids	BAL	7687110	2021/11/08	2021/11/09	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7689210	2021/11/09	2021/11/12	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7688215	N/A	2021/11/10	Julianna Castiglione

Bureau Veritas ID: RDL875
Sample ID: 46-IR
Matrix: Water

Collected: 2021/11/03
Shipped:
Received: 2021/11/04

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7687253	N/A	2021/11/09	Surinder Rai
Anions	IC	7687129	N/A	2021/11/11	Fari Dehdezi
Conductivity	AT	7687261	N/A	2021/11/09	Surinder Rai
Fluoride	ISE	7687250	2021/11/08	2021/11/09	Surinder Rai
Hardness (calculated as CaCO3)		7682654	N/A	2021/11/09	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7688220	N/A	2021/11/09	Nan Raykha
Total Ammonia-N	LACH/NH4	7689767	N/A	2021/11/10	Viorica Rotaru
Nitrate & Nitrite as Nitrogen in Water	LACH	7687349	N/A	2021/11/09	Chandra Nandlal
pH	AT	7687229	2021/11/08	2021/11/09	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7686347	N/A	2021/11/08	Deonarine Ramnarine
Orthophosphate	KONE	7687677	N/A	2021/11/11	Avneet Kour Sudan
Total Dissolved Solids	BAL	7687110	2021/11/08	2021/11/09	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7689210	2021/11/09	2021/11/12	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7688215	N/A	2021/11/09	Julianna Castiglione



BUREAU
VERITAS

Bureau Veritas Job #: C1W5119
Report Date: 2021/11/17

Terrapure Environmental
Client Project #: GW
Sampler Initials: CR

TEST SUMMARY

Bureau Veritas ID: RDL876
Sample ID: 46-IIR
Matrix: Water

Collected: 2021/11/03
Shipped:
Received: 2021/11/04

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7687253	N/A	2021/11/09	Surinder Rai
Anions	IC	7688250	N/A	2021/11/11	Fari Dehdezi
Conductivity	AT	7687261	N/A	2021/11/09	Surinder Rai
Fluoride	ISE	7687250	2021/11/08	2021/11/09	Surinder Rai
Hardness (calculated as CaCO3)		7682654	N/A	2021/11/09	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7688220	N/A	2021/11/09	Nan Raykha
Total Ammonia-N	LACH/NH4	7689767	N/A	2021/11/10	Viorica Rotaru
Nitrate & Nitrite as Nitrogen in Water	LACH	7687349	N/A	2021/11/09	Chandra Nandlal
pH	AT	7687229	2021/11/08	2021/11/09	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7686709	N/A	2021/11/08	Deonarine Ramnarine
Orthophosphate	KONE	7687677	N/A	2021/11/11	Avneet Kour Sudan
Total Dissolved Solids	BAL	7687110	2021/11/08	2021/11/09	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7689210	2021/11/09	2021/11/12	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7688215	N/A	2021/11/09	Julianna Castiglione

Bureau Veritas ID: RDL877
Sample ID: 46-IIIR
Matrix: Water

Collected: 2021/11/03
Shipped:
Received: 2021/11/04

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7687253	N/A	2021/11/09	Surinder Rai
Anions	IC	7687129	N/A	2021/11/11	Fari Dehdezi
Conductivity	AT	7687261	N/A	2021/11/09	Surinder Rai
Fluoride	ISE	7687250	2021/11/08	2021/11/09	Surinder Rai
Hardness (calculated as CaCO3)		7682654	N/A	2021/11/09	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7688220	N/A	2021/11/09	Nan Raykha
Total Ammonia-N	LACH/NH4	7689767	N/A	2021/11/10	Viorica Rotaru
Nitrate & Nitrite as Nitrogen in Water	LACH	7687349	N/A	2021/11/09	Chandra Nandlal
pH	AT	7687229	2021/11/08	2021/11/09	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7686709	N/A	2021/11/08	Deonarine Ramnarine
Orthophosphate	KONE	7687677	N/A	2021/11/11	Avneet Kour Sudan
Total Dissolved Solids	BAL	7687110	2021/11/08	2021/11/09	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7689210	2021/11/09	2021/11/12	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7688215	N/A	2021/11/09	Julianna Castiglione

Bureau Veritas ID: RDL878
Sample ID: P14
Matrix: Water

Collected: 2021/11/03
Shipped:
Received: 2021/11/04

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7687253	N/A	2021/11/09	Surinder Rai
Anions	IC	7687129	N/A	2021/11/11	Fari Dehdezi
Conductivity	AT	7687261	N/A	2021/11/09	Surinder Rai
Fluoride	ISE	7687250	2021/11/08	2021/11/09	Surinder Rai
Hardness (calculated as CaCO3)		7682654	N/A	2021/11/09	Automated Statchk



BUREAU
VERITAS

Bureau Veritas Job #: C1W5119
Report Date: 2021/11/17

Terrapure Environmental
Client Project #: GW
Sampler Initials: CR

TEST SUMMARY

Bureau Veritas ID: RDL878
Sample ID: P14
Matrix: Water

Collected: 2021/11/03
Shipped:
Received: 2021/11/04

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dissolved Metals by ICPMS	ICP/MS	7688220	N/A	2021/11/09	Nan Raykha
Total Ammonia-N	LACH/NH4	7689767	N/A	2021/11/10	Viorica Rotaru
Nitrate & Nitrite as Nitrogen in Water	LACH	7687349	N/A	2021/11/09	Chandra Nandlal
pH	AT	7687229	2021/11/08	2021/11/09	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7686709	N/A	2021/11/09	Deonarine Ramnarine
Orthophosphate	KONE	7687677	N/A	2021/11/11	Avneet Kour Sudan
Total Dissolved Solids	BAL	7687110	2021/11/08	2021/11/09	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7689210	2021/11/09	2021/11/12	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7688215	N/A	2021/11/09	Julianna Castiglione

Bureau Veritas ID: RDL879
Sample ID: P15
Matrix: Water

Collected: 2021/11/03
Shipped:
Received: 2021/11/04

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7687253	N/A	2021/11/09	Surinder Rai
Anions	IC	7688250	N/A	2021/11/11	Fari Dehdezi
Conductivity	AT	7687261	N/A	2021/11/09	Surinder Rai
Fluoride	ISE	7687250	2021/11/08	2021/11/09	Surinder Rai
Hardness (calculated as CaCO3)		7682654	N/A	2021/11/09	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7688220	N/A	2021/11/09	Nan Raykha
Total Ammonia-N	LACH/NH4	7689767	N/A	2021/11/10	Viorica Rotaru
Nitrate & Nitrite as Nitrogen in Water	LACH	7687349	N/A	2021/11/09	Chandra Nandlal
pH	AT	7687229	2021/11/08	2021/11/09	Surinder Rai
Orthophosphate	KONE	7687677	N/A	2021/11/11	Avneet Kour Sudan
Total Dissolved Solids	BAL	7687110	2021/11/08	2021/11/09	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7689210	2021/11/09	2021/11/12	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7688215	N/A	2021/11/09	Julianna Castiglione

Bureau Veritas ID: RDL880
Sample ID: P16
Matrix: Water

Collected: 2021/11/03
Shipped:
Received: 2021/11/04

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7687253	N/A	2021/11/09	Surinder Rai
Anions	IC	7688250	N/A	2021/11/11	Fari Dehdezi
Conductivity	AT	7687261	N/A	2021/11/09	Surinder Rai
Fluoride	ISE	7687250	2021/11/08	2021/11/09	Surinder Rai
Hardness (calculated as CaCO3)		7682654	N/A	2021/11/09	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7688220	N/A	2021/11/09	Nan Raykha
Total Ammonia-N	LACH/NH4	7689767	N/A	2021/11/10	Viorica Rotaru
Nitrate & Nitrite as Nitrogen in Water	LACH	7687349	N/A	2021/11/09	Chandra Nandlal
pH	AT	7687229	2021/11/08	2021/11/09	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7686709	N/A	2021/11/08	Deonarine Ramnarine
Orthophosphate	KONE	7687677	N/A	2021/11/11	Avneet Kour Sudan



BUREAU
VERITAS

Bureau Veritas Job #: C1W5119
Report Date: 2021/11/17

Terrapure Environmental
Client Project #: GW
Sampler Initials: CR

TEST SUMMARY

Bureau Veritas ID: RDL880
Sample ID: P16
Matrix: Water

Collected: 2021/11/03
Shipped:
Received: 2021/11/04

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Dissolved Solids	BAL	7687110	2021/11/08	2021/11/09	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7689210	2021/11/09	2021/11/12	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7688215	N/A	2021/11/09	Julianna Castiglione

Bureau Veritas ID: RDL880 Dup
Sample ID: P16
Matrix: Water

Collected: 2021/11/03
Shipped:
Received: 2021/11/04

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Dissolved Solids	BAL	7687110	2021/11/08	2021/11/09	Shaneil Hall

Bureau Veritas ID: RDL881
Sample ID: P17
Matrix: Water

Collected: 2021/11/03
Shipped:
Received: 2021/11/04

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7687253	N/A	2021/11/09	Surinder Rai
Anions	IC	7687129	N/A	2021/11/11	Fari Dehdezi
Conductivity	AT	7687261	N/A	2021/11/09	Surinder Rai
Fluoride	ISE	7687250	2021/11/08	2021/11/09	Surinder Rai
Hardness (calculated as CaCO3)		7682654	N/A	2021/11/09	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7688220	N/A	2021/11/09	Nan Raykha
Total Ammonia-N	LACH/NH4	7689767	N/A	2021/11/10	Viorica Rotaru
Nitrate & Nitrite as Nitrogen in Water	LACH	7687349	N/A	2021/11/09	Chandra Nandlal
pH	AT	7687229	2021/11/08	2021/11/09	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7686709	N/A	2021/11/08	Deonarine Ramnarine
Orthophosphate	KONE	7687677	N/A	2021/11/11	Avneet Kour Sudan
Total Dissolved Solids	BAL	7687110	2021/11/08	2021/11/09	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7689210	2021/11/09	2021/11/12	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7688215	N/A	2021/11/09	Julianna Castiglione

Bureau Veritas ID: RDL881 Dup
Sample ID: P17
Matrix: Water

Collected: 2021/11/03
Shipped:
Received: 2021/11/04

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Ammonia-N	LACH/NH4	7689767	N/A	2021/11/10	Viorica Rotaru

Bureau Veritas ID: RDL883
Sample ID: 67-II
Matrix: Water

Collected: 2021/11/03
Shipped:
Received: 2021/11/04

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
ABN Compounds in Water by GC/MS	GC/MS	7687392	2021/11/08	2021/11/09	Anh Lieu
OC Pesticides (Selected) & PCB	GC/ECD	7687640	2021/11/08	2021/11/09	Mahmudul Khan
OC Pesticides Summed Parameters	CALC	7682930	N/A	2021/11/10	Automated Statchk



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Bureau Veritas Job #: C1W5119
Report Date: 2021/11/17

Terrapure Environmental
Client Project #: GW
Sampler Initials: CR

TEST SUMMARY

Bureau Veritas ID: RDL883
Sample ID: 67-II
Matrix: Water

Collected: 2021/11/03
Shipped:
Received: 2021/11/04

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Volatile Organic Compounds in Water	P&T/MS	7686768	N/A	2021/11/10	Rebecca McClean
Non-Routine Volatile Organic Compounds	P&T/MS	7686780	N/A	2021/11/11	Rebecca McClean

Bureau Veritas ID: RDL884
Sample ID: 67-III
Matrix: Water

Collected: 2021/11/03
Shipped:
Received: 2021/11/04

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
ABN Compounds in Water by GC/MS	GC/MS	7687392	2021/11/08	2021/11/09	Anh Lieu
OC Pesticides (Selected) & PCB	GC/ECD	7687640	2021/11/08	2021/11/10	Mahmudul Khan
OC Pesticides Summed Parameters	CALC	7682930	N/A	2021/11/10	Automated Statchk
Volatile Organic Compounds in Water	P&T/MS	7686768	N/A	2021/11/10	Rebecca McClean
Non-Routine Volatile Organic Compounds	P&T/MS	7686780	N/A	2021/11/11	Rebecca McClean

Bureau Veritas ID: RDL884 Dup
Sample ID: 67-III
Matrix: Water

Collected: 2021/11/03
Shipped:
Received: 2021/11/04

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Volatile Organic Compounds in Water	P&T/MS	7686768	N/A	2021/11/10	Rebecca McClean
Non-Routine Volatile Organic Compounds	P&T/MS	7686780	N/A	2021/11/11	Rebecca McClean

Bureau Veritas ID: RDL885
Sample ID: 75-IV
Matrix: Water

Collected: 2021/11/03
Shipped:
Received: 2021/11/04

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
ABN Compounds in Water by GC/MS	GC/MS	7687392	2021/11/08	2021/11/09	Anh Lieu
OC Pesticides (Selected) & PCB	GC/ECD	7687640	2021/11/08	2021/11/09	Mahmudul Khan
OC Pesticides Summed Parameters	CALC	7682930	N/A	2021/11/10	Automated Statchk
Volatile Organic Compounds in Water	P&T/MS	7686768	N/A	2021/11/10	Rebecca McClean
Non-Routine Volatile Organic Compounds	P&T/MS	7686780	N/A	2021/11/11	Rebecca McClean

Bureau Veritas ID: RDL886
Sample ID: 4-III
Matrix: Water

Collected: 2021/11/03
Shipped:
Received: 2021/11/04

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7687253	N/A	2021/11/09	Surinder Rai
Anions	IC	7688250	N/A	2021/11/11	Fari Dehdezi
Conductivity	AT	7687261	N/A	2021/11/09	Surinder Rai
Fluoride	ISE	7687250	2021/11/08	2021/11/09	Surinder Rai
Hardness (calculated as CaCO3)		7682654	N/A	2021/11/11	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7688136	N/A	2021/11/11	Nan Raykha
Total Ammonia-N	LACH/NH4	7689767	N/A	2021/11/10	Viorica Rotaru
Nitrate & Nitrite as Nitrogen in Water	LACH	7687349	N/A	2021/11/09	Chandra Nandlal



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Terrapure Environmental
Client Project #: GW
Sampler Initials: CR

TEST SUMMARY

Bureau Veritas ID: RDL886
Sample ID: 4-III
Matrix: Water

Collected: 2021/11/03
Shipped:
Received: 2021/11/04

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
pH	AT	7687229	2021/11/08	2021/11/09	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7686709	N/A	2021/11/09	Deonarine Ramnarine
Orthophosphate	KONE	7687677	N/A	2021/11/11	Avneet Kour Sudan
Total Dissolved Solids	BAL	7687931	2021/11/08	2021/11/09	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7689210	2021/11/09	2021/11/12	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7688215	N/A	2021/11/09	Julianna Castiglione

Bureau Veritas ID: RDL886 Dup
Sample ID: 4-III
Matrix: Water

Collected: 2021/11/03
Shipped:
Received: 2021/11/04

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Anions	IC	7688250	N/A	2021/11/11	Fari Dehdezi

Bureau Veritas ID: REE921
Sample ID: P15
Matrix: Water

Collected: 2021/11/08
Shipped:
Received: 2021/11/04

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Phenols (4AAP)	TECH/PHEN	7691540	N/A	2021/11/10	Deonarine Ramnarine



GENERAL COMMENTS

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

Package 1	1.3°C
Package 2	2.0°C
Package 3	0.3°C
Package 4	2.3°C
Package 5	3.0°C
Package 6	5.0°C
Package 7	5.0°C
Package 8	5.7°C
Package 9	5.0°C

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

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

Sample RDL872 [44-I] : OC Pesticide Analysis: Due to the sample matrix, sample required dilution. Detection limits were adjusted accordingly.

Sample RDL881 [P17] : TKN < Ammonia: Both values fall within the method uncertainty for duplicates and are likely equivalent.

Sample RDL883 [67-II] : OC Pesticide Analysis: Detection limits were raised due to matrix interferences.

Sample RDL885 [75-IV] : OC Pesticide Analysis: Detection limits were raised due to matrix interferences.

Sample REE921 [P15] : Phenol Analysis - sample was submitted to the laboratory on Nov.8, 2021. This is an additional container for P15 (lab# RDL879)

Results relate only to the items tested.



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QUALITY ASSURANCE REPORT

Terrapure Environmental

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QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
7685001	4-Bromofluorobenzene	2021/11/09	100	70 - 130	101	70 - 130	95	%				
7685001	D4-1,2-Dichloroethane	2021/11/09	88	70 - 130	90	70 - 130	87	%				
7685001	D8-Toluene	2021/11/09	103	70 - 130	103	70 - 130	101	%				
7686768	4-Bromofluorobenzene	2021/11/10	100	70 - 130	100	70 - 130	96	%				
7686768	D4-1,2-Dichloroethane	2021/11/10	88	70 - 130	86	70 - 130	88	%				
7686768	D8-Toluene	2021/11/10	102	70 - 130	104	70 - 130	99	%				
7687392	2,4,6-Tribromophenol	2021/11/09	93	10 - 130	85	10 - 130	62	%				
7687392	2-Fluorobiphenyl	2021/11/09	71	30 - 130	61	30 - 130	57	%				
7687392	2-Fluorophenol	2021/11/09	39	10 - 130	41	10 - 130	37	%				
7687392	D14-Terphenyl	2021/11/09	98	30 - 130	97	30 - 130	92	%				
7687392	D5-Nitrobenzene	2021/11/09	90	30 - 130	86	30 - 130	80	%				
7687392	D5-Phenol	2021/11/09	25	10 - 130	25	10 - 130	22	%				
7687640	2,4,5,6-Tetrachloro-m-xylene	2021/11/09	56	50 - 130	46 (2)	50 - 130	74	%				
7687640	Decachlorobiphenyl	2021/11/09	91	50 - 130	92	50 - 130	93	%				
7685001	1,1,1,2-Tetrachloroethane	2021/11/09	104	70 - 130	106	70 - 130	<0.20	ug/L	NC	30		
7685001	1,1,1-Trichloroethane	2021/11/09	106	70 - 130	106	70 - 130	<0.10	ug/L	NC	30		
7685001	1,1,2,2-Tetrachloroethane	2021/11/09	95	70 - 130	93	70 - 130	<0.20	ug/L	NC	30		
7685001	1,1,2-Trichloroethane	2021/11/09	102	70 - 130	101	70 - 130	<0.20	ug/L	NC	30		
7685001	1,1-Dichloroethane	2021/11/09	95	70 - 130	96	70 - 130	<0.10	ug/L	NC	30		
7685001	1,1-Dichloroethylene	2021/11/09	99	70 - 130	101	70 - 130	<0.10	ug/L	NC	30		
7685001	1,2-Dichlorobenzene	2021/11/09	99	70 - 130	100	70 - 130	<0.20	ug/L	NC	30		
7685001	1,2-Dichloroethane	2021/11/09	88	70 - 130	90	70 - 130	<0.20	ug/L	NC	30		
7685001	1,2-Dichloropropane	2021/11/09	97	70 - 130	99	70 - 130	<0.10	ug/L	NC	30		
7685001	1,3-Dichlorobenzene	2021/11/09	105	70 - 130	105	70 - 130	<0.20	ug/L	NC	30		
7685001	1,4-Dichlorobenzene	2021/11/09	120	70 - 130	121	70 - 130	<0.20	ug/L	NC	30		
7685001	Acetone (2-Propanone)	2021/11/09	88	60 - 140	84	60 - 140	<10	ug/L	NC	30		
7685001	Benzene	2021/11/09	98	70 - 130	99	70 - 130	<0.10	ug/L	NC	30		
7685001	Bromodichloromethane	2021/11/09	100	70 - 130	102	70 - 130	<0.10	ug/L	NC	30		
7685001	Bromoform	2021/11/09	103	70 - 130	102	70 - 130	<0.20	ug/L	NC	30		
7685001	Bromomethane	2021/11/09	76	60 - 140	133	60 - 140	<0.50	ug/L	NC	30		
7685001	Carbon Tetrachloride	2021/11/09	102	70 - 130	104	70 - 130	<0.10	ug/L	NC	30		



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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
7685001	Chlorobenzene	2021/11/09	103	70 - 130	104	70 - 130	<0.10	ug/L	NC	30		
7685001	Chloroethane	2021/11/09	73	70 - 130	111	70 - 130	<0.20	ug/L	NC (1)	30		
7685001	Chloroform	2021/11/09	98	70 - 130	101	70 - 130	<0.10	ug/L	NC	30		
7685001	Chloromethane	2021/11/09	99	60 - 140	101	60 - 140	<0.50	ug/L	NC	30		
7685001	cis-1,2-Dichloroethylene	2021/11/09	103	70 - 130	106	70 - 130	<0.10	ug/L	NC	30		
7685001	cis-1,3-Dichloropropene	2021/11/09	99	70 - 130	104	70 - 130	<0.20	ug/L	NC	30		
7685001	Dibromochloromethane	2021/11/09	99	70 - 130	99	70 - 130	<0.20	ug/L	NC	30		
7685001	Ethylbenzene	2021/11/09	102	70 - 130	102	70 - 130	<0.10	ug/L	NC	30		
7685001	Ethylene Dibromide	2021/11/09	97	70 - 130	96	70 - 130	<0.20	ug/L	NC	30		
7685001	Methyl Ethyl Ketone (2-Butanone)	2021/11/09	92	60 - 140	91	60 - 140	<5.0	ug/L	NC	30		
7685001	Methyl Isobutyl Ketone	2021/11/09	99	70 - 130	92	70 - 130	<5.0	ug/L	NC	30		
7685001	Methyl t-butyl ether (MTBE)	2021/11/09	92	70 - 130	93	70 - 130	<0.20	ug/L	NC	30		
7685001	Methylene Chloride(Dichloromethane)	2021/11/09	94	70 - 130	98	70 - 130	<0.50	ug/L	NC	30		
7685001	o-Xylene	2021/11/09	104	70 - 130	104	70 - 130	<0.10	ug/L	NC	30		
7685001	p+m-Xylene	2021/11/09	109	70 - 130	107	70 - 130	<0.10	ug/L	NC	30		
7685001	Styrene	2021/11/09	113	70 - 130	114	70 - 130	<0.20	ug/L	NC	30		
7685001	Tetrachloroethylene	2021/11/09	100	70 - 130	99	70 - 130	<0.10	ug/L	NC	30		
7685001	Toluene	2021/11/09	104	70 - 130	104	70 - 130	<0.20	ug/L	NC	30		
7685001	Total Trihalomethanes	2021/11/09					<0.20	ug/L	NC	30		
7685001	Total Xylenes	2021/11/09					<0.10	ug/L	NC	30		
7685001	trans-1,2-Dichloroethylene	2021/11/09	106	70 - 130	105	70 - 130	<0.10	ug/L	NC	30		
7685001	trans-1,3-Dichloropropene	2021/11/09	105	70 - 130	107	70 - 130	<0.20	ug/L	NC	30		
7685001	Trichloroethylene	2021/11/09	110	70 - 130	112	70 - 130	<0.10	ug/L	NC	30		
7685001	Trichlorofluoromethane (FREON 11)	2021/11/09	94	70 - 130	98	70 - 130	<0.20	ug/L	NC	30		
7685001	Vinyl Chloride	2021/11/09	95	70 - 130	98	70 - 130	<0.20	ug/L	NC	30		
7685006	Acrolein	2021/11/10	100	60 - 140	112	60 - 140	<10	ug/L	NC	30		
7685006	Acrylonitrile	2021/11/10	100	60 - 140	102	60 - 140	<5.0	ug/L	NC	30		
7685006	Methyl Butyl Ketone (2-Hexanone)	2021/11/10	106	60 - 140	96	60 - 140	<5.0	ug/L	NC	30		
7686347	Phenols-4AAP	2021/11/08	99	80 - 120	99	80 - 120	<0.0010	mg/L	NC	20		
7686709	Phenols-4AAP	2021/11/08	103	80 - 120	98	80 - 120	<0.0010	mg/L	NC	20		
7686768	1,1,1,2-Tetrachloroethane	2021/11/10	102	70 - 130	106	70 - 130	<0.20	ug/L	NC	30		



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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
7686768	1,1,1-Trichloroethane	2021/11/10	103	70 - 130	104	70 - 130	<0.10	ug/L	NC	30		
7686768	1,1,2,2-Tetrachloroethane	2021/11/10	95	70 - 130	93	70 - 130	<0.20	ug/L	NC	30		
7686768	1,1,2-Trichloroethane	2021/11/10	101	70 - 130	101	70 - 130	<0.20	ug/L	NC	30		
7686768	1,1-Dichloroethane	2021/11/10	93	70 - 130	94	70 - 130	<0.10	ug/L	NC	30		
7686768	1,1-Dichloroethylene	2021/11/10	94	70 - 130	98	70 - 130	<0.10	ug/L	NC	30		
7686768	1,2-Dichlorobenzene	2021/11/10	98	70 - 130	101	70 - 130	<0.20	ug/L	NC	30		
7686768	1,2-Dichloroethane	2021/11/10	85	70 - 130	88	70 - 130	<0.20	ug/L	NC	30		
7686768	1,2-Dichloropropane	2021/11/10	96	70 - 130	98	70 - 130	<0.10	ug/L	NC	30		
7686768	1,3-Dichlorobenzene	2021/11/10	103	70 - 130	105	70 - 130	<0.20	ug/L	NC	30		
7686768	1,4-Dichlorobenzene	2021/11/10	117	70 - 130	121	70 - 130	<0.20	ug/L	NC	30		
7686768	Acetone (2-Propanone)	2021/11/10	84	60 - 140	80	60 - 140	<10	ug/L	NC	30		
7686768	Benzene	2021/11/10	97	70 - 130	99	70 - 130	<0.10	ug/L	NC	30		
7686768	Bromodichloromethane	2021/11/10	99	70 - 130	100	70 - 130	<0.10	ug/L	NC	30		
7686768	Bromoform	2021/11/10	101	70 - 130	105	70 - 130	<0.20	ug/L	NC	30		
7686768	Bromomethane	2021/11/10	95	60 - 140	111	60 - 140	<0.50	ug/L	NC	30		
7686768	Carbon Tetrachloride	2021/11/10	100	70 - 130	101	70 - 130	<0.10	ug/L	NC	30		
7686768	Chlorobenzene	2021/11/10	102	70 - 130	105	70 - 130	<0.10	ug/L	NC	30		
7686768	Chloroethane	2021/11/10	77	70 - 130	102	70 - 130	<0.20	ug/L	NC (1)	30		
7686768	Chloroform	2021/11/10	98	70 - 130	99	70 - 130	<0.10	ug/L	NC	30		
7686768	Chloromethane	2021/11/10	103	60 - 140	97	60 - 140	<0.50	ug/L	NC	30		
7686768	cis-1,2-Dichloroethylene	2021/11/10	102	70 - 130	103	70 - 130	<0.10	ug/L	NC	30		
7686768	cis-1,3-Dichloropropene	2021/11/10	101	70 - 130	101	70 - 130	<0.20	ug/L	NC	30		
7686768	Dibromochloromethane	2021/11/10	99	70 - 130	100	70 - 130	<0.20	ug/L	NC	30		
7686768	Ethylbenzene	2021/11/10	100	70 - 130	101	70 - 130	<0.10	ug/L	NC	30		
7686768	Ethylene Dibromide	2021/11/10	97	70 - 130	96	70 - 130	<0.20	ug/L	NC	30		
7686768	Methyl Ethyl Ketone (2-Butanone)	2021/11/10	93	60 - 140	88	60 - 140	<5.0	ug/L	NC	30		
7686768	Methyl Isobutyl Ketone	2021/11/10	101	70 - 130	91	70 - 130	<5.0	ug/L	NC	30		
7686768	Methyl t-butyl ether (MTBE)	2021/11/10	96	70 - 130	92	70 - 130	<0.20	ug/L	NC	30		
7686768	Methylene Chloride(Dichloromethane)	2021/11/10	89	70 - 130	95	70 - 130	<0.50	ug/L	NC	30		
7686768	o-Xylene	2021/11/10	103	70 - 130	104	70 - 130	<0.10	ug/L	NC	30		
7686768	p+m-Xylene	2021/11/10	106	70 - 130	106	70 - 130	<0.10	ug/L	NC	30		



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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
7686768	Styrene	2021/11/10	109	70 - 130	116	70 - 130	<0.20	ug/L	NC	30		
7686768	Tetrachloroethylene	2021/11/10	97	70 - 130	99	70 - 130	<0.10	ug/L	NC	30		
7686768	Toluene	2021/11/10	103	70 - 130	104	70 - 130	<0.20	ug/L	NC	30		
7686768	Total Trihalomethanes	2021/11/10					<0.20	ug/L	NC	30		
7686768	Total Xylenes	2021/11/10					<0.10	ug/L	NC	30		
7686768	trans-1,2-Dichloroethylene	2021/11/10	103	70 - 130	106	70 - 130	<0.10	ug/L	NC	30		
7686768	trans-1,3-Dichloropropene	2021/11/10	106	70 - 130	105	70 - 130	<0.20	ug/L	NC	30		
7686768	Trichloroethylene	2021/11/10	108	70 - 130	109	70 - 130	<0.10	ug/L	NC	30		
7686768	Trichlorofluoromethane (FREON 11)	2021/11/10	87	70 - 130	90	70 - 130	<0.20	ug/L	NC	30		
7686768	Vinyl Chloride	2021/11/10	84	70 - 130	90	70 - 130	<0.20	ug/L	NC	30		
7686780	Acrolein	2021/11/11	76	60 - 140	114	60 - 140	<10	ug/L	NC	30		
7686780	Acrylonitrile	2021/11/11	107	60 - 140	100	60 - 140	<5.0	ug/L	NC	30		
7686780	Methyl Butyl Ketone (2-Hexanone)	2021/11/11			96	60 - 140	<5.0	ug/L	NC	30		
7687110	Total Dissolved Solids	2021/11/09					<10	mg/L	1.3	25	97	90 - 110
7687129	Dissolved Bromide (Br-)	2021/11/11	98	80 - 120	101	80 - 120	<1.0	mg/L	NC	20		
7687129	Dissolved Chloride (Cl-)	2021/11/11	NC	80 - 120	97	70 - 130	<1.0	mg/L	1.5	20		
7687129	Dissolved Sulphate (SO4)	2021/11/11	NC	80 - 120	95	80 - 120	<1.0	mg/L	2.8	20		
7687229	pH	2021/11/09			102	98 - 103			0.35	N/A		
7687250	Fluoride (F-)	2021/11/09	79 (2)	80 - 120	105	80 - 120	<0.10	mg/L	0	20		
7687253	Alkalinity (Total as CaCO3)	2021/11/09			93	85 - 115	<1.0	mg/L	0.41	20		
7687261	Conductivity	2021/11/09			100	85 - 115	<1.0	umho/cm	0.55	25		
7687349	Nitrate (N)	2021/11/10	98	80 - 120	103	80 - 120	<0.10	mg/L	NC	20		
7687349	Nitrite (N)	2021/11/10	105	80 - 120	106	80 - 120	<0.010	mg/L	NC	20		
7687392	1,2,3,4-Tetrachlorobenzene	2021/11/09	69	30 - 130	58	30 - 130	<0.50	ug/L	NC	40		
7687392	1,2,3,5-Tetrachlorobenzene	2021/11/09	74	30 - 130	60	30 - 130	<0.50	ug/L	NC	40		
7687392	1,2,3-Trichlorobenzene	2021/11/09	61	30 - 130	52	30 - 130	<0.50	ug/L	NC	40		
7687392	1,2,4,5-Tetrachlorobenzene	2021/11/09	71	30 - 130	58	30 - 130	<0.50	ug/L	NC	40		
7687392	1,2,4-Trichlorobenzene	2021/11/09	59	30 - 130	50	30 - 130	<0.50	ug/L	NC	40		
7687392	1,2-Dichlorobenzene	2021/11/09	60	30 - 130	52	30 - 130	<0.50	ug/L	NC	40		
7687392	1,3,5-Trichlorobenzene	2021/11/09	68	30 - 130	64	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
7687392	1,3-Dichlorobenzene	2021/11/09	54	30 - 130	47	30 - 130	<0.50	ug/L	NC	40		
7687392	1,4-Dichlorobenzene	2021/11/09	57	30 - 130	50	30 - 130	<0.50	ug/L	NC	40		
7687392	1-Chloronaphthalene	2021/11/09	67	30 - 130	60	30 - 130	<1.0	ug/L	NC	40		
7687392	1-Methylnaphthalene	2021/11/09	80	30 - 130	70	30 - 130	<0.20	ug/L	NC	40		
7687392	2,3,4,5-Tetrachlorophenol	2021/11/09	92	10 - 130	81	10 - 130	<0.40	ug/L	NC	40		
7687392	2,3,4,6-Tetrachlorophenol	2021/11/09	110	10 - 130	91	10 - 130	<0.50	ug/L	NC	40		
7687392	2,3,4-Trichlorophenol	2021/11/09	80	10 - 130	77	10 - 130	<0.50	ug/L	NC	40		
7687392	2,3,5,6-Tetrachlorophenol	2021/11/09	105	10 - 130	84	10 - 130	<0.50	ug/L	NC	40		
7687392	2,3,5-Trichlorophenol	2021/11/09	92	10 - 130	83	10 - 130	<0.50	ug/L	NC	40		
7687392	2,3,6-Trichlorophenol	2021/11/09	80	10 - 130	79	10 - 130	<0.50	ug/L	NC	40		
7687392	2,3-Dichlorophenol	2021/11/09	74	10 - 130	72	10 - 130	<0.50	ug/L	NC	40		
7687392	2,4,5-Trichlorophenol	2021/11/09	96	10 - 130	89	10 - 130	<0.50	ug/L	NC	40		
7687392	2,4,6-Trichlorophenol	2021/11/09	92	10 - 130	84	10 - 130	<0.50	ug/L	NC	40		
7687392	2,4-Dichlorophenol	2021/11/09	82	10 - 130	77	10 - 130	<0.30	ug/L	NC	40		
7687392	2,4-Dimethylphenol	2021/11/09	57	10 - 130	55	10 - 130	<0.50	ug/L	NC	40		
7687392	2,4-Dinitrophenol	2021/11/09	59	10 - 130	72	10 - 130	<2.0	ug/L	NC	40		
7687392	2,4-Dinitrotoluene	2021/11/09	112	30 - 130	95	30 - 130	<0.50	ug/L	NC	40		
7687392	2,5-Dichlorophenol	2021/11/09	79	10 - 130	70	10 - 130	<0.50	ug/L	NC	40		
7687392	2,6-Dichlorophenol	2021/11/09	77	10 - 130	70	10 - 130	<0.50	ug/L	NC	40		
7687392	2,6-Dinitrotoluene	2021/11/09	101	30 - 130	89	30 - 130	<0.50	ug/L	NC	40		
7687392	2-Chloronaphthalene	2021/11/09	77	30 - 130	73	30 - 130	<0.50	ug/L	NC	40		
7687392	2-Chlorophenol	2021/11/09	75	10 - 130	72	10 - 130	<0.30	ug/L	NC	40		
7687392	2-Methylnaphthalene	2021/11/09	76	30 - 130	66	30 - 130	<0.20	ug/L	NC	40		
7687392	2-Nitrophenol	2021/11/09	85	10 - 130	79	10 - 130	<0.50	ug/L	NC	40		
7687392	3,3'-Dichlorobenzidine	2021/11/09	17 (2)	30 - 130	85	30 - 130	<0.50	ug/L	NC	40		
7687392	3,4,5-Trichlorophenol	2021/11/09	91	10 - 130	80	10 - 130	<0.50	ug/L	NC	40		
7687392	3,4-Dichlorophenol	2021/11/09	97	10 - 130	87	10 - 130	<0.50	ug/L	NC	40		
7687392	3,5-Dichlorophenol	2021/11/09	104	10 - 130	92	10 - 130	<0.50	ug/L	NC	40		
7687392	4,6-Dinitro-2-methylphenol	2021/11/09	91	10 - 130	108	10 - 130	<2.0	ug/L	NC	40		
7687392	4-Bromophenyl phenyl ether	2021/11/09	85	30 - 130	76	30 - 130	<0.30	ug/L	NC	40		
7687392	4-Chloro-3-Methylphenol	2021/11/09	78	10 - 130	68	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
7687392	4-Chlorophenyl phenyl ether	2021/11/09	87	30 - 130	73	30 - 130	<0.50	ug/L	NC	40		
7687392	4-Nitrophenol	2021/11/09	31	10 - 130	27	10 - 130	<1.4	ug/L	NC	40		
7687392	5-Nitroacenaphthene	2021/11/09	101	30 - 130	99	30 - 130	<1.0	ug/L				
7687392	Acenaphthene	2021/11/09	91	30 - 130	81	30 - 130	<0.20	ug/L	NC	40		
7687392	Acenaphthylene	2021/11/09	89	30 - 130	81	30 - 130	<0.20	ug/L	NC	40		
7687392	Anthracene	2021/11/09	88	30 - 130	84	30 - 130	<0.20	ug/L	NC	40		
7687392	Benzo(a)anthracene	2021/11/09	101	30 - 130	99	30 - 130	<0.20	ug/L	NC	40		
7687392	Benzo(a)pyrene	2021/11/09	102	30 - 130	101	30 - 130	<0.20	ug/L	NC	40		
7687392	Benzo(b,j)fluoranthene	2021/11/09	101	30 - 130	99	30 - 130	<0.20	ug/L	NC	40		
7687392	Benzo(g,h,i)perylene	2021/11/09	90	30 - 130	85	30 - 130	<0.20	ug/L	NC	40		
7687392	Benzo(k)fluoranthene	2021/11/09	94	30 - 130	97	30 - 130	<0.20	ug/L	NC	40		
7687392	Benzyl butyl phthalate	2021/11/09	103	30 - 130	101	30 - 130	<0.50	ug/L	NC	40		
7687392	Biphenyl	2021/11/09	75	30 - 130	76	30 - 130	<0.50	ug/L	NC	40		
7687392	Bis(2-chloroethoxy)methane	2021/11/09	76	30 - 130	71	30 - 130	<0.50	ug/L	NC	40		
7687392	Bis(2-chloroethyl)ether	2021/11/09	84	30 - 130	80	30 - 130	<0.50	ug/L	NC	40		
7687392	Bis(2-chloroisopropyl)ether	2021/11/09	77	30 - 130	73	30 - 130	<0.50	ug/L	NC	40		
7687392	Bis(2-ethylhexyl)phthalate	2021/11/09	100	30 - 130	98	30 - 130	<2.0	ug/L	NC	40		
7687392	Chrysene	2021/11/09	102	30 - 130	103	30 - 130	<0.20	ug/L	NC	40		
7687392	Dibenzo(a,h)anthracene	2021/11/09	96	30 - 130	90	30 - 130	<0.20	ug/L	NC	40		
7687392	Diethyl phthalate	2021/11/09	95	30 - 130	90	30 - 130	<1.0	ug/L	NC	40		
7687392	Dimethyl phthalate	2021/11/09	98	30 - 130	89	30 - 130	<1.0	ug/L	NC	40		
7687392	Di-N-butyl phthalate	2021/11/09	103	30 - 130	103	30 - 130	<2.0	ug/L	NC	40		
7687392	di-n-octyl phthalate	2021/11/09	110	30 - 130	109	30 - 130	<0.80	ug/L	NC	40		
7687392	Diphenyl Ether	2021/11/09	84	30 - 130	75	30 - 130	<0.30	ug/L	NC	40		
7687392	Fluoranthene	2021/11/09	94	30 - 130	94	30 - 130	<0.20	ug/L	NC	40		
7687392	Fluorene	2021/11/09	95	30 - 130	84	30 - 130	<0.20	ug/L	NC	40		
7687392	Hexachlorobenzene	2021/11/09	87	30 - 130	80	30 - 130	<0.50	ug/L	NC	40		
7687392	Hexachlorobutadiene	2021/11/09	57	30 - 130	50	30 - 130	<0.40	ug/L	NC	40		
7687392	Hexachlorocyclopentadiene	2021/11/09	56	30 - 130	66	30 - 130	<2.0	ug/L	NC	40		
7687392	Hexachloroethane	2021/11/09	56	30 - 130	50	30 - 130	<0.50	ug/L	NC	40		
7687392	Indeno(1,2,3-cd)pyrene	2021/11/09	93	30 - 130	86	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
7687392	Isophorone	2021/11/09	90	30 - 130	83	30 - 130	<0.50	ug/L	NC	40		
7687392	m/p-Cresol	2021/11/09	54	10 - 130	54	10 - 130	<0.50	ug/L	NC	40		
7687392	Naphthalene	2021/11/09	66	30 - 130	66	30 - 130	<0.20	ug/L	NC	40		
7687392	Nitrobenzene	2021/11/09	84	30 - 130	80	30 - 130	<0.50	ug/L	NC	40		
7687392	Nitrosodiphenylamine/Diphenylamine	2021/11/09	111	30 - 130	104	30 - 130	<1.0	ug/L	NC	40		
7687392	N-Nitroso-di-n-propylamine	2021/11/09	107	30 - 130	108	30 - 130	<0.50	ug/L	NC	40		
7687392	o-Cresol	2021/11/09	65	10 - 130	63	10 - 130	<0.50	ug/L	NC	40		
7687392	p-Chloroaniline	2021/11/09	33	30 - 130	95	30 - 130	<1.0	ug/L	NC	40		
7687392	Pentachlorobenzene	2021/11/09	77	30 - 130	67	30 - 130	<0.50	ug/L	NC	40		
7687392	Pentachlorophenol	2021/11/09	90	10 - 130	69	10 - 130	<1.0	ug/L	NC	40		
7687392	Perylene	2021/11/09	97	30 - 130	95	30 - 130	<0.20	ug/L	NC	40		
7687392	Phenanthrene	2021/11/09	93	30 - 130	89	30 - 130	<0.20	ug/L	NC	40		
7687392	Phenol	2021/11/09	27	10 - 130	26	10 - 130	<0.50	ug/L	NC	40		
7687392	Pyrene	2021/11/09	107	30 - 130	103	30 - 130	<0.20	ug/L	NC	40		
7687640	a-Chlordane	2021/11/09	51	50 - 130	85	50 - 130	<0.005	ug/L	3.2	30		
7687640	Aldrin	2021/11/09	56	50 - 130	74	50 - 130	<0.005	ug/L	4.2	30		
7687640	alpha-BHC	2021/11/09	79	30 - 130	86	30 - 130	<0.005	ug/L	3.5	40		
7687640	Aroclor 1242	2021/11/09					<0.05	ug/L				
7687640	Aroclor 1248	2021/11/09					<0.05	ug/L				
7687640	Aroclor 1254	2021/11/09					<0.05	ug/L				
7687640	Aroclor 1260	2021/11/09					<0.05	ug/L				
7687640	beta-BHC	2021/11/09	70	30 - 130	77	30 - 130	<0.005	ug/L	2.7	40		
7687640	Dieldrin	2021/11/09	75	50 - 130	98	50 - 130	<0.005	ug/L	1.1	30		
7687640	Endosulfan I (alpha)	2021/11/09	68	50 - 130	84	50 - 130	<0.005	ug/L	4.0	30		
7687640	Endosulfan II (beta)	2021/11/09	70	50 - 130	76	50 - 130	<0.005	ug/L	2.6	30		
7687640	Endrin aldehyde	2021/11/09	58	30 - 130	75	30 - 130	<0.005	ug/L	0.53	40		
7687640	Endrin ketone	2021/11/09	87	30 - 130	91	30 - 130	<0.005	ug/L	5.4	40		
7687640	Endrin	2021/11/09	72	50 - 130	83	50 - 130	<0.005	ug/L	3.6	30		
7687640	g-Chlordane	2021/11/09	57	50 - 130	86	50 - 130	<0.005	ug/L	2.6	30		
7687640	Heptachlor epoxide	2021/11/09	78	50 - 130	90	50 - 130	<0.005	ug/L	4.7	30		
7687640	Heptachlor	2021/11/09	71	50 - 130	72	50 - 130	<0.005	ug/L	4.4	30		



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			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
7687640	Hexachlorobenzene	2021/11/09	76	50 - 130	84	50 - 130	<0.005	ug/L	NC	30		
7687640	Hexachlorobutadiene	2021/11/09	73	50 - 130	73	50 - 130	<0.009	ug/L	5.7	30		
7687640	Hexachloroethane	2021/11/09	60	50 - 130	62	50 - 130	<0.01	ug/L	2.5	30		
7687640	Lindane	2021/11/09	87	50 - 130	97	50 - 130	<0.003	ug/L	2.9	30		
7687640	Methoxychlor	2021/11/09	82	50 - 130	76	50 - 130	<0.01	ug/L	6.2	30		
7687640	Mirex	2021/11/09	77	30 - 130	88	30 - 130	<0.005	ug/L	12	40		
7687640	o,p-DDD	2021/11/09	66	50 - 130	106	50 - 130	<0.005	ug/L	4.5	30		
7687640	o,p-DDE	2021/11/09	80	50 - 130	102	50 - 130	<0.005	ug/L	3.8	30		
7687640	o,p-DDT	2021/11/09	71	50 - 130	75	50 - 130	<0.005	ug/L	4.4	30		
7687640	p,p-DDD	2021/11/09	79	50 - 130	97	50 - 130	<0.005	ug/L	5.2	30		
7687640	p,p-DDE	2021/11/09	74	50 - 130	88	50 - 130	<0.005	ug/L	5.8	30		
7687640	p,p-DDT	2021/11/09	62	50 - 130	61	50 - 130	<0.005	ug/L	3.5	30		
7687640	Toxaphene	2021/11/09					<0.2	ug/L				
7687677	Orthophosphate (P)	2021/11/11	103	75 - 125	101	80 - 120	<0.010	mg/L	1.1	25		
7687931	Total Dissolved Solids	2021/11/09					<10	mg/L	0.83	25	98	90 - 110
7688136	Dissolved Aluminum (Al)	2021/11/11	105	80 - 120	105	80 - 120	<4.9	ug/L	4.2	20		
7688136	Dissolved Antimony (Sb)	2021/11/11	103	80 - 120	105	80 - 120	<0.50	ug/L	NC	20		
7688136	Dissolved Arsenic (As)	2021/11/11	100	80 - 120	102	80 - 120	<1.0	ug/L	NC	20		
7688136	Dissolved Barium (Ba)	2021/11/11	101	80 - 120	100	80 - 120	<2.0	ug/L	8.2	20		
7688136	Dissolved Beryllium (Be)	2021/11/11	106	80 - 120	106	80 - 120	<0.40	ug/L	NC	20		
7688136	Dissolved Bismuth (Bi)	2021/11/11	94	80 - 120	97	80 - 120	<1.0	ug/L	NC	20		
7688136	Dissolved Boron (B)	2021/11/11	101	80 - 120	100	80 - 120	<10	ug/L	NC	20		
7688136	Dissolved Cadmium (Cd)	2021/11/11	100	80 - 120	101	80 - 120	<0.090	ug/L	NC	20		
7688136	Dissolved Calcium (Ca)	2021/11/11	NC	80 - 120	105	80 - 120	<200	ug/L	0.89	20		
7688136	Dissolved Chromium (Cr)	2021/11/11	101	80 - 120	103	80 - 120	<5.0	ug/L	NC	20		
7688136	Dissolved Cobalt (Co)	2021/11/11	102	80 - 120	103	80 - 120	<0.50	ug/L	5.5	20		
7688136	Dissolved Copper (Cu)	2021/11/11	103	80 - 120	105	80 - 120	<0.90	ug/L	5.6	20		
7688136	Dissolved Iron (Fe)	2021/11/11	100	80 - 120	101	80 - 120	<100	ug/L	NC	20		
7688136	Dissolved Lead (Pb)	2021/11/11	95	80 - 120	97	80 - 120	<0.50	ug/L	NC	20		
7688136	Dissolved Lithium (Li)	2021/11/11	109	80 - 120	109	80 - 120	<5.0	ug/L	NC	20		
7688136	Dissolved Magnesium (Mg)	2021/11/11	102	80 - 120	102	80 - 120	<50	ug/L	0.38	20		



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			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
7688136	Dissolved Manganese (Mn)	2021/11/11	102	80 - 120	105	80 - 120	<2.0	ug/L	1.8	20		
7688136	Dissolved Molybdenum (Mo)	2021/11/11	107	80 - 120	105	80 - 120	<0.50	ug/L	4.0	20		
7688136	Dissolved Nickel (Ni)	2021/11/11	97	80 - 120	100	80 - 120	<1.0	ug/L	9.9	20		
7688136	Dissolved Phosphorus (P)	2021/11/11	113	80 - 120	126 (2)	80 - 120	<100	ug/L	NC	20		
7688136	Dissolved Potassium (K)	2021/11/11	103	80 - 120	105	80 - 120	<200	ug/L	4.0	20		
7688136	Dissolved Selenium (Se)	2021/11/11	101	80 - 120	100	80 - 120	<2.0	ug/L	NC	20		
7688136	Dissolved Silicon (Si)	2021/11/11	103	80 - 120	103	80 - 120	<50	ug/L	1.0	20		
7688136	Dissolved Silver (Ag)	2021/11/11	102	80 - 120	103	80 - 120	<0.090	ug/L	NC	20		
7688136	Dissolved Sodium (Na)	2021/11/11	101	80 - 120	102	80 - 120	<100	ug/L	2.5	20		
7688136	Dissolved Strontium (Sr)	2021/11/11	99	80 - 120	102	80 - 120	<1.0	ug/L	9.9	20		
7688136	Dissolved Tellurium (Te)	2021/11/11	103	80 - 120	104	80 - 120	<1.0	ug/L	NC	20		
7688136	Dissolved Thallium (Tl)	2021/11/11	97	80 - 120	99	80 - 120	<0.050	ug/L	NC	20		
7688136	Dissolved Tin (Sn)	2021/11/11	101	80 - 120	104	80 - 120	<1.0	ug/L	NC	20		
7688136	Dissolved Titanium (Ti)	2021/11/11	102	80 - 120	100	80 - 120	<5.0	ug/L	NC	20		
7688136	Dissolved Tungsten (W)	2021/11/11	100	80 - 120	102	80 - 120	<1.0	ug/L	0.14	20		
7688136	Dissolved Uranium (U)	2021/11/11	95	80 - 120	96	80 - 120	<0.10	ug/L	1.3	20		
7688136	Dissolved Vanadium (V)	2021/11/11	100	80 - 120	102	80 - 120	<0.50	ug/L	NC	20		
7688136	Dissolved Zinc (Zn)	2021/11/11	100	80 - 120	100	80 - 120	<5.0	ug/L	2.8	20		
7688136	Dissolved Zirconium (Zr)	2021/11/11	106	80 - 120	107	80 - 120	<1.0	ug/L	NC	20		
7688215	Total Organic Carbon (TOC)	2021/11/09	95	80 - 120	96	80 - 120	<0.40	mg/L	1.9	20		
7688220	Dissolved Aluminum (Al)	2021/11/09	100	80 - 120	100	80 - 120	<4.9	ug/L	4.3	20		
7688220	Dissolved Antimony (Sb)	2021/11/09	106	80 - 120	103	80 - 120	<0.50	ug/L	NC	20		
7688220	Dissolved Arsenic (As)	2021/11/09	101	80 - 120	99	80 - 120	<1.0	ug/L	NC	20		
7688220	Dissolved Barium (Ba)	2021/11/09	101	80 - 120	102	80 - 120	<2.0	ug/L	1.5	20		
7688220	Dissolved Beryllium (Be)	2021/11/09	99	80 - 120	101	80 - 120	<0.40	ug/L	NC	20		
7688220	Dissolved Bismuth (Bi)	2021/11/09	91	80 - 120	98	80 - 120	<1.0	ug/L	NC	20		
7688220	Dissolved Boron (B)	2021/11/09	NC	80 - 120	98	80 - 120	<10	ug/L	1.1	20		
7688220	Dissolved Cadmium (Cd)	2021/11/09	99	80 - 120	99	80 - 120	<0.090	ug/L	NC	20		
7688220	Dissolved Calcium (Ca)	2021/11/09	NC	80 - 120	99	80 - 120	<200	ug/L	2.6	20		
7688220	Dissolved Chromium (Cr)	2021/11/09	99	80 - 120	97	80 - 120	<5.0	ug/L	NC	20		
7688220	Dissolved Cobalt (Co)	2021/11/09	97	80 - 120	97	80 - 120	<0.50	ug/L	11	20		



BUREAU
VERITAS

Bureau Veritas Job #: C1W5119

Report Date: 2021/11/17

QUALITY ASSURANCE REPORT(CONT'D)

Terrapure Environmental

Client Project #: GW

Sampler Initials: CR

QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
7688220	Dissolved Copper (Cu)	2021/11/09	102	80 - 120	99	80 - 120	<0.90	ug/L	NC	20		
7688220	Dissolved Iron (Fe)	2021/11/09	98	80 - 120	99	80 - 120	<100	ug/L	NC	20		
7688220	Dissolved Lead (Pb)	2021/11/09	92	80 - 120	97	80 - 120	<0.50	ug/L	NC	20		
7688220	Dissolved Lithium (Li)	2021/11/09	NC	80 - 120	105	80 - 120	<5.0	ug/L	1.8	20		
7688220	Dissolved Magnesium (Mg)	2021/11/09	101	80 - 120	98	80 - 120	<50	ug/L	3.4	20		
7688220	Dissolved Manganese (Mn)	2021/11/09	100	80 - 120	100	80 - 120	<2.0	ug/L	0.25	20		
7688220	Dissolved Molybdenum (Mo)	2021/11/09	109	80 - 120	102	80 - 120	<0.50	ug/L	1.9	20		
7688220	Dissolved Nickel (Ni)	2021/11/09	94	80 - 120	96	80 - 120	<1.0	ug/L	6.1	20		
7688220	Dissolved Phosphorus (P)	2021/11/09	109	80 - 120	111	80 - 120	<100	ug/L	NC	20		
7688220	Dissolved Potassium (K)	2021/11/09	NC	80 - 120	97	80 - 120	<200	ug/L	2.5	20		
7688220	Dissolved Selenium (Se)	2021/11/09	96	80 - 120	98	80 - 120	<2.0	ug/L	NC	20		
7688220	Dissolved Silicon (Si)	2021/11/09	99	80 - 120	98	80 - 120	<50	ug/L	2.0	20		
7688220	Dissolved Silver (Ag)	2021/11/09	67 (3)	80 - 120	100	80 - 120	<0.090	ug/L	NC	20		
7688220	Dissolved Sodium (Na)	2021/11/09	NC	80 - 120	97	80 - 120	<100	ug/L	2.0	20		
7688220	Dissolved Strontium (Sr)	2021/11/09	NC	80 - 120	99	80 - 120	<1.0	ug/L	2.7	20		
7688220	Dissolved Tellurium (Te)	2021/11/09	98	80 - 120	102	80 - 120	<1.0	ug/L	NC	20		
7688220	Dissolved Thallium (Tl)	2021/11/09	92	80 - 120	98	80 - 120	<0.050	ug/L	NC	20		
7688220	Dissolved Tin (Sn)	2021/11/09	105	80 - 120	100	80 - 120	<1.0	ug/L	8.0	20		
7688220	Dissolved Titanium (Ti)	2021/11/09	98	80 - 120	97	80 - 120	<5.0	ug/L	NC	20		
7688220	Dissolved Tungsten (W)	2021/11/09	101	80 - 120	103	80 - 120	<1.0	ug/L	3.0	20		
7688220	Dissolved Uranium (U)	2021/11/09	91	80 - 120	95	80 - 120	<0.10	ug/L	0.88	20		
7688220	Dissolved Vanadium (V)	2021/11/09	104	80 - 120	98	80 - 120	<0.50	ug/L	NC	20		
7688220	Dissolved Zinc (Zn)	2021/11/09	94	80 - 120	98	80 - 120	<5.0	ug/L	NC	20		
7688220	Dissolved Zirconium (Zr)	2021/11/09	111	80 - 120	102	80 - 120	<1.0	ug/L	NC	20		
7688247	Nitrate (N)	2021/11/09	100	80 - 120	103	80 - 120	<0.10	mg/L	NC	20		
7688247	Nitrite (N)	2021/11/09	106	80 - 120	108	80 - 120	<0.010	mg/L	NC	20		
7688250	Dissolved Bromide (Br-)	2021/11/11	105	80 - 120	104	80 - 120	<1.0	mg/L	NC	20		
7688250	Dissolved Chloride (Cl-)	2021/11/11	NC	80 - 120	100	70 - 130	<1.0	mg/L	3.0	20		
7688250	Dissolved Sulphate (SO4)	2021/11/11	NC	80 - 120	103	80 - 120	<1.0	mg/L	4.3	20		
7689210	Total Kjeldahl Nitrogen (TKN)	2021/11/12	105	80 - 120	104	80 - 120	<0.10	mg/L	10	20	103	80 - 120
7689767	Total Ammonia-N	2021/11/10	NC	75 - 125	101	80 - 120	<0.050	mg/L	2.8	20		



BUREAU
VERITAS

Bureau Veritas Job #: C1W5119

Report Date: 2021/11/17

QUALITY ASSURANCE REPORT(CONT'D)

Terrapure Environmental

Client Project #: GW

Sampler Initials: CR

QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
7691540	Phenols-4AAP	2021/11/10	98	80 - 120	100	80 - 120	<0.0010	mg/L	6.1	20		
7702474	Dissolved Aluminum (Al)	2021/11/16	104	80 - 120	106	80 - 120	<4.9	ug/L				
7702474	Dissolved Antimony (Sb)	2021/11/16	101	80 - 120	103	80 - 120	<0.50	ug/L	NC	20		
7702474	Dissolved Arsenic (As)	2021/11/16	99	80 - 120	99	80 - 120	<1.0	ug/L	NC	20		
7702474	Dissolved Barium (Ba)	2021/11/16	101	80 - 120	103	80 - 120	<2.0	ug/L	1.5	20		
7702474	Dissolved Beryllium (Be)	2021/11/16	100	80 - 120	97	80 - 120	<0.40	ug/L	NC	20		
7702474	Dissolved Bismuth (Bi)	2021/11/16	96	80 - 120	97	80 - 120	<1.0	ug/L				
7702474	Dissolved Boron (B)	2021/11/16	98	80 - 120	99	80 - 120	<10	ug/L	4.4	20		
7702474	Dissolved Cadmium (Cd)	2021/11/16	98	80 - 120	100	80 - 120	<0.090	ug/L	NC	20		
7702474	Dissolved Calcium (Ca)	2021/11/16	NC	80 - 120	103	80 - 120	<200	ug/L				
7702474	Dissolved Chromium (Cr)	2021/11/16	95	80 - 120	97	80 - 120	<5.0	ug/L	NC	20		
7702474	Dissolved Cobalt (Co)	2021/11/16	96	80 - 120	97	80 - 120	<0.50	ug/L	NC	20		
7702474	Dissolved Copper (Cu)	2021/11/16	96	80 - 120	99	80 - 120	<0.90	ug/L	NC	20		
7702474	Dissolved Iron (Fe)	2021/11/16	95	80 - 120	96	80 - 120	<100	ug/L				
7702474	Dissolved Lead (Pb)	2021/11/16	95	80 - 120	96	80 - 120	<0.50	ug/L	NC	20		
7702474	Dissolved Lithium (Li)	2021/11/16	99	80 - 120	97	80 - 120	<5.0	ug/L				
7702474	Dissolved Magnesium (Mg)	2021/11/16	NC	80 - 120	98	80 - 120	<50	ug/L				
7702474	Dissolved Manganese (Mn)	2021/11/16	98	80 - 120	99	80 - 120	<2.0	ug/L				
7702474	Dissolved Molybdenum (Mo)	2021/11/16	101	80 - 120	102	80 - 120	<0.50	ug/L	13	20		
7702474	Dissolved Nickel (Ni)	2021/11/16	95	80 - 120	95	80 - 120	<1.0	ug/L	NC	20		
7702474	Dissolved Phosphorus (P)	2021/11/16	103	80 - 120	109	80 - 120	<100	ug/L				
7702474	Dissolved Potassium (K)	2021/11/16	99	80 - 120	102	80 - 120	<200	ug/L				
7702474	Dissolved Selenium (Se)	2021/11/16	99	80 - 120	101	80 - 120	<2.0	ug/L	NC	20		
7702474	Dissolved Silicon (Si)	2021/11/16	103	80 - 120	104	80 - 120	<50	ug/L				
7702474	Dissolved Silver (Ag)	2021/11/16	96	80 - 120	97	80 - 120	<0.090	ug/L	NC	20		
7702474	Dissolved Sodium (Na)	2021/11/16	98	80 - 120	97	80 - 120	<100	ug/L	2.6	20		
7702474	Dissolved Strontium (Sr)	2021/11/16	NC	80 - 120	100	80 - 120	<1.0	ug/L				
7702474	Dissolved Tellurium (Te)	2021/11/16	101	80 - 120	104	80 - 120	<1.0	ug/L				
7702474	Dissolved Thallium (Tl)	2021/11/16	95	80 - 120	97	80 - 120	<0.050	ug/L	NC	20		
7702474	Dissolved Tin (Sn)	2021/11/16	102	80 - 120	104	80 - 120	<1.0	ug/L				
7702474	Dissolved Titanium (Ti)	2021/11/16	99	80 - 120	100	80 - 120	<5.0	ug/L				



BUREAU
VERITAS

Bureau Veritas Job #: C1W5119

Report Date: 2021/11/17

QUALITY ASSURANCE REPORT(CONT'D)

Terrapure Environmental

Client Project #: GW

Sampler Initials: CR

QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
7702474	Dissolved Tungsten (W)	2021/11/16	98	80 - 120	97	80 - 120	<1.0	ug/L				
7702474	Dissolved Uranium (U)	2021/11/16	92	80 - 120	92	80 - 120	<0.10	ug/L	1.9	20		
7702474	Dissolved Vanadium (V)	2021/11/16	97	80 - 120	97	80 - 120	<0.50	ug/L	NC	20		
7702474	Dissolved Zinc (Zn)	2021/11/16	94	80 - 120	95	80 - 120	<5.0	ug/L	8.1	20		
7702474	Dissolved Zirconium (Zr)	2021/11/16	104	80 - 120	105	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.

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

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

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

(1) The detection limit was raised due to matrix interferences.

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

(3) Matrix Spike exceeds acceptance limits. Probable Matrix interference



BUREAU
VERITAS

Bureau Veritas Job #: C1W5119
Report Date: 2021/11/17

Terrapure Environmental
Client Project #: GW
Sampler Initials: CR

VALIDATION SIGNATURE PAGE

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

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

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

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



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

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Jolanta Goralczyk
C1W5119

INVOICE TO: Company Name: #16786 Terrapure Environmental Attention: Accounting Address: 65 Green Mountain Rd West Stoney Creek ON L8J 1X5 Tel: (905) 561-0305 Fax: (905) 561-1674 Email: kbailey@terrapureenv.com		REPORT TO: Company Name: Attention: Brad Mullin - GHD Reporting Address: Stoney Creek ON L8J 1X5 Tel: Email: bmullin@terrapureenv.com; dtaylor2@terrapureenv.com		PROJECT INFORMATION: Quotation #: B60569 P.O. #: Project: GW Project Name: Site #: Sampled By:		URE ENV-1485 Bottle Order #: 847927 Project Manager: Jolanta Goralczyk C#847927-13-01	
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MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE BV LABS DRINKING WATER CHAIN OF CUSTODY						ANALYSIS REQUESTED (PLEASE BE SPECIFIC)										Turnaround Time (TAT) Required:												
Regulation 153 (2011)			Other Regulations			Special Instructions	Field Filtered (please circle):	Metals/Hg/Cr VI	List "A" GW Monitoring	List "B" GW Monitoring	Biochemical Oxygen Demand (BOD)																	
<input type="checkbox"/> Table 1	<input type="checkbox"/> Res/Park	<input type="checkbox"/> Medium/Fine	<input type="checkbox"/> CCME	<input type="checkbox"/> Sanitary Sewer Bylaw																								
<input type="checkbox"/> Table 2	<input type="checkbox"/> Ind/Comm	<input type="checkbox"/> Coarse	<input type="checkbox"/> Reg 558	<input type="checkbox"/> Storm Sewer Bylaw																								
<input type="checkbox"/> Table 3	<input type="checkbox"/> Agri/Other	<input type="checkbox"/> For RSC	<input type="checkbox"/> MISA	Municipality _____																								
<input type="checkbox"/> Table _____			<input type="checkbox"/> PWOO	Reg 406 Table _____																								
Include Criteria on Certificate of Analysis (Y/N)?																												
Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix																								
	44-I	21/11/3	N/A	GW	Y	X	X																					
	44-II			GW	Y	X	X																					
	2-I			GW	Y	X																						
	46-IR			GW	Y	X																						
	46-IR			GW	Y	X																						
	46-III			GW	Y	X																						
	P14			GW	Y	X																						
	P15			GW	Y	X																						
	P16			GW	Y	X																						
	P17			GW	Y	X																						

* RELINQUISHED BY: (Signature/Print) C. Richardson / Cezer Richardson		Date: (YY/MM/DD) 21/11/4	Time 9:30	RECEIVED BY: (Signature/Print) Y. THOMPSON		Date: (YY/MM/DD) 21/11/04	Time 16:15	# jars used and not submitted	Laboratory Use Only		Time Sensitive		Temperature (°C) on Recept SEC ACTR	Custody Seal Present Intact		Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
--	--	-----------------------------	--------------	---	--	------------------------------	---------------	-------------------------------	---------------------	--	----------------	--	--	-----------------------------------	--	---	-----------------------------

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

** 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



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CHAIN OF CUSTODY RECORD

INVOICE TO:		REPORT TO:		PROJECT INFORMATION:		Laboratory Use Only:	
Company Name: #16786 Terrapure Environmental		Company Name: Brad Mullin - GHD Reporting		Quotation #: B60569		BV Labs Job #:	
Attention: Accounting		Attention: Brad Mullin - GHD Reporting		P.O. #:		Bottle Order #:	
Address: 65 Green Mountain Rd West		Address:		Project: GW		847927	
Stoney Creek ON L8J 1X5				Project Name:		COC #:	
Tel: (905) 561-0305 Fax: (905) 561-1674		Tel: Fax:		Site #:		Project Manager:	
Email: kbailey@terrapureenv.com		Email: bmulin@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	List "B" GW Monitoring	Biochemical Oxygen Demand (BOD)											Regular (Standard) TAT: (will be applied if Rush TAT is not specified): Standard TAT = 5-7 Working days for most tests. Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details.				
<input type="checkbox"/> Table 1	<input type="checkbox"/> Res/Park	<input type="checkbox"/> Medium/Fine	<input type="checkbox"/> CCME	<input type="checkbox"/> Sanitary Sewer Bylaw																				
<input type="checkbox"/> Table 2	<input type="checkbox"/> Ind/Comm	<input type="checkbox"/> Coarse	<input type="checkbox"/> Reg 558	<input type="checkbox"/> Storm Sewer Bylaw																				
<input type="checkbox"/> Table 3	<input type="checkbox"/> Agri/Other	<input type="checkbox"/> For RSC	<input type="checkbox"/> MISA	Municipality _____																				
<input type="checkbox"/> Table _____			<input type="checkbox"/> PWQO	<input type="checkbox"/> Reg 406 Table _____																				
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																				
1	67-II	21/11/3	N/A	GW	N/A	X																	7	
2	67-III	↓	↓	GW	N/A	X																	7	
3	75-IV	↓	↓	GW	N/A	X																	7	
4	4-III	↓	↓	GW	Y	X																	6	
5				GW																				
6				GW																				
7				GW																				
8				GW																				
9				GW																				
10				GW																				

* RELINQUISHED BY: (Signature/Print) C. Richardson / Cooper Richardson		Date: (YY/MM/DD) 21/11/4	Time 9:30	RECEIVED BY: (Signature/Print)		Date: (YY/MM/DD)	Time	# jars used and not submitted	Laboratory Use Only					
									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



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04-Nov-21 16:15

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INVOICE TO:		REPORT TO:		PROJECT INFORMATION:	
Company Name: #16786 Terrapure Environmental	Company Name: Brad Mullin - GHD Reporting	Quotation #: B60569	Jolanta Goralczyk		
Attention: Accounting	Attention: Brad Mullin - GHD Reporting	P.O. #: C1W5119	C1W5119		
Address: 65 Green Mountain Rd West Stoney Creek ON L8J 1X5		Project: GW	URE ENV-1485		
Tel: (905) 561-0305 Fax: (905) 561-1674	Tel: Fax:	Site #: Sampled By:	C4847927-12-01		
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	
Regulation 153 (2011)						Other Regulations						Please provide advance notice for rush projects	
<input type="checkbox"/> Table 1	<input type="checkbox"/> Res/Flt	<input type="checkbox"/> Medium/ine	<input type="checkbox"/> OCME	<input type="checkbox"/> Sanitary Sewer Bylaw	Special Instructions	Field Filtered (please circle): Meq/L / Cr/Vl	List "A" GW Monitoring	List "B" GW Monitoring	Biological Oxygen Demand (BOD)	List "A" GW (Phenols)	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							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"/> MESA	<input type="checkbox"/> Municipality							Please note: Standard TAT for certain tests such as BOD and Clostridium/Furans are > 5 days - contact your Project Manager for details.		
<input type="checkbox"/> Table			<input type="checkbox"/> PHOD	<input type="checkbox"/> Reg 406 Table							Job Specific Rush TAT (if applies to entire submission)		
Include Criteria on Certificate of Analysis (Y/N)?												Date Required: _____ Time Required: _____	
Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix							# of Batches	Comments	
1	32-II	21/11/15	N/A	GW	Y	X		X			7	BOD Sampled Monday Morning (11/22/2021)	
2	P15	21/11/18	N/A	GW	N/A			X			1	JOB Number: C1W5119	
3				GW		X							
4				GW		X							
5				GW		X							
6				GW		X							
7				GW		X							
8				GW		X							
9				GW		X							
10				GW		X							

RELINQUISHED BY: (Signature/Print) C. Kimberly/Leeper Ribickson	Date: (YY/MM/DD) 21/11/18	Time 9:30	RECEIVED BY: (Signature/Print) Ashley S. [Signature]	Date: (YY/MM/DD) 20/11/20	Time 17:13	# jars used and not submitted	Laboratory Use Only	Time Sensitive	Temperature (°C) on Receipt REFEER TO	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 ADDITIONAL TAT DELAYS.		* SAMPLE CONTAINER, PRESERVATION, HOLD TIME AND PACKAGE INFORMATION CAN BE VIEWED AT WWW.BVLABS.COM/RESOURCES/CHAIN-OF-CUSTODY-FORMS.		SAMPLER MUST BE KEPT COOL (4-10°C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BV LABS.		

Bureau Veritas Canada (2019) Inc.



Your Project #: GW
Your C.O.C. #: 848637-16-01

Attention: Brad Mullin - GHD Reporting

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

Report Date: 2021/11/17
Report #: R6905594
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C1W6575
Received: 2021/11/05, 16:50

Sample Matrix: Water
Samples Received: 5

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
ABN Compounds in Water by GC/MS	1	2021/11/15	2021/11/15	CAM SOP-00301	EPA 8270 m
Alkalinity	5	N/A	2021/11/09	CAM SOP-00448	SM 23 2320 B m
Anions	5	N/A	2021/11/11	CAM SOP-00435	SM 23 4110 B m
Conductivity	5	N/A	2021/11/09	CAM SOP-00414	SM 23 2510 m
Fluoride	5	2021/11/08	2021/11/09	CAM SOP-00449	SM 23 4500-F C m
Hardness (calculated as CaCO3)	1	N/A	2021/11/11	CAM SOP 00102/00408/00447	SM 2340 B
Hardness (calculated as CaCO3)	1	N/A	2021/11/12	CAM SOP 00102/00408/00447	SM 2340 B
Hardness (calculated as CaCO3)	3	N/A	2021/11/15	CAM SOP 00102/00408/00447	SM 2340 B
Dissolved Metals by ICPMS	1	N/A	2021/11/10	CAM SOP-00447	EPA 6020B m
Dissolved Metals by ICPMS	1	N/A	2021/11/11	CAM SOP-00447	EPA 6020B m
Dissolved Metals by ICPMS	2	N/A	2021/11/12	CAM SOP-00447	EPA 6020B m
Dissolved Metals by ICPMS	1	N/A	2021/11/15	CAM SOP-00447	EPA 6020B m
Total Ammonia-N	5	N/A	2021/11/10	CAM SOP-00441	USGS I-2522-90 m
Nitrate & Nitrite as Nitrogen in Water (1)	5	N/A	2021/11/09	CAM SOP-00440	SM 23 4500-NO3I/NO2B
OC Pesticides (Selected) & PCB (2)	1	2021/11/09	2021/11/16	CAM SOP-00307	EPA 8081A/8082B m
OC Pesticides Summed Parameters	1	N/A	2021/11/09	CAM SOP-00307	EPA 8081A/8082B m
pH	5	2021/11/08	2021/11/09	CAM SOP-00413	SM 4500H+ B m
Phenols (4AAP)	3	N/A	2021/11/08	CAM SOP-00444	OMOE E3179 m
Phenols (4AAP)	2	N/A	2021/11/09	CAM SOP-00444	OMOE E3179 m
Orthophosphate	5	N/A	2021/11/11	CAM SOP-00461	EPA 365.1 m
Total Dissolved Solids	5	2021/11/09	2021/11/10	CAM SOP-00428	SM 23 2540C m
Total Kjeldahl Nitrogen in Water	5	2021/11/09	2021/11/12	CAM SOP-00938	OMOE E3516 m
Total Organic Carbon (TOC) (3)	5	N/A	2021/11/09	CAM SOP-00446	SM 23 5310B m
Volatile Organic Compounds in Water	1	N/A	2021/11/10	CAM SOP-00226	EPA 8260C m
Non-Routine Volatile Organic Compounds	1	N/A	2021/11/11	CAM SOP-00226	EPA 8260 m

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

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

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

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



Your Project #: GW
Your C.O.C. #: 848637-16-01

Attention: Brad Mullin - GHD Reporting

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

Report Date: 2021/11/17
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CERTIFICATE OF ANALYSIS

BV LABS JOB #: C1W6575

Received: 2021/11/05, 16:50

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

Encryption Key



**AUTHORIZED REPORT
RAPPORT AUTORISÉ**

Bureau Veritas
17 Nov 2021 15:29:31

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.



RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		RDT590				RDT591				RDT592		
Sampling Date		2021/11/04				2021/11/04				2021/11/04		
COC Number		848637-16-01				848637-16-01				848637-16-01		
	UNITS	51- IV	RDL	QC Batch	49-II	RDL	QC Batch	49-IV	RDL	QC Batch		
Calculated Parameters												
Hardness (CaCO3)	mg/L	1900	1.0	7682654	1500	1.0	7684382	1400	1.0	7684382		
Inorganics												
Total Ammonia-N	mg/L	4.0	0.050	7690718	0.72	0.050	7690718	0.48	0.050	7690718		
Conductivity	umho/cm	4300	1.0	7687261	3600	1.0	7687261	3600	1.0	7687261		
Total Dissolved Solids	mg/L	3360	10	7690424	2560	10	7690424	2450	10	7690424		
Fluoride (F-)	mg/L	0.95	0.10	7687250	1.6	0.10	7687250	1.5	0.10	7687250		
Total Kjeldahl Nitrogen (TKN)	mg/L	4.7	0.50	7689204	1.1	0.10	7689213	0.88	0.50	7689204		
Total Organic Carbon (TOC)	mg/L	2.0	0.40	7689180	3.3	0.40	7689180	2.6	0.40	7689180		
Orthophosphate (P)	mg/L	<0.010	0.010	7687677	<0.010	0.010	7687677	<0.010	0.010	7687677		
pH	pH	7.64		7687229	7.80		7687229	7.77		7687229		
Phenols-4AAP	mg/L	<0.0010	0.0010	7686709	<0.0010	0.0010	7686973	<0.0010	0.0010	7686709		
Alkalinity (Total as CaCO3)	mg/L	280	1.0	7687253	340	1.0	7687253	340	1.0	7687253		
Nitrite (N)	mg/L	<0.010	0.010	7687349	<0.010	0.010	7687349	<0.010	0.010	7687349		
Dissolved Chloride (Cl-)	mg/L	450	10	7688250	510	5.0	7688250	510	5.0	7688250		
Nitrate (N)	mg/L	<0.10	0.10	7687349	<0.10	0.10	7687349	<0.10	0.10	7687349		
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	7687349	<0.10	0.10	7687349	<0.10	0.10	7687349		
Dissolved Bromide (Br-)	mg/L	<10	10	7688250	<5.0	5.0	7688250	<5.0	5.0	7688250		
Dissolved Sulphate (SO4)	mg/L	1600	10	7688250	890	5.0	7688250	970	5.0	7688250		
RDL = Reportable Detection Limit												
QC Batch = Quality Control Batch												



BUREAU
VERITAS

Bureau Veritas Job #: C1W6575
Report Date: 2021/11/17

Terrapure Environmental
Client Project #: GW
Sampler Initials: CR

RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		RDT592			RDT593		RDT594		
Sampling Date		2021/11/04			2021/11/04		2021/11/04		
COC Number		848637-16-01			848637-16-01		848637-16-01		
	UNITS	49-IV Lab-Dup	RDL	QC Batch	49-V	QC Batch	12-II	RDL	QC Batch
Calculated Parameters									
Hardness (CaCO ₃)	mg/L				1200	7684382	1500	1.0	7684382
Inorganics									
Total Ammonia-N	mg/L				0.31	7690718	0.72	0.050	7690718
Conductivity	umho/cm	3600	1.0	7687261	2700	7687261	3600	1.0	7687261
Total Dissolved Solids	mg/L				1880	7690424	2590	10	7690424
Fluoride (F ⁻)	mg/L	1.5	0.10	7687250	2.0	7687250	1.6	0.10	7687250
Total Kjeldahl Nitrogen (TKN)	mg/L	0.91	0.50	7689204	0.88	7689204	1.2	0.10	7689204
Total Organic Carbon (TOC)	mg/L				5.1	7689180	3.4	0.40	7689180
Orthophosphate (P)	mg/L				0.018	7687677	<0.010	0.010	7687677
pH	pH	7.74		7687229	8.03	7687229	7.67		7687229
Phenols-4AAP	mg/L				<0.0010	7686973	<0.0010	0.0010	7686709
Alkalinity (Total as CaCO ₃)	mg/L	340	1.0	7687253	390	7687253	330	1.0	7687253
Nitrite (N)	mg/L				<0.010	7687349	<0.010	0.010	7687349
Dissolved Chloride (Cl ⁻)	mg/L				290	7688250	520	5.0	7688250
Nitrate (N)	mg/L				0.11	7687349	<0.10	0.10	7687349
Nitrate + Nitrite (N)	mg/L				0.11	7687349	<0.10	0.10	7687349
Dissolved Bromide (Br ⁻)	mg/L				<5.0	7688250	<5.0	5.0	7688250
Dissolved Sulphate (SO ₄)	mg/L				750	7688250	940	5.0	7688250
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate									



BUREAU
VERITAS

Bureau Veritas Job #: C1W6575
Report Date: 2021/11/17

Terrapure Environmental
Client Project #: GW
Sampler Initials: CR

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Bureau Veritas ID		RDT590			RDT591	RDT592		RDT593		
Sampling Date		2021/11/04			2021/11/04	2021/11/04		2021/11/04		
COC Number		848637-16-01			848637-16-01	848637-16-01		848637-16-01		
	UNITS	51- IV	RDL	QC Batch	49-II	49-IV	QC Batch	49-V	RDL	QC Batch
Metals										
Dissolved Aluminum (Al)	ug/L	9.2	4.9	7688915	5.3	26	7688898	<4.9	4.9	7688915
Dissolved Antimony (Sb)	ug/L	<0.50	0.50	7688915	<0.50	<0.50	7688898	<0.50	0.50	7688915
Dissolved Arsenic (As)	ug/L	<1.0	1.0	7688915	<1.0	<1.0	7688898	1.6	1.0	7688915
Dissolved Barium (Ba)	ug/L	8.5	2.0	7688915	38	43	7688898	70	2.0	7688915
Dissolved Beryllium (Be)	ug/L	<0.40	0.40	7688915	<0.40	<0.40	7688898	<0.40	0.40	7688915
Dissolved Bismuth (Bi)	ug/L	<1.0	1.0	7688915	<1.0	<1.0	7688898	<1.0	1.0	7688915
Dissolved Boron (B)	ug/L	1000	10	7688915	330	130	7688898	630	10	7688915
Dissolved Cadmium (Cd)	ug/L	<0.090	0.090	7688915	<0.090	<0.090	7688898	<0.090	0.090	7688915
Dissolved Calcium (Ca)	ug/L	580000	1000	7688915	330000	280000	7688898	260000	200	7688915
Dissolved Chromium (Cr)	ug/L	<5.0	5.0	7688915	<5.0	<5.0	7688898	<5.0	5.0	7688915
Dissolved Cobalt (Co)	ug/L	<0.50	0.50	7688915	<0.50	2.0	7688898	<0.50	0.50	7688915
Dissolved Copper (Cu)	ug/L	<0.90	0.90	7688915	<0.90	<0.90	7688898	2.3	0.90	7688915
Dissolved Iron (Fe)	ug/L	<100	100	7688915	1100	1100	7688898	200	100	7688915
Dissolved Lead (Pb)	ug/L	<0.50	0.50	7688915	<0.50	<0.50	7688898	<0.50	0.50	7688915
Dissolved Lithium (Li)	ug/L	170	5.0	7688915	99	68	7688898	54	5.0	7688915
Dissolved Magnesium (Mg)	ug/L	110000	50	7688915	160000	160000	7688898	140000	50	7688915
Dissolved Manganese (Mn)	ug/L	46	2.0	7688915	44	56	7688898	72	2.0	7688915
Dissolved Molybdenum (Mo)	ug/L	<0.50	0.50	7688915	2.8	3.0	7688898	4.8	0.50	7688915
Dissolved Nickel (Ni)	ug/L	<1.0	1.0	7688915	<1.0	4.4	7688898	<1.0	1.0	7688915
Dissolved Phosphorus (P)	ug/L	<100	100	7688915	110	<100	7688898	<100	100	7688915
Dissolved Potassium (K)	ug/L	27000	200	7688915	8000	5700	7688898	7000	200	7688915
Dissolved Selenium (Se)	ug/L	<2.0	2.0	7688915	<2.0	<2.0	7688898	<2.0	2.0	7688915
Dissolved Silicon (Si)	ug/L	5100	50	7688915	7900	5100	7688898	14000	50	7688915
Dissolved Silver (Ag)	ug/L	<0.090	0.090	7688915	<0.090	<0.090	7688898	<0.090	0.090	7688915
Dissolved Sodium (Na)	ug/L	290000	100	7688915	300000	280000	7688898	160000	100	7688915
Dissolved Strontium (Sr)	ug/L	6400	1.0	7688915	4600	4600	7688898	2900	1.0	7688915
Dissolved Tellurium (Te)	ug/L	<1.0	1.0	7688915	<1.0	<1.0	7688898	<1.0	1.0	7688915
Dissolved Thallium (Tl)	ug/L	<0.050	0.050	7688915	<0.050	<0.050	7688898	<0.050	0.050	7688915
Dissolved Tin (Sn)	ug/L	<1.0	1.0	7688915	<1.0	<1.0	7688898	<1.0	1.0	7688915
Dissolved Titanium (Ti)	ug/L	<5.0	5.0	7688915	<5.0	<5.0	7688898	<5.0	5.0	7688915
Dissolved Tungsten (W)	ug/L	<1.0	1.0	7688915	<1.0	<1.0	7688898	<1.0	1.0	7688915
Dissolved Uranium (U)	ug/L	0.20	0.10	7688915	3.7	2.5	7688898	8.3	0.10	7688915
Dissolved Vanadium (V)	ug/L	<0.50	0.50	7688915	0.79	0.72	7688898	3.1	0.50	7688915
Dissolved Zinc (Zn)	ug/L	<5.0	5.0	7688915	<5.0	9.0	7688898	<5.0	5.0	7688915
Dissolved Zirconium (Zr)	ug/L	<1.0	1.0	7688915	<1.0	<1.0	7688898	<1.0	1.0	7688915
RDL = Reportable Detection Limit										
QC Batch = Quality Control Batch										



BUREAU
VERITAS

Bureau Veritas Job #: C1W6575
Report Date: 2021/11/17

Terrapure Environmental
Client Project #: GW
Sampler Initials: CR

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Bureau Veritas ID		RDT594		
Sampling Date		2021/11/04		
COC Number		848637-16-01		
	UNITS	12-II	RDL	QC Batch
Metals				
Dissolved Aluminum (Al)	ug/L	<4.9	4.9	7688898
Dissolved Antimony (Sb)	ug/L	<0.50	0.50	7688898
Dissolved Arsenic (As)	ug/L	<1.0	1.0	7688898
Dissolved Barium (Ba)	ug/L	38	2.0	7688898
Dissolved Beryllium (Be)	ug/L	<0.40	0.40	7688898
Dissolved Bismuth (Bi)	ug/L	<1.0	1.0	7688898
Dissolved Boron (B)	ug/L	320	10	7688898
Dissolved Cadmium (Cd)	ug/L	<0.090	0.090	7688898
Dissolved Calcium (Ca)	ug/L	340000	200	7688898
Dissolved Chromium (Cr)	ug/L	<5.0	5.0	7688898
Dissolved Cobalt (Co)	ug/L	<0.50	0.50	7688898
Dissolved Copper (Cu)	ug/L	<0.90	0.90	7688898
Dissolved Iron (Fe)	ug/L	1200	100	7688898
Dissolved Lead (Pb)	ug/L	<0.50	0.50	7688898
Dissolved Lithium (Li)	ug/L	96	5.0	7688898
Dissolved Magnesium (Mg)	ug/L	160000	50	7688898
Dissolved Manganese (Mn)	ug/L	46	2.0	7688898
Dissolved Molybdenum (Mo)	ug/L	3.0	0.50	7688898
Dissolved Nickel (Ni)	ug/L	<1.0	1.0	7688898
Dissolved Phosphorus (P)	ug/L	110	100	7688898
Dissolved Potassium (K)	ug/L	8100	200	7688898
Dissolved Selenium (Se)	ug/L	<2.0	2.0	7688898
Dissolved Silicon (Si)	ug/L	8100	50	7688898
Dissolved Silver (Ag)	ug/L	<0.090	0.090	7688898
Dissolved Sodium (Na)	ug/L	290000	100	7688898
Dissolved Strontium (Sr)	ug/L	4600	1.0	7688898
Dissolved Tellurium (Te)	ug/L	<1.0	1.0	7688898
Dissolved Thallium (Tl)	ug/L	<0.050	0.050	7688898
Dissolved Tin (Sn)	ug/L	<1.0	1.0	7688898
Dissolved Titanium (Ti)	ug/L	<5.0	5.0	7688898
Dissolved Tungsten (W)	ug/L	<1.0	1.0	7688898
Dissolved Uranium (U)	ug/L	3.5	0.10	7688898
Dissolved Vanadium (V)	ug/L	0.80	0.50	7688898
Dissolved Zinc (Zn)	ug/L	<5.0	5.0	7688898
Dissolved Zirconium (Zr)	ug/L	<1.0	1.0	7688898
RDL = Reportable Detection Limit				
QC Batch = Quality Control Batch				



BUREAU
VERITAS

Bureau Veritas Job #: C1W6575
Report Date: 2021/11/17

Terrapure Environmental
Client Project #: GW
Sampler Initials: CR

SEMI-VOLATILE ORGANICS BY GC-MS (WATER)

Bureau Veritas ID		RDT590		
Sampling Date		2021/11/04		
COC Number		848637-16-01		
	UNITS	51- IV	RDL	QC Batch
Semivolatile Organics				
Acenaphthene	ug/L	1.0	0.80	7700330
Acenaphthylene	ug/L	<0.80	0.80	7700330
Anthracene	ug/L	<0.80	0.80	7700330
Benzo(a)anthracene	ug/L	<0.80	0.80	7700330
Benzo(a)pyrene	ug/L	<0.80	0.80	7700330
Benzo(b/j)fluoranthene	ug/L	<0.80	0.80	7700330
Benzo(g,h,i)perylene	ug/L	<0.80	0.80	7700330
Benzo(k)fluoranthene	ug/L	<0.80	0.80	7700330
1-Chloronaphthalene	ug/L	<4.0	4.0	7700330
2-Chloronaphthalene	ug/L	<2.0	2.0	7700330
Chrysene	ug/L	<0.80	0.80	7700330
Dibenzo(a,h)anthracene	ug/L	<0.80	0.80	7700330
Fluoranthene	ug/L	<0.80	0.80	7700330
Fluorene	ug/L	<0.80	0.80	7700330
Indeno(1,2,3-cd)pyrene	ug/L	<0.80	0.80	7700330
1-Methylnaphthalene	ug/L	1.5	0.80	7700330
2-Methylnaphthalene	ug/L	2.4	0.80	7700330
Naphthalene	ug/L	10	0.80	7700330
5-Nitroacenaphthene	ug/L	<4.0	4.0	7700330
Perylene	ug/L	<0.80	0.80	7700330
Phenanthrene	ug/L	<0.80	0.80	7700330
Pyrene	ug/L	<0.80	0.80	7700330
1,2-Dichlorobenzene	ug/L	<2.0	2.0	7700330
1,3-Dichlorobenzene	ug/L	<2.0	2.0	7700330
1,4-Dichlorobenzene	ug/L	<2.0	2.0	7700330
Hexachlorobenzene	ug/L	<2.0	2.0	7700330
Pentachlorobenzene	ug/L	<2.0	2.0	7700330
1,2,3,5-Tetrachlorobenzene	ug/L	<2.0	2.0	7700330
1,2,4,5-Tetrachlorobenzene	ug/L	<2.0	2.0	7700330
1,2,3-Trichlorobenzene	ug/L	<2.0	2.0	7700330
1,2,4-Trichlorobenzene	ug/L	<2.0	2.0	7700330
1,3,5-Trichlorobenzene	ug/L	<2.0	2.0	7700330
2-Chlorophenol	ug/L	<1.2	1.2	7700330
4-Chloro-3-Methylphenol	ug/L	<2.0	2.0	7700330
m/p-Cresol	ug/L	<2.0	2.0	7700330
o-Cresol	ug/L	<2.0	2.0	7700330
RDL = Reportable Detection Limit QC Batch = Quality Control Batch				



BUREAU
VERITAS

Bureau Veritas Job #: C1W6575
Report Date: 2021/11/17

Terrapure Environmental
Client Project #: GW
Sampler Initials: CR

SEMI-VOLATILE ORGANICS BY GC-MS (WATER)

Bureau Veritas ID		RDT590		
Sampling Date		2021/11/04		
COC Number		848637-16-01		
	UNITS	51- IV	RDL	QC Batch
1,2,3,4-Tetrachlorobenzene	ug/L	<2.0	2.0	7700330
2,3-Dichlorophenol	ug/L	<2.0	2.0	7700330
2,4-Dichlorophenol	ug/L	<1.2	1.2	7700330
2,5-Dichlorophenol	ug/L	<2.0	2.0	7700330
2,6-Dichlorophenol	ug/L	<2.0	2.0	7700330
3,4-Dichlorophenol	ug/L	<2.0	2.0	7700330
3,5-Dichlorophenol	ug/L	<2.0	2.0	7700330
2,4-Dimethylphenol	ug/L	<2.0	2.0	7700330
2,4-Dinitrophenol	ug/L	<8.0	8.0	7700330
4,6-Dinitro-2-methylphenol	ug/L	<8.0	8.0	7700330
2-Nitrophenol	ug/L	<2.0	2.0	7700330
4-Nitrophenol	ug/L	<5.6	5.6	7700330
Pentachlorophenol	ug/L	<4.0	4.0	7700330
Phenol	ug/L	<2.0	2.0	7700330
2,3,4,5-Tetrachlorophenol	ug/L	<1.6	1.6	7700330
2,3,4,6-Tetrachlorophenol	ug/L	<2.0	2.0	7700330
2,3,5,6-Tetrachlorophenol	ug/L	<2.0	2.0	7700330
2,3,4-Trichlorophenol	ug/L	<2.0	2.0	7700330
2,3,5-Trichlorophenol	ug/L	<2.0	2.0	7700330
2,3,6-Trichlorophenol	ug/L	<2.0	2.0	7700330
2,4,5-Trichlorophenol	ug/L	<2.0	2.0	7700330
2,4,6-Trichlorophenol	ug/L	<2.0	2.0	7700330
3,4,5-Trichlorophenol	ug/L	<2.0	2.0	7700330
Benzyl butyl phthalate	ug/L	<2.0	2.0	7700330
Biphenyl	ug/L	<2.0	2.0	7700330
Bis(2-chloroethyl)ether	ug/L	<2.0	2.0	7700330
Bis(2-chloroethoxy)methane	ug/L	<2.0	2.0	7700330
Bis(2-chloroisopropyl)ether	ug/L	<2.0	2.0	7700330
Bis(2-ethylhexyl)phthalate	ug/L	<8.0	8.0	7700330
4-Bromophenyl phenyl ether	ug/L	<1.2	1.2	7700330
p-Chloroaniline	ug/L	<4.0	4.0	7700330
4-Chlorophenyl phenyl ether	ug/L	<2.0	2.0	7700330
Di-N-butyl phthalate	ug/L	<8.0	8.0	7700330
di-n-octyl phthalate	ug/L	<3.2	3.2	7700330
2,4-Dinitrotoluene	ug/L	<2.0	2.0	7700330
Diethyl phthalate	ug/L	<4.0	4.0	7700330
3,3'-Dichlorobenzidine	ug/L	<2.0	2.0	7700330
RDL = Reportable Detection Limit QC Batch = Quality Control Batch				



SEMI-VOLATILE ORGANICS BY GC-MS (WATER)

Bureau Veritas ID		RDT590		
Sampling Date		2021/11/04		
COC Number		848637-16-01		
	UNITS	51- IV	RDL	QC Batch
Dimethyl phthalate	ug/L	<4.0	4.0	7700330
2,6-Dinitrotoluene	ug/L	<2.0	2.0	7700330
Diphenyl Ether	ug/L	<1.2	1.2	7700330
Hexachlorobutadiene	ug/L	<1.6	1.6	7700330
Hexachlorocyclopentadiene	ug/L	<8.0	8.0	7700330
Hexachloroethane	ug/L	<2.0	2.0	7700330
Isophorone	ug/L	<2.0	2.0	7700330
Nitrobenzene	ug/L	<2.0	2.0	7700330
Nitrosodiphenylamine/Diphenylamine	ug/L	<4.0	4.0	7700330
N-Nitroso-di-n-propylamine	ug/L	<2.0	2.0	7700330
Surrogate Recovery (%)				
2,4,6-Tribromophenol	%	67		7700330
2-Fluorobiphenyl	%	35		7700330
2-Fluorophenol	%	25		7700330
D14-Terphenyl	%	81		7700330
D5-Nitrobenzene	%	45		7700330
D5-Phenol	%	15		7700330
RDL = Reportable Detection Limit QC Batch = Quality Control Batch				



BUREAU
VERITAS

Bureau Veritas Job #: C1W6575
Report Date: 2021/11/17

Terrapure Environmental
Client Project #: GW
Sampler Initials: CR

VOLATILE ORGANICS BY GC/MS (WATER)

Bureau Veritas ID		RDT590		
Sampling Date		2021/11/04		
COC Number		848637-16-01		
	UNITS	51- IV	RDL	QC Batch
Volatile Organics				
Acetone (2-Propanone)	ug/L	<10	10	7686768
Benzene	ug/L	<0.10	0.10	7686768
Bromodichloromethane	ug/L	<0.10	0.10	7686768
Acrolein	ug/L	<10	10	7686780
Bromoform	ug/L	<0.20	0.20	7686768
Bromomethane	ug/L	<0.50	0.50	7686768
Carbon Tetrachloride	ug/L	<0.10	0.10	7686768
Chlorobenzene	ug/L	<0.10	0.10	7686768
Chloroethane	ug/L	<0.20	0.20	7686768
Chloroform	ug/L	<0.10	0.10	7686768
Acrylonitrile	ug/L	<5.0	5.0	7686780
Chloromethane	ug/L	<0.50	0.50	7686768
Dibromochloromethane	ug/L	<0.20	0.20	7686768
1,2-Dichlorobenzene	ug/L	<0.20	0.20	7686768
1,3-Dichlorobenzene	ug/L	<0.20	0.20	7686768
1,4-Dichlorobenzene	ug/L	<0.20	0.20	7686768
1,1-Dichloroethane	ug/L	<0.10	0.10	7686768
1,2-Dichloroethane	ug/L	<0.20	0.20	7686768
1,1-Dichloroethylene	ug/L	<0.10	0.10	7686768
cis-1,2-Dichloroethylene	ug/L	<0.10	0.10	7686768
trans-1,2-Dichloroethylene	ug/L	<0.10	0.10	7686768
1,2-Dichloropropane	ug/L	<0.10	0.10	7686768
cis-1,3-Dichloropropene	ug/L	<0.20	0.20	7686768
trans-1,3-Dichloropropene	ug/L	<0.20	0.20	7686768
Ethylbenzene	ug/L	<0.10	0.10	7686768
Ethylene Dibromide	ug/L	<0.20	0.20	7686768
Methylene Chloride(Dichloromethane)	ug/L	<0.50	0.50	7686768
Methyl Ethyl Ketone (2-Butanone)	ug/L	<5.0	5.0	7686768
Methyl Isobutyl Ketone	ug/L	<5.0	5.0	7686768
Methyl t-butyl ether (MTBE)	ug/L	<0.20	0.20	7686768
Styrene	ug/L	<0.20	0.20	7686768
1,1,1,2-Tetrachloroethane	ug/L	<0.20	0.20	7686768
1,1,1,2-Tetrachloroethane	ug/L	<0.20	0.20	7686768
Tetrachloroethylene	ug/L	<0.10	0.10	7686768
Toluene	ug/L	<0.20	0.20	7686768
1,1,1-Trichloroethane	ug/L	<0.10	0.10	7686768
RDL = Reportable Detection Limit QC Batch = Quality Control Batch				



VOLATILE ORGANICS BY GC/MS (WATER)

Bureau Veritas ID		RDT590		
Sampling Date		2021/11/04		
COC Number		848637-16-01		
	UNITS	51- IV	RDL	QC Batch
1,1,2-Trichloroethane	ug/L	<0.20	0.20	7686768
Trichloroethylene	ug/L	<0.10	0.10	7686768
Trichlorofluoromethane (FREON 11)	ug/L	<0.20	0.20	7686768
Vinyl Chloride	ug/L	<0.20	0.20	7686768
p+m-Xylene	ug/L	<0.10	0.10	7686768
Methyl Butyl Ketone (2-Hexanone)	ug/L	<5.0	5.0	7686780
o-Xylene	ug/L	<0.10	0.10	7686768
Total Xylenes	ug/L	<0.10	0.10	7686768
Total Trihalomethanes	ug/L	<0.20	0.20	7686768
Surrogate Recovery (%)				
4-Bromofluorobenzene	%	100		7686768
D4-1,2-Dichloroethane	%	89		7686768
D8-Toluene	%	100		7686768
RDL = Reportable Detection Limit QC Batch = Quality Control Batch				



BUREAU
VERITAS

Bureau Veritas Job #: C1W6575
Report Date: 2021/11/17

Terrapure Environmental
Client Project #: GW
Sampler Initials: CR

O.REG 153 OC PESTICIDES (WATER)

Bureau Veritas ID		RDT590		
Sampling Date		2021/11/04		
COC Number		848637-16-01		
	UNITS	51- IV	RDL	QC Batch
Calculated Parameters				
Chlordane (Total)	ug/L	<0.01	0.01	7682930
o,p-DDD + p,p-DDD	ug/L	<0.01	0.01	7682930
o,p-DDE + p,p-DDE	ug/L	<0.01	0.01	7682930
o,p-DDT + p,p-DDT	ug/L	<0.01	0.01	7682930
Total Endosulfan	ug/L	<0.01	0.01	7682930
Total PCB	ug/L	<0.2	0.2	7682930
Pesticides & Herbicides				
Aldrin	ug/L	<0.01	0.01	7691298
Dieldrin	ug/L	<0.01	0.01	7691298
a-Chlordane	ug/L	<0.01	0.01	7691298
g-Chlordane	ug/L	<0.01	0.01	7691298
o,p-DDD	ug/L	<0.01	0.01	7691298
p,p-DDD	ug/L	<0.01	0.01	7691298
o,p-DDE	ug/L	<0.01	0.01	7691298
p,p-DDE	ug/L	<0.01	0.01	7691298
o,p-DDT	ug/L	<0.01	0.01	7691298
p,p-DDT	ug/L	<0.01	0.01	7691298
Lindane	ug/L	<0.01	0.01	7691298
Endosulfan I (alpha)	ug/L	<0.01	0.01	7691298
Endosulfan II (beta)	ug/L	<0.01	0.01	7691298
Endrin	ug/L	<0.01	0.01	7691298
Heptachlor	ug/L	<0.01	0.01	7691298
Heptachlor epoxide	ug/L	<0.01	0.01	7691298
Hexachlorobenzene	ug/L	<0.01	0.01	7691298
Hexachlorobutadiene	ug/L	<0.02	0.02	7691298
Hexachloroethane	ug/L	<0.02	0.02	7691298
Methoxychlor	ug/L	<0.03	0.03	7691298
Aroclor 1242	ug/L	<0.2	0.2	7691298
Aroclor 1248	ug/L	<0.2	0.2	7691298
Aroclor 1254	ug/L	<0.2	0.2	7691298
Aroclor 1260	ug/L	<0.2	0.2	7691298
alpha-BHC	ug/L	<0.01	0.01	7691298
beta-BHC	ug/L	<0.01	0.01	7691298
Endrin aldehyde	ug/L	<0.01	0.01	7691298
Endrin ketone	ug/L	<0.01	0.01	7691298
Mirex	ug/L	<0.01	0.01	7691298
RDL = Reportable Detection Limit QC Batch = Quality Control Batch				



BUREAU
VERITAS

Bureau Veritas Job #: C1W6575
Report Date: 2021/11/17

Terrapure Environmental
Client Project #: GW
Sampler Initials: CR

O.REG 153 OC PESTICIDES (WATER)

Bureau Veritas ID		RDT590		
Sampling Date		2021/11/04		
COC Number		848637-16-01		
	UNITS	51- IV	RDL	QC Batch
Toxaphene	ug/L	<0.4	0.4	7691298
Surrogate Recovery (%)				
2,4,5,6-Tetrachloro-m-xylene	%	71		7691298
Decachlorobiphenyl	%	98		7691298
RDL = Reportable Detection Limit QC Batch = Quality Control Batch				



BUREAU
VERITAS

Bureau Veritas Job #: C1W6575
Report Date: 2021/11/17

Terrapure Environmental
Client Project #: GW
Sampler Initials: CR

TEST SUMMARY

Bureau Veritas ID: RDT590
Sample ID: 51- IV
Matrix: Water

Collected: 2021/11/04
Shipped:
Received: 2021/11/05

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
ABN Compounds in Water by GC/MS	GC/MS	7700330	2021/11/15	2021/11/15	Kathy Horvat
Alkalinity	AT	7687253	N/A	2021/11/09	Surinder Rai
Anions	IC	7688250	N/A	2021/11/11	Fari Dehdezi
Conductivity	AT	7687261	N/A	2021/11/09	Surinder Rai
Fluoride	ISE	7687250	2021/11/08	2021/11/09	Surinder Rai
Hardness (calculated as CaCO3)		7682654	N/A	2021/11/12	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7688915	N/A	2021/11/11	Azita Fazaeli
Total Ammonia-N	LACH/NH4	7690718	N/A	2021/11/10	Viorica Rotaru
Nitrate & Nitrite as Nitrogen in Water	LACH	7687349	N/A	2021/11/09	Chandra Nandlal
OC Pesticides (Selected) & PCB	GC/ECD	7691298	2021/11/09	2021/11/16	Mahmudul Khan
OC Pesticides Summed Parameters	CALC	7682930	N/A	2021/11/09	Automated Statchk
pH	AT	7687229	2021/11/08	2021/11/09	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7686709	N/A	2021/11/08	Deonarine Ramnarine
Orthophosphate	KONE	7687677	N/A	2021/11/11	Avneet Kour Sudan
Total Dissolved Solids	BAL	7690424	2021/11/09	2021/11/10	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7689204	2021/11/09	2021/11/12	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7689180	N/A	2021/11/09	Julianna Castiglione
Volatile Organic Compounds in Water	P&T/MS	7686768	N/A	2021/11/10	Rebecca McClean
Non-Routine Volatile Organic Compounds	P&T/MS	7686780	N/A	2021/11/11	Rebecca McClean

Bureau Veritas ID: RDT591
Sample ID: 49-II
Matrix: Water

Collected: 2021/11/04
Shipped:
Received: 2021/11/05

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7687253	N/A	2021/11/09	Surinder Rai
Anions	IC	7688250	N/A	2021/11/11	Fari Dehdezi
Conductivity	AT	7687261	N/A	2021/11/09	Surinder Rai
Fluoride	ISE	7687250	2021/11/08	2021/11/09	Surinder Rai
Hardness (calculated as CaCO3)		7684382	N/A	2021/11/15	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7688898	N/A	2021/11/12	Arefa Dabhad
Total Ammonia-N	LACH/NH4	7690718	N/A	2021/11/10	Viorica Rotaru
Nitrate & Nitrite as Nitrogen in Water	LACH	7687349	N/A	2021/11/09	Chandra Nandlal
pH	AT	7687229	2021/11/08	2021/11/09	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7686973	N/A	2021/11/09	Deonarine Ramnarine
Orthophosphate	KONE	7687677	N/A	2021/11/11	Avneet Kour Sudan
Total Dissolved Solids	BAL	7690424	2021/11/09	2021/11/10	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7689213	2021/11/09	2021/11/12	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7689180	N/A	2021/11/09	Julianna Castiglione



BUREAU
VERITAS

Bureau Veritas Job #: C1W6575
Report Date: 2021/11/17

Terrapure Environmental
Client Project #: GW
Sampler Initials: CR

TEST SUMMARY

Bureau Veritas ID: RDT592
Sample ID: 49-IV
Matrix: Water

Collected: 2021/11/04
Shipped:
Received: 2021/11/05

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7687253	N/A	2021/11/09	Surinder Rai
Anions	IC	7688250	N/A	2021/11/11	Fari Dehdezi
Conductivity	AT	7687261	N/A	2021/11/09	Surinder Rai
Fluoride	ISE	7687250	2021/11/08	2021/11/09	Surinder Rai
Hardness (calculated as CaCO3)		7684382	N/A	2021/11/15	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7688898	N/A	2021/11/15	Arefa Dabhad
Total Ammonia-N	LACH/NH4	7690718	N/A	2021/11/10	Viorica Rotaru
Nitrate & Nitrite as Nitrogen in Water	LACH	7687349	N/A	2021/11/09	Chandra Nandlal
pH	AT	7687229	2021/11/08	2021/11/09	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7686709	N/A	2021/11/08	Deonarine Ramnarine
Orthophosphate	KONE	7687677	N/A	2021/11/11	Avneet Kour Sudan
Total Dissolved Solids	BAL	7690424	2021/11/09	2021/11/10	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7689204	2021/11/09	2021/11/12	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7689180	N/A	2021/11/09	Julianna Castiglione

Bureau Veritas ID: RDT592 Dup
Sample ID: 49-IV
Matrix: Water

Collected: 2021/11/04
Shipped:
Received: 2021/11/05

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7687253	N/A	2021/11/09	Surinder Rai
Conductivity	AT	7687261	N/A	2021/11/09	Surinder Rai
Fluoride	ISE	7687250	2021/11/08	2021/11/09	Surinder Rai
pH	AT	7687229	2021/11/08	2021/11/09	Surinder Rai
Total Kjeldahl Nitrogen in Water	SKAL	7689204	2021/11/09	2021/11/12	Massarat Jan

Bureau Veritas ID: RDT593
Sample ID: 49-V
Matrix: Water

Collected: 2021/11/04
Shipped:
Received: 2021/11/05

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7687253	N/A	2021/11/09	Surinder Rai
Anions	IC	7688250	N/A	2021/11/11	Fari Dehdezi
Conductivity	AT	7687261	N/A	2021/11/09	Surinder Rai
Fluoride	ISE	7687250	2021/11/08	2021/11/09	Surinder Rai
Hardness (calculated as CaCO3)		7684382	N/A	2021/11/11	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7688915	N/A	2021/11/10	Azita Fazaali
Total Ammonia-N	LACH/NH4	7690718	N/A	2021/11/10	Viorica Rotaru
Nitrate & Nitrite as Nitrogen in Water	LACH	7687349	N/A	2021/11/09	Chandra Nandlal
pH	AT	7687229	2021/11/08	2021/11/09	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7686973	N/A	2021/11/08	Deonarine Ramnarine
Orthophosphate	KONE	7687677	N/A	2021/11/11	Avneet Kour Sudan
Total Dissolved Solids	BAL	7690424	2021/11/09	2021/11/10	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7689204	2021/11/09	2021/11/12	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7689180	N/A	2021/11/09	Julianna Castiglione



BUREAU
VERITAS

Bureau Veritas Job #: C1W6575
Report Date: 2021/11/17

Terrapure Environmental
Client Project #: GW
Sampler Initials: CR

TEST SUMMARY

Bureau Veritas ID: RDT594
Sample ID: 12-II
Matrix: Water

Collected: 2021/11/04
Shipped:
Received: 2021/11/05

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7687253	N/A	2021/11/09	Surinder Rai
Anions	IC	7688250	N/A	2021/11/11	Fari Dehdezi
Conductivity	AT	7687261	N/A	2021/11/09	Surinder Rai
Fluoride	ISE	7687250	2021/11/08	2021/11/09	Surinder Rai
Hardness (calculated as CaCO3)		7684382	N/A	2021/11/15	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7688898	N/A	2021/11/12	Arefa Dabhad
Total Ammonia-N	LACH/NH4	7690718	N/A	2021/11/10	Viorica Rotaru
Nitrate & Nitrite as Nitrogen in Water	LACH	7687349	N/A	2021/11/09	Chandra Nandlal
pH	AT	7687229	2021/11/08	2021/11/09	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7686709	N/A	2021/11/09	Deonarine Ramnarine
Orthophosphate	KONE	7687677	N/A	2021/11/11	Avneet Kour Sudan
Total Dissolved Solids	BAL	7690424	2021/11/09	2021/11/10	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7689204	2021/11/09	2021/11/12	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7689180	N/A	2021/11/09	Julianna Castiglione



GENERAL COMMENTS

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

Package 1	6.3°C
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Anions Analysis: Due to the sample matrix, sample required dilution. Detection limits were adjusted accordingly.

Sample RDT590 [51- IV] : OC Pesticide Analysis: Detection limits were raised due to matrix interferences.

ABN Analysis: Due to the sample matrix, a smaller amount was used for extraction. Detection limits were adjusted accordingly.

Results relate only to the items tested.



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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
7686768	4-Bromofluorobenzene	2021/11/10	100	70 - 130	100	70 - 130	96	%				
7686768	D4-1,2-Dichloroethane	2021/11/10	88	70 - 130	86	70 - 130	88	%				
7686768	D8-Toluene	2021/11/10	102	70 - 130	104	70 - 130	99	%				
7691298	2,4,5,6-Tetrachloro-m-xylene	2021/11/12	72	50 - 130	66	50 - 130	68	%				
7691298	Decachlorobiphenyl	2021/11/12	93	50 - 130	88	50 - 130	89	%				
7700330	2,4,6-Tribromophenol	2021/11/15			72	10 - 130	59	%				
7700330	2-Fluorobiphenyl	2021/11/15			46	30 - 130	43	%				
7700330	2-Fluorophenol	2021/11/15			31	10 - 130	32	%				
7700330	D14-Terphenyl	2021/11/15			85	30 - 130	79	%				
7700330	D5-Nitrobenzene	2021/11/15			56	30 - 130	53	%				
7700330	D5-Phenol	2021/11/15			21	10 - 130	19	%				
7686709	Phenols-4AAP	2021/11/08	103	80 - 120	98	80 - 120	<0.0010	mg/L	NC	20		
7686768	1,1,1,2-Tetrachloroethane	2021/11/10	102	70 - 130	106	70 - 130	<0.20	ug/L	NC	30		
7686768	1,1,1-Trichloroethane	2021/11/10	103	70 - 130	104	70 - 130	<0.10	ug/L	NC	30		
7686768	1,1,2,2-Tetrachloroethane	2021/11/10	95	70 - 130	93	70 - 130	<0.20	ug/L	NC	30		
7686768	1,1,2-Trichloroethane	2021/11/10	101	70 - 130	101	70 - 130	<0.20	ug/L	NC	30		
7686768	1,1-Dichloroethane	2021/11/10	93	70 - 130	94	70 - 130	<0.10	ug/L	NC	30		
7686768	1,1-Dichloroethylene	2021/11/10	94	70 - 130	98	70 - 130	<0.10	ug/L	NC	30		
7686768	1,2-Dichlorobenzene	2021/11/10	98	70 - 130	101	70 - 130	<0.20	ug/L	NC	30		
7686768	1,2-Dichloroethane	2021/11/10	85	70 - 130	88	70 - 130	<0.20	ug/L	NC	30		
7686768	1,2-Dichloropropane	2021/11/10	96	70 - 130	98	70 - 130	<0.10	ug/L	NC	30		
7686768	1,3-Dichlorobenzene	2021/11/10	103	70 - 130	105	70 - 130	<0.20	ug/L	NC	30		
7686768	1,4-Dichlorobenzene	2021/11/10	117	70 - 130	121	70 - 130	<0.20	ug/L	NC	30		
7686768	Acetone (2-Propanone)	2021/11/10	84	60 - 140	80	60 - 140	<10	ug/L	NC	30		
7686768	Benzene	2021/11/10	97	70 - 130	99	70 - 130	<0.10	ug/L	NC	30		
7686768	Bromodichloromethane	2021/11/10	99	70 - 130	100	70 - 130	<0.10	ug/L	NC	30		
7686768	Bromoform	2021/11/10	101	70 - 130	105	70 - 130	<0.20	ug/L	NC	30		
7686768	Bromomethane	2021/11/10	95	60 - 140	111	60 - 140	<0.50	ug/L	NC	30		
7686768	Carbon Tetrachloride	2021/11/10	100	70 - 130	101	70 - 130	<0.10	ug/L	NC	30		
7686768	Chlorobenzene	2021/11/10	102	70 - 130	105	70 - 130	<0.10	ug/L	NC	30		
7686768	Chloroethane	2021/11/10	77	70 - 130	102	70 - 130	<0.20	ug/L	NC (1)	30		



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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
7686768	Chloroform	2021/11/10	98	70 - 130	99	70 - 130	<0.10	ug/L	NC	30		
7686768	Chloromethane	2021/11/10	103	60 - 140	97	60 - 140	<0.50	ug/L	NC	30		
7686768	cis-1,2-Dichloroethylene	2021/11/10	102	70 - 130	103	70 - 130	<0.10	ug/L	NC	30		
7686768	cis-1,3-Dichloropropene	2021/11/10	101	70 - 130	101	70 - 130	<0.20	ug/L	NC	30		
7686768	Dibromochloromethane	2021/11/10	99	70 - 130	100	70 - 130	<0.20	ug/L	NC	30		
7686768	Ethylbenzene	2021/11/10	100	70 - 130	101	70 - 130	<0.10	ug/L	NC	30		
7686768	Ethylene Dibromide	2021/11/10	97	70 - 130	96	70 - 130	<0.20	ug/L	NC	30		
7686768	Methyl Ethyl Ketone (2-Butanone)	2021/11/10	93	60 - 140	88	60 - 140	<5.0	ug/L	NC	30		
7686768	Methyl Isobutyl Ketone	2021/11/10	101	70 - 130	91	70 - 130	<5.0	ug/L	NC	30		
7686768	Methyl t-butyl ether (MTBE)	2021/11/10	96	70 - 130	92	70 - 130	<0.20	ug/L	NC	30		
7686768	Methylene Chloride(Dichloromethane)	2021/11/10	89	70 - 130	95	70 - 130	<0.50	ug/L	NC	30		
7686768	o-Xylene	2021/11/10	103	70 - 130	104	70 - 130	<0.10	ug/L	NC	30		
7686768	p+m-Xylene	2021/11/10	106	70 - 130	106	70 - 130	<0.10	ug/L	NC	30		
7686768	Styrene	2021/11/10	109	70 - 130	116	70 - 130	<0.20	ug/L	NC	30		
7686768	Tetrachloroethylene	2021/11/10	97	70 - 130	99	70 - 130	<0.10	ug/L	NC	30		
7686768	Toluene	2021/11/10	103	70 - 130	104	70 - 130	<0.20	ug/L	NC	30		
7686768	Total Trihalomethanes	2021/11/10					<0.20	ug/L	NC	30		
7686768	Total Xylenes	2021/11/10					<0.10	ug/L	NC	30		
7686768	trans-1,2-Dichloroethylene	2021/11/10	103	70 - 130	106	70 - 130	<0.10	ug/L	NC	30		
7686768	trans-1,3-Dichloropropene	2021/11/10	106	70 - 130	105	70 - 130	<0.20	ug/L	NC	30		
7686768	Trichloroethylene	2021/11/10	108	70 - 130	109	70 - 130	<0.10	ug/L	NC	30		
7686768	Trichlorofluoromethane (FREON 11)	2021/11/10	87	70 - 130	90	70 - 130	<0.20	ug/L	NC	30		
7686768	Vinyl Chloride	2021/11/10	84	70 - 130	90	70 - 130	<0.20	ug/L	NC	30		
7686780	Acrolein	2021/11/11	76	60 - 140	114	60 - 140	<10	ug/L	NC	30		
7686780	Acrylonitrile	2021/11/11	107	60 - 140	100	60 - 140	<5.0	ug/L	NC	30		
7686780	Methyl Butyl Ketone (2-Hexanone)	2021/11/11			96	60 - 140	<5.0	ug/L	NC	30		
7686973	Phenols-4AAP	2021/11/08	97	80 - 120	97	80 - 120	<0.0010	mg/L	NC	20		
7687229	pH	2021/11/09			102	98 - 103			0.35	N/A		
7687250	Fluoride (F-)	2021/11/09	79 (2)	80 - 120	105	80 - 120	<0.10	mg/L	0	20		
7687253	Alkalinity (Total as CaCO3)	2021/11/09			93	85 - 115	<1.0	mg/L	0.41	20		



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			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
7687261	Conductivity	2021/11/09			100	85 - 115	<1.0	umho/cm	0.55	25		
7687349	Nitrate (N)	2021/11/10	98	80 - 120	103	80 - 120	<0.10	mg/L	NC	20		
7687349	Nitrite (N)	2021/11/10	105	80 - 120	106	80 - 120	<0.010	mg/L	NC	20		
7687677	Orthophosphate (P)	2021/11/11	103	75 - 125	101	80 - 120	<0.010	mg/L	1.1	25		
7688250	Dissolved Bromide (Br-)	2021/11/11	105	80 - 120	104	80 - 120	<1.0	mg/L	NC	20		
7688250	Dissolved Chloride (Cl-)	2021/11/11	NC	80 - 120	100	70 - 130	<1.0	mg/L	3.0	20		
7688250	Dissolved Sulphate (SO4)	2021/11/11	NC	80 - 120	103	80 - 120	<1.0	mg/L	4.3	20		
7688898	Dissolved Aluminum (Al)	2021/11/12	99	80 - 120	102	80 - 120	<4.9	ug/L				
7688898	Dissolved Antimony (Sb)	2021/11/12	101	80 - 120	102	80 - 120	<0.50	ug/L				
7688898	Dissolved Arsenic (As)	2021/11/12	101	80 - 120	100	80 - 120	<1.0	ug/L				
7688898	Dissolved Barium (Ba)	2021/11/12	99	80 - 120	98	80 - 120	<2.0	ug/L				
7688898	Dissolved Beryllium (Be)	2021/11/12	99	80 - 120	99	80 - 120	<0.40	ug/L				
7688898	Dissolved Bismuth (Bi)	2021/11/12	97	80 - 120	97	80 - 120	<1.0	ug/L				
7688898	Dissolved Boron (B)	2021/11/12	94	80 - 120	94	80 - 120	<10	ug/L				
7688898	Dissolved Cadmium (Cd)	2021/11/12	101	80 - 120	101	80 - 120	<0.090	ug/L				
7688898	Dissolved Calcium (Ca)	2021/11/12	99	80 - 120	102	80 - 120	<200	ug/L				
7688898	Dissolved Chromium (Cr)	2021/11/12	95	80 - 120	95	80 - 120	<5.0	ug/L				
7688898	Dissolved Cobalt (Co)	2021/11/12	99	80 - 120	100	80 - 120	<0.50	ug/L				
7688898	Dissolved Copper (Cu)	2021/11/12	96	80 - 120	97	80 - 120	<0.90	ug/L				
7688898	Dissolved Iron (Fe)	2021/11/12	97	80 - 120	100	80 - 120	<100	ug/L				
7688898	Dissolved Lead (Pb)	2021/11/12	96	80 - 120	100	80 - 120	<0.50	ug/L	1.1	20		
7688898	Dissolved Lithium (Li)	2021/11/12	112	80 - 120	110	80 - 120	<5.0	ug/L				
7688898	Dissolved Magnesium (Mg)	2021/11/12	102	80 - 120	104	80 - 120	<50	ug/L				
7688898	Dissolved Manganese (Mn)	2021/11/12	99	80 - 120	100	80 - 120	<2.0	ug/L				
7688898	Dissolved Molybdenum (Mo)	2021/11/12	99	80 - 120	98	80 - 120	<0.50	ug/L				
7688898	Dissolved Nickel (Ni)	2021/11/12	98	80 - 120	97	80 - 120	<1.0	ug/L				
7688898	Dissolved Phosphorus (P)	2021/11/12	103	80 - 120	116	80 - 120	<100	ug/L				
7688898	Dissolved Potassium (K)	2021/11/12	104	80 - 120	102	80 - 120	<200	ug/L				
7688898	Dissolved Selenium (Se)	2021/11/12	101	80 - 120	103	80 - 120	<2.0	ug/L				
7688898	Dissolved Silicon (Si)	2021/11/12	100	80 - 120	102	80 - 120	<50	ug/L				



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			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
7688898	Dissolved Silver (Ag)	2021/11/12	99	80 - 120	101	80 - 120	<0.090	ug/L				
7688898	Dissolved Sodium (Na)	2021/11/12	98	80 - 120	101	80 - 120	<100	ug/L				
7688898	Dissolved Strontium (Sr)	2021/11/12	97	80 - 120	97	80 - 120	<1.0	ug/L				
7688898	Dissolved Tellurium (Te)	2021/11/12	102	80 - 120	104	80 - 120	<1.0	ug/L				
7688898	Dissolved Thallium (Tl)	2021/11/12	101	80 - 120	98	80 - 120	<0.050	ug/L				
7688898	Dissolved Tin (Sn)	2021/11/12	103	80 - 120	102	80 - 120	<1.0	ug/L				
7688898	Dissolved Titanium (Ti)	2021/11/12	99	80 - 120	101	80 - 120	<5.0	ug/L				
7688898	Dissolved Tungsten (W)	2021/11/12	102	80 - 120	101	80 - 120	<1.0	ug/L				
7688898	Dissolved Uranium (U)	2021/11/12	96	80 - 120	101	80 - 120	<0.10	ug/L				
7688898	Dissolved Vanadium (V)	2021/11/12	97	80 - 120	97	80 - 120	<0.50	ug/L				
7688898	Dissolved Zinc (Zn)	2021/11/12	99	80 - 120	99	80 - 120	<5.0	ug/L				
7688898	Dissolved Zirconium (Zr)	2021/11/12	103	80 - 120	104	80 - 120	<1.0	ug/L				
7688915	Dissolved Aluminum (Al)	2021/11/10	102	80 - 120	102	80 - 120	<4.9	ug/L				
7688915	Dissolved Antimony (Sb)	2021/11/10	110	80 - 120	106	80 - 120	<0.50	ug/L	NC	20		
7688915	Dissolved Arsenic (As)	2021/11/10	103	80 - 120	100	80 - 120	<1.0	ug/L	NC	20		
7688915	Dissolved Barium (Ba)	2021/11/10	101	80 - 120	99	80 - 120	<2.0	ug/L	2.4	20		
7688915	Dissolved Beryllium (Be)	2021/11/10	99	80 - 120	98	80 - 120	<0.40	ug/L	NC	20		
7688915	Dissolved Bismuth (Bi)	2021/11/10	96	80 - 120	98	80 - 120	<1.0	ug/L				
7688915	Dissolved Boron (B)	2021/11/10	98	80 - 120	99	80 - 120	<10	ug/L	2.4	20		
7688915	Dissolved Cadmium (Cd)	2021/11/10	104	80 - 120	102	80 - 120	<0.090	ug/L	NC	20		
7688915	Dissolved Calcium (Ca)	2021/11/10	NC	80 - 120	103	80 - 120	<200	ug/L				
7688915	Dissolved Chromium (Cr)	2021/11/10	101	80 - 120	100	80 - 120	<5.0	ug/L	NC	20		
7688915	Dissolved Cobalt (Co)	2021/11/10	100	80 - 120	100	80 - 120	<0.50	ug/L	NC	20		
7688915	Dissolved Copper (Cu)	2021/11/10	100	80 - 120	101	80 - 120	<0.90	ug/L	NC	20		
7688915	Dissolved Iron (Fe)	2021/11/10	101	80 - 120	101	80 - 120	<100	ug/L				
7688915	Dissolved Lead (Pb)	2021/11/10	96	80 - 120	98	80 - 120	<0.50	ug/L	NC	20		
7688915	Dissolved Lithium (Li)	2021/11/10	101	80 - 120	99	80 - 120	<5.0	ug/L				
7688915	Dissolved Magnesium (Mg)	2021/11/10	NC	80 - 120	102	80 - 120	<50	ug/L				
7688915	Dissolved Manganese (Mn)	2021/11/10	105	80 - 120	103	80 - 120	<2.0	ug/L				
7688915	Dissolved Molybdenum (Mo)	2021/11/10	109	80 - 120	105	80 - 120	<0.50	ug/L	6.2	20		
7688915	Dissolved Nickel (Ni)	2021/11/10	97	80 - 120	101	80 - 120	<1.0	ug/L	NC	20		



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QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
7688915	Dissolved Phosphorus (P)	2021/11/10	106	80 - 120	108	80 - 120	<100	ug/L				
7688915	Dissolved Potassium (K)	2021/11/10	102	80 - 120	100	80 - 120	<200	ug/L				
7688915	Dissolved Selenium (Se)	2021/11/10	100	80 - 120	98	80 - 120	<2.0	ug/L	NC	20		
7688915	Dissolved Silicon (Si)	2021/11/10	104	80 - 120	102	80 - 120	<50	ug/L				
7688915	Dissolved Silver (Ag)	2021/11/10	105	80 - 120	102	80 - 120	<0.090	ug/L	NC	20		
7688915	Dissolved Sodium (Na)	2021/11/10	NC	80 - 120	102	80 - 120	<100	ug/L	1.8	20		
7688915	Dissolved Strontium (Sr)	2021/11/10	NC	80 - 120	101	80 - 120	<1.0	ug/L				
7688915	Dissolved Tellurium (Te)	2021/11/10	104	80 - 120	104	80 - 120	<1.0	ug/L				
7688915	Dissolved Thallium (Tl)	2021/11/10	98	80 - 120	99	80 - 120	<0.050	ug/L	NC	20		
7688915	Dissolved Tin (Sn)	2021/11/10	109	80 - 120	106	80 - 120	<1.0	ug/L				
7688915	Dissolved Titanium (Ti)	2021/11/10	102	80 - 120	101	80 - 120	<5.0	ug/L				
7688915	Dissolved Tungsten (W)	2021/11/10	102	80 - 120	101	80 - 120	<1.0	ug/L				
7688915	Dissolved Uranium (U)	2021/11/10	101	80 - 120	101	80 - 120	<0.10	ug/L	2.4	20		
7688915	Dissolved Vanadium (V)	2021/11/10	102	80 - 120	102	80 - 120	<0.50	ug/L	NC	20		
7688915	Dissolved Zinc (Zn)	2021/11/10	100	80 - 120	103	80 - 120	<5.0	ug/L	NC	20		
7688915	Dissolved Zirconium (Zr)	2021/11/10	112	80 - 120	107	80 - 120	<1.0	ug/L				
7689180	Total Organic Carbon (TOC)	2021/11/09	90	80 - 120	98	80 - 120	<0.40	mg/L	3.3	20		
7689204	Total Kjeldahl Nitrogen (TKN)	2021/11/12	119	80 - 120	107	80 - 120	<0.10	mg/L	4.1	20	112	80 - 120
7689213	Total Kjeldahl Nitrogen (TKN)	2021/11/12	NC	80 - 120	93	80 - 120	<0.10	mg/L	18	20	95	80 - 120
7690424	Total Dissolved Solids	2021/11/10					<10	mg/L	9.5	25	98	90 - 110
7690718	Total Ammonia-N	2021/11/10	98	75 - 125	100	80 - 120	<0.050	mg/L	NC	20		
7691298	a-Chlordane	2021/11/12	85	50 - 130	58	50 - 130	<0.005	ug/L	NC	30		
7691298	Aldrin	2021/11/12	105	50 - 130	67	50 - 130	<0.005	ug/L	NC	30		
7691298	alpha-BHC	2021/11/12	75	30 - 130	78	30 - 130	<0.005	ug/L	3.9	40		
7691298	Aroclor 1242	2021/11/12					<0.05	ug/L	NC	30		
7691298	Aroclor 1248	2021/11/12					<0.05	ug/L	NC	30		
7691298	Aroclor 1254	2021/11/12					<0.05	ug/L	NC	30		
7691298	Aroclor 1260	2021/11/12					<0.05	ug/L	NC	30		
7691298	beta-BHC	2021/11/12	78	30 - 130	66	30 - 130	<0.005	ug/L	6.8	40		
7691298	Dieldrin	2021/11/12	94	50 - 130	73	50 - 130	<0.005	ug/L	NC	30		
7691298	Endosulfan I (alpha)	2021/11/12	86	50 - 130	74	50 - 130	<0.005	ug/L	NC	30		



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			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
7691298	Endosulfan II (beta)	2021/11/12	81	50 - 130	72	50 - 130	<0.005	ug/L	NC	30		
7691298	Endrin aldehyde	2021/11/12	85	30 - 130	77	30 - 130	<0.005	ug/L	27	40		
7691298	Endrin ketone	2021/11/12	81	30 - 130	69	30 - 130	<0.005	ug/L	5.5	40		
7691298	Endrin	2021/11/12	83	50 - 130	72	50 - 130	<0.005	ug/L	NC	30		
7691298	g-Chlordane	2021/11/12	83	50 - 130	62	50 - 130	<0.005	ug/L	NC	30		
7691298	Heptachlor epoxide	2021/11/12	82	50 - 130	64	50 - 130	<0.005	ug/L	NC	30		
7691298	Heptachlor	2021/11/12	68	50 - 130	56	50 - 130	<0.005	ug/L	NC	30		
7691298	Hexachlorobenzene	2021/11/12	83	50 - 130	65	50 - 130	<0.005	ug/L	NC	30		
7691298	Hexachlorobutadiene	2021/11/12	79	50 - 130	71	50 - 130	<0.009	ug/L	NC	30		
7691298	Hexachloroethane	2021/11/12	66	50 - 130	56	50 - 130	<0.01	ug/L	NC	30		
7691298	Lindane	2021/11/12	91	50 - 130	89	50 - 130	<0.003	ug/L	NC	30		
7691298	Methoxychlor	2021/11/12	97	50 - 130	92	50 - 130	<0.01	ug/L	NC	30		
7691298	Mirex	2021/11/12	91	30 - 130	80	30 - 130	<0.005	ug/L	12	40		
7691298	o,p-DDD	2021/11/12	99	50 - 130	78	50 - 130	<0.005	ug/L	NC	30		
7691298	o,p-DDE	2021/11/12	105	50 - 130	78	50 - 130	<0.005	ug/L	NC	30		
7691298	o,p-DDT	2021/11/12	83	50 - 130	65	50 - 130	<0.005	ug/L	NC	30		
7691298	p,p-DDD	2021/11/12	99	50 - 130	77	50 - 130	<0.005	ug/L	NC	30		
7691298	p,p-DDE	2021/11/12	88	50 - 130	75	50 - 130	<0.005	ug/L	NC	30		
7691298	p,p-DDT	2021/11/12	80	50 - 130	68	50 - 130	<0.005	ug/L	NC	30		
7691298	Toxaphene	2021/11/12					<0.2	ug/L				
7700330	1,2,3,4-Tetrachlorobenzene	2021/11/15			57	30 - 130	<0.50	ug/L	46 (2)	40		
7700330	1,2,3,5-Tetrachlorobenzene	2021/11/15			55	30 - 130	<0.50	ug/L	44 (2)	40		
7700330	1,2,3-Trichlorobenzene	2021/11/15			50	30 - 130	<0.50	ug/L	27	40		
7700330	1,2,4,5-Tetrachlorobenzene	2021/11/15			55	30 - 130	<0.50	ug/L	29	40		
7700330	1,2,4-Trichlorobenzene	2021/11/15			51	30 - 130	<0.50	ug/L	31	40		
7700330	1,2-Dichlorobenzene	2021/11/15			46	30 - 130	<0.50	ug/L	21	40		
7700330	1,3,5-Trichlorobenzene	2021/11/15			50	30 - 130	<0.50	ug/L	5.2	40		
7700330	1,3-Dichlorobenzene	2021/11/15			42	30 - 130	<0.50	ug/L	14	40		
7700330	1,4-Dichlorobenzene	2021/11/15			44	30 - 130	<0.50	ug/L	8.0	40		
7700330	1-Chloronaphthalene	2021/11/15			41	30 - 130	<1.0	ug/L	14	40		
7700330	1-Methylnaphthalene	2021/11/15			51	30 - 130	<0.20	ug/L	14	40		



BUREAU
VERITAS

Bureau Veritas Job #: C1W6575

Report Date: 2021/11/17

QUALITY ASSURANCE REPORT(CONT'D)

Terrapure Environmental

Client Project #: GW

Sampler Initials: CR

QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
7700330	2,3,4,5-Tetrachlorophenol	2021/11/15			78	10 - 130	<0.40	ug/L	12	40		
7700330	2,3,4,6-Tetrachlorophenol	2021/11/15			78	10 - 130	<0.50	ug/L	3.9	40		
7700330	2,3,4-Trichlorophenol	2021/11/15			72	10 - 130	<0.50	ug/L	7.4	40		
7700330	2,3,5,6-Tetrachlorophenol	2021/11/15			76	10 - 130	<0.50	ug/L	5.6	40		
7700330	2,3,5-Trichlorophenol	2021/11/15			78	10 - 130	<0.50	ug/L	4.6	40		
7700330	2,3,6-Trichlorophenol	2021/11/15			72	10 - 130	<0.50	ug/L	5.0	40		
7700330	2,3-Dichlorophenol	2021/11/15			65	10 - 130	<0.50	ug/L	3.9	40		
7700330	2,4,5-Trichlorophenol	2021/11/15			84	10 - 130	<0.50	ug/L	7.8	40		
7700330	2,4,6-Trichlorophenol	2021/11/15			73	10 - 130	<0.50	ug/L	0.64	40		
7700330	2,4-Dichlorophenol	2021/11/15			63	10 - 130	<0.30	ug/L	5.3	40		
7700330	2,4-Dimethylphenol	2021/11/15			55	10 - 130	<0.50	ug/L	21	40		
7700330	2,4-Dinitrophenol	2021/11/15			67	10 - 130	<2.0	ug/L	4.8	40		
7700330	2,4-Dinitrotoluene	2021/11/15			81	30 - 130	<0.50	ug/L	1.5	40		
7700330	2,5-Dichlorophenol	2021/11/15			70	10 - 130	<0.50	ug/L	2.1	40		
7700330	2,6-Dichlorophenol	2021/11/15			62	10 - 130	<0.50	ug/L	6.0	40		
7700330	2,6-Dinitrotoluene	2021/11/15			86	30 - 130	<0.50	ug/L	9.7	40		
7700330	2-Chloronaphthalene	2021/11/15			52	30 - 130	<0.50	ug/L	13	40		
7700330	2-Chlorophenol	2021/11/15			59	10 - 130	<0.30	ug/L	3.2	40		
7700330	2-Methylnaphthalene	2021/11/15			45	30 - 130	<0.20	ug/L	12	40		
7700330	2-Nitrophenol	2021/11/15			62	10 - 130	<0.50	ug/L	3.4	40		
7700330	3,3'-Dichlorobenzidine	2021/11/15			76	30 - 130	<0.50	ug/L	0.49	40		
7700330	3,4,5-Trichlorophenol	2021/11/15			74	10 - 130	<0.50	ug/L	5.6	40		
7700330	3,4-Dichlorophenol	2021/11/15			79	10 - 130	<0.50	ug/L	5.9	40		
7700330	3,5-Dichlorophenol	2021/11/15			78	10 - 130	<0.50	ug/L	2.5	40		
7700330	4,6-Dinitro-2-methylphenol	2021/11/15			92	10 - 130	<2.0	ug/L	9.2	40		
7700330	4-Bromophenyl phenyl ether	2021/11/15			71	30 - 130	<0.30	ug/L	13	40		
7700330	4-Chloro-3-Methylphenol	2021/11/15			71	10 - 130	<0.50	ug/L	4.5	40		
7700330	4-Chlorophenyl phenyl ether	2021/11/15			65	30 - 130	<0.50	ug/L	12	40		
7700330	4-Nitrophenol	2021/11/15			19	10 - 130	<1.4	ug/L	8.3	40		
7700330	5-Nitroacenaphthene	2021/11/15			75	30 - 130	<1.0	ug/L	2.0	40		
7700330	Acenaphthene	2021/11/15			65	30 - 130	<0.20	ug/L	14	40		



BUREAU
VERITAS

Bureau Veritas Job #: C1W6575

Report Date: 2021/11/17

QUALITY ASSURANCE REPORT(CONT'D)

Terrapure Environmental

Client Project #: GW

Sampler Initials: CR

QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
7700330	Acenaphthylene	2021/11/15			62	30 - 130	<0.20	ug/L	6.0	40		
7700330	Anthracene	2021/11/15			72	30 - 130	<0.20	ug/L	2.6	40		
7700330	Benzo(a)anthracene	2021/11/15			88	30 - 130	<0.20	ug/L	2.7	40		
7700330	Benzo(a)pyrene	2021/11/15			87	30 - 130	<0.20	ug/L	3.7	40		
7700330	Benzo(b/j)fluoranthene	2021/11/15			84	30 - 130	<0.20	ug/L	0.55	40		
7700330	Benzo(g,h,i)perylene	2021/11/15			84	30 - 130	<0.20	ug/L	1.2	40		
7700330	Benzo(k)fluoranthene	2021/11/15			86	30 - 130	<0.20	ug/L	3.2	40		
7700330	Benzyl butyl phthalate	2021/11/15			81	30 - 130	<0.50	ug/L	2.9	40		
7700330	Biphenyl	2021/11/15			54	30 - 130	<0.50	ug/L	10	40		
7700330	Bis(2-chloroethoxy)methane	2021/11/15			53	30 - 130	<0.50	ug/L	10	40		
7700330	Bis(2-chloroethyl)ether	2021/11/15			57	30 - 130	<0.50	ug/L	11	40		
7700330	Bis(2-chloroisopropyl)ether	2021/11/15			42	30 - 130	<0.50	ug/L	6.1	40		
7700330	Bis(2-ethylhexyl)phthalate	2021/11/15			83	30 - 130	<2.0	ug/L	5.5	40		
7700330	Chrysene	2021/11/15			88	30 - 130	<0.20	ug/L	4.0	40		
7700330	Dibenzo(a,h)anthracene	2021/11/15			88	30 - 130	<0.20	ug/L	2.1	40		
7700330	Diethyl phthalate	2021/11/15			71	30 - 130	<1.0	ug/L	3.1	40		
7700330	Dimethyl phthalate	2021/11/15			73	30 - 130	<1.0	ug/L	4.1	40		
7700330	Di-N-butyl phthalate	2021/11/15			81	30 - 130	<2.0	ug/L	1.4	40		
7700330	di-n-octyl phthalate	2021/11/15			85	30 - 130	<0.80	ug/L	2.4	40		
7700330	Diphenyl Ether	2021/11/15			57	30 - 130	<0.30	ug/L	10	40		
7700330	Fluoranthene	2021/11/15			83	30 - 130	<0.20	ug/L	3.4	40		
7700330	Fluorene	2021/11/15			73	30 - 130	<0.20	ug/L	7.8	40		
7700330	Hexachlorobenzene	2021/11/15			72	30 - 130	<0.50	ug/L	10	40		
7700330	Hexachlorobutadiene	2021/11/15			36	30 - 130	<0.40	ug/L	3.4	40		
7700330	Hexachlorocyclopentadiene	2021/11/15			46	30 - 130	<2.0	ug/L	0.48	40		
7700330	Hexachloroethane	2021/11/15			30	30 - 130	<0.50	ug/L	1.3	40		
7700330	Indeno(1,2,3-cd)pyrene	2021/11/15			88	30 - 130	<0.20	ug/L	5.7	40		
7700330	Isophorone	2021/11/15			87	30 - 130	<0.50	ug/L	38	40		
7700330	m/p-Cresol	2021/11/15			48	10 - 130	<0.50	ug/L	3.0	40		
7700330	Naphthalene	2021/11/15			55	30 - 130	0.34, RDL=0.20 (3)	ug/L	9.1	40		



BUREAU
VERITAS

Bureau Veritas Job #: C1W6575

Report Date: 2021/11/17

QUALITY ASSURANCE REPORT(CONT'D)

Terrapure Environmental

Client Project #: GW

Sampler Initials: CR

QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
7700330	Nitrobenzene	2021/11/15			57	30 - 130	<0.50	ug/L	1.4	40		
7700330	Nitrosodiphenylamine/Diphenylamine	2021/11/15			91	30 - 130	<1.0	ug/L	2.1	40		
7700330	N-Nitroso-di-n-propylamine	2021/11/15			87	30 - 130	<0.50	ug/L	33	40		
7700330	o-Cresol	2021/11/15			50	10 - 130	<0.50	ug/L	7.4	40		
7700330	p-Chloroaniline	2021/11/15			79	30 - 130	<1.0	ug/L	4.4	40		
7700330	Pentachlorobenzene	2021/11/15			76	30 - 130	<0.50	ug/L	54 (2)	40		
7700330	Pentachlorophenol	2021/11/15			59	10 - 130	<1.0	ug/L	4.1	40		
7700330	Perylene	2021/11/15			83	30 - 130	<0.20	ug/L	1.6	40		
7700330	Phenanthrene	2021/11/15			79	30 - 130	<0.20	ug/L	6.4	40		
7700330	Phenol	2021/11/15			23	10 - 130	<0.50	ug/L	4.3	40		
7700330	Pyrene	2021/11/15			87	30 - 130	<0.20	ug/L	5.5	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) The detection limit was raised due to matrix interferences.

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

(3) 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

Bureau Veritas Job #: C1W6575
Report Date: 2021/11/17

Terrapure Environmental
Client Project #: GW
Sampler Initials: CR

VALIDATION SIGNATURE PAGE

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

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

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

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



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

05-Nov-21 16:50

Page 1 of 1

Jolanta Goralczyk
C1W6575

KSE ENV-1737

INVOICE TO:		REPORT TO:		PROJECT INFORMATION:	
Company Name: #16786 Terrapure Environmental	Company Name: Brad Mullin - GHD Reporting	Quotation #: B60569	Bottle Order #: 848637		
Attention: Accounting	Attention: Brad Mullin - GHD Reporting	P.O. #:	Project Manager: Jolanta Goralczyk		
Address: 65 Green Mountain Rd West	Address:	Project: GW	COC #: C#648637-16-01		
Address: Stoney Creek ON L8J 1X5	Address:	Project Name: GW	Project Manager: Jolanta Goralczyk		
Tel: (905) 561-0305 Fax: (905) 561-1674	Tel: (905) 548-5882 Fax: (905) 578-7533	Site #:	Turnaround Time (TAT) Required: <input checked="" type="checkbox"/>		
Email: kbailey@terrapureenv.com	Email: bmullin@terrapureenv.com; dtaylor2@terrapureenv.com	Sampled By:	Please provide advance notice for rush projects		

MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE BV LABS DRINKING WATER CHAIN OF CUSTODY						ANALYSIS REQUESTED (PLEASE BE SPECIFIC)										Turnaround Time (TAT) Required:			
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												Regular (Standard) TAT: <input checked="" type="checkbox"/>			
<input type="checkbox"/> Table 2	<input type="checkbox"/> Ind/Comm	<input type="checkbox"/> Coarse	<input type="checkbox"/> Reg 558	<input type="checkbox"/> Storm Sewer Bylaw												Standard TAT = 5-7 Working days for most tests.			
<input type="checkbox"/> Table 3	<input type="checkbox"/> Agri/Other	<input type="checkbox"/> For RSC	<input type="checkbox"/> MISA	<input type="checkbox"/> 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	<input type="checkbox"/> 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	Field Filtered (please circle): Metals Hg/Cr VI											# of Bottles	Comments		
1	51-IV	21/11/4	N/A	GW	Y	X	X											13	
2	49-II	↓	↓	↓	Y	X												6	
3	49-IV	↓	↓	↓	Y	X												6	
4	49-V	↓	↓	↓	Y	X												6	
5	12-II	↓	↓	↓	Y	X												6	
6																			
7																			
8																			
9																			
10																			

* RELINQUISHED BY: (Signature/Print) C. Richardson/Cooper Richardson	Date: (YY/MM/DD) 21/11/5	Time 9:15	RECEIVED BY: (Signature/Print) PAUSHA VADRA	Date: (YY/MM/DD) 2021/11/05	Time 16:05	# jars used and not submitted	Laboratory Use Only			
Time Sensitive		Temperature (°C) on Recept 6/7/6	Custody Seal Present		Yes	No				
			Intact		<input checked="" type="checkbox"/>					

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

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

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

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

White: BV Labs Yellow: Client

Bureau Veritas Canada (2019) Inc.

46611



Your Project #: GW

Attention: Brad Mullin - GHD Reporting

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

Your C.O.C. #: 847927-16-01, 847927-04-01, 847927-12-01

Report Date: 2021/11/18
Report #: R6907435
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C1W8324

Received: 2021/11/08, 17:13

Sample Matrix: Water
Samples Received: 21

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
ABN Compounds in Water by GC/MS	1	2021/11/15	2021/11/15	CAM SOP-00301	EPA 8270 m
ABN Compounds in Water by GC/MS	2	2021/11/15	2021/11/16	CAM SOP-00301	EPA 8270 m
Alkalinity	20	N/A	2021/11/11	CAM SOP-00448	SM 23 2320 B m
Anions	1	N/A	2021/11/11	CAM SOP-00435	SM 23 4110 B m
Anions	19	N/A	2021/11/12	CAM SOP-00435	SM 23 4110 B m
Biochemical Oxygen Demand (BOD)	1	2021/11/09	2021/11/14	CAM SOP-00427	SM 23 5210B m
Conductivity	20	N/A	2021/11/11	CAM SOP-00414	SM 23 2510 m
Fluoride	19	2021/11/10	2021/11/11	CAM SOP-00449	SM 23 4500-F C m
Fluoride	1	2021/11/09	2021/11/11	CAM SOP-00449	SM 23 4500-F C m
Hardness (calculated as CaCO3)	1	N/A	2021/11/11	CAM SOP 00102/00408/00447	SM 2340 B
Hardness (calculated as CaCO3)	8	N/A	2021/11/17	CAM SOP 00102/00408/00447	SM 2340 B
Hardness (calculated as CaCO3)	11	N/A	2021/11/18	CAM SOP 00102/00408/00447	SM 2340 B
Dissolved Metals by ICPMS	1	N/A	2021/11/10	CAM SOP-00447	EPA 6020B m
Dissolved Metals by ICPMS	8	N/A	2021/11/15	CAM SOP-00447	EPA 6020B m
Dissolved Metals by ICPMS	11	N/A	2021/11/17	CAM SOP-00447	EPA 6020B m
Total Ammonia-N	20	N/A	2021/11/13	CAM SOP-00441	USGS I-2522-90 m
Nitrate & Nitrite as Nitrogen in Water (1)	20	N/A	2021/11/11	CAM SOP-00440	SM 23 4500-NO3I/NO2B
OC Pesticides (Selected) & PCB (2)	3	2021/11/09	2021/11/16	CAM SOP-00307	EPA 8081A/8082B m
OC Pesticides Summed Parameters	1	N/A	2021/11/10	CAM SOP-00307	EPA 8081A/8082B m
OC Pesticides Summed Parameters	2	N/A	2021/11/11	CAM SOP-00307	EPA 8081A/8082B m
pH	19	2021/11/10	2021/11/11	CAM SOP-00413	SM 4500H+ B m
pH	1	2021/11/09	2021/11/11	CAM SOP-00413	SM 4500H+ B m
Phenols (4AAP)	20	N/A	2021/11/10	CAM SOP-00444	OMOE E3179 m
Orthophosphate	1	N/A	2021/11/10	CAM SOP-00461	EPA 365.1 m
Orthophosphate	3	N/A	2021/11/11	CAM SOP-00461	EPA 365.1 m



Your Project #: GW

Attention: Brad Mullin - GHD Reporting

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

Your C.O.C. #: 847927-16-01, 847927-04-01, 847927-12-01

Report Date: 2021/11/18
Report #: R6907435
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C1W8324

Received: 2021/11/08, 17:13

Sample Matrix: Water
Samples Received: 21

Analyses	Date		Laboratory Method	Analytical Method
	Quantity	Extracted		
Orthophosphate	16	N/A	2021/11/12 CAM SOP-00461	EPA 365.1 m
Total Dissolved Solids	17	2021/11/11	2021/11/12 CAM SOP-00428	SM 23 2540C m
Total Dissolved Solids	3	2021/11/11	2021/11/13 CAM SOP-00428	SM 23 2540C m
Total Kjeldahl Nitrogen in Water	4	2021/11/10	2021/11/15 CAM SOP-00938	OMOE E3516 m
Total Kjeldahl Nitrogen in Water	16	2021/11/10	2021/11/16 CAM SOP-00938	OMOE E3516 m
Total Organic Carbon (TOC) (3)	4	N/A	2021/11/11 CAM SOP-00446	SM 23 5310B m
Total Organic Carbon (TOC) (3)	16	N/A	2021/11/12 CAM SOP-00446	SM 23 5310B m
Volatile Organic Compounds in Water	3	N/A	2021/11/10 CAM SOP-00226	EPA 8260C m
Non-Routine Volatile Organic Compounds	3	N/A	2021/11/11 CAM SOP-00226	EPA 8260 m

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

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

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

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

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

Encryption Key



**AUTHORIZED REPORT
RAPPORT AUTORISÉ**

Bureau Veritas

18 Nov 2021 15:27:19

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

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

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BUREAU
VERITAS

Bureau Veritas Job #: C1W8324
Report Date: 2021/11/18

Terrapure Environmental
Client Project #: GW
Sampler Initials: CR

RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		REE724			REE724			REE725		
Sampling Date		2021/11/05			2021/11/05			2021/11/05		
COC Number		847927-16-01			847927-16-01			847927-16-01		
	UNITS	9-I	RDL	QC Batch	9-I Lab-Dup	RDL	QC Batch	P10-V	RDL	QC Batch

Calculated Parameters										
Hardness (CaCO3)	mg/L	1100	1.0	7686441				420	1.0	7686441
Inorganics										
Total Ammonia-N	mg/L	0.29	0.050	7695663				<0.050	0.050	7695663
Conductivity	umho/cm	2100	1.0	7693285				810	1.0	7693285
Total Dissolved Solids	mg/L	1550	10	7692077				430	10	7692077
Fluoride (F-)	mg/L	0.97	0.10	7693271				0.84	0.10	7693271
Total Kjeldahl Nitrogen (TKN)	mg/L	0.67	0.20	7693202				0.37	0.10	7693202
Total Organic Carbon (TOC)	mg/L	6.4	0.40	7693171				4.9	0.40	7693171
Orthophosphate (P)	mg/L	0.010	0.010	7692785				0.13	0.010	7692785
pH	pH	7.56		7693291				7.78		7693291
Phenols-4AAP	mg/L	0.0010	0.0010	7691540				<0.0010	0.0010	7691540
Alkalinity (Total as CaCO3)	mg/L	320	1.0	7693281				380	1.0	7693281
Nitrite (N)	mg/L	<0.010	0.010	7692327				<0.010	0.010	7692327
Dissolved Chloride (Cl-)	mg/L	110	5.0	7692760	100	5.0	7692760	8.3	1.0	7692760
Nitrate (N)	mg/L	6.41	0.10	7692327				<0.10	0.10	7692327
Nitrate + Nitrite (N)	mg/L	6.41	0.10	7692327				<0.10	0.10	7692327
Dissolved Bromide (Br-)	mg/L	<5.0	5.0	7692760	<5.0	5.0	7692760	<1.0	1.0	7692760
Dissolved Sulphate (SO4)	mg/L	800	5.0	7692760	730	5.0	7692760	58	1.0	7692760

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



BUREAU
VERITAS

Bureau Veritas Job #: C1W8324
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Terrapure Environmental
Client Project #: GW
Sampler Initials: CR

RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		REE726			REE726			REE727		
Sampling Date		2021/11/05			2021/11/05			2021/11/05		
COC Number		847927-16-01			847927-16-01			847927-16-01		
	UNITS	P4-IV	RDL	QC Batch	P4-IV Lab-Dup	RDL	QC Batch	CW3	RDL	QC Batch

Calculated Parameters										
Hardness (CaCO3)	mg/L	260	1.0	7686441				53	1.0	7686441
Inorganics										
Total Ammonia-N	mg/L	<0.050	0.050	7695663				6.2	0.050	7695663
Conductivity	umho/cm	510	1.0	7693285				1100	1.0	7693285
Total Dissolved Solids	mg/L	270	10	7692077				590	10	7692077
Fluoride (F-)	mg/L	0.36	0.10	7693271				1.3	0.10	7693271
Total Kjeldahl Nitrogen (TKN)	mg/L	0.15	0.10	7693202	0.16	0.10	7693202	6.7	1.0	7693202
Total Organic Carbon (TOC)	mg/L	3.6	0.40	7693171				18	0.40	7693171
Orthophosphate (P)	mg/L	0.021	0.010	7691627	0.021	0.010	7691627	0.010	0.010	7692785
pH	pH	7.98		7693291				9.38		7693291
Phenols-4AAP	mg/L	<0.0010	0.0010	7691540				0.21	0.010	7691540
Alkalinity (Total as CaCO3)	mg/L	230	1.0	7693281				68	1.0	7693281
Nitrite (N)	mg/L	<0.010	0.010	7692327				0.014	0.010	7692327
Dissolved Chloride (Cl-)	mg/L	8.7	1.0	7691631				220	5.0	7692760
Nitrate (N)	mg/L	0.17	0.10	7692327				<0.10	0.10	7692327
Nitrate + Nitrite (N)	mg/L	0.17	0.10	7692327				0.11	0.10	7692327
Dissolved Bromide (Br-)	mg/L	<1.0	1.0	7691631				<1.0	1.0	7692760
Dissolved Sulphate (SO4)	mg/L	36	1.0	7691631				120	1.0	7692760

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



BUREAU
VERITAS

Bureau Veritas Job #: C1W8324
Report Date: 2021/11/18

Terrapure Environmental
Client Project #: GW
Sampler Initials: CR

RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		REE728			REE729			REE730		
Sampling Date		2021/11/05			2021/11/05			2021/11/05		
COC Number		847927-16-01			847927-16-01			847927-16-01		
	UNITS	CW16	RDL	QC Batch	CW5R	RDL	QC Batch	L1	RDL	QC Batch
Calculated Parameters										
Hardness (CaCO3)	mg/L	960	1.0	7686441	160	1.0	7686441	1900	1.0	7686441
Inorganics										
Total Ammonia-N	mg/L	1.4	0.050	7695663	80	0.50	7695663	12	0.050	7695663
Conductivity	umho/cm	1800	1.0	7693285	6400	1.0	7693285	5500	1.0	7693285
Total Dissolved Solids	mg/L	1260	10	7692077	3370	20	7692077	3820	10	7692077
Fluoride (F-)	mg/L	1.4	0.10	7693271	2.8	0.10	7693271	0.82	0.10	7693271
Total Kjeldahl Nitrogen (TKN)	mg/L	2.0	0.10	7693202	88	2.5	7693202	13	1.0	7693202
Total Organic Carbon (TOC)	mg/L	4.2	0.40	7693171	22	0.40	7693171	3.0	0.40	7693171
Orthophosphate (P)	mg/L	<0.010	0.010	7692785	0.020	0.010	7692785	<0.010	0.010	7692785
pH	pH	7.75		7693291	9.06		7693291	7.47		7693291
Phenols-4AAP	mg/L	<0.0010	0.0010	7691540	0.42	0.020	7691620	<0.0010	0.0010	7691540
Alkalinity (Total as CaCO3)	mg/L	360	1.0	7693281	230	1.0	7693281	240	1.0	7693281
Nitrite (N)	mg/L	<0.010	0.010	7692327	<0.010	0.010	7692327	<0.010	0.010	7692327
Dissolved Chloride (Cl-)	mg/L	61	5.0	7692760	1900	10	7692760	940	10	7692760
Nitrate (N)	mg/L	1.03	0.10	7692327	<0.10	0.10	7692327	<0.10	0.10	7692327
Nitrate + Nitrite (N)	mg/L	1.03	0.10	7692327	<0.10	0.10	7692327	<0.10	0.10	7692327
Dissolved Bromide (Br-)	mg/L	<5.0	5.0	7692760	<10	10	7692760	<10	10	7692760
Dissolved Sulphate (SO4)	mg/L	540	5.0	7692760	260	10	7692760	1500	10	7692760
RDL = Reportable Detection Limit										
QC Batch = Quality Control Batch										



BUREAU
VERITAS

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Terrapure Environmental
Client Project #: GW
Sampler Initials: CR

RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		REE731		REE732			REE732		
Sampling Date		2021/11/05		2021/11/05			2021/11/05		
COC Number		847927-16-01		847927-16-01			847927-16-01		
	UNITS	M4	QC Batch	M5R	RDL	QC Batch	M5R Lab-Dup	RDL	QC Batch
Calculated Parameters									
Hardness (CaCO3)	mg/L	1300	7686441	400	1.0	7686441			
Inorganics									
Total Ammonia-N	mg/L	6.1	7695663	21	0.050	7695663			
Conductivity	umho/cm	3900	7693285	3200	1.0	7690817	3200	1.0	7690817
Total Dissolved Solids	mg/L	2720	7695206	1690	10	7692077			
Fluoride (F-)	mg/L	0.99	7693271	1.0	0.10	7690802	0.92	0.10	7690802
Total Kjeldahl Nitrogen (TKN)	mg/L	9.2	7693202	26	1.0	7693202			
Total Organic Carbon (TOC)	mg/L	3.9	7693171	11	0.40	7693171			
Orthophosphate (P)	mg/L	<0.010	7692785	<0.010	0.010	7690854			
pH	pH	7.62	7693291	7.93		7690814	7.92		7690814
Phenols-4AAP	mg/L	0.0012	7691540	0.023	0.0010	7691540			
Alkalinity (Total as CaCO3)	mg/L	210	7693281	160	1.0	7690808	160	1.0	7690808
Nitrite (N)	mg/L	<0.010	7692327	0.265	0.010	7691017			
Dissolved Chloride (Cl-)	mg/L	610	7692760	660	5.0	7688256			
Nitrate (N)	mg/L	0.53	7692327	0.87	0.10	7691017			
Nitrate + Nitrite (N)	mg/L	0.53	7692327	1.14	0.10	7691017			
Dissolved Bromide (Br-)	mg/L	<5.0	7692760	<5.0	5.0	7688256			
Dissolved Sulphate (SO4)	mg/L	1000	7692760	440	5.0	7688256			
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate									



BUREAU
VERITAS

Bureau Veritas Job #: C1W8324
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Terrapure Environmental
Client Project #: GW
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RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		REE733			REE767			REE767		
Sampling Date		2021/11/05			2021/11/05			2021/11/05		
COC Number		847927-16-01			847927-04-01			847927-04-01		
	UNITS	P8-I	RDL	QC Batch	GII	RDL	QC Batch	GII Lab-Dup	RDL	QC Batch

Calculated Parameters										
Hardness (CaCO3)	mg/L	2000	1.0	7686441	460	1.0	7686441			
Inorganics										
Total Ammonia-N	mg/L	150	0.50	7695663	<0.050	0.050	7695663	<0.050	0.050	7695663
Conductivity	umho/cm	18000	1.0	7693285	2200	1.0	7693285			
Total Dissolved Solids	mg/L	11000	20	7692077	1180	10	7692077			
Fluoride (F-)	mg/L	3.0	0.10	7693271	1.5	0.10	7693271			
Total Kjeldahl Nitrogen (TKN)	mg/L	170	5.0	7693202	0.29	0.10	7693202			
Total Organic Carbon (TOC)	mg/L	39	0.40	7693171	3.0	0.40	7693171			
Orthophosphate (P)	mg/L	<0.010	0.010	7692785	<0.010	0.010	7691627			
pH	pH	7.48		7693291	7.57		7693291			
Phenols-4AAP	mg/L	0.0066	0.0010	7691540	<0.0010	0.0010	7691620			
Alkalinity (Total as CaCO3)	mg/L	340	1.0	7693281	300	1.0	7693281			
Nitrite (N)	mg/L	0.034	0.010	7692327	<0.010	0.010	7692327	<0.010	0.010	7692327
Dissolved Chloride (Cl-)	mg/L	5500	50	7692760	400	5.0	7691631			
Nitrate (N)	mg/L	<0.10	0.10	7692327	1.15	0.10	7692327	1.33	0.10	7692327
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	7692327	1.15	0.10	7692327	1.33	0.10	7692327
Dissolved Bromide (Br-)	mg/L	<50	50	7692760	<5.0	5.0	7691631			
Dissolved Sulphate (SO4)	mg/L	2300	50	7692760	180	5.0	7691631			

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



BUREAU
VERITAS

Bureau Veritas Job #: C1W8324
Report Date: 2021/11/18

Terrapure Environmental
Client Project #: GW
Sampler Initials: CR

RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		REE768			REE768			REE769		
Sampling Date		2021/11/05			2021/11/05			2021/11/05		
COC Number		847927-04-01			847927-04-01			847927-04-01		
	UNITS	G13	RDL	QC Batch	G13 Lab-Dup	RDL	QC Batch	3-I	RDL	QC Batch

Calculated Parameters										
Hardness (CaCO3)	mg/L	540	1.0	7686441				1800	1.0	7686441
Inorganics										
Total Ammonia-N	mg/L	<0.050	0.050	7695663				13	0.050	7695663
Conductivity	umho/cm	1400	1.0	7693285	1400	1.0	7693285	4900	1.0	7693285
Total Dissolved Solids	mg/L	825	10	7692077				3750	10	7695206
Fluoride (F-)	mg/L	1.1	0.10	7693271	0.92	0.10	7693271	1.3	0.10	7693271
Total Kjeldahl Nitrogen (TKN)	mg/L	0.32	0.20	7693202				14	1.0	7693202
Total Organic Carbon (TOC)	mg/L	3.7	0.40	7693171				4.3	0.40	7693171
Orthophosphate (P)	mg/L	<0.010	0.010	7691627				<0.010	0.010	7692785
pH	pH	7.64		7693291	7.66		7693291	7.60		7693291
Phenols-4AAP	mg/L	<0.0010	0.0010	7691620				<0.0010	0.0010	7691620
Alkalinity (Total as CaCO3)	mg/L	330	1.0	7693281	330	1.0	7693281	190	1.0	7693281
Nitrite (N)	mg/L	0.018	0.010	7692327				<0.010	0.010	7692327
Dissolved Chloride (Cl-)	mg/L	130	1.0	7691631				670	10	7692760
Nitrate (N)	mg/L	4.99	0.10	7692327				<0.10	0.10	7692327
Nitrate + Nitrite (N)	mg/L	5.01	0.10	7692327				<0.10	0.10	7692327
Dissolved Bromide (Br-)	mg/L	<1.0	1.0	7691631				<10	10	7692760
Dissolved Sulphate (SO4)	mg/L	190	1.0	7691631				1400	10	7692760

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



RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		REE769			REE770			REE770		
Sampling Date		2021/11/05			2021/11/05			2021/11/05		
COC Number		847927-04-01			847927-04-01			847927-04-01		
	UNITS	3-I Lab-Dup	RDL	QC Batch	40-I	RDL	QC Batch	40-I Lab-Dup	RDL	QC Batch

Calculated Parameters										
Hardness (CaCO3)	mg/L				1700	1.0	7686441			
Inorganics										
Total Ammonia-N	mg/L				3.8	0.050	7695663			
Conductivity	umho/cm				4200	1.0	7693285			
Total Dissolved Solids	mg/L	3850	10	7695206	3080	10	7692077			
Fluoride (F-)	mg/L				0.90	0.10	7693271			
Total Kjeldahl Nitrogen (TKN)	mg/L				4.7	0.50	7693202			
Total Organic Carbon (TOC)	mg/L				3.0	0.40	7693171	3.2	0.40	7693171
Orthophosphate (P)	mg/L				<0.010	0.010	7692785			
pH	pH				7.67		7693291			
Phenols-4AAP	mg/L				<0.0010	0.0010	7691540			
Alkalinity (Total as CaCO3)	mg/L				210	1.0	7693281			
Nitrite (N)	mg/L				0.021	0.010	7692327			
Dissolved Chloride (Cl-)	mg/L				520	10	7692760			
Nitrate (N)	mg/L				0.92	0.10	7692327			
Nitrate + Nitrite (N)	mg/L				0.94	0.10	7692327			
Dissolved Bromide (Br-)	mg/L				<10	10	7692760			
Dissolved Sulphate (SO4)	mg/L				1300	10	7692760			

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



BUREAU
VERITAS

Bureau Veritas Job #: C1W8324
Report Date: 2021/11/18

Terrapure Environmental
Client Project #: GW
Sampler Initials: CR

RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		REE771			REE771			REE772		
Sampling Date		2021/11/05			2021/11/05			2021/11/05		
COC Number		847927-04-01			847927-04-01			847927-04-01		
	UNITS	56-I	RDL	QC Batch	56-I Lab-Dup	RDL	QC Batch	51-V	RDL	QC Batch

Calculated Parameters										
Hardness (CaCO3)	mg/L	1200	1.0	7686441				670	1.0	7686441
Inorganics										
Total Ammonia-N	mg/L	1.1	0.050	7695663				<0.050	0.050	7695663
Conductivity	umho/cm	3000	1.0	7693285				2000	1.0	7693285
Total Dissolved Solids	mg/L	2110	10	7695206				1150	10	7692077
Fluoride (F-)	mg/L	0.35	0.10	7693271				1.1	0.10	7693271
Total Kjeldahl Nitrogen (TKN)	mg/L	1.6	0.10	7693202				0.38	0.10	7693202
Total Organic Carbon (TOC)	mg/L	2.8	0.40	7693171				32	0.40	7693171
Orthophosphate (P)	mg/L	<0.010	0.010	7692785	<0.010	0.010	7692785	<0.010	0.010	7692785
pH	pH	7.63		7693291				7.70		7693291
Phenols-4AAP	mg/L	<0.0010	0.0010	7691540				<0.0010	0.0010	7691620
Alkalinity (Total as CaCO3)	mg/L	240	1.0	7693281				260	1.0	7693281
Nitrite (N)	mg/L	<0.010	0.010	7692327				<0.010	0.010	7692339
Dissolved Chloride (Cl-)	mg/L	480	5.0	7692760				230	5.0	7692760
Nitrate (N)	mg/L	<0.10	0.10	7692327				<0.10	0.10	7692339
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	7692327				<0.10	0.10	7692339
Dissolved Bromide (Br-)	mg/L	<5.0	5.0	7692760				<5.0	5.0	7692760
Dissolved Sulphate (SO4)	mg/L	660	5.0	7692760				400	5.0	7692760

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



BUREAU
VERITAS

Bureau Veritas Job #: C1W8324
Report Date: 2021/11/18

Terrapure Environmental
Client Project #: GW
Sampler Initials: CR

RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		REE772			REE773			REE774		
Sampling Date		2021/11/05			2021/11/05			2021/11/05		
COC Number		847927-04-01			847927-04-01			847927-04-01		
	UNITS	51-V Lab-Dup	RDL	QC Batch	29-I	RDL	QC Batch	29-II	RDL	QC Batch

Calculated Parameters										
Hardness (CaCO3)	mg/L				1900	1.0	7686441	760	1.0	7686441
Inorganics										
Total Ammonia-N	mg/L				12	0.050	7695663	0.13	0.050	7695663
Conductivity	umho/cm				5000	1.0	7693285	2000	1.0	7693285
Total Dissolved Solids	mg/L				3690	10	7692077	1360	10	7692077
Fluoride (F-)	mg/L				1.2	0.10	7693271	0.86	0.10	7693271
Total Kjeldahl Nitrogen (TKN)	mg/L				14	1.0	7693202	0.49	0.10	7693202
Total Organic Carbon (TOC)	mg/L				4.7	0.40	7693171	4.9	0.40	7693171
Orthophosphate (P)	mg/L				0.052	0.010	7692785	<0.010	0.010	7692785
pH	pH				7.64		7693291	7.87		7693291
Phenols-4AAP	mg/L				<0.0010	0.0010	7691620	<0.0010	0.0010	7691540
Alkalinity (Total as CaCO3)	mg/L				190	1.0	7693281	200	1.0	7693281
Nitrite (N)	mg/L	<0.010	0.010	7692339	<0.010	0.010	7692327	<0.010	0.010	7692327
Dissolved Chloride (Cl-)	mg/L				720	10	7692760	210	5.0	7692760
Nitrate (N)	mg/L	<0.10	0.10	7692339	<0.10	0.10	7692327	<0.10	0.10	7692327
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	7692339	<0.10	0.10	7692327	<0.10	0.10	7692327
Dissolved Bromide (Br-)	mg/L				<10	10	7692760	<5.0	5.0	7692760
Dissolved Sulphate (SO4)	mg/L				1500	10	7692760	550	5.0	7692760

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



BUREAU
VERITAS

Bureau Veritas Job #: C1W8324
Report Date: 2021/11/18

Terrapure Environmental
Client Project #: GW
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RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		REE775			REF080		
Sampling Date		2021/11/05			2021/11/05		
COC Number		847927-04-01			847927-12-01		
	UNITS	29-IV	RDL	QC Batch	32-II	RDL	QC Batch
Calculated Parameters							
Hardness (CaCO ₃)	mg/L	1700	1.0	7686441	2000	1.0	7686441
Inorganics							
Total Ammonia-N	mg/L	12	0.050	7695663	19	0.050	7695663
Total BOD	mg/L				19	2	7690437
Conductivity	umho/cm	4800	1.0	7693285	6900	1.0	7693285
Total Dissolved Solids	mg/L	3550	10	7692077	4090	20	7692077
Fluoride (F ⁻)	mg/L	1.3	0.10	7693271	0.37	0.10	7693271
Total Kjeldahl Nitrogen (TKN)	mg/L	14	1.0	7693202	22	2.5	7693202
Total Organic Carbon (TOC)	mg/L	4.4	0.40	7693171	39	0.40	7693171
Orthophosphate (P)	mg/L	<0.010	0.010	7692785	<0.010	0.010	7692785
pH	pH	7.60		7693291	2.81		7693291
Phenols-4AAP	mg/L	<0.0010	0.0010	7691540	0.0060	0.0010	7691620
Alkalinity (Total as CaCO ₃)	mg/L	190	1.0	7693281	<1.0	1.0	7693281
Nitrite (N)	mg/L	<0.010	0.010	7692327	3.28	0.010	7692327
Dissolved Chloride (Cl ⁻)	mg/L	680	10	7692760	1800	20	7692760
Nitrate (N)	mg/L	<0.10	0.10	7692327	14.3	0.10	7692327
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	7692327	17.6	0.10	7692327
Dissolved Bromide (Br ⁻)	mg/L	<10	10	7692760	<20	20	7692760
Dissolved Sulphate (SO ₄)	mg/L	1400	10	7692760	570	20	7692760
RDL = Reportable Detection Limit							
QC Batch = Quality Control Batch							



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VERITAS

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ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Bureau Veritas ID		REE724		REE725	REE726	REE727	REE728		
Sampling Date		2021/11/05		2021/11/05	2021/11/05	2021/11/05	2021/11/05		
COC Number		847927-16-01		847927-16-01	847927-16-01	847927-16-01	847927-16-01		
	UNITS	9-I	QC Batch	P10-V	P4-IV	CW3	CW16	RDL	QC Batch
Metals									
Dissolved Aluminum (Al)	ug/L	6.7	7691541	<4.9	8.1	<4.9	<4.9	4.9	7690244
Dissolved Antimony (Sb)	ug/L	<0.50	7691541	<0.50	<0.50	<0.50	<0.50	0.50	7690244
Dissolved Arsenic (As)	ug/L	<1.0	7691541	<1.0	<1.0	1.2	<1.0	1.0	7690244
Dissolved Barium (Ba)	ug/L	64	7691541	43	11	21	27	2.0	7690244
Dissolved Beryllium (Be)	ug/L	<0.40	7691541	<0.40	<0.40	<0.40	<0.40	0.40	7690244
Dissolved Bismuth (Bi)	ug/L	<1.0	7691541	<1.0	<1.0	<1.0	<1.0	1.0	7690244
Dissolved Boron (B)	ug/L	160	7691541	170	39	170	330	10	7690244
Dissolved Cadmium (Cd)	ug/L	2.7	7691541	0.90	0.17	<0.090	<0.090	0.090	7690244
Dissolved Calcium (Ca)	ug/L	340000	7691541	100000	72000	17000	190000	200	7690244
Dissolved Chromium (Cr)	ug/L	<5.0	7691541	<5.0	<5.0	<5.0	<5.0	5.0	7690244
Dissolved Cobalt (Co)	ug/L	<0.50	7691541	<0.50	<0.50	<0.50	0.65	0.50	7690244
Dissolved Copper (Cu)	ug/L	4.3	7691541	5.9	2.5	<0.90	1.0	0.90	7690244
Dissolved Iron (Fe)	ug/L	<100	7691541	<100	<100	<100	480	100	7690244
Dissolved Lead (Pb)	ug/L	0.54	7691541	2.0	<0.50	<0.50	<0.50	0.50	7690244
Dissolved Lithium (Li)	ug/L	8.4	7691541	<5.0	<5.0	14	20	5.0	7690244
Dissolved Magnesium (Mg)	ug/L	68000	7691541	38000	20000	2300	120000	50	7690244
Dissolved Manganese (Mn)	ug/L	20	7691541	11	<2.0	<2.0	120	2.0	7690244
Dissolved Molybdenum (Mo)	ug/L	2.5	7691541	1.6	1.1	11	6.9	0.50	7690244
Dissolved Nickel (Ni)	ug/L	13	7691541	3.6	<1.0	2.7	5.2	1.0	7690244
Dissolved Phosphorus (P)	ug/L	<100	7691541	170	<100	<100	<100	100	7690244
Dissolved Potassium (K)	ug/L	7100	7691541	12000	3500	39000	17000	200	7690244
Dissolved Selenium (Se)	ug/L	<2.0	7691541	<2.0	<2.0	2.8	<2.0	2.0	7690244
Dissolved Silicon (Si)	ug/L	5800	7691541	10000	6600	11000	7000	50	7690244
Dissolved Silver (Ag)	ug/L	<0.090	7691541	<0.090	<0.090	<0.090	<0.090	0.090	7690244
Dissolved Sodium (Na)	ug/L	78000	7691541	20000	5100	160000	62000	100	7690244
Dissolved Strontium (Sr)	ug/L	3100	7691541	710	200	710	2400	1.0	7690244
Dissolved Tellurium (Te)	ug/L	<1.0	7691541	<1.0	<1.0	<1.0	<1.0	1.0	7690244
Dissolved Thallium (Tl)	ug/L	0.47	7691541	0.17	<0.050	<0.050	0.11	0.050	7690244
Dissolved Tin (Sn)	ug/L	<1.0	7691541	<1.0	<1.0	<1.0	<1.0	1.0	7690244
Dissolved Titanium (Ti)	ug/L	<5.0	7691541	<5.0	<5.0	<5.0	<5.0	5.0	7690244
Dissolved Tungsten (W)	ug/L	<1.0	7691541	<1.0	<1.0	3.4	<1.0	1.0	7690244
Dissolved Uranium (U)	ug/L	5.1	7691541	3.4	1.6	<0.10	3.0	0.10	7690244
Dissolved Vanadium (V)	ug/L	<0.50	7691541	0.57	<0.50	0.70	<0.50	0.50	7690244
Dissolved Zinc (Zn)	ug/L	2000	7691541	340	49	<5.0	44	5.0	7690244
Dissolved Zirconium (Zr)	ug/L	<1.0	7691541	<1.0	<1.0	<1.0	<1.0	1.0	7690244
RDL = Reportable Detection Limit									
QC Batch = Quality Control Batch									



BUREAU
VERITAS

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ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Bureau Veritas ID		REE729		REE730		REE731	REE732		
Sampling Date		2021/11/05		2021/11/05		2021/11/05	2021/11/05		
COC Number		847927-16-01		847927-16-01		847927-16-01	847927-16-01		
	UNITS	CW5R	RDL	L1	RDL	M4	M5R	RDL	QC Batch
Metals									
Dissolved Aluminum (Al)	ug/L	11	4.9	<4.9	4.9	<4.9	25	4.9	7690244
Dissolved Antimony (Sb)	ug/L	<0.50	0.50	<0.50	0.50	<0.50	<0.50	0.50	7690244
Dissolved Arsenic (As)	ug/L	1.6	1.0	<1.0	1.0	<1.0	<1.0	1.0	7690244
Dissolved Barium (Ba)	ug/L	7.6	2.0	15	2.0	21	24	2.0	7690244
Dissolved Beryllium (Be)	ug/L	<0.40	0.40	<0.40	0.40	<0.40	<0.40	0.40	7690244
Dissolved Bismuth (Bi)	ug/L	<1.0	1.0	<1.0	1.0	<1.0	<1.0	1.0	7690244
Dissolved Boron (B)	ug/L	520	10	610	10	720	310	10	7690244
Dissolved Cadmium (Cd)	ug/L	<0.090	0.090	<0.090	0.090	<0.090	<0.090	0.090	7690244
Dissolved Calcium (Ca)	ug/L	36000	200	660000	1000	380000	100000	200	7690244
Dissolved Chromium (Cr)	ug/L	<5.0	5.0	<5.0	5.0	<5.0	<5.0	5.0	7690244
Dissolved Cobalt (Co)	ug/L	<0.50	0.50	<0.50	0.50	<0.50	<0.50	0.50	7690244
Dissolved Copper (Cu)	ug/L	<0.90	0.90	<0.90	0.90	1.1	<0.90	0.90	7690244
Dissolved Iron (Fe)	ug/L	<100	100	<100	100	<100	230	100	7690244
Dissolved Lead (Pb)	ug/L	<0.50	0.50	<0.50	0.50	<0.50	<0.50	0.50	7690244
Dissolved Lithium (Li)	ug/L	25	5.0	130	5.0	67	30	5.0	7690244
Dissolved Magnesium (Mg)	ug/L	17000	50	72000	50	80000	33000	50	7690244
Dissolved Manganese (Mn)	ug/L	<2.0	2.0	65	2.0	140	48	2.0	7690244
Dissolved Molybdenum (Mo)	ug/L	21	0.50	<0.50	0.50	3.7	7.4	0.50	7690244
Dissolved Nickel (Ni)	ug/L	9.8	1.0	<1.0	1.0	6.3	3.7	1.0	7690244
Dissolved Phosphorus (P)	ug/L	110	100	<100	100	<100	<100	100	7690244
Dissolved Potassium (K)	ug/L	73000	200	33000	200	31000	38000	200	7690244
Dissolved Selenium (Se)	ug/L	3.9	2.0	2.0	2.0	<2.0	<2.0	2.0	7690244
Dissolved Silicon (Si)	ug/L	5900	50	4600	50	5400	7300	50	7690244
Dissolved Silver (Ag)	ug/L	<0.090	0.090	<0.090	0.090	<0.090	<0.090	0.090	7690244
Dissolved Sodium (Na)	ug/L	1100000	500	530000	100	360000	470000	100	7690244
Dissolved Strontium (Sr)	ug/L	1100	1.0	8500	1.0	4400	1800	1.0	7690244
Dissolved Tellurium (Te)	ug/L	<1.0	1.0	<1.0	1.0	<1.0	<1.0	1.0	7690244
Dissolved Thallium (Tl)	ug/L	<0.050	0.050	<0.050	0.050	0.29	<0.050	0.050	7690244
Dissolved Tin (Sn)	ug/L	<1.0	1.0	<1.0	1.0	<1.0	<1.0	1.0	7690244
Dissolved Titanium (Ti)	ug/L	<5.0	5.0	<5.0	5.0	<5.0	<5.0	5.0	7690244
Dissolved Tungsten (W)	ug/L	12	1.0	<1.0	1.0	<1.0	2.3	1.0	7690244
Dissolved Uranium (U)	ug/L	<0.10	0.10	0.22	0.10	2.0	0.34	0.10	7690244
Dissolved Vanadium (V)	ug/L	0.51	0.50	<0.50	0.50	<0.50	<0.50	0.50	7690244
Dissolved Zinc (Zn)	ug/L	<5.0	5.0	<5.0	5.0	77	<5.0	5.0	7690244
Dissolved Zirconium (Zr)	ug/L	<1.0	1.0	<1.0	1.0	<1.0	<1.0	1.0	7690244
RDL = Reportable Detection Limit									
QC Batch = Quality Control Batch									



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VERITAS

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ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Bureau Veritas ID		REE733		REE767	REE768	REE768		REE769		
Sampling Date		2021/11/05		2021/11/05	2021/11/05	2021/11/05		2021/11/05		
COC Number		847927-16-01		847927-04-01	847927-04-01	847927-04-01		847927-04-01		
	UNITS	P8-I	RDL	GII	G13	G13 Lab-Dup	RDL	3-I	RDL	QC Batch
Metals										
Dissolved Aluminum (Al)	ug/L	260	4.9	9.0	<4.9	5.4	4.9	<4.9	4.9	7690244
Dissolved Antimony (Sb)	ug/L	<0.50	0.50	<0.50	<0.50	<0.50	0.50	<0.50	0.50	7690244
Dissolved Arsenic (As)	ug/L	1.5	1.0	<1.0	<1.0	<1.0	1.0	<1.0	1.0	7690244
Dissolved Barium (Ba)	ug/L	49	2.0	19	19	19	2.0	23	2.0	7690244
Dissolved Beryllium (Be)	ug/L	<0.40	0.40	<0.40	<0.40	<0.40	0.40	<0.40	0.40	7690244
Dissolved Bismuth (Bi)	ug/L	<1.0	1.0	<1.0	<1.0	<1.0	1.0	<1.0	1.0	7690244
Dissolved Boron (B)	ug/L	2300	10	220	390	380	10	820	10	7690244
Dissolved Cadmium (Cd)	ug/L	0.71	0.090	0.33	0.39	0.42	0.090	<0.090	0.090	7690244
Dissolved Calcium (Ca)	ug/L	640000	2000	130000	150000	150000	200	590000	1000	7690244
Dissolved Chromium (Cr)	ug/L	<5.0	5.0	<5.0	<5.0	<5.0	5.0	<5.0	5.0	7690244
Dissolved Cobalt (Co)	ug/L	0.82	0.50	<0.50	<0.50	<0.50	0.50	<0.50	0.50	7690244
Dissolved Copper (Cu)	ug/L	3.0	0.90	3.9	5.7	5.9	0.90	<0.90	0.90	7690244
Dissolved Iron (Fe)	ug/L	5200	100	<100	<100	<100	100	200	100	7690244
Dissolved Lead (Pb)	ug/L	0.71	0.50	<0.50	<0.50	0.50	0.50	<0.50	0.50	7690244
Dissolved Lithium (Li)	ug/L	250	5.0	8.0	8.1	7.6	5.0	70	5.0	7690244
Dissolved Magnesium (Mg)	ug/L	95000	50	32000	40000	39000	50	72000	50	7690244
Dissolved Manganese (Mn)	ug/L	920	2.0	5.7	5.8	5.4	2.0	220	2.0	7690244
Dissolved Molybdenum (Mo)	ug/L	1.3	0.50	14	5.3	5.3	0.50	0.57	0.50	7690244
Dissolved Nickel (Ni)	ug/L	7.0	1.0	28	14	14	1.0	1.1	1.0	7690244
Dissolved Phosphorus (P)	ug/L	<100	100	<100	<100	<100	100	<100	100	7690244
Dissolved Potassium (K)	ug/L	140000	200	1700	1800	1800	200	34000	200	7690244
Dissolved Selenium (Se)	ug/L	<2.0	2.0	<2.0	<2.0	<2.0	2.0	<2.0	2.0	7690244
Dissolved Silicon (Si)	ug/L	21000	50	4000	5200	5200	50	5700	50	7690244
Dissolved Silver (Ag)	ug/L	<0.090	0.090	<0.090	<0.090	<0.090	0.090	<0.090	0.090	7690244
Dissolved Sodium (Na)	ug/L	2900000	1000	280000	100000	100000	100	400000	100	7690244
Dissolved Strontium (Sr)	ug/L	5800	1.0	900	1100	1100	1.0	5300	1.0	7690244
Dissolved Tellurium (Te)	ug/L	<1.0	1.0	<1.0	<1.0	<1.0	1.0	<1.0	1.0	7690244
Dissolved Thallium (Tl)	ug/L	<0.050	0.050	0.33	0.14	0.16	0.050	<0.050	0.050	7690244
Dissolved Tin (Sn)	ug/L	<1.0	1.0	<1.0	<1.0	<1.0	1.0	<1.0	1.0	7690244
Dissolved Titanium (Ti)	ug/L	13	5.0	<5.0	<5.0	<5.0	5.0	<5.0	5.0	7690244
Dissolved Tungsten (W)	ug/L	2.3	1.0	<1.0	<1.0	<1.0	1.0	<1.0	1.0	7690244
Dissolved Uranium (U)	ug/L	0.11	0.10	18	7.0	7.0	0.10	0.34	0.10	7690244
Dissolved Vanadium (V)	ug/L	3.4	0.50	<0.50	<0.50	<0.50	0.50	<0.50	0.50	7690244
Dissolved Zinc (Zn)	ug/L	7.3	5.0	1200	700	700	5.0	<5.0	5.0	7690244
Dissolved Zirconium (Zr)	ug/L	1.5	1.0	<1.0	<1.0	<1.0	1.0	<1.0	1.0	7690244
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate										



BUREAU
VERITAS

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ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Bureau Veritas ID		REE770		REE771		REE772		REE773		
Sampling Date		2021/11/05		2021/11/05		2021/11/05		2021/11/05		
COC Number		847927-04-01		847927-04-01		847927-04-01		847927-04-01		
	UNITS	40-I	RDL	56-I	RDL	51-V	RDL	29-I	RDL	QC Batch
Metals										
Dissolved Aluminum (Al)	ug/L	<4.9	4.9	<4.9	4.9	64	4.9	<4.9	4.9	7690244
Dissolved Antimony (Sb)	ug/L	<0.50	0.50	<0.50	0.50	<0.50	0.50	<0.50	0.50	7690244
Dissolved Arsenic (As)	ug/L	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	7690244
Dissolved Barium (Ba)	ug/L	16	2.0	38	2.0	44	2.0	21	2.0	7690244
Dissolved Beryllium (Be)	ug/L	<0.40	0.40	<0.40	0.40	<0.40	0.40	<0.40	0.40	7690244
Dissolved Bismuth (Bi)	ug/L	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	7690244
Dissolved Boron (B)	ug/L	1100	10	340	10	150	10	1000	10	7690244
Dissolved Cadmium (Cd)	ug/L	<0.090	0.090	<0.090	0.090	<0.090	0.090	<0.090	0.090	7690244
Dissolved Calcium (Ca)	ug/L	530000	1000	300000	400	160000	200	640000	1000	7690244
Dissolved Chromium (Cr)	ug/L	<5.0	5.0	<5.0	5.0	<5.0	5.0	<5.0	5.0	7690244
Dissolved Cobalt (Co)	ug/L	<0.50	0.50	<0.50	0.50	1.0	0.50	<0.50	0.50	7690244
Dissolved Copper (Cu)	ug/L	<0.90	0.90	<0.90	0.90	<0.90	0.90	<0.90	0.90	7690244
Dissolved Iron (Fe)	ug/L	860	100	770	100	140	100	<100	100	7690244
Dissolved Lead (Pb)	ug/L	<0.50	0.50	<0.50	0.50	1.2	0.50	<0.50	0.50	7690244
Dissolved Lithium (Li)	ug/L	120	5.0	68	5.0	22	5.0	89	5.0	7690244
Dissolved Magnesium (Mg)	ug/L	87000	50	110000	50	65000	50	79000	50	7690244
Dissolved Manganese (Mn)	ug/L	140	2.0	71	2.0	150	2.0	120	2.0	7690244
Dissolved Molybdenum (Mo)	ug/L	2.0	0.50	<0.50	0.50	5.2	0.50	<0.50	0.50	7690244
Dissolved Nickel (Ni)	ug/L	1.5	1.0	<1.0	1.0	4.3	1.0	1.1	1.0	7690244
Dissolved Phosphorus (P)	ug/L	<100	100	<100	100	<100	100	<100	100	7690244
Dissolved Potassium (K)	ug/L	29000	200	16000	200	3900	200	36000	200	7690244
Dissolved Selenium (Se)	ug/L	<2.0	2.0	<2.0	2.0	<2.0	2.0	<2.0	2.0	7690244
Dissolved Silicon (Si)	ug/L	4700	50	3900	50	4900	50	4700	50	7690244
Dissolved Silver (Ag)	ug/L	<0.090	0.090	<0.090	0.090	<0.090	0.090	<0.090	0.090	7690244
Dissolved Sodium (Na)	ug/L	320000	100	210000	100	160000	100	390000	100	7690244
Dissolved Strontium (Sr)	ug/L	5100	1.0	5800	1.0	1800	1.0	5300	1.0	7690244
Dissolved Tellurium (Te)	ug/L	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	7690244
Dissolved Thallium (Tl)	ug/L	<0.050	0.050	<0.050	0.050	<0.050	0.050	<0.050	0.050	7690244
Dissolved Tin (Sn)	ug/L	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	7690244
Dissolved Titanium (Ti)	ug/L	<5.0	5.0	<5.0	5.0	<5.0	5.0	<5.0	5.0	7690244
Dissolved Tungsten (W)	ug/L	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	7690244
Dissolved Uranium (U)	ug/L	0.43	0.10	0.27	0.10	6.3	0.10	<0.10	0.10	7690244
Dissolved Vanadium (V)	ug/L	<0.50	0.50	<0.50	0.50	<0.50	0.50	<0.50	0.50	7690244
Dissolved Zinc (Zn)	ug/L	<5.0	5.0	<5.0	5.0	100	5.0	<5.0	5.0	7690244
Dissolved Zirconium (Zr)	ug/L	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	7690244
RDL = Reportable Detection Limit										
QC Batch = Quality Control Batch										



BUREAU
VERITAS

Bureau Veritas Job #: C1W8324
Report Date: 2021/11/18

Terrapure Environmental
Client Project #: GW
Sampler Initials: CR

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Bureau Veritas ID		REE774		REE775		REF080		
Sampling Date		2021/11/05		2021/11/05		2021/11/05		
COC Number		847927-04-01		847927-04-01		847927-12-01		
	UNITS	29-II	RDL	29-IV	RDL	32-II	RDL	QC Batch
Metals								
Dissolved Aluminum (Al)	ug/L	19	4.9	<4.9	4.9	2600	4.9	7690244
Dissolved Antimony (Sb)	ug/L	0.95	0.50	<0.50	0.50	<0.50	0.50	7690244
Dissolved Arsenic (As)	ug/L	<1.0	1.0	<1.0	1.0	2.6	1.0	7690244
Dissolved Barium (Ba)	ug/L	42	2.0	23	2.0	15	2.0	7690244
Dissolved Beryllium (Be)	ug/L	<0.40	0.40	<0.40	0.40	<0.40	0.40	7690244
Dissolved Bismuth (Bi)	ug/L	<1.0	1.0	<1.0	1.0	<1.0	1.0	7690244
Dissolved Boron (B)	ug/L	430	10	820	10	25	10	7690244
Dissolved Cadmium (Cd)	ug/L	<0.090	0.090	<0.090	0.090	3.3	0.090	7690244
Dissolved Calcium (Ca)	ug/L	200000	200	570000	1000	710000	1000	7690244
Dissolved Chromium (Cr)	ug/L	<5.0	5.0	<5.0	5.0	5.9	5.0	7690244
Dissolved Cobalt (Co)	ug/L	0.57	0.50	<0.50	0.50	3.5	0.50	7690244
Dissolved Copper (Cu)	ug/L	2.1	0.90	<0.90	0.90	36	0.90	7690244
Dissolved Iron (Fe)	ug/L	530	100	200	100	96000	100	7690244
Dissolved Lead (Pb)	ug/L	1.8	0.50	<0.50	0.50	10	0.50	7690244
Dissolved Lithium (Li)	ug/L	29	5.0	71	5.0	11	5.0	7690244
Dissolved Magnesium (Mg)	ug/L	64000	50	74000	50	46000	50	7690244
Dissolved Manganese (Mn)	ug/L	390	2.0	230	2.0	36000	10	7690244
Dissolved Molybdenum (Mo)	ug/L	13	0.50	0.55	0.50	<0.50	0.50	7690244
Dissolved Nickel (Ni)	ug/L	4.6	1.0	1.0	1.0	11	1.0	7690244
Dissolved Phosphorus (P)	ug/L	<100	100	<100	100	200	100	7690244
Dissolved Potassium (K)	ug/L	16000	200	34000	200	100000	200	7690244
Dissolved Selenium (Se)	ug/L	<2.0	2.0	<2.0	2.0	<2.0	2.0	7690244
Dissolved Silicon (Si)	ug/L	2900	50	6100	50	7300	50	7690244
Dissolved Silver (Ag)	ug/L	<0.090	0.090	<0.090	0.090	<0.090	0.090	7690244
Dissolved Sodium (Na)	ug/L	130000	100	400000	100	340000	100	7690244
Dissolved Strontium (Sr)	ug/L	2200	1.0	5200	1.0	850	1.0	7690244
Dissolved Tellurium (Te)	ug/L	<1.0	1.0	<1.0	1.0	<1.0	1.0	7690244
Dissolved Thallium (Tl)	ug/L	0.066	0.050	<0.050	0.050	<0.050	0.050	7690244
Dissolved Tin (Sn)	ug/L	<1.0	1.0	<1.0	1.0	<1.0	1.0	7690244
Dissolved Titanium (Ti)	ug/L	<5.0	5.0	<5.0	5.0	<5.0	5.0	7690244
Dissolved Tungsten (W)	ug/L	<1.0	1.0	<1.0	1.0	<1.0	1.0	7690244
Dissolved Uranium (U)	ug/L	2.0	0.10	0.37	0.10	0.16	0.10	7690244
Dissolved Vanadium (V)	ug/L	0.72	0.50	<0.50	0.50	<0.50	0.50	7690244
Dissolved Zinc (Zn)	ug/L	14	5.0	<5.0	5.0	87	5.0	7690244
Dissolved Zirconium (Zr)	ug/L	<1.0	1.0	<1.0	1.0	<1.0	1.0	7690244
RDL = Reportable Detection Limit								
QC Batch = Quality Control Batch								



BUREAU
VERITAS

Bureau Veritas Job #: C1W8324
Report Date: 2021/11/18

Terrapure Environmental
Client Project #: GW
Sampler Initials: CR

SEMI-VOLATILE ORGANICS BY GC-MS (WATER)

Bureau Veritas ID		REE725	REE766	REE772	REE772		
Sampling Date		2021/11/05	2021/11/05	2021/11/05	2021/11/05		
COC Number		847927-16-01	847927-04-01	847927-04-01	847927-04-01		
	UNITS	P10-V	47-IV	51-V	51-V Lab-Dup	RDL	QC Batch
Semivolatile Organics							
Acenaphthene	ug/L	<2.0	<2.0	<2.0	<2.0	2.0	7700389
Acenaphthylene	ug/L	<2.0	<2.0	<2.0	<2.0	2.0	7700389
Anthracene	ug/L	<2.0	<2.0	<2.0	<2.0	2.0	7700389
Benzo(a)anthracene	ug/L	<2.0	<2.0	<2.0	<2.0	2.0	7700389
Benzo(a)pyrene	ug/L	<2.0	<2.0	<2.0	<2.0	2.0	7700389
Benzo(b/j)fluoranthene	ug/L	<2.0	<2.0	<2.0	<2.0	2.0	7700389
Benzo(g,h,i)perylene	ug/L	<2.0	<2.0	<2.0	<2.0	2.0	7700389
Benzo(k)fluoranthene	ug/L	<2.0	<2.0	<2.0	<2.0	2.0	7700389
1-Chloronaphthalene	ug/L	<10	<10	<10	<10	10	7700389
2-Chloronaphthalene	ug/L	<5.0	<5.0	<5.0	<5.0	5.0	7700389
Chrysene	ug/L	<2.0	<2.0	<2.0	<2.0	2.0	7700389
Dibenzo(a,h)anthracene	ug/L	<2.0	<2.0	<2.0	<2.0	2.0	7700389
Fluoranthene	ug/L	<2.0	<2.0	<2.0	<2.0	2.0	7700389
Fluorene	ug/L	<2.0	<2.0	<2.0	<2.0	2.0	7700389
Indeno(1,2,3-cd)pyrene	ug/L	<2.0	<2.0	<2.0	<2.0	2.0	7700389
1-Methylnaphthalene	ug/L	<2.0	<2.0	<2.0	<2.0	2.0	7700389
2-Methylnaphthalene	ug/L	<2.0	<2.0	<2.0	<2.0	2.0	7700389
Naphthalene	ug/L	<2.0	<2.0	<2.0	<2.0	2.0	7700389
5-Nitroacenaphthene	ug/L	<10	<10	<10	<10	10	7700389
Perylene	ug/L	<2.0	<2.0	<2.0	<2.0	2.0	7700389
Phenanthrene	ug/L	<2.0	<2.0	<2.0	<2.0	2.0	7700389
Pyrene	ug/L	<2.0	<2.0	<2.0	<2.0	2.0	7700389
1,2-Dichlorobenzene	ug/L	<5.0	<5.0	<5.0	<5.0	5.0	7700389
1,3-Dichlorobenzene	ug/L	<5.0	<5.0	<5.0	<5.0	5.0	7700389
1,4-Dichlorobenzene	ug/L	<5.0	<5.0	<5.0	<5.0	5.0	7700389
Hexachlorobenzene	ug/L	<5.0	<5.0	<5.0	<5.0	5.0	7700389
Pentachlorobenzene	ug/L	<5.0	<5.0	<5.0	<5.0	5.0	7700389
1,2,3,5-Tetrachlorobenzene	ug/L	<5.0	<5.0	<5.0	<5.0	5.0	7700389
1,2,4,5-Tetrachlorobenzene	ug/L	<5.0	<5.0	<5.0	<5.0	5.0	7700389
1,2,3-Trichlorobenzene	ug/L	<5.0	<5.0	<5.0	<5.0	5.0	7700389
1,2,4-Trichlorobenzene	ug/L	<5.0	<5.0	<5.0	<5.0	5.0	7700389
1,3,5-Trichlorobenzene	ug/L	<5.0	<5.0	<5.0	<5.0	5.0	7700389
2-Chlorophenol	ug/L	<3.0	<3.0	<3.0	<3.0	3.0	7700389
4-Chloro-3-Methylphenol	ug/L	<5.0	<5.0	<5.0	<5.0	5.0	7700389
m/p-Cresol	ug/L	<5.0	<5.0	<5.0	<5.0	5.0	7700389
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate							



BUREAU
VERITAS

Bureau Veritas Job #: C1W8324
Report Date: 2021/11/18

Terrapure Environmental
Client Project #: GW
Sampler Initials: CR

SEMI-VOLATILE ORGANICS BY GC-MS (WATER)

Bureau Veritas ID		REE725	REE766	REE772	REE772		
Sampling Date		2021/11/05	2021/11/05	2021/11/05	2021/11/05		
COC Number		847927-16-01	847927-04-01	847927-04-01	847927-04-01		
	UNITS	P10-V	47-IV	51-V	51-V Lab-Dup	RDL	QC Batch
o-Cresol	ug/L	<5.0	<5.0	<5.0	<5.0	5.0	7700389
1,2,3,4-Tetrachlorobenzene	ug/L	<5.0	<5.0	<5.0	<5.0	5.0	7700389
2,3-Dichlorophenol	ug/L	<5.0	<5.0	<5.0	<5.0	5.0	7700389
2,4-Dichlorophenol	ug/L	<3.0	<3.0	<3.0	<3.0	3.0	7700389
2,5-Dichlorophenol	ug/L	<5.0	<5.0	<5.0	<5.0	5.0	7700389
2,6-Dichlorophenol	ug/L	<5.0	<5.0	<5.0	<5.0	5.0	7700389
3,4-Dichlorophenol	ug/L	<5.0	<5.0	<5.0	<5.0	5.0	7700389
3,5-Dichlorophenol	ug/L	<5.0	<5.0	<5.0	<5.0	5.0	7700389
2,4-Dimethylphenol	ug/L	<5.0	<5.0	<5.0	<5.0	5.0	7700389
2,4-Dinitrophenol	ug/L	<20	<20	<20	<20	20	7700389
4,6-Dinitro-2-methylphenol	ug/L	<20	<20	<20	<20	20	7700389
2-Nitrophenol	ug/L	<5.0	<5.0	<5.0	<5.0	5.0	7700389
4-Nitrophenol	ug/L	<14	<14	<14	<14	14	7700389
Pentachlorophenol	ug/L	<10	<10	<10	<10	10	7700389
Phenol	ug/L	<5.0	<5.0	<5.0	<5.0	5.0	7700389
2,3,4,5-Tetrachlorophenol	ug/L	<4.0	<4.0	<4.0	<4.0	4.0	7700389
2,3,4,6-Tetrachlorophenol	ug/L	<5.0	<5.0	<5.0	<5.0	5.0	7700389
2,3,5,6-Tetrachlorophenol	ug/L	<5.0	<5.0	<5.0	<5.0	5.0	7700389
2,3,4-Trichlorophenol	ug/L	<5.0	<5.0	<5.0	<5.0	5.0	7700389
2,3,5-Trichlorophenol	ug/L	<5.0	<5.0	<5.0	<5.0	5.0	7700389
2,3,6-Trichlorophenol	ug/L	<5.0	<5.0	<5.0	<5.0	5.0	7700389
2,4,5-Trichlorophenol	ug/L	<5.0	<5.0	<5.0	<5.0	5.0	7700389
2,4,6-Trichlorophenol	ug/L	<5.0	<5.0	<5.0	<5.0	5.0	7700389
3,4,5-Trichlorophenol	ug/L	<5.0	<5.0	<5.0	<5.0	5.0	7700389
Benzyl butyl phthalate	ug/L	<5.0	<5.0	<5.0	<5.0	5.0	7700389
Biphenyl	ug/L	<5.0	<5.0	<5.0	<5.0	5.0	7700389
Bis(2-chloroethyl)ether	ug/L	<5.0	<5.0	<5.0	<5.0	5.0	7700389
Bis(2-chloroethoxy)methane	ug/L	<5.0	<5.0	<5.0	<5.0	5.0	7700389
Bis(2-chloroisopropyl)ether	ug/L	<5.0	<5.0	<5.0	<5.0	5.0	7700389
Bis(2-ethylhexyl)phthalate	ug/L	<20	<20	<20	<20	20	7700389
4-Bromophenyl phenyl ether	ug/L	<3.0	<3.0	<3.0	<3.0	3.0	7700389
p-Chloroaniline	ug/L	<10	<10	<10	<10	10	7700389
4-Chlorophenyl phenyl ether	ug/L	<5.0	<5.0	<5.0	<5.0	5.0	7700389
Di-N-butyl phthalate	ug/L	<20	<20	<20	<20	20	7700389
di-n-octyl phthalate	ug/L	<8.0	<8.0	<8.0	<8.0	8.0	7700389
2,4-Dinitrotoluene	ug/L	<5.0	<5.0	<5.0	<5.0	5.0	7700389

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



SEMI-VOLATILE ORGANICS BY GC-MS (WATER)

Bureau Veritas ID		REE725	REE766	REE772	REE772		
Sampling Date		2021/11/05	2021/11/05	2021/11/05	2021/11/05		
COC Number		847927-16-01	847927-04-01	847927-04-01	847927-04-01		
	UNITS	P10-V	47-IV	51-V	51-V Lab-Dup	RDL	QC Batch
Diethyl phthalate	ug/L	<10	<10	<10	<10	10	7700389
3,3'-Dichlorobenzidine	ug/L	<5.0	<5.0	<5.0	<5.0	5.0	7700389
Dimethyl phthalate	ug/L	<10	<10	<10	<10	10	7700389
2,6-Dinitrotoluene	ug/L	<5.0	<5.0	<5.0	<5.0	5.0	7700389
Diphenyl Ether	ug/L	<3.0	<3.0	<3.0	<3.0	3.0	7700389
Hexachlorobutadiene	ug/L	<4.0	<4.0	<4.0	<4.0	4.0	7700389
Hexachlorocyclopentadiene	ug/L	<20	<20	<20	<20	20	7700389
Hexachloroethane	ug/L	<5.0	<5.0	<5.0	<5.0	5.0	7700389
Isophorone	ug/L	<5.0	<5.0	<5.0	<5.0	5.0	7700389
Nitrobenzene	ug/L	<5.0	<5.0	<5.0	<5.0	5.0	7700389
Nitrosodiphenylamine/Diphenylamine	ug/L	<10	<10	<10	<10	10	7700389
N-Nitroso-di-n-propylamine	ug/L	<5.0	<5.0	<5.0	<5.0	5.0	7700389
Surrogate Recovery (%)							
2,4,6-Tribromophenol	%	78	78	79	77		7700389
2-Fluorobiphenyl	%	46	46	48	51		7700389
2-Fluorophenol	%	32	34	36	38		7700389
D14-Terphenyl	%	88	90	90	89		7700389
D5-Nitrobenzene	%	61	64	67	71		7700389
D5-Phenol	%	22	23	25	25		7700389
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate							



BUREAU
VERITAS

Bureau Veritas Job #: C1W8324
Report Date: 2021/11/18

Terrapure Environmental
Client Project #: GW
Sampler Initials: CR

VOLATILE ORGANICS BY GC/MS (WATER)

Bureau Veritas ID		REE725	REE766		REE772	REE772		
Sampling Date		2021/11/05	2021/11/05		2021/11/05	2021/11/05		
COC Number		847927-16-01	847927-04-01		847927-04-01	847927-04-01		
	UNITS	P10-V	47-IV	RDL	51-V	51-V Lab-Dup	RDL	QC Batch
Volatile Organics								
Acetone (2-Propanone)	ug/L	<10	<10	10	4800	4800	500	7689416
Benzene	ug/L	<0.10	<0.10	0.10	<5.0	<5.0	5.0	7689416
Bromodichloromethane	ug/L	<0.10	<0.10	0.10	<5.0	<5.0	5.0	7689416
Acrolein	ug/L	<10	<10	10	<500	<500	500	7682597
Bromoform	ug/L	<0.20	<0.20	0.20	<10	<10	10	7689416
Bromomethane	ug/L	<0.50	<0.50	0.50	<25	<25	25	7689416
Carbon Tetrachloride	ug/L	<0.10	<0.10	0.10	<5.0	<5.0	5.0	7689416
Chlorobenzene	ug/L	<0.10	<0.10	0.10	<5.0	<5.0	5.0	7689416
Chloroethane	ug/L	<0.20	<0.20	0.20	<10	<10	10	7689416
Chloroform	ug/L	<0.10	<0.10	0.10	<5.0	<5.0	5.0	7689416
Acrylonitrile	ug/L	<5.0	<5.0	5.0	<250	<250	250	7682597
Chloromethane	ug/L	<0.50	<0.50	0.50	<25	<25	25	7689416
Dibromochloromethane	ug/L	<0.20	<0.20	0.20	<10	<10	10	7689416
1,2-Dichlorobenzene	ug/L	<0.20	<0.20	0.20	<10	<10	10	7689416
1,3-Dichlorobenzene	ug/L	<0.20	<0.20	0.20	<10	<10	10	7689416
1,4-Dichlorobenzene	ug/L	<0.20	<0.20	0.20	<10	<10	10	7689416
1,1-Dichloroethane	ug/L	<0.10	<0.10	0.10	<5.0	<5.0	5.0	7689416
1,2-Dichloroethane	ug/L	<0.20	<0.20	0.20	<10	<10	10	7689416
1,1-Dichloroethylene	ug/L	<0.10	<0.10	0.10	<5.0	<5.0	5.0	7689416
cis-1,2-Dichloroethylene	ug/L	<0.10	<0.10	0.10	<5.0	<5.0	5.0	7689416
trans-1,2-Dichloroethylene	ug/L	<0.10	<0.10	0.10	<5.0	<5.0	5.0	7689416
1,2-Dichloropropane	ug/L	<0.10	<0.10	0.10	<5.0	<5.0	5.0	7689416
cis-1,3-Dichloropropene	ug/L	<0.20	<0.20	0.20	<10	<10	10	7689416
trans-1,3-Dichloropropene	ug/L	<0.20	<0.20	0.20	<10	<10	10	7689416
Ethylbenzene	ug/L	<0.10	<0.10	0.10	<5.0	<5.0	5.0	7689416
Ethylene Dibromide	ug/L	<0.20	<0.20	0.20	<10	<10	10	7689416
Methylene Chloride(Dichloromethane)	ug/L	<0.50	<0.50	0.50	<25	<25	25	7689416
Methyl Ethyl Ketone (2-Butanone)	ug/L	<5.0	<5.0	5.0	6200	6200	250	7689416
Methyl Isobutyl Ketone	ug/L	<5.0	<5.0	5.0	<250	<250	250	7689416
Methyl t-butyl ether (MTBE)	ug/L	<0.20	<0.20	0.20	<10	<10	10	7689416
Styrene	ug/L	<0.20	<0.20	0.20	<10	<10	10	7689416
1,1,1,2-Tetrachloroethane	ug/L	<0.20	<0.20	0.20	<10	<10	10	7689416
1,1,2,2-Tetrachloroethane	ug/L	<0.20	<0.20	0.20	<10	<10	10	7689416
Tetrachloroethylene	ug/L	<0.10	<0.10	0.10	<5.0	<5.0	5.0	7689416
Toluene	ug/L	<0.20	<0.20	0.20	<10	<10	10	7689416
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate								



VOLATILE ORGANICS BY GC/MS (WATER)

Bureau Veritas ID		REE725	REE766		REE772	REE772		
Sampling Date		2021/11/05	2021/11/05		2021/11/05	2021/11/05		
COC Number		847927-16-01	847927-04-01		847927-04-01	847927-04-01		
	UNITS	P10-V	47-IV	RDL	51-V	51-V Lab-Dup	RDL	QC Batch
1,1,1-Trichloroethane	ug/L	<0.10	<0.10	0.10	<5.0	<5.0	5.0	7689416
1,1,2-Trichloroethane	ug/L	<0.20	<0.20	0.20	<10	<10	10	7689416
Trichloroethylene	ug/L	<0.10	<0.10	0.10	<5.0	<5.0	5.0	7689416
Trichlorofluoromethane (FREON 11)	ug/L	<0.20	<0.20	0.20	<10	<10	10	7689416
Vinyl Chloride	ug/L	<0.20	<0.20	0.20	<10	<10	10	7689416
p+m-Xylene	ug/L	<0.10	<0.10	0.10	<5.0	<5.0	5.0	7689416
Methyl Butyl Ketone (2-Hexanone)	ug/L	<5.0	<5.0	5.0	<250	<250	250	7682597
o-Xylene	ug/L	<0.10	<0.10	0.10	<5.0	<5.0	5.0	7689416
Total Xylenes	ug/L	<0.10	<0.10	0.10	<5.0	<5.0	5.0	7689416
Total Trihalomethanes	ug/L	<0.20	<0.20	0.20	<10	<10	10	7689416
Surrogate Recovery (%)								
4-Bromofluorobenzene	%	98	96		97	96		7689416
D4-1,2-Dichloroethane	%	87	89		87	85		7689416
D8-Toluene	%	101	101		102	101		7689416
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate								



BUREAU
VERITAS

Bureau Veritas Job #: C1W8324

Report Date: 2021/11/18

Terrapure Environmental

Client Project #: GW

Sampler Initials: CR

O.REG 153 OC PESTICIDES (WATER)

Bureau Veritas ID		REE725	REE766	REE772		
Sampling Date		2021/11/05	2021/11/05	2021/11/05		
COC Number		847927-16-01	847927-04-01	847927-04-01		
	UNITS	P10-V	47-IV	51-V	RDL	QC Batch
Calculated Parameters						
Chlordane (Total)	ug/L	<0.005	<0.005	<0.005	0.005	7688294
o,p-DDD + p,p-DDD	ug/L	<0.005	<0.005	<0.005	0.005	7688294
o,p-DDE + p,p-DDE	ug/L	<0.005	<0.005	<0.005	0.005	7688294
o,p-DDT + p,p-DDT	ug/L	<0.005	<0.005	<0.005	0.005	7688294
Total Endosulfan	ug/L	<0.005	<0.005	<0.005	0.005	7688294
Total PCB	ug/L	<0.05	<0.05	<0.05	0.05	7688294
Pesticides & Herbicides						
Aldrin	ug/L	<0.005	<0.005	<0.005	0.005	7691298
Dieldrin	ug/L	<0.005	<0.005	<0.005	0.005	7691298
a-Chlordane	ug/L	<0.005	<0.005	<0.005	0.005	7691298
g-Chlordane	ug/L	<0.005	<0.005	<0.005	0.005	7691298
o,p-DDD	ug/L	<0.005	<0.005	<0.005	0.005	7691298
p,p-DDD	ug/L	<0.005	<0.005	<0.005	0.005	7691298
o,p-DDE	ug/L	<0.005	<0.005	<0.005	0.005	7691298
p,p-DDE	ug/L	<0.005	<0.005	<0.005	0.005	7691298
o,p-DDT	ug/L	<0.005	<0.005	<0.005	0.005	7691298
p,p-DDT	ug/L	<0.005	<0.005	<0.005	0.005	7691298
Lindane	ug/L	<0.003	<0.003	<0.003	0.003	7691298
Endosulfan I (alpha)	ug/L	<0.005	<0.005	<0.005	0.005	7691298
Endosulfan II (beta)	ug/L	<0.005	<0.005	<0.005	0.005	7691298
Endrin	ug/L	<0.005	<0.005	<0.005	0.005	7691298
Heptachlor	ug/L	<0.005	<0.005	<0.005	0.005	7691298
Heptachlor epoxide	ug/L	<0.005	<0.005	<0.005	0.005	7691298
Hexachlorobenzene	ug/L	<0.005	<0.005	<0.005	0.005	7691298
Hexachlorobutadiene	ug/L	<0.009	<0.009	<0.009	0.009	7691298
Hexachloroethane	ug/L	<0.01	<0.01	<0.01	0.01	7691298
Methoxychlor	ug/L	<0.01	<0.01	<0.01	0.01	7691298
Aroclor 1242	ug/L	<0.05	<0.05	<0.05	0.05	7691298
Aroclor 1248	ug/L	<0.05	<0.05	<0.05	0.05	7691298
Aroclor 1254	ug/L	<0.05	<0.05	<0.05	0.05	7691298
Aroclor 1260	ug/L	<0.05	<0.05	<0.05	0.05	7691298
alpha-BHC	ug/L	<0.005	<0.005	<0.005	0.005	7691298
beta-BHC	ug/L	<0.005	<0.005	<0.005	0.005	7691298
Endrin aldehyde	ug/L	<0.005	<0.005	<0.005	0.005	7691298
Endrin ketone	ug/L	<0.005	<0.005	<0.005	0.005	7691298
Mirex	ug/L	<0.005	<0.005	<0.005	0.005	7691298
RDL = Reportable Detection Limit QC Batch = Quality Control Batch						



BUREAU
VERITAS

Bureau Veritas Job #: C1W8324
Report Date: 2021/11/18

Terrapure Environmental
Client Project #: GW
Sampler Initials: CR

O.REG 153 OC PESTICIDES (WATER)

Bureau Veritas ID		REE725	REE766	REE772		
Sampling Date		2021/11/05	2021/11/05	2021/11/05		
COC Number		847927-16-01	847927-04-01	847927-04-01		
	UNITS	P10-V	47-IV	51-V	RDL	QC Batch
Toxaphene	ug/L	<0.2	<0.2	<0.2	0.2	7691298
Surrogate Recovery (%)						
2,4,5,6-Tetrachloro-m-xylene	%	93	76	70		7691298
Decachlorobiphenyl	%	111	96	97		7691298
RDL = Reportable Detection Limit QC Batch = Quality Control Batch						



BUREAU
VERITAS

Bureau Veritas Job #: C1W8324
Report Date: 2021/11/18

Terrapure Environmental
Client Project #: GW
Sampler Initials: CR

TEST SUMMARY

Bureau Veritas ID: REE724
Sample ID: 9-I
Matrix: Water

Collected: 2021/11/05
Shipped:
Received: 2021/11/08

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7693281	N/A	2021/11/11	Surinder Rai
Anions	IC	7692760	N/A	2021/11/12	Fari Dehdezi
Conductivity	AT	7693285	N/A	2021/11/11	Surinder Rai
Fluoride	ISE	7693271	2021/11/10	2021/11/11	Surinder Rai
Hardness (calculated as CaCO3)		7686441	N/A	2021/11/11	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7691541	N/A	2021/11/10	Arefa Dabhad
Total Ammonia-N	LACH/NH4	7695663	N/A	2021/11/13	Amanpreet Sappal
Nitrate & Nitrite as Nitrogen in Water	LACH	7692327	N/A	2021/11/11	Chandra Nandlal
pH	AT	7693291	2021/11/10	2021/11/11	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7691540	N/A	2021/11/10	Deonarine Ramnarine
Orthophosphate	KONE	7692785	N/A	2021/11/12	Avneet Kour Sudan
Total Dissolved Solids	BAL	7692077	2021/11/11	2021/11/12	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7693202	2021/11/10	2021/11/16	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7693171	N/A	2021/11/12	Julianna Castiglione

Bureau Veritas ID: REE724 Dup
Sample ID: 9-I
Matrix: Water

Collected: 2021/11/05
Shipped:
Received: 2021/11/08

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Anions	IC	7692760	N/A	2021/11/12	Fari Dehdezi

Bureau Veritas ID: REE725
Sample ID: P10-V
Matrix: Water

Collected: 2021/11/05
Shipped:
Received: 2021/11/08

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
ABN Compounds in Water by GC/MS	GC/MS	7700389	2021/11/15	2021/11/16	Anh Lieu
Alkalinity	AT	7693281	N/A	2021/11/11	Surinder Rai
Anions	IC	7692760	N/A	2021/11/12	Fari Dehdezi
Conductivity	AT	7693285	N/A	2021/11/11	Surinder Rai
Fluoride	ISE	7693271	2021/11/10	2021/11/11	Surinder Rai
Hardness (calculated as CaCO3)		7686441	N/A	2021/11/17	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7690244	N/A	2021/11/15	Daniel Teclu
Total Ammonia-N	LACH/NH4	7695663	N/A	2021/11/13	Amanpreet Sappal
Nitrate & Nitrite as Nitrogen in Water	LACH	7692327	N/A	2021/11/11	Chandra Nandlal
OC Pesticides (Selected) & PCB	GC/ECD	7691298	2021/11/09	2021/11/16	Mahmudul Khan
OC Pesticides Summed Parameters	CALC	7688294	N/A	2021/11/10	Automated Statchk
pH	AT	7693291	2021/11/10	2021/11/11	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7691540	N/A	2021/11/10	Deonarine Ramnarine
Orthophosphate	KONE	7692785	N/A	2021/11/12	Avneet Kour Sudan
Total Dissolved Solids	BAL	7692077	2021/11/11	2021/11/12	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7693202	2021/11/10	2021/11/16	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7693171	N/A	2021/11/12	Julianna Castiglione
Volatile Organic Compounds in Water	P&T/MS	7689416	N/A	2021/11/10	Rebecca McClean



BUREAU
VERITAS

Bureau Veritas Job #: C1W8324
Report Date: 2021/11/18

Terrapure Environmental
Client Project #: GW
Sampler Initials: CR

TEST SUMMARY

Bureau Veritas ID: REE725
Sample ID: P10-V
Matrix: Water

Collected: 2021/11/05
Shipped:
Received: 2021/11/08

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Non-Routine Volatile Organic Compounds	P&T/MS	7682597	N/A	2021/11/11	Rebecca McClean

Bureau Veritas ID: REE726
Sample ID: P4-IV
Matrix: Water

Collected: 2021/11/05
Shipped:
Received: 2021/11/08

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7693281	N/A	2021/11/11	Surinder Rai
Anions	IC	7691631	N/A	2021/11/12	Fari Dehdezi
Conductivity	AT	7693285	N/A	2021/11/11	Surinder Rai
Fluoride	ISE	7693271	2021/11/10	2021/11/11	Surinder Rai
Hardness (calculated as CaCO3)		7686441	N/A	2021/11/17	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7690244	N/A	2021/11/15	Daniel Teclu
Total Ammonia-N	LACH/NH4	7695663	N/A	2021/11/13	Amanpreet Sappal
Nitrate & Nitrite as Nitrogen in Water	LACH	7692327	N/A	2021/11/11	Chandra Nandlal
pH	AT	7693291	2021/11/10	2021/11/11	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7691540	N/A	2021/11/10	Deonarine Ramnarine
Orthophosphate	KONE	7691627	N/A	2021/11/11	Avneet Kour Sudan
Total Dissolved Solids	BAL	7692077	2021/11/11	2021/11/12	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7693202	2021/11/10	2021/11/15	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7693171	N/A	2021/11/12	Julianna Castiglione

Bureau Veritas ID: REE726 Dup
Sample ID: P4-IV
Matrix: Water

Collected: 2021/11/05
Shipped:
Received: 2021/11/08

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Orthophosphate	KONE	7691627	N/A	2021/11/11	Avneet Kour Sudan
Total Kjeldahl Nitrogen in Water	SKAL	7693202	2021/11/10	2021/11/15	Rajni Tyagi

Bureau Veritas ID: REE727
Sample ID: CW3
Matrix: Water

Collected: 2021/11/05
Shipped:
Received: 2021/11/08

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7693281	N/A	2021/11/11	Surinder Rai
Anions	IC	7692760	N/A	2021/11/12	Fari Dehdezi
Conductivity	AT	7693285	N/A	2021/11/11	Surinder Rai
Fluoride	ISE	7693271	2021/11/10	2021/11/11	Surinder Rai
Hardness (calculated as CaCO3)		7686441	N/A	2021/11/18	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7690244	N/A	2021/11/17	Daniel Teclu
Total Ammonia-N	LACH/NH4	7695663	N/A	2021/11/13	Amanpreet Sappal
Nitrate & Nitrite as Nitrogen in Water	LACH	7692327	N/A	2021/11/11	Chandra Nandlal
pH	AT	7693291	2021/11/10	2021/11/11	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7691540	N/A	2021/11/10	Deonarine Ramnarine



BUREAU
VERITAS

Bureau Veritas Job #: C1W8324
Report Date: 2021/11/18

Terrapure Environmental
Client Project #: GW
Sampler Initials: CR

TEST SUMMARY

Bureau Veritas ID: REE727
Sample ID: CW3
Matrix: Water

Collected: 2021/11/05
Shipped:
Received: 2021/11/08

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Orthophosphate	KONE	7692785	N/A	2021/11/12	Avneet Kour Sudan
Total Dissolved Solids	BAL	7692077	2021/11/11	2021/11/12	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7693202	2021/11/10	2021/11/16	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7693171	N/A	2021/11/12	Julianna Castiglione

Bureau Veritas ID: REE728
Sample ID: CW16
Matrix: Water

Collected: 2021/11/05
Shipped:
Received: 2021/11/08

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7693281	N/A	2021/11/11	Surinder Rai
Anions	IC	7692760	N/A	2021/11/12	Fari Dehdezi
Conductivity	AT	7693285	N/A	2021/11/11	Surinder Rai
Fluoride	ISE	7693271	2021/11/10	2021/11/11	Surinder Rai
Hardness (calculated as CaCO3)		7686441	N/A	2021/11/17	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7690244	N/A	2021/11/15	Daniel Teclu
Total Ammonia-N	LACH/NH4	7695663	N/A	2021/11/13	Amanpreet Sappal
Nitrate & Nitrite as Nitrogen in Water	LACH	7692327	N/A	2021/11/11	Chandra Nandlal
pH	AT	7693291	2021/11/10	2021/11/11	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7691540	N/A	2021/11/10	Deonarine Ramnarine
Orthophosphate	KONE	7692785	N/A	2021/11/12	Avneet Kour Sudan
Total Dissolved Solids	BAL	7692077	2021/11/11	2021/11/12	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7693202	2021/11/10	2021/11/15	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7693171	N/A	2021/11/12	Julianna Castiglione

Bureau Veritas ID: REE729
Sample ID: CW5R
Matrix: Water

Collected: 2021/11/05
Shipped:
Received: 2021/11/08

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7693281	N/A	2021/11/11	Surinder Rai
Anions	IC	7692760	N/A	2021/11/12	Fari Dehdezi
Conductivity	AT	7693285	N/A	2021/11/11	Surinder Rai
Fluoride	ISE	7693271	2021/11/10	2021/11/11	Surinder Rai
Hardness (calculated as CaCO3)		7686441	N/A	2021/11/18	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7690244	N/A	2021/11/17	Daniel Teclu
Total Ammonia-N	LACH/NH4	7695663	N/A	2021/11/13	Amanpreet Sappal
Nitrate & Nitrite as Nitrogen in Water	LACH	7692327	N/A	2021/11/11	Chandra Nandlal
pH	AT	7693291	2021/11/10	2021/11/11	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7691620	N/A	2021/11/10	Deonarine Ramnarine
Orthophosphate	KONE	7692785	N/A	2021/11/12	Avneet Kour Sudan
Total Dissolved Solids	BAL	7692077	2021/11/11	2021/11/12	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7693202	2021/11/10	2021/11/16	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7693171	N/A	2021/11/12	Julianna Castiglione



BUREAU
VERITAS

Bureau Veritas Job #: C1W8324
Report Date: 2021/11/18

Terrapure Environmental
Client Project #: GW
Sampler Initials: CR

TEST SUMMARY

Bureau Veritas ID: REE730
Sample ID: L1
Matrix: Water

Collected: 2021/11/05
Shipped:
Received: 2021/11/08

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7693281	N/A	2021/11/11	Surinder Rai
Anions	IC	7692760	N/A	2021/11/12	Fari Dehdezi
Conductivity	AT	7693285	N/A	2021/11/11	Surinder Rai
Fluoride	ISE	7693271	2021/11/10	2021/11/11	Surinder Rai
Hardness (calculated as CaCO3)		7686441	N/A	2021/11/18	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7690244	N/A	2021/11/17	Daniel Teclu
Total Ammonia-N	LACH/NH4	7695663	N/A	2021/11/13	Amanpreet Sappal
Nitrate & Nitrite as Nitrogen in Water	LACH	7692327	N/A	2021/11/11	Chandra Nandlal
pH	AT	7693291	2021/11/10	2021/11/11	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7691540	N/A	2021/11/10	Deonarine Ramnarine
Orthophosphate	KONE	7692785	N/A	2021/11/12	Avneet Kour Sudan
Total Dissolved Solids	BAL	7692077	2021/11/11	2021/11/12	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7693202	2021/11/10	2021/11/16	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7693171	N/A	2021/11/12	Julianna Castiglione

Bureau Veritas ID: REE731
Sample ID: M4
Matrix: Water

Collected: 2021/11/05
Shipped:
Received: 2021/11/08

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7693281	N/A	2021/11/11	Surinder Rai
Anions	IC	7692760	N/A	2021/11/12	Fari Dehdezi
Conductivity	AT	7693285	N/A	2021/11/11	Surinder Rai
Fluoride	ISE	7693271	2021/11/10	2021/11/11	Surinder Rai
Hardness (calculated as CaCO3)		7686441	N/A	2021/11/18	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7690244	N/A	2021/11/17	Daniel Teclu
Total Ammonia-N	LACH/NH4	7695663	N/A	2021/11/13	Amanpreet Sappal
Nitrate & Nitrite as Nitrogen in Water	LACH	7692327	N/A	2021/11/11	Chandra Nandlal
pH	AT	7693291	2021/11/10	2021/11/11	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7691540	N/A	2021/11/10	Deonarine Ramnarine
Orthophosphate	KONE	7692785	N/A	2021/11/12	Avneet Kour Sudan
Total Dissolved Solids	BAL	7695206	2021/11/11	2021/11/13	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7693202	2021/11/10	2021/11/16	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7693171	N/A	2021/11/12	Julianna Castiglione

Bureau Veritas ID: REE732
Sample ID: M5R
Matrix: Water

Collected: 2021/11/05
Shipped:
Received: 2021/11/08

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7690808	N/A	2021/11/11	Surinder Rai
Anions	IC	7688256	N/A	2021/11/11	Fari Dehdezi
Conductivity	AT	7690817	N/A	2021/11/11	Surinder Rai
Fluoride	ISE	7690802	2021/11/09	2021/11/11	Surinder Rai
Hardness (calculated as CaCO3)		7686441	N/A	2021/11/17	Automated Statchk



BUREAU
VERITAS

Bureau Veritas Job #: C1W8324
Report Date: 2021/11/18

Terrapure Environmental
Client Project #: GW
Sampler Initials: CR

TEST SUMMARY

Bureau Veritas ID: REE732
Sample ID: M5R
Matrix: Water

Collected: 2021/11/05
Shipped:
Received: 2021/11/08

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dissolved Metals by ICPMS	ICP/MS	7690244	N/A	2021/11/15	Daniel Teclu
Total Ammonia-N	LACH/NH4	7695663	N/A	2021/11/13	Amanpreet Sappal
Nitrate & Nitrite as Nitrogen in Water	LACH	7691017	N/A	2021/11/11	Chandra Nandlal
pH	AT	7690814	2021/11/09	2021/11/11	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7691540	N/A	2021/11/10	Deonarine Ramnarine
Orthophosphate	KONE	7690854	N/A	2021/11/10	Avneet Kour Sudan
Total Dissolved Solids	BAL	7692077	2021/11/11	2021/11/12	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7693202	2021/11/10	2021/11/16	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7693171	N/A	2021/11/12	Julianna Castiglione

Bureau Veritas ID: REE732 Dup
Sample ID: M5R
Matrix: Water

Collected: 2021/11/05
Shipped:
Received: 2021/11/08

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7690808	N/A	2021/11/11	Surinder Rai
Conductivity	AT	7690817	N/A	2021/11/11	Surinder Rai
Fluoride	ISE	7690802	2021/11/09	2021/11/11	Surinder Rai
pH	AT	7690814	2021/11/09	2021/11/11	Surinder Rai

Bureau Veritas ID: REE733
Sample ID: P8-I
Matrix: Water

Collected: 2021/11/05
Shipped:
Received: 2021/11/08

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7693281	N/A	2021/11/11	Surinder Rai
Anions	IC	7692760	N/A	2021/11/12	Fari Dehdezi
Conductivity	AT	7693285	N/A	2021/11/11	Surinder Rai
Fluoride	ISE	7693271	2021/11/10	2021/11/11	Surinder Rai
Hardness (calculated as CaCO3)		7686441	N/A	2021/11/18	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7690244	N/A	2021/11/17	Daniel Teclu
Total Ammonia-N	LACH/NH4	7695663	N/A	2021/11/13	Amanpreet Sappal
Nitrate & Nitrite as Nitrogen in Water	LACH	7692327	N/A	2021/11/11	Chandra Nandlal
pH	AT	7693291	2021/11/10	2021/11/11	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7691540	N/A	2021/11/10	Deonarine Ramnarine
Orthophosphate	KONE	7692785	N/A	2021/11/12	Avneet Kour Sudan
Total Dissolved Solids	BAL	7692077	2021/11/11	2021/11/12	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7693202	2021/11/10	2021/11/16	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7693171	N/A	2021/11/12	Julianna Castiglione



BUREAU
VERITAS

Bureau Veritas Job #: C1W8324
Report Date: 2021/11/18

Terrapure Environmental
Client Project #: GW
Sampler Initials: CR

TEST SUMMARY

Bureau Veritas ID: REE766
Sample ID: 47-IV
Matrix: Water

Collected: 2021/11/05
Shipped:
Received: 2021/11/08

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
ABN Compounds in Water by GC/MS	GC/MS	7700389	2021/11/15	2021/11/16	Anh Lieu
OC Pesticides (Selected) & PCB	GC/ECD	7691298	2021/11/09	2021/11/16	Mahmudul Khan
OC Pesticides Summed Parameters	CALC	7688294	N/A	2021/11/11	Automated Statchk
Volatile Organic Compounds in Water	P&T/MS	7689416	N/A	2021/11/10	Rebecca McClean
Non-Routine Volatile Organic Compounds	P&T/MS	7682597	N/A	2021/11/11	Rebecca McClean

Bureau Veritas ID: REE767
Sample ID: GII
Matrix: Water

Collected: 2021/11/05
Shipped:
Received: 2021/11/08

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7693281	N/A	2021/11/11	Surinder Rai
Anions	IC	7691631	N/A	2021/11/12	Fari Dehdezi
Conductivity	AT	7693285	N/A	2021/11/11	Surinder Rai
Fluoride	ISE	7693271	2021/11/10	2021/11/11	Surinder Rai
Hardness (calculated as CaCO3)		7686441	N/A	2021/11/17	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7690244	N/A	2021/11/15	Daniel Teclu
Total Ammonia-N	LACH/NH4	7695663	N/A	2021/11/13	Amanpreet Sappal
Nitrate & Nitrite as Nitrogen in Water	LACH	7692327	N/A	2021/11/11	Chandra Nandlal
pH	AT	7693291	2021/11/10	2021/11/11	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7691620	N/A	2021/11/10	Deonarine Ramnarine
Orthophosphate	KONE	7691627	N/A	2021/11/11	Avneet Kour Sudan
Total Dissolved Solids	BAL	7692077	2021/11/11	2021/11/12	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7693202	2021/11/10	2021/11/15	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7693171	N/A	2021/11/11	Julianna Castiglione

Bureau Veritas ID: REE767 Dup
Sample ID: GII
Matrix: Water

Collected: 2021/11/05
Shipped:
Received: 2021/11/08

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Ammonia-N	LACH/NH4	7695663	N/A	2021/11/13	Amanpreet Sappal
Nitrate & Nitrite as Nitrogen in Water	LACH	7692327	N/A	2021/11/11	Chandra Nandlal

Bureau Veritas ID: REE768
Sample ID: G13
Matrix: Water

Collected: 2021/11/05
Shipped:
Received: 2021/11/08

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7693281	N/A	2021/11/11	Surinder Rai
Anions	IC	7691631	N/A	2021/11/12	Fari Dehdezi
Conductivity	AT	7693285	N/A	2021/11/11	Surinder Rai
Fluoride	ISE	7693271	2021/11/10	2021/11/11	Surinder Rai
Hardness (calculated as CaCO3)		7686441	N/A	2021/11/17	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7690244	N/A	2021/11/15	Daniel Teclu



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VERITAS

Bureau Veritas Job #: C1W8324
Report Date: 2021/11/18

Terrapure Environmental
Client Project #: GW
Sampler Initials: CR

TEST SUMMARY

Bureau Veritas ID: REE768
Sample ID: G13
Matrix: Water

Collected: 2021/11/05
Shipped:
Received: 2021/11/08

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Ammonia-N	LACH/NH4	7695663	N/A	2021/11/13	Amanpreet Sappal
Nitrate & Nitrite as Nitrogen in Water	LACH	7692327	N/A	2021/11/11	Chandra Nandlal
pH	AT	7693291	2021/11/10	2021/11/11	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7691620	N/A	2021/11/10	Deonarine Ramnarine
Orthophosphate	KONE	7691627	N/A	2021/11/11	Avneet Kour Sudan
Total Dissolved Solids	BAL	7692077	2021/11/11	2021/11/12	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7693202	2021/11/10	2021/11/16	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7693171	N/A	2021/11/11	Julianna Castiglione

Bureau Veritas ID: REE768 Dup
Sample ID: G13
Matrix: Water

Collected: 2021/11/05
Shipped:
Received: 2021/11/08

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7693281	N/A	2021/11/11	Surinder Rai
Conductivity	AT	7693285	N/A	2021/11/11	Surinder Rai
Fluoride	ISE	7693271	2021/11/10	2021/11/11	Surinder Rai
Dissolved Metals by ICPMS	ICP/MS	7690244	N/A	2021/11/15	Daniel Teclu
pH	AT	7693291	2021/11/10	2021/11/11	Surinder Rai

Bureau Veritas ID: REE769
Sample ID: 3-l
Matrix: Water

Collected: 2021/11/05
Shipped:
Received: 2021/11/08

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7693281	N/A	2021/11/11	Surinder Rai
Anions	IC	7692760	N/A	2021/11/12	Fari Dehdezi
Conductivity	AT	7693285	N/A	2021/11/11	Surinder Rai
Fluoride	ISE	7693271	2021/11/10	2021/11/11	Surinder Rai
Hardness (calculated as CaCO3)		7686441	N/A	2021/11/18	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7690244	N/A	2021/11/17	Daniel Teclu
Total Ammonia-N	LACH/NH4	7695663	N/A	2021/11/13	Amanpreet Sappal
Nitrate & Nitrite as Nitrogen in Water	LACH	7692327	N/A	2021/11/11	Chandra Nandlal
pH	AT	7693291	2021/11/10	2021/11/11	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7691620	N/A	2021/11/10	Deonarine Ramnarine
Orthophosphate	KONE	7692785	N/A	2021/11/12	Avneet Kour Sudan
Total Dissolved Solids	BAL	7695206	2021/11/11	2021/11/13	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7693202	2021/11/10	2021/11/16	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7693171	N/A	2021/11/12	Julianna Castiglione



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VERITAS

Bureau Veritas Job #: C1W8324
Report Date: 2021/11/18

Terrapure Environmental
Client Project #: GW
Sampler Initials: CR

TEST SUMMARY

Bureau Veritas ID: REE769 Dup
Sample ID: 3-I
Matrix: Water

Collected: 2021/11/05
Shipped:
Received: 2021/11/08

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Dissolved Solids	BAL	7695206	2021/11/11	2021/11/13	Shaneil Hall

Bureau Veritas ID: REE770
Sample ID: 40-I
Matrix: Water

Collected: 2021/11/05
Shipped:
Received: 2021/11/08

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7693281	N/A	2021/11/11	Surinder Rai
Anions	IC	7692760	N/A	2021/11/12	Fari Dehdezi
Conductivity	AT	7693285	N/A	2021/11/11	Surinder Rai
Fluoride	ISE	7693271	2021/11/10	2021/11/11	Surinder Rai
Hardness (calculated as CaCO3)		7686441	N/A	2021/11/18	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7690244	N/A	2021/11/17	Daniel Teclu
Total Ammonia-N	LACH/NH4	7695663	N/A	2021/11/13	Amanpreet Sappal
Nitrate & Nitrite as Nitrogen in Water	LACH	7692327	N/A	2021/11/11	Chandra Nandlal
pH	AT	7693291	2021/11/10	2021/11/11	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7691540	N/A	2021/11/10	Deonarine Ramnarine
Orthophosphate	KONE	7692785	N/A	2021/11/12	Avneet Kour Sudan
Total Dissolved Solids	BAL	7692077	2021/11/11	2021/11/12	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7693202	2021/11/10	2021/11/16	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7693171	N/A	2021/11/11	Julianna Castiglione

Bureau Veritas ID: REE770 Dup
Sample ID: 40-I
Matrix: Water

Collected: 2021/11/05
Shipped:
Received: 2021/11/08

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Organic Carbon (TOC)	TOCV/NDIR	7693171	N/A	2021/11/11	Julianna Castiglione

Bureau Veritas ID: REE771
Sample ID: 56-I
Matrix: Water

Collected: 2021/11/05
Shipped:
Received: 2021/11/08

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7693281	N/A	2021/11/11	Surinder Rai
Anions	IC	7692760	N/A	2021/11/12	Fari Dehdezi
Conductivity	AT	7693285	N/A	2021/11/11	Surinder Rai
Fluoride	ISE	7693271	2021/11/10	2021/11/11	Surinder Rai
Hardness (calculated as CaCO3)		7686441	N/A	2021/11/17	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7690244	N/A	2021/11/15	Daniel Teclu
Total Ammonia-N	LACH/NH4	7695663	N/A	2021/11/13	Amanpreet Sappal
Nitrate & Nitrite as Nitrogen in Water	LACH	7692327	N/A	2021/11/11	Chandra Nandlal
pH	AT	7693291	2021/11/10	2021/11/11	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7691540	N/A	2021/11/10	Deonarine Ramnarine
Orthophosphate	KONE	7692785	N/A	2021/11/12	Avneet Kour Sudan



BUREAU
VERITAS

Bureau Veritas Job #: C1W8324
Report Date: 2021/11/18

Terrapure Environmental
Client Project #: GW
Sampler Initials: CR

TEST SUMMARY

Bureau Veritas ID: REE771
Sample ID: 56-I
Matrix: Water

Collected: 2021/11/05
Shipped:
Received: 2021/11/08

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Dissolved Solids	BAL	7695206	2021/11/11	2021/11/13	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7693202	2021/11/10	2021/11/16	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7693171	N/A	2021/11/12	Julianna Castiglione

Bureau Veritas ID: REE771 Dup
Sample ID: 56-I
Matrix: Water

Collected: 2021/11/05
Shipped:
Received: 2021/11/08

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Orthophosphate	KONE	7692785	N/A	2021/11/12	Avneet Kour Sudan

Bureau Veritas ID: REE772
Sample ID: 51-V
Matrix: Water

Collected: 2021/11/05
Shipped:
Received: 2021/11/08

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
ABN Compounds in Water by GC/MS	GC/MS	7700389	2021/11/15	2021/11/15	Anh Lieu
Alkalinity	AT	7693281	N/A	2021/11/11	Surinder Rai
Anions	IC	7692760	N/A	2021/11/12	Fari Dehdezi
Conductivity	AT	7693285	N/A	2021/11/11	Surinder Rai
Fluoride	ISE	7693271	2021/11/10	2021/11/11	Surinder Rai
Hardness (calculated as CaCO3)		7686441	N/A	2021/11/17	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7690244	N/A	2021/11/15	Daniel Teclu
Total Ammonia-N	LACH/NH4	7695663	N/A	2021/11/13	Amanpreet Sappal
Nitrate & Nitrite as Nitrogen in Water	LACH	7692339	N/A	2021/11/11	Nimarta Singh
OC Pesticides (Selected) & PCB	GC/ECD	7691298	2021/11/09	2021/11/16	Mahmudul Khan
OC Pesticides Summed Parameters	CALC	7688294	N/A	2021/11/11	Automated Statchk
pH	AT	7693291	2021/11/10	2021/11/11	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7691620	N/A	2021/11/10	Deonarine Ramnarine
Orthophosphate	KONE	7692785	N/A	2021/11/12	Avneet Kour Sudan
Total Dissolved Solids	BAL	7692077	2021/11/11	2021/11/12	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7693202	2021/11/10	2021/11/15	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7693171	N/A	2021/11/12	Julianna Castiglione
Volatile Organic Compounds in Water	P&T/MS	7689416	N/A	2021/11/10	Rebecca McClean
Non-Routine Volatile Organic Compounds	P&T/MS	7682597	N/A	2021/11/11	Rebecca McClean

Bureau Veritas ID: REE772 Dup
Sample ID: 51-V
Matrix: Water

Collected: 2021/11/05
Shipped:
Received: 2021/11/08

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
ABN Compounds in Water by GC/MS	GC/MS	7700389	2021/11/15	2021/11/15	Anh Lieu
Nitrate & Nitrite as Nitrogen in Water	LACH	7692339	N/A	2021/11/11	Nimarta Singh
Volatile Organic Compounds in Water	P&T/MS	7689416	N/A	2021/11/10	Rebecca McClean
Non-Routine Volatile Organic Compounds	P&T/MS	7682597	N/A	2021/11/11	Rebecca McClean



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VERITAS

Bureau Veritas Job #: C1W8324
Report Date: 2021/11/18

Terrapure Environmental
Client Project #: GW
Sampler Initials: CR

TEST SUMMARY

Bureau Veritas ID: REE773
Sample ID: 29-I
Matrix: Water

Collected: 2021/11/05
Shipped:
Received: 2021/11/08

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7693281	N/A	2021/11/11	Surinder Rai
Anions	IC	7692760	N/A	2021/11/12	Fari Dehdezi
Conductivity	AT	7693285	N/A	2021/11/11	Surinder Rai
Fluoride	ISE	7693271	2021/11/10	2021/11/11	Surinder Rai
Hardness (calculated as CaCO3)		7686441	N/A	2021/11/18	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7690244	N/A	2021/11/17	Daniel Teclu
Total Ammonia-N	LACH/NH4	7695663	N/A	2021/11/13	Amanpreet Sappal
Nitrate & Nitrite as Nitrogen in Water	LACH	7692327	N/A	2021/11/11	Chandra Nandlal
pH	AT	7693291	2021/11/10	2021/11/11	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7691620	N/A	2021/11/10	Deonarine Ramnarine
Orthophosphate	KONE	7692785	N/A	2021/11/12	Avneet Kour Sudan
Total Dissolved Solids	BAL	7692077	2021/11/11	2021/11/12	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7693202	2021/11/10	2021/11/16	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7693171	N/A	2021/11/12	Julianna Castiglione

Bureau Veritas ID: REE774
Sample ID: 29-II
Matrix: Water

Collected: 2021/11/05
Shipped:
Received: 2021/11/08

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7693281	N/A	2021/11/11	Surinder Rai
Anions	IC	7692760	N/A	2021/11/12	Fari Dehdezi
Conductivity	AT	7693285	N/A	2021/11/11	Surinder Rai
Fluoride	ISE	7693271	2021/11/10	2021/11/11	Surinder Rai
Hardness (calculated as CaCO3)		7686441	N/A	2021/11/18	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7690244	N/A	2021/11/17	Daniel Teclu
Total Ammonia-N	LACH/NH4	7695663	N/A	2021/11/13	Amanpreet Sappal
Nitrate & Nitrite as Nitrogen in Water	LACH	7692327	N/A	2021/11/11	Chandra Nandlal
pH	AT	7693291	2021/11/10	2021/11/11	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7691540	N/A	2021/11/10	Deonarine Ramnarine
Orthophosphate	KONE	7692785	N/A	2021/11/12	Avneet Kour Sudan
Total Dissolved Solids	BAL	7692077	2021/11/11	2021/11/12	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7693202	2021/11/10	2021/11/16	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7693171	N/A	2021/11/11	Julianna Castiglione

Bureau Veritas ID: REE775
Sample ID: 29-IV
Matrix: Water

Collected: 2021/11/05
Shipped:
Received: 2021/11/08

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7693281	N/A	2021/11/11	Surinder Rai
Anions	IC	7692760	N/A	2021/11/12	Fari Dehdezi
Conductivity	AT	7693285	N/A	2021/11/11	Surinder Rai
Fluoride	ISE	7693271	2021/11/10	2021/11/11	Surinder Rai
Hardness (calculated as CaCO3)		7686441	N/A	2021/11/18	Automated Statchk



BUREAU
VERITAS

Bureau Veritas Job #: C1W8324
Report Date: 2021/11/18

Terrapure Environmental
Client Project #: GW
Sampler Initials: CR

TEST SUMMARY

Bureau Veritas ID: REE775
Sample ID: 29-IV
Matrix: Water

Collected: 2021/11/05
Shipped:
Received: 2021/11/08

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dissolved Metals by ICPMS	ICP/MS	7690244	N/A	2021/11/17	Daniel Teclu
Total Ammonia-N	LACH/NH4	7695663	N/A	2021/11/13	Amanpreet Sappal
Nitrate & Nitrite as Nitrogen in Water	LACH	7692327	N/A	2021/11/11	Chandra Nandlal
pH	AT	7693291	2021/11/10	2021/11/11	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7691540	N/A	2021/11/10	Deonarine Ramnarine
Orthophosphate	KONE	7692785	N/A	2021/11/12	Avneet Kour Sudan
Total Dissolved Solids	BAL	7692077	2021/11/11	2021/11/12	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7693202	2021/11/10	2021/11/16	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7693171	N/A	2021/11/12	Julianna Castiglione

Bureau Veritas ID: REF080
Sample ID: 32-II
Matrix: Water

Collected: 2021/11/05
Shipped:
Received: 2021/11/08

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7693281	N/A	2021/11/11	Surinder Rai
Anions	IC	7692760	N/A	2021/11/12	Fari Dehdezi
Biochemical Oxygen Demand (BOD)	DO	7690437	2021/11/09	2021/11/14	Frank Zhang
Conductivity	AT	7693285	N/A	2021/11/11	Surinder Rai
Fluoride	ISE	7693271	2021/11/10	2021/11/11	Surinder Rai
Hardness (calculated as CaCO3)		7686441	N/A	2021/11/18	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7690244	N/A	2021/11/17	Daniel Teclu
Total Ammonia-N	LACH/NH4	7695663	N/A	2021/11/13	Amanpreet Sappal
Nitrate & Nitrite as Nitrogen in Water	LACH	7692327	N/A	2021/11/11	Chandra Nandlal
pH	AT	7693291	2021/11/10	2021/11/11	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7691620	N/A	2021/11/10	Deonarine Ramnarine
Orthophosphate	KONE	7692785	N/A	2021/11/12	Avneet Kour Sudan
Total Dissolved Solids	BAL	7692077	2021/11/11	2021/11/12	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7693202	2021/11/10	2021/11/16	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7693171	N/A	2021/11/12	Julianna Castiglione



GENERAL COMMENTS

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

Package 1	3.0°C
Package 2	5.0°C
Package 3	5.0°C
Package 4	5.7°C
Package 5	5.0°C

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

Sample REE725 [P10-V] : ABN analysis: Due to the nature of the sample matrix, a smaller than usual portion of the sample was used for extraction. Detection limits were adjusted accordingly.

Sample REE766 [47-IV] : ABN analysis: Due to the nature of the sample matrix, a smaller than usual portion of the sample was used for extraction. Detection limits were adjusted accordingly.

Sample REE772 [51-V] : VOC Analysis: Due to high concentrations of target analytes, sample required dilution. Detection limits were adjusted accordingly.

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

Results relate only to the items tested.



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			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
7689416	4-Bromofluorobenzene	2021/11/10	97	70 - 130	99	70 - 130	96	%				
7689416	D4-1,2-Dichloroethane	2021/11/10	84	70 - 130	88	70 - 130	90	%				
7689416	D8-Toluene	2021/11/10	103	70 - 130	102	70 - 130	102	%				
7691298	2,4,5,6-Tetrachloro-m-xylene	2021/11/12	72	50 - 130	66	50 - 130	68	%				
7691298	Decachlorobiphenyl	2021/11/12	93	50 - 130	88	50 - 130	89	%				
7700389	2,4,6-Tribromophenol	2021/11/15	76	10 - 130	77	10 - 130	64	%				
7700389	2-Fluorobiphenyl	2021/11/15	54	30 - 130	54	30 - 130	50	%				
7700389	2-Fluorophenol	2021/11/15	38	10 - 130	40	10 - 130	37	%				
7700389	D14-Terphenyl	2021/11/15	80	30 - 130	80	30 - 130	79	%				
7700389	D5-Nitrobenzene	2021/11/15	71	30 - 130	73	30 - 130	71	%				
7700389	D5-Phenol	2021/11/15	26	10 - 130	26	10 - 130	24	%				
7682597	Acrolein	2021/11/11	97	60 - 140	105	60 - 140	<10	ug/L	NC	30		
7682597	Acrylonitrile	2021/11/11	101	60 - 140	103	60 - 140	<5.0	ug/L	NC	30		
7682597	Methyl Butyl Ketone (2-Hexanone)	2021/11/11	92	60 - 140	93	60 - 140	<5.0	ug/L	NC	30		
7688256	Dissolved Bromide (Br-)	2021/11/11	102	80 - 120	99	80 - 120	<1.0	mg/L	NC	20		
7688256	Dissolved Chloride (Cl-)	2021/11/11	NC	80 - 120	97	70 - 130	<1.0	mg/L	4.5	20		
7688256	Dissolved Sulphate (SO4)	2021/11/11	NC	80 - 120	99	80 - 120	<1.0	mg/L	4.7	20		
7689416	1,1,1,2-Tetrachloroethane	2021/11/10	102	70 - 130	103	70 - 130	<0.20	ug/L	NC	30		
7689416	1,1,1-Trichloroethane	2021/11/10	104	70 - 130	102	70 - 130	<0.10	ug/L	NC	30		
7689416	1,1,2,2-Tetrachloroethane	2021/11/10	89	70 - 130	92	70 - 130	<0.20	ug/L	NC	30		
7689416	1,1,2-Trichloroethane	2021/11/10	96	70 - 130	98	70 - 130	<0.20	ug/L	NC	30		
7689416	1,1-Dichloroethane	2021/11/10	95	70 - 130	91	70 - 130	<0.10	ug/L	NC	30		
7689416	1,1-Dichloroethylene	2021/11/10	89	70 - 130	94	70 - 130	<0.10	ug/L	NC	30		
7689416	1,2-Dichlorobenzene	2021/11/10	102	70 - 130	97	70 - 130	<0.20	ug/L	NC	30		
7689416	1,2-Dichloroethane	2021/11/10	85	70 - 130	86	70 - 130	<0.20	ug/L	NC	30		
7689416	1,2-Dichloropropane	2021/11/10	97	70 - 130	94	70 - 130	<0.10	ug/L	NC	30		
7689416	1,3-Dichlorobenzene	2021/11/10	107	70 - 130	101	70 - 130	<0.20	ug/L	NC	30		
7689416	1,4-Dichlorobenzene	2021/11/10	123	70 - 130	116	70 - 130	<0.20	ug/L	NC	30		
7689416	Acetone (2-Propanone)	2021/11/10	NC	60 - 140	80	60 - 140	<10	ug/L	0.92	30		
7689416	Benzene	2021/11/10	98	70 - 130	95	70 - 130	<0.10	ug/L	NC	30		
7689416	Bromodichloromethane	2021/11/10	98	70 - 130	99	70 - 130	<0.10	ug/L	NC	30		



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			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
7689416	Bromoform	2021/11/10	99	70 - 130	101	70 - 130	<0.20	ug/L	NC	30		
7689416	Bromomethane	2021/11/10	106	60 - 140	114	60 - 140	<0.50	ug/L	NC	30		
7689416	Carbon Tetrachloride	2021/11/10	102	70 - 130	100	70 - 130	<0.10	ug/L	NC	30		
7689416	Chlorobenzene	2021/11/10	104	70 - 130	100	70 - 130	<0.10	ug/L	NC	30		
7689416	Chloroethane	2021/11/10	110	70 - 130	107	70 - 130	<0.20	ug/L	NC	30		
7689416	Chloroform	2021/11/10	98	70 - 130	96	70 - 130	<0.10	ug/L	NC	30		
7689416	Chloromethane	2021/11/10	100	60 - 140	92	60 - 140	<0.50	ug/L	NC	30		
7689416	cis-1,2-Dichloroethylene	2021/11/10	104	70 - 130	100	70 - 130	<0.10	ug/L	NC	30		
7689416	cis-1,3-Dichloropropene	2021/11/10	100	70 - 130	101	70 - 130	<0.20	ug/L	NC	30		
7689416	Dibromochloromethane	2021/11/10	96	70 - 130	99	70 - 130	<0.20	ug/L	NC	30		
7689416	Ethylbenzene	2021/11/10	102	70 - 130	98	70 - 130	<0.10	ug/L	NC	30		
7689416	Ethylene Dibromide	2021/11/10	93	70 - 130	93	70 - 130	<0.20	ug/L	NC	30		
7689416	Methyl Ethyl Ketone (2-Butanone)	2021/11/10	NC	60 - 140	87	60 - 140	<5.0	ug/L	0.018	30		
7689416	Methyl Isobutyl Ketone	2021/11/10	85	70 - 130	88	70 - 130	<5.0	ug/L	NC	30		
7689416	Methyl t-butyl ether (MTBE)	2021/11/10	87	70 - 130	90	70 - 130	<0.20	ug/L	NC	30		
7689416	Methylene Chloride(Dichloromethane)	2021/11/10	95	70 - 130	93	70 - 130	<0.50	ug/L	NC	30		
7689416	o-Xylene	2021/11/10	103	70 - 130	100	70 - 130	<0.10	ug/L	NC	30		
7689416	p+m-Xylene	2021/11/10	106	70 - 130	104	70 - 130	<0.10	ug/L	NC	30		
7689416	Styrene	2021/11/10	112	70 - 130	111	70 - 130	<0.20	ug/L	NC	30		
7689416	Tetrachloroethylene	2021/11/10	100	70 - 130	96	70 - 130	<0.10	ug/L	NC	30		
7689416	Toluene	2021/11/10	102	70 - 130	99	70 - 130	<0.20	ug/L	NC	30		
7689416	Total Trihalomethanes	2021/11/10					<0.20	ug/L	NC	30		
7689416	Total Xylenes	2021/11/10					<0.10	ug/L	NC	30		
7689416	trans-1,2-Dichloroethylene	2021/11/10	107	70 - 130	102	70 - 130	<0.10	ug/L	NC	30		
7689416	trans-1,3-Dichloropropene	2021/11/10	104	70 - 130	105	70 - 130	<0.20	ug/L	NC	30		
7689416	Trichloroethylene	2021/11/10	113	70 - 130	107	70 - 130	<0.10	ug/L	NC	30		
7689416	Trichlorofluoromethane (FREON 11)	2021/11/10	94	70 - 130	91	70 - 130	<0.20	ug/L	NC	30		
7689416	Vinyl Chloride	2021/11/10	95	70 - 130	90	70 - 130	<0.20	ug/L	NC	30		
7690244	Dissolved Aluminum (Al)	2021/11/15	104	80 - 120	104	80 - 120	<4.9	ug/L	9.3	20		
7690244	Dissolved Antimony (Sb)	2021/11/15	102	80 - 120	100	80 - 120	<0.50	ug/L	NC	20		
7690244	Dissolved Arsenic (As)	2021/11/15	101	80 - 120	99	80 - 120	<1.0	ug/L	NC	20		



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			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
7690244	Dissolved Barium (Ba)	2021/11/15	101	80 - 120	103	80 - 120	<2.0	ug/L	0.83	20		
7690244	Dissolved Beryllium (Be)	2021/11/15	94	80 - 120	96	80 - 120	<0.40	ug/L	NC	20		
7690244	Dissolved Bismuth (Bi)	2021/11/15	90	80 - 120	95	80 - 120	<1.0	ug/L	NC	20		
7690244	Dissolved Boron (B)	2021/11/15	87	80 - 120	95	80 - 120	<10	ug/L	2.0	20		
7690244	Dissolved Cadmium (Cd)	2021/11/15	97	80 - 120	97	80 - 120	<0.090	ug/L	8.1	20		
7690244	Dissolved Calcium (Ca)	2021/11/15	NC	80 - 120	103	80 - 120	<200	ug/L	0.58	20		
7690244	Dissolved Chromium (Cr)	2021/11/15	98	80 - 120	99	80 - 120	<5.0	ug/L	NC	20		
7690244	Dissolved Cobalt (Co)	2021/11/15	99	80 - 120	99	80 - 120	<0.50	ug/L	NC	20		
7690244	Dissolved Copper (Cu)	2021/11/15	99	80 - 120	99	80 - 120	<0.90	ug/L	3.5	20		
7690244	Dissolved Iron (Fe)	2021/11/15	100	80 - 120	100	80 - 120	<100	ug/L	NC	20		
7690244	Dissolved Lead (Pb)	2021/11/15	91	80 - 120	94	80 - 120	<0.50	ug/L	0.20	20		
7690244	Dissolved Lithium (Li)	2021/11/15	101	80 - 120	102	80 - 120	<5.0	ug/L	5.9	20		
7690244	Dissolved Magnesium (Mg)	2021/11/15	NC	80 - 120	102	80 - 120	<50	ug/L	1.0	20		
7690244	Dissolved Manganese (Mn)	2021/11/15	98	80 - 120	98	80 - 120	<2.0	ug/L	5.9	20		
7690244	Dissolved Molybdenum (Mo)	2021/11/15	104	80 - 120	102	80 - 120	<0.50	ug/L	1.1	20		
7690244	Dissolved Nickel (Ni)	2021/11/15	93	80 - 120	95	80 - 120	<1.0	ug/L	0.20	20		
7690244	Dissolved Phosphorus (P)	2021/11/15	111	80 - 120	115	80 - 120	<100	ug/L	NC	20		
7690244	Dissolved Potassium (K)	2021/11/15	104	80 - 120	104	80 - 120	<200	ug/L	1.2	20		
7690244	Dissolved Selenium (Se)	2021/11/15	100	80 - 120	101	80 - 120	<2.0	ug/L	NC	20		
7690244	Dissolved Silicon (Si)	2021/11/15	102	80 - 120	101	80 - 120	<50	ug/L	0.48	20		
7690244	Dissolved Silver (Ag)	2021/11/15	93	80 - 120	97	80 - 120	<0.090	ug/L	NC	20		
7690244	Dissolved Sodium (Na)	2021/11/15	NC	80 - 120	99	80 - 120	<100	ug/L	0.80	20		
7690244	Dissolved Strontium (Sr)	2021/11/15	NC	80 - 120	94	80 - 120	<1.0	ug/L	0.43	20		
7690244	Dissolved Tellurium (Te)	2021/11/15	98	80 - 120	99	80 - 120	<1.0	ug/L	NC	20		
7690244	Dissolved Thallium (Tl)	2021/11/15	94	80 - 120	98	80 - 120	<0.050	ug/L	11	20		
7690244	Dissolved Tin (Sn)	2021/11/15	101	80 - 120	99	80 - 120	<1.0	ug/L	NC	20		
7690244	Dissolved Titanium (Ti)	2021/11/15	99	80 - 120	97	80 - 120	<5.0	ug/L	NC	20		
7690244	Dissolved Tungsten (W)	2021/11/15	99	80 - 120	101	80 - 120	<1.0	ug/L	NC	20		
7690244	Dissolved Uranium (U)	2021/11/15	92	80 - 120	96	80 - 120	<0.10	ug/L	0.66	20		
7690244	Dissolved Vanadium (V)	2021/11/15	99	80 - 120	98	80 - 120	<0.50	ug/L	NC	20		
7690244	Dissolved Zinc (Zn)	2021/11/15	NC	80 - 120	97	80 - 120	<5.0	ug/L	0.062	20		



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			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
7690244	Dissolved Zirconium (Zr)	2021/11/15	102	80 - 120	98	80 - 120	<1.0	ug/L	NC	20		
7690437	Total BOD	2021/11/14					<2	mg/L	NC	30	103	80 - 120
7690802	Fluoride (F-)	2021/11/11	102	80 - 120	102	80 - 120	<1.0	mg/L	11	20		
7690808	Alkalinity (Total as CaCO3)	2021/11/11			96	85 - 115	<1.0	mg/L	1.1	20		
7690814	pH	2021/11/11			102	98 - 103			0.18	N/A		
7690817	Conductivity	2021/11/11			101	85 - 115	<1.0	umho/cm	0.31	25		
7690854	Orthophosphate (P)	2021/11/10	119	75 - 125	102	80 - 120	<0.010	mg/L	NC	25		
7691017	Nitrate (N)	2021/11/11	91	80 - 120	97	80 - 120	<0.10	mg/L	1.4	20		
7691017	Nitrite (N)	2021/11/11	NC	80 - 120	108	80 - 120	<0.010	mg/L	0.98	20		
7691298	a-Chlordane	2021/11/12	85	50 - 130	58	50 - 130	<0.005	ug/L	NC	30		
7691298	Aldrin	2021/11/12	105	50 - 130	67	50 - 130	<0.005	ug/L	NC	30		
7691298	alpha-BHC	2021/11/12	75	30 - 130	78	30 - 130	<0.005	ug/L	3.9	40		
7691298	Aroclor 1242	2021/11/12					<0.05	ug/L	NC	30		
7691298	Aroclor 1248	2021/11/12					<0.05	ug/L	NC	30		
7691298	Aroclor 1254	2021/11/12					<0.05	ug/L	NC	30		
7691298	Aroclor 1260	2021/11/12					<0.05	ug/L	NC	30		
7691298	beta-BHC	2021/11/12	78	30 - 130	66	30 - 130	<0.005	ug/L	6.8	40		
7691298	Dieldrin	2021/11/12	94	50 - 130	73	50 - 130	<0.005	ug/L	NC	30		
7691298	Endosulfan I (alpha)	2021/11/12	86	50 - 130	74	50 - 130	<0.005	ug/L	NC	30		
7691298	Endosulfan II (beta)	2021/11/12	81	50 - 130	72	50 - 130	<0.005	ug/L	NC	30		
7691298	Endrin aldehyde	2021/11/12	85	30 - 130	77	30 - 130	<0.005	ug/L	27	40		
7691298	Endrin ketone	2021/11/12	81	30 - 130	69	30 - 130	<0.005	ug/L	5.5	40		
7691298	Endrin	2021/11/12	83	50 - 130	72	50 - 130	<0.005	ug/L	NC	30		
7691298	g-Chlordane	2021/11/12	83	50 - 130	62	50 - 130	<0.005	ug/L	NC	30		
7691298	Heptachlor epoxide	2021/11/12	82	50 - 130	64	50 - 130	<0.005	ug/L	NC	30		
7691298	Heptachlor	2021/11/12	68	50 - 130	56	50 - 130	<0.005	ug/L	NC	30		
7691298	Hexachlorobenzene	2021/11/12	83	50 - 130	65	50 - 130	<0.005	ug/L	NC	30		
7691298	Hexachlorobutadiene	2021/11/12	79	50 - 130	71	50 - 130	<0.009	ug/L	NC	30		
7691298	Hexachloroethane	2021/11/12	66	50 - 130	56	50 - 130	<0.01	ug/L	NC	30		
7691298	Lindane	2021/11/12	91	50 - 130	89	50 - 130	<0.003	ug/L	NC	30		



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			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
7691298	Methoxychlor	2021/11/12	97	50 - 130	92	50 - 130	<0.01	ug/L	NC	30		
7691298	Mirex	2021/11/12	91	30 - 130	80	30 - 130	<0.005	ug/L	12	40		
7691298	o,p-DDD	2021/11/12	99	50 - 130	78	50 - 130	<0.005	ug/L	NC	30		
7691298	o,p-DDE	2021/11/12	105	50 - 130	78	50 - 130	<0.005	ug/L	NC	30		
7691298	o,p-DDT	2021/11/12	83	50 - 130	65	50 - 130	<0.005	ug/L	NC	30		
7691298	p,p-DDD	2021/11/12	99	50 - 130	77	50 - 130	<0.005	ug/L	NC	30		
7691298	p,p-DDE	2021/11/12	88	50 - 130	75	50 - 130	<0.005	ug/L	NC	30		
7691298	p,p-DDT	2021/11/12	80	50 - 130	68	50 - 130	<0.005	ug/L	NC	30		
7691298	Toxaphene	2021/11/12					<0.2	ug/L				
7691540	Phenols-4AAP	2021/11/10	98	80 - 120	100	80 - 120	<0.0010	mg/L	6.1	20		
7691541	Dissolved Aluminum (Al)	2021/11/10	101	80 - 120	102	80 - 120	<4.9	ug/L	6.6	20		
7691541	Dissolved Antimony (Sb)	2021/11/10	107	80 - 120	106	80 - 120	<0.50	ug/L	NC	20		
7691541	Dissolved Arsenic (As)	2021/11/10	99	80 - 120	101	80 - 120	<1.0	ug/L	NC	20		
7691541	Dissolved Barium (Ba)	2021/11/10	104	80 - 120	104	80 - 120	<2.0	ug/L	0.66	20		
7691541	Dissolved Beryllium (Be)	2021/11/10	98	80 - 120	98	80 - 120	<0.40	ug/L	NC	20		
7691541	Dissolved Bismuth (Bi)	2021/11/10	97	80 - 120	105	80 - 120	<1.0	ug/L	NC	20		
7691541	Dissolved Boron (B)	2021/11/10	95	80 - 120	97	80 - 120	<10	ug/L	3.0	20		
7691541	Dissolved Cadmium (Cd)	2021/11/10	102	80 - 120	104	80 - 120	<0.090	ug/L	NC	20		
7691541	Dissolved Calcium (Ca)	2021/11/10	NC	80 - 120	103	80 - 120	<200	ug/L	3.3	20		
7691541	Dissolved Chromium (Cr)	2021/11/10	93	80 - 120	94	80 - 120	<5.0	ug/L	NC	20		
7691541	Dissolved Cobalt (Co)	2021/11/10	98	80 - 120	101	80 - 120	<0.50	ug/L	0.37	20		
7691541	Dissolved Copper (Cu)	2021/11/10	100	80 - 120	98	80 - 120	<0.90	ug/L	NC	20		
7691541	Dissolved Iron (Fe)	2021/11/10	97	80 - 120	100	80 - 120	<100	ug/L	NC	20		
7691541	Dissolved Lead (Pb)	2021/11/10	95	80 - 120	99	80 - 120	<0.50	ug/L	NC	20		
7691541	Dissolved Lithium (Li)	2021/11/10	103	80 - 120	109	80 - 120	<5.0	ug/L	NC	20		
7691541	Dissolved Magnesium (Mg)	2021/11/10	99	80 - 120	102	80 - 120	<50	ug/L	1.8	20		
7691541	Dissolved Manganese (Mn)	2021/11/10	99	80 - 120	103	80 - 120	<2.0	ug/L	4.8	20		
7691541	Dissolved Molybdenum (Mo)	2021/11/10	102	80 - 120	100	80 - 120	<0.50	ug/L	0.99	20		
7691541	Dissolved Nickel (Ni)	2021/11/10	94	80 - 120	98	80 - 120	<1.0	ug/L	2.8	20		
7691541	Dissolved Phosphorus (P)	2021/11/10	106	80 - 120	112	80 - 120	<100	ug/L	NC	20		
7691541	Dissolved Potassium (K)	2021/11/10	98	80 - 120	103	80 - 120	<200	ug/L	2.3	20		



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Bureau Veritas Job #: C1W8324

Report Date: 2021/11/18

QUALITY ASSURANCE REPORT(CONT'D)

Terrapure Environmental

Client Project #: GW

Sampler Initials: CR

QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
7691541	Dissolved Selenium (Se)	2021/11/10	97	80 - 120	98	80 - 120	<2.0	ug/L	NC	20		
7691541	Dissolved Silicon (Si)	2021/11/10	104	80 - 120	103	80 - 120	<50	ug/L	1.2	20		
7691541	Dissolved Silver (Ag)	2021/11/10	93	80 - 120	97	80 - 120	<0.090	ug/L	NC	20		
7691541	Dissolved Sodium (Na)	2021/11/10	NC	80 - 120	99	80 - 120	<100	ug/L	3.1	20		
7691541	Dissolved Strontium (Sr)	2021/11/10	NC	80 - 120	105	80 - 120	<1.0	ug/L	0.084	20		
7691541	Dissolved Tellurium (Te)	2021/11/10	103	80 - 120	105	80 - 120	<1.0	ug/L	NC	20		
7691541	Dissolved Thallium (Tl)	2021/11/10	103	80 - 120	108	80 - 120	<0.050	ug/L	NC	20		
7691541	Dissolved Tin (Sn)	2021/11/10	107	80 - 120	105	80 - 120	<1.0	ug/L	NC	20		
7691541	Dissolved Titanium (Ti)	2021/11/10	102	80 - 120	102	80 - 120	<5.0	ug/L	NC	20		
7691541	Dissolved Tungsten (W)	2021/11/10	99	80 - 120	100	80 - 120	<1.0	ug/L	NC	20		
7691541	Dissolved Uranium (U)	2021/11/10	97	80 - 120	99	80 - 120	<0.10	ug/L	NC	20		
7691541	Dissolved Vanadium (V)	2021/11/10	96	80 - 120	97	80 - 120	<0.50	ug/L	NC	20		
7691541	Dissolved Zinc (Zn)	2021/11/10	96	80 - 120	100	80 - 120	<5.0	ug/L	9.1	20		
7691541	Dissolved Zirconium (Zr)	2021/11/10	109	80 - 120	106	80 - 120	<1.0	ug/L	NC	20		
7691620	Phenols-4AAP	2021/11/10	98	80 - 120	101	80 - 120	<0.0010	mg/L	NC	20		
7691627	Orthophosphate (P)	2021/11/11	155 (1)	75 - 125	103	80 - 120	<0.010	mg/L	3.1	25		
7691631	Dissolved Bromide (Br-)	2021/11/11	103	80 - 120	101	80 - 120	<1.0	mg/L	NC	20		
7691631	Dissolved Chloride (Cl-)	2021/11/11	98	80 - 120	98	70 - 130	<1.0	mg/L	5.1	20		
7691631	Dissolved Sulphate (SO4)	2021/11/11	102	80 - 120	101	80 - 120	<1.0	mg/L	2.7	20		
7692077	Total Dissolved Solids	2021/11/12					<10	mg/L	NC	25	100	90 - 110
7692327	Nitrate (N)	2021/11/11	101	80 - 120	98	80 - 120	<0.10	mg/L	15	20		
7692327	Nitrite (N)	2021/11/11	105	80 - 120	107	80 - 120	<0.010	mg/L	NC	20		
7692339	Nitrate (N)	2021/11/11	98	80 - 120	97	80 - 120	<0.10	mg/L	NC	20		
7692339	Nitrite (N)	2021/11/11	105	80 - 120	105	80 - 120	<0.010	mg/L	NC	20		
7692760	Dissolved Bromide (Br-)	2021/11/12	99	80 - 120	105	80 - 120	<1.0	mg/L	NC	20		
7692760	Dissolved Chloride (Cl-)	2021/11/12	96	80 - 120	100	70 - 130	<1.0	mg/L	5.0	20		
7692760	Dissolved Sulphate (SO4)	2021/11/12	NC	80 - 120	100	80 - 120	<1.0	mg/L	8.9	20		
7692785	Orthophosphate (P)	2021/11/12	116	75 - 125	101	80 - 120	<0.010	mg/L	NC	25		
7693171	Total Organic Carbon (TOC)	2021/11/11	98	80 - 120	96	80 - 120	<0.40	mg/L	5.7	20		
7693202	Total Kjeldahl Nitrogen (TKN)	2021/11/15	107	80 - 120	106	80 - 120	<0.10	mg/L	6.5	20	102	80 - 120
7693271	Fluoride (F-)	2021/11/11	106	80 - 120	101	80 - 120	<0.10	mg/L	18	20		



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QUALITY ASSURANCE REPORT(CONT'D)

Terrapure Environmental

Client Project #: GW

Sampler Initials: CR

QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
7693281	Alkalinity (Total as CaCO3)	2021/11/11			95	85 - 115	<1.0	mg/L	0.35	20		
7693285	Conductivity	2021/11/11			100	85 - 115	<1.0	umho/cm	0.071	25		
7693291	pH	2021/11/11			102	98 - 103			0.35	N/A		
7695206	Total Dissolved Solids	2021/11/13					<10	mg/L	2.6	25	95	90 - 110
7695663	Total Ammonia-N	2021/11/13	90	75 - 125	103	80 - 120	<0.050	mg/L	NC	20		
7700389	1,2,3,4-Tetrachlorobenzene	2021/11/15	48	30 - 130	48	30 - 130	<0.50	ug/L	NC	40		
7700389	1,2,3,5-Tetrachlorobenzene	2021/11/15	50	30 - 130	49	30 - 130	<0.50	ug/L	NC	40		
7700389	1,2,3-Trichlorobenzene	2021/11/15	46	30 - 130	47	30 - 130	<0.50	ug/L	NC	40		
7700389	1,2,4,5-Tetrachlorobenzene	2021/11/15	46	30 - 130	50	30 - 130	<0.50	ug/L	NC	40		
7700389	1,2,4-Trichlorobenzene	2021/11/15	43	30 - 130	46	30 - 130	<0.50	ug/L	NC	40		
7700389	1,2-Dichlorobenzene	2021/11/15	47	30 - 130	51	30 - 130	<0.50	ug/L	NC	40		
7700389	1,3,5-Trichlorobenzene	2021/11/15	50	30 - 130	54	30 - 130	<0.50	ug/L	NC	40		
7700389	1,3-Dichlorobenzene	2021/11/15	44	30 - 130	47	30 - 130	<0.50	ug/L	NC	40		
7700389	1,4-Dichlorobenzene	2021/11/15	45	30 - 130	49	30 - 130	<0.50	ug/L	NC	40		
7700389	1-Chloronaphthalene	2021/11/15	48	30 - 130	48	30 - 130	<1.0	ug/L	NC	40		
7700389	1-Methylnaphthalene	2021/11/15	59	30 - 130	59	30 - 130	<0.20	ug/L	NC	40		
7700389	2,3,4,5-Tetrachlorophenol	2021/11/15	72	10 - 130	68	10 - 130	<0.40	ug/L	NC	40		
7700389	2,3,4,6-Tetrachlorophenol	2021/11/15	88	10 - 130	86	10 - 130	<0.50	ug/L	NC	40		
7700389	2,3,4-Trichlorophenol	2021/11/15	72	10 - 130	72	10 - 130	<0.50	ug/L	NC	40		
7700389	2,3,5,6-Tetrachlorophenol	2021/11/15	85	10 - 130	89	10 - 130	<0.50	ug/L	NC	40		
7700389	2,3,5-Trichlorophenol	2021/11/15	79	10 - 130	82	10 - 130	<0.50	ug/L	NC	40		
7700389	2,3,6-Trichlorophenol	2021/11/15	75	10 - 130	76	10 - 130	<0.50	ug/L	NC	40		
7700389	2,3-Dichlorophenol	2021/11/15	62	10 - 130	62	10 - 130	<0.50	ug/L	NC	40		
7700389	2,4,5-Trichlorophenol	2021/11/15	83	10 - 130	81	10 - 130	<0.50	ug/L	NC	40		
7700389	2,4,6-Trichlorophenol	2021/11/15	79	10 - 130	79	10 - 130	<0.50	ug/L	NC	40		
7700389	2,4-Dichlorophenol	2021/11/15	66	10 - 130	71	10 - 130	<0.30	ug/L	NC	40		
7700389	2,4-Dimethylphenol	2021/11/15	49	10 - 130	53	10 - 130	<0.50	ug/L	NC	40		
7700389	2,4-Dinitrophenol	2021/11/15	70	10 - 130	79	10 - 130	<2.0	ug/L	NC	40		
7700389	2,4-Dinitrotoluene	2021/11/15	80	30 - 130	82	30 - 130	<0.50	ug/L	NC	40		
7700389	2,5-Dichlorophenol	2021/11/15	68	10 - 130	64	10 - 130	<0.50	ug/L	NC	40		



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QUALITY ASSURANCE REPORT(CONT'D)

Terrapure Environmental

Client Project #: GW

Sampler Initials: CR

QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
7700389	2,6-Dichlorophenol	2021/11/15	63	10 - 130	64	10 - 130	<0.50	ug/L	NC	40		
7700389	2,6-Dinitrotoluene	2021/11/15	73	30 - 130	75	30 - 130	<0.50	ug/L	NC	40		
7700389	2-Chloronaphthalene	2021/11/15	65	30 - 130	63	30 - 130	<0.50	ug/L	NC	40		
7700389	2-Chlorophenol	2021/11/15	63	10 - 130	65	10 - 130	<0.30	ug/L	NC	40		
7700389	2-Methylnaphthalene	2021/11/15	57	30 - 130	55	30 - 130	<0.20	ug/L	NC	40		
7700389	2-Nitrophenol	2021/11/15	72	10 - 130	72	10 - 130	<0.50	ug/L	NC	40		
7700389	3,3'-Dichlorobenzidine	2021/11/15	80	30 - 130	76	30 - 130	<0.50	ug/L	NC	40		
7700389	3,4,5-Trichlorophenol	2021/11/15	78	10 - 130	76	10 - 130	<0.50	ug/L	NC	40		
7700389	3,4-Dichlorophenol	2021/11/15	80	10 - 130	78	10 - 130	<0.50	ug/L	NC	40		
7700389	3,5-Dichlorophenol	2021/11/15	91	10 - 130	90	10 - 130	<0.50	ug/L	NC	40		
7700389	4,6-Dinitro-2-methylphenol	2021/11/15	100	10 - 130	103	10 - 130	<2.0	ug/L	NC	40		
7700389	4-Bromophenyl phenyl ether	2021/11/15	66	30 - 130	64	30 - 130	<0.30	ug/L	NC	40		
7700389	4-Chloro-3-Methylphenol	2021/11/15	66	10 - 130	66	10 - 130	<0.50	ug/L	NC	40		
7700389	4-Chlorophenyl phenyl ether	2021/11/15	63	30 - 130	62	30 - 130	<0.50	ug/L	NC	40		
7700389	4-Nitrophenol	2021/11/15	28	10 - 130	29	10 - 130	<1.4	ug/L	NC	40		
7700389	5-Nitroacenaphthene	2021/11/15	87	30 - 130	87	30 - 130	<1.0	ug/L	NC	40		
7700389	Acenaphthene	2021/11/15	71	30 - 130	70	30 - 130	<0.20	ug/L	NC	40		
7700389	Acenaphthylene	2021/11/15	71	30 - 130	70	30 - 130	<0.20	ug/L	NC	40		
7700389	Anthracene	2021/11/15	75	30 - 130	74	30 - 130	<0.20	ug/L	NC	40		
7700389	Benzo(a)anthracene	2021/11/15	86	30 - 130	84	30 - 130	<0.20	ug/L	NC	40		
7700389	Benzo(a)pyrene	2021/11/15	88	30 - 130	90	30 - 130	<0.20	ug/L	NC	40		
7700389	Benzo(b,j)fluoranthene	2021/11/15	78	30 - 130	83	30 - 130	<0.20	ug/L	NC	40		
7700389	Benzo(g,h,i)perylene	2021/11/15	76	30 - 130	81	30 - 130	<0.20	ug/L	NC	40		
7700389	Benzo(k)fluoranthene	2021/11/15	87	30 - 130	82	30 - 130	<0.20	ug/L	NC	40		
7700389	Benzyl butyl phthalate	2021/11/15	85	30 - 130	84	30 - 130	<0.50	ug/L	NC	40		
7700389	Biphenyl	2021/11/15	66	30 - 130	65	30 - 130	<0.50	ug/L	NC	40		
7700389	Bis(2-chloroethoxy)methane	2021/11/15	60	30 - 130	61	30 - 130	<0.50	ug/L	NC	40		
7700389	Bis(2-chloroethyl)ether	2021/11/15	66	30 - 130	69	30 - 130	<0.50	ug/L	NC	40		
7700389	Bis(2-chloroisopropyl)ether	2021/11/15	59	30 - 130	61	30 - 130	<0.50	ug/L	NC	40		
7700389	Bis(2-ethylhexyl)phthalate	2021/11/15	84	30 - 130	83	30 - 130	<2.0	ug/L	NC	40		
7700389	Chrysene	2021/11/15	83	30 - 130	88	30 - 130	<0.20	ug/L	NC	40		



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QUALITY ASSURANCE REPORT(CONT'D)

Terrapure Environmental

Client Project #: GW

Sampler Initials: CR

QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
7700389	Dibenzo(a,h)anthracene	2021/11/15	85	30 - 130	87	30 - 130	<0.20	ug/L	NC	40		
7700389	Diethyl phthalate	2021/11/15	76	30 - 130	75	30 - 130	<1.0	ug/L	NC	40		
7700389	Dimethyl phthalate	2021/11/15	78	30 - 130	76	30 - 130	<1.0	ug/L	NC	40		
7700389	Di-N-butyl phthalate	2021/11/15	85	30 - 130	84	30 - 130	<2.0	ug/L	NC	40		
7700389	di-n-octyl phthalate	2021/11/15	89	30 - 130	88	30 - 130	<0.80	ug/L	NC	40		
7700389	Diphenyl Ether	2021/11/15	61	30 - 130	60	30 - 130	<0.30	ug/L	NC	40		
7700389	Fluoranthene	2021/11/15	81	30 - 130	79	30 - 130	<0.20	ug/L	NC	40		
7700389	Fluorene	2021/11/15	77	30 - 130	77	30 - 130	<0.20	ug/L	NC	40		
7700389	Hexachlorobenzene	2021/11/15	66	30 - 130	68	30 - 130	<0.50	ug/L	NC	40		
7700389	Hexachlorobutadiene	2021/11/15	41	30 - 130	43	30 - 130	<0.40	ug/L	NC	40		
7700389	Hexachlorocyclopentadiene	2021/11/15	54	30 - 130	58	30 - 130	<2.0	ug/L	NC	40		
7700389	Hexachloroethane	2021/11/15	43	30 - 130	46	30 - 130	<0.50	ug/L	NC	40		
7700389	Indeno(1,2,3-cd)pyrene	2021/11/15	80	30 - 130	82	30 - 130	<0.20	ug/L	NC	40		
7700389	Isophorone	2021/11/15	72	30 - 130	71	30 - 130	<0.50	ug/L	NC	40		
7700389	m/p-Cresol	2021/11/15	54	10 - 130	53	10 - 130	<0.50	ug/L	NC	40		
7700389	Naphthalene	2021/11/15	52	30 - 130	52	30 - 130	<0.20	ug/L	NC	40		
7700389	Nitrobenzene	2021/11/15	64	30 - 130	66	30 - 130	<0.50	ug/L	NC	40		
7700389	Nitrosodiphenylamine/Diphenylamine	2021/11/15	97	30 - 130	97	30 - 130	<1.0	ug/L	NC	40		
7700389	N-Nitroso-di-n-propylamine	2021/11/15	91	30 - 130	92	30 - 130	<0.50	ug/L	NC	40		
7700389	o-Cresol	2021/11/15	58	10 - 130	60	10 - 130	<0.50	ug/L	NC	40		
7700389	p-Chloroaniline	2021/11/15	77	30 - 130	82	30 - 130	<1.0	ug/L	NC	40		
7700389	Pentachlorobenzene	2021/11/15	54	30 - 130	55	30 - 130	<0.50	ug/L	NC	40		
7700389	Pentachlorophenol	2021/11/15	77	10 - 130	79	10 - 130	<1.0	ug/L	NC	40		
7700389	Perylene	2021/11/15	80	30 - 130	81	30 - 130	<0.20	ug/L	NC	40		
7700389	Phenanthrene	2021/11/15	79	30 - 130	78	30 - 130	<0.20	ug/L	NC	40		
7700389	Phenol	2021/11/15	28	10 - 130	28	10 - 130	<0.50	ug/L	NC	40		



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QUALITY ASSURANCE REPORT(CONT'D)

Terrapure Environmental

Client Project #: GW

Sampler Initials: CR

QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
7700389	Pyrene	2021/11/15	90	30 - 130	90	30 - 130	<0.20	ug/L	NC	40		

N/A = Not Applicable

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

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

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

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

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

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

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

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

(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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Bureau Veritas Job #: C1W8324
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Terrapure Environmental
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VALIDATION SIGNATURE PAGE

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

Eva Pranjic


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

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



Bureau Veritas Laboratories
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08-Nov-21 17:13

Jolanta Goralczyk
C1W8324

INVOICE TO:
Company Name: #16786 Terrapure Environmental
Attention: Accounting
Address: 65 Green Mountain Rd West
Stoney Creek ON L8J 1X5
Tel: (905) 561-0305 Fax: (905) 561-1674
Email: kbailey@terrapureenv.com

REPORT TO:
Company Name:
Attention: Brad Mullin - GHD Reporting
Address:
Tel:
Email: bmullin@terrapureenv.com; dtaylor2@terrapureenv.com

PROJECT INFORMATION:
Quotation #: B60569
P.O. #:
Project: GW
Project Name: JKX ENV-834
Site #:
Sampled By:

Only:
Bottle Order #: 847927
Project Manager: Jolanta Goralczyk
Barcode: C#847927-16-01

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

Regulation 153 (2011)		Other Regulations		Special Instructions
<input type="checkbox"/> Table 1	<input type="checkbox"/> Res/Park	<input type="checkbox"/> Medium/Fine	<input type="checkbox"/> CCME	
<input type="checkbox"/> Table 2	<input type="checkbox"/> Ind/Comm	<input type="checkbox"/> Coarse	<input type="checkbox"/> Reg 558	
<input type="checkbox"/> Table 3	<input type="checkbox"/> Agr/Other	<input type="checkbox"/> For RSC	<input type="checkbox"/> MISA	
<input type="checkbox"/> Table			<input type="checkbox"/> PWQO	
			<input type="checkbox"/> Other	

ANALYSIS REQUESTED (PLEASE BE SPECIFIC)

Field Filtered (please circle): Metals / Hg / Cr / V	List "A" GW Monitoring	List "B" GW Monitoring	Biochemical Oxygen Demand (BOD)																	
---	------------------------	------------------------	---------------------------------	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

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

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

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

Include Criteria on Certificate of Analysis (Y/N)?					Matrix	Field Filtered (please circle): Metals / Hg / Cr / V	List "A" GW Monitoring	List "B" GW Monitoring	Biochemical Oxygen Demand (BOD)												# of Bottles	Comments	
Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled																				
1	9-I	21/11/5	N/a	GW	Y	X															6		
2	P10-V			GW	Y	X	X															13	
3	P4-IV			GW	Y	X																6	
4	CW3			GW	Y	X																6	
5	CW16			GW	Y	X																6	
6	CW5R			GW	Y	X																6	
7	L1			GW	Y	X																6	
8	M4			GW	Y	X																6	
9	M5R			GW	Y	X																6	
10	P8-I			GW	Y	X																6	

RELINQUISHED BY: (Signature/Print) C. Richardson / Cooper Richardson	Date: (YY/MM/DD) 21/11/18	Time 9:30	RECEIVED BY: (Signature/Print) K.H. McQueen	Date: (YY/MM/DD) 22/11/18	Time 17:13	# jars used and not submitted	Laboratory Use Only					
							Time Sensitive	Temperature (°C) on Receipt REFE PRACTIC	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.

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

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

White: BV Labs Yellow: Client



INVOICE TO:		REPORT TO:		PROJECT INFORMATION:		Laboratory Use Only:	
Company Name: #16786 Terrapure Environmental		Company Name: Brad Mullin - GHD Reporting		Quotation #: B60569		BV Labs Job #:	
Attention: Accounting		Attention: Brad Mullin - GHD Reporting		P.O. #:		Bottle Order #:	
Address: 65 Green Mountain Rd West		Address: Stoney Creek ON L8J 1X5		Project: GW		847927	
Tel: (905) 561-0305 Fax: (905) 561-1674		Tel: Fax:		Project Name:		COC #:	
Email: kbailey@terrapureenv.com		Email: bmullin@terrapureenv.com; dtaylor2@terrapureenv.com		Site #:		Project Manager:	
				Sampled By:		Joianta 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	List "B" GW Monitoring	Biochemical Oxygen Demand (BOD)					Regular (Standard) TAT: <i>(will be applied if Rush TAT is not specified)</i> Standard TAT = 5-7 Working days for most tests. <i>Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details.</i>	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"/>													
Include Criteria on Certificate of Analysis (Y/N)?																		
Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix														
1	35-V 47-IV	21/11/15	N/A	GW	Y	X											7	
2	35-V G11			GW	Y	X											6	
3	35-V1 G13			GW	Y	X											6	
4	35-VH 3-I			GW	Y	X											6	
5	36-VR 40-I			GW	Y	X											6	
6	36-VR 56-I			GW	Y	X											6	
7	36-VR 51-V			GW	Y	X	X										13	
8	36-VR 29-I			GW	Y	X											6	
9	36-VR 29-II			GW	Y	X											6	
10	40-V 29-IV			GW	Y	X											6	

* RELINQUISHED BY: (Signature/Print) C. Richardson / Cooper Richardson		Date: (YY/MM/DD) 21/11/18	Time 9:30	RECEIVED BY: (Signature/Print) S. e. Pagan		Date: (YY/MM/DD)	Time	# jars used and not submitted	Laboratory Use Only			
Time Sensitive		Temperature (°C) on Recept		Custody Seal Present		Yes		No				
				Intact								

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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



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

08-Nov-21 17:13

Jolanta Goralczyk

C1W8324

JKX ENV-834

Only:

Bottle Order #: 847927
Project Manager: Jolanta Goralczyk

INVOICE TO:
Company Name: #16786 Terrapure Environmental
Attention: Accounting
Address: 65 Green Mountain Rd West
Stoney Creek ON L8J 1X5
Tel: (905) 561-0305 Fax: (905) 561-1674
Email: kbailey@terrapureenv.com

REPORT TO:
Company Name:
Attention: Brad Mullin - GHD Reporting
Address:
Tel: Fax:
Email: bmullin@terrapureenv.com; dtaylor2@terrapureenv.com

PROJECT INFORMATION:
Quotation #: B60569
P.O. #:
Project: GW
Project Name:
Site #:
Sampled By:

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

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

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

Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix
1	32-II	21/11/5	N/A	GW
2	P15	21/11/8	N/A	GW
3				GW
4				GW
5				GW
6				GW
7				GW
8				GW
9				GW
10				GW

Field Filtered (please circle): Metals / Hg / Cr-VI	List 'A' GW Monitoring	List 'B' GW Monitoring	Biochemical Oxygen Demand (BOD)
Y	X		X
N/A			X
	X		
	X		
	X		
	X		
	X		
	X		
	X		
	X		

ANALYSIS REQUESTED (PLEASE BE SPECIFIC)

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

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

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

# of Bottles	Comments
7	BOD Sampled Monday Morning (11/8/2021)
1	JOB Number: C1W5119

* RELINQUISHED BY: (Signature/Print) C. Richardson/Cooper Richardson Date: (YY/MM/DD) 21/11/18 Time 9:30 RECEIVED BY: (Signature/Print) See Page 1 Date: (YY/MM/DD) Time # jars used and not submitted

Laboratory Use Only

Time Sensitive	Temperature (°C) on Recept	Custody Seal Present	Yes	No
		Intact		

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

White: BV Labs Yellow: Client



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

Attention: Brad Mullin - GHD Reporting

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

Report Date: 2021/11/17
Report #: R6905860
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C1X0376

Received: 2021/11/09, 16:13

Sample Matrix: Water
Samples Received: 3

Analyses	Quantity	Date		Laboratory Method	Analytical Method
		Extracted	Analyzed		
Alkalinity	3	N/A	2021/11/12	CAM SOP-00448	SM 23 2320 B m
Anions	3	N/A	2021/11/15	CAM SOP-00435	SM 23 4110 B m
Conductivity	3	N/A	2021/11/12	CAM SOP-00414	SM 23 2510 m
Fluoride	3	2021/11/11	2021/11/12	CAM SOP-00449	SM 23 4500-F C m
Hardness (calculated as CaCO3)	3	N/A	2021/11/15	CAM SOP 00102/00408/00447	SM 2340 B
Dissolved Metals by ICPMS	3	N/A	2021/11/12	CAM SOP-00447	EPA 6020B m
Total Ammonia-N	3	N/A	2021/11/14	CAM SOP-00441	USGS I-2522-90 m
Nitrate & Nitrite as Nitrogen in Water (1)	3	N/A	2021/11/12	CAM SOP-00440	SM 23 4500-NO3I/NO2B
pH	3	2021/11/11	2021/11/12	CAM SOP-00413	SM 4500H+ B m
Phenols (4AAP)	3	N/A	2021/11/12	CAM SOP-00444	OMOE E3179 m
Orthophosphate	3	N/A	2021/11/12	CAM SOP-00461	EPA 365.1 m
Total Dissolved Solids	3	2021/11/11	2021/11/13	CAM SOP-00428	SM 23 2540C m
Total Kjeldahl Nitrogen in Water	3	2021/11/11	2021/11/15	CAM SOP-00938	OMOE E3516 m
Total Organic Carbon (TOC) (2)	3	N/A	2021/11/11	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

17 Nov 2021 16:57:24

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

Jolanta Goralczyk, Project Manager

Email: Jolanta.Goralczyk@bureauveritas.com

Phone# (905)817-5751

=====
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

Bureau Veritas Job #: C1X0376
Report Date: 2021/11/17

Terrapure Environmental
Client Project #: GW
Sampler Initials: CR

RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		REP632			REP632			REP633		
Sampling Date		2021/11/08			2021/11/08			2021/11/08		
COC Number		847927-01-01			847927-01-01			847927-01-01		
	UNITS	P3-I	RDL	QC Batch	P3-I Lab-Dup	RDL	QC Batch	52-II	RDL	QC Batch

Calculated Parameters										
Hardness (CaCO3)	mg/L	1600	1.0	7691553				100	1.0	7691553
Inorganics										
Total Ammonia-N	mg/L	18	0.050	7696778	18	0.050	7696778	110 (1)	0.50	7696778
Conductivity	umho/cm	5600	1.0	7696081				8100	1.0	7696081
Total Dissolved Solids	mg/L	3820	10	7695206				4730	20	7695206
Fluoride (F-)	mg/L	0.78	0.10	7696082				1.4	0.10	7696082
Total Kjeldahl Nitrogen (TKN)	mg/L	19	2.0	7695209				96 (1)	5.0	7694671
Total Organic Carbon (TOC)	mg/L	4.9	0.40	7694640				17	0.40	7694640
Orthophosphate (P)	mg/L	<0.010	0.010	7696097				0.011	0.010	7696097
pH	pH	7.46		7696083				8.84		7696083
Phenols-4AAP	mg/L	<0.0010	0.0010	7696407				0.15	0.010	7696407
Alkalinity (Total as CaCO3)	mg/L	230	1.0	7696076				140	1.0	7696076
Nitrite (N)	mg/L	0.016	0.010	7696134				<0.010	0.010	7696134
Dissolved Chloride (Cl-)	mg/L	1200	10	7696135				1900	20	7696135
Nitrate (N)	mg/L	<0.10	0.10	7696134				<0.10	0.10	7696134
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	7696134				<0.10	0.10	7696134
Dissolved Bromide (Br-)	mg/L	<10	10	7696135				<20	20	7696135
Dissolved Sulphate (SO4)	mg/L	1100	10	7696135				590	20	7696135

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

Bureau Veritas Job #: C1X0376
Report Date: 2021/11/17

Terrapure Environmental
Client Project #: GW
Sampler Initials: CR

RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		REP633			REP634		
Sampling Date		2021/11/08			2021/11/08		
COC Number		847927-01-01			847927-01-01		
	UNITS	52-II Lab-Dup	RDL	QC Batch	52-III	RDL	QC Batch
Calculated Parameters							
Hardness (CaCO3)	mg/L				470	1.0	7691553
Inorganics							
Total Ammonia-N	mg/L				0.055	0.050	7696778
Conductivity	umho/cm				870	1.0	7696081
Total Dissolved Solids	mg/L				790	10	7695206
Fluoride (F-)	mg/L				0.42	0.10	7696082
Total Kjeldahl Nitrogen (TKN)	mg/L	94 (1)	5.0	7694671	0.59	0.10	7693210
Total Organic Carbon (TOC)	mg/L				4.5	0.40	7694640
Orthophosphate (P)	mg/L				0.037	0.010	7696097
pH	pH				7.77		7696083
Phenols-4AAP	mg/L				<0.0010	0.0010	7696407
Alkalinity (Total as CaCO3)	mg/L				410	1.0	7696076
Nitrite (N)	mg/L				<0.010	0.010	7696134
Dissolved Chloride (Cl-)	mg/L				6.9	1.0	7696135
Nitrate (N)	mg/L				1.35	0.10	7696134
Nitrate + Nitrite (N)	mg/L				1.35	0.10	7696134
Dissolved Bromide (Br-)	mg/L				<1.0	1.0	7696135
Dissolved Sulphate (SO4)	mg/L				74	1.0	7696135
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

Bureau Veritas Job #: C1X0376
Report Date: 2021/11/17

Terrapure Environmental
Client Project #: GW
Sampler Initials: CR

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Bureau Veritas ID		REP632		REP633		REP634		
Sampling Date		2021/11/08		2021/11/08		2021/11/08		
COC Number		847927-01-01		847927-01-01		847927-01-01		
	UNITS	P3-I	RDL	52-II	RDL	52-III	RDL	QC Batch
Metals								
Dissolved Aluminum (Al)	ug/L	<4.9	4.9	27	4.9	380	4.9	7696463
Dissolved Antimony (Sb)	ug/L	<0.50	0.50	<0.50	0.50	<0.50	0.50	7696463
Dissolved Arsenic (As)	ug/L	<1.0	1.0	1.6	1.0	<1.0	1.0	7696463
Dissolved Barium (Ba)	ug/L	25	2.0	17	2.0	50	2.0	7696463
Dissolved Beryllium (Be)	ug/L	<0.40	0.40	<0.40	0.40	<0.40	0.40	7696463
Dissolved Bismuth (Bi)	ug/L	<1.0	1.0	<1.0	1.0	<1.0	1.0	7696463
Dissolved Boron (B)	ug/L	730	10	580	10	31	10	7696463
Dissolved Cadmium (Cd)	ug/L	<0.090	0.090	<0.090	0.090	0.64	0.090	7696463
Dissolved Calcium (Ca)	ug/L	480000	1000	30000	200	120000	200	7696463
Dissolved Chromium (Cr)	ug/L	<5.0	5.0	<5.0	5.0	<5.0	5.0	7696463
Dissolved Cobalt (Co)	ug/L	<0.50	0.50	<0.50	0.50	0.55	0.50	7696463
Dissolved Copper (Cu)	ug/L	<0.90	0.90	<0.90	0.90	3.3	0.90	7696463
Dissolved Iron (Fe)	ug/L	150	100	<100	100	250	100	7696463
Dissolved Lead (Pb)	ug/L	<0.50	0.50	<0.50	0.50	2.1	0.50	7696463
Dissolved Lithium (Li)	ug/L	170	5.0	59	5.0	<5.0	5.0	7696463
Dissolved Magnesium (Mg)	ug/L	97000	50	5900	50	39000	50	7696463
Dissolved Manganese (Mn)	ug/L	98	2.0	<2.0	2.0	56	2.0	7696463
Dissolved Molybdenum (Mo)	ug/L	<0.50	0.50	35	0.50	0.99	0.50	7696463
Dissolved Nickel (Ni)	ug/L	<1.0	1.0	5.0	1.0	4.9	1.0	7696463
Dissolved Phosphorus (P)	ug/L	<100	100	120	100	120	100	7696463
Dissolved Potassium (K)	ug/L	36000	200	94000	200	1300	200	7696463
Dissolved Selenium (Se)	ug/L	<2.0	2.0	2.2	2.0	<2.0	2.0	7696463
Dissolved Silicon (Si)	ug/L	5100	50	6600	50	4600	50	7696463
Dissolved Silver (Ag)	ug/L	<0.090	0.090	<0.090	0.090	<0.090	0.090	7696463
Dissolved Sodium (Na)	ug/L	580000	100	1600000	500	24000	100	7696463
Dissolved Strontium (Sr)	ug/L	8400	1.0	2200	1.0	470	1.0	7696463
Dissolved Tellurium (Te)	ug/L	<1.0	1.0	<1.0	1.0	<1.0	1.0	7696463
Dissolved Thallium (Tl)	ug/L	<0.050	0.050	<0.050	0.050	<0.050	0.050	7696463
Dissolved Tin (Sn)	ug/L	<1.0	1.0	<1.0	1.0	<1.0	1.0	7696463
Dissolved Titanium (Ti)	ug/L	<5.0	5.0	<5.0	5.0	6.4	5.0	7696463
Dissolved Tungsten (W)	ug/L	<1.0	1.0	6.0	1.0	<1.0	1.0	7696463
Dissolved Uranium (U)	ug/L	0.12	0.10	<0.10	0.10	4.3	0.10	7696463
Dissolved Vanadium (V)	ug/L	<0.50	0.50	0.65	0.50	0.80	0.50	7696463
Dissolved Zinc (Zn)	ug/L	<5.0	5.0	<5.0	5.0	520	5.0	7696463
Dissolved Zirconium (Zr)	ug/L	<1.0	1.0	<1.0	1.0	<1.0	1.0	7696463
RDL = Reportable Detection Limit								
QC Batch = Quality Control Batch								



BUREAU
VERITAS

Bureau Veritas Job #: C1X0376
Report Date: 2021/11/17

Terrapure Environmental
Client Project #: GW
Sampler Initials: CR

TEST SUMMARY

Bureau Veritas ID: REP632
Sample ID: P3-I
Matrix: Water

Collected: 2021/11/08
Shipped:
Received: 2021/11/09

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7696076	N/A	2021/11/12	Yogesh Patel
Anions	IC	7696135	N/A	2021/11/15	Fari Dehdezi
Conductivity	AT	7696081	N/A	2021/11/12	Yogesh Patel
Fluoride	ISE	7696082	2021/11/11	2021/11/12	Yogesh Patel
Hardness (calculated as CaCO3)		7691553	N/A	2021/11/15	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7696463	N/A	2021/11/12	Azita Fazaeli
Total Ammonia-N	LACH/NH4	7696778	N/A	2021/11/14	Amanpreet Sappal
Nitrate & Nitrite as Nitrogen in Water	LACH	7696134	N/A	2021/11/12	Chandra Nandlal
pH	AT	7696083	2021/11/11	2021/11/12	Yogesh Patel
Phenols (4AAP)	TECH/PHEN	7696407	N/A	2021/11/12	Deonarine Ramnarine
Orthophosphate	KONE	7696097	N/A	2021/11/12	Avneet Kour Sudan
Total Dissolved Solids	BAL	7695206	2021/11/11	2021/11/13	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7695209	2021/11/11	2021/11/15	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7694640	N/A	2021/11/11	Julianna Castiglione

Bureau Veritas ID: REP632 Dup
Sample ID: P3-I
Matrix: Water

Collected: 2021/11/08
Shipped:
Received: 2021/11/09

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Ammonia-N	LACH/NH4	7696778	N/A	2021/11/14	Amanpreet Sappal

Bureau Veritas ID: REP633
Sample ID: 52-II
Matrix: Water

Collected: 2021/11/08
Shipped:
Received: 2021/11/09

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7696076	N/A	2021/11/12	Yogesh Patel
Anions	IC	7696135	N/A	2021/11/15	Fari Dehdezi
Conductivity	AT	7696081	N/A	2021/11/12	Yogesh Patel
Fluoride	ISE	7696082	2021/11/11	2021/11/12	Yogesh Patel
Hardness (calculated as CaCO3)		7691553	N/A	2021/11/15	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7696463	N/A	2021/11/12	Azita Fazaeli
Total Ammonia-N	LACH/NH4	7696778	N/A	2021/11/14	Amanpreet Sappal
Nitrate & Nitrite as Nitrogen in Water	LACH	7696134	N/A	2021/11/12	Chandra Nandlal
pH	AT	7696083	2021/11/11	2021/11/12	Yogesh Patel
Phenols (4AAP)	TECH/PHEN	7696407	N/A	2021/11/12	Deonarine Ramnarine
Orthophosphate	KONE	7696097	N/A	2021/11/12	Avneet Kour Sudan
Total Dissolved Solids	BAL	7695206	2021/11/11	2021/11/13	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7694671	2021/11/11	2021/11/15	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7694640	N/A	2021/11/11	Julianna Castiglione



BUREAU
VERITAS

Bureau Veritas Job #: C1X0376
Report Date: 2021/11/17

Terrapure Environmental
Client Project #: GW
Sampler Initials: CR

TEST SUMMARY

Bureau Veritas ID: REP633 Dup
Sample ID: 52-II
Matrix: Water

Collected: 2021/11/08
Shipped:
Received: 2021/11/09

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Kjeldahl Nitrogen in Water	SKAL	7694671	2021/11/11	2021/11/15	Massarat Jan

Bureau Veritas ID: REP634
Sample ID: 52-III
Matrix: Water

Collected: 2021/11/08
Shipped:
Received: 2021/11/09

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7696076	N/A	2021/11/12	Yogesh Patel
Anions	IC	7696135	N/A	2021/11/15	Fari Dehdezi
Conductivity	AT	7696081	N/A	2021/11/12	Yogesh Patel
Fluoride	ISE	7696082	2021/11/11	2021/11/12	Yogesh Patel
Hardness (calculated as CaCO3)		7691553	N/A	2021/11/15	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7696463	N/A	2021/11/12	Azita Fazaeli
Total Ammonia-N	LACH/NH4	7696778	N/A	2021/11/14	Amanpreet Sappal
Nitrate & Nitrite as Nitrogen in Water	LACH	7696134	N/A	2021/11/12	Chandra Nandlal
pH	AT	7696083	2021/11/11	2021/11/12	Yogesh Patel
Phenols (4AAP)	TECH/PHEN	7696407	N/A	2021/11/12	Deonarine Ramnarine
Orthophosphate	KONE	7696097	N/A	2021/11/12	Avneet Kour Sudan
Total Dissolved Solids	BAL	7695206	2021/11/11	2021/11/13	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7693210	2021/11/11	2021/11/15	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7694640	N/A	2021/11/11	Julianna Castiglione



GENERAL COMMENTS

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

Package 1	2.3°C
-----------	-------

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

Sample REP633 [52-II] : TKN < Ammonia: Both values fall within the method uncertainty for duplicates and are likely equivalent.

Results relate only to the items tested.



BUREAU
VERITAS

Bureau Veritas Job #: C1X0376

Report Date: 2021/11/17

QUALITY ASSURANCE REPORT

Terrapure Environmental

Client Project #: GW

Sampler Initials: CR

QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
7693210	Total Kjeldahl Nitrogen (TKN)	2021/11/15	101	80 - 120	99	80 - 120	<0.10	mg/L	NC	20	97	80 - 120
7694640	Total Organic Carbon (TOC)	2021/11/11	96	80 - 120	96	80 - 120	<0.40	mg/L	NC	20		
7694671	Total Kjeldahl Nitrogen (TKN)	2021/11/15	NC	80 - 120	97	80 - 120	<0.10	mg/L	1.7 (1)	20	96	80 - 120
7695206	Total Dissolved Solids	2021/11/13					<10	mg/L	2.6	25	95	90 - 110
7695209	Total Kjeldahl Nitrogen (TKN)	2021/11/15	102	80 - 120	103	80 - 120	<0.10	mg/L	1.2	20	101	80 - 120
7696076	Alkalinity (Total as CaCO3)	2021/11/12			97	85 - 115	<1.0	mg/L	2.2	20		
7696081	Conductivity	2021/11/12			99	85 - 115	<1.0	umho/cm	0.46	25		
7696082	Fluoride (F-)	2021/11/12	44 (2)	80 - 120	101	80 - 120	<0.10	mg/L	NC	20		
7696083	pH	2021/11/12			102	98 - 103			0.37	N/A		
7696097	Orthophosphate (P)	2021/11/12	115	75 - 125	100	80 - 120	<0.010	mg/L	3.7	25		
7696134	Nitrate (N)	2021/11/12	86	80 - 120	91	80 - 120	<0.10	mg/L	1.8	20		
7696134	Nitrite (N)	2021/11/12	102	80 - 120	107	80 - 120	<0.010	mg/L	NC	20		
7696135	Dissolved Bromide (Br-)	2021/11/15	101	80 - 120	104	80 - 120	<1.0	mg/L	NC	20		
7696135	Dissolved Chloride (Cl-)	2021/11/15	96	80 - 120	100	70 - 130	<1.0	mg/L	2.9	20		
7696135	Dissolved Sulphate (SO4)	2021/11/15	98	80 - 120	100	80 - 120	<1.0	mg/L	2.6	20		
7696407	Phenols-4AAP	2021/11/12	101	80 - 120	98	80 - 120	<0.0010	mg/L	7.4	20		
7696463	Dissolved Aluminum (Al)	2021/11/12	100	80 - 120	101	80 - 120	<4.9	ug/L	NC	20		
7696463	Dissolved Antimony (Sb)	2021/11/12	105	80 - 120	104	80 - 120	<0.50	ug/L	NC	20		
7696463	Dissolved Arsenic (As)	2021/11/12	98	80 - 120	98	80 - 120	<1.0	ug/L	NC	20		
7696463	Dissolved Barium (Ba)	2021/11/12	97	80 - 120	100	80 - 120	<2.0	ug/L	4.2	20		
7696463	Dissolved Beryllium (Be)	2021/11/12	98	80 - 120	99	80 - 120	<0.40	ug/L	NC	20		
7696463	Dissolved Bismuth (Bi)	2021/11/12	74 (3)	80 - 120	94	80 - 120	<1.0	ug/L	NC	20		
7696463	Dissolved Boron (B)	2021/11/12	NC	80 - 120	100	80 - 120	<10	ug/L	1.2	20		
7696463	Dissolved Cadmium (Cd)	2021/11/12	99	80 - 120	100	80 - 120	<0.090	ug/L	NC	20		
7696463	Dissolved Calcium (Ca)	2021/11/12	NC	80 - 120	101	80 - 120	<200	ug/L	3.4	20		
7696463	Dissolved Chromium (Cr)	2021/11/12	96	80 - 120	97	80 - 120	<5.0	ug/L	NC	20		
7696463	Dissolved Cobalt (Co)	2021/11/12	94	80 - 120	96	80 - 120	<0.50	ug/L	NC	20		
7696463	Dissolved Copper (Cu)	2021/11/12	93	80 - 120	99	80 - 120	<0.90	ug/L	NC	20		
7696463	Dissolved Iron (Fe)	2021/11/12	95	80 - 120	96	80 - 120	<100	ug/L	NC	20		
7696463	Dissolved Lead (Pb)	2021/11/12	90	80 - 120	93	80 - 120	<0.50	ug/L	NC	20		



BUREAU
VERITAS

Bureau Veritas Job #: C1X0376

Report Date: 2021/11/17

QUALITY ASSURANCE REPORT(CONT'D)

Terrapure Environmental

Client Project #: GW

Sampler Initials: CR

QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
7696463	Dissolved Lithium (Li)	2021/11/12	99	80 - 120	101	80 - 120	<5.0	ug/L	3.0	20		
7696463	Dissolved Magnesium (Mg)	2021/11/12	NC	80 - 120	97	80 - 120	<50	ug/L	2.4	20		
7696463	Dissolved Manganese (Mn)	2021/11/12	97	80 - 120	100	80 - 120	<2.0	ug/L	1.5	20		
7696463	Dissolved Molybdenum (Mo)	2021/11/12	105	80 - 120	101	80 - 120	<0.50	ug/L	NC	20		
7696463	Dissolved Nickel (Ni)	2021/11/12	92	80 - 120	95	80 - 120	<1.0	ug/L	7.3	20		
7696463	Dissolved Phosphorus (P)	2021/11/12	104	80 - 120	117	80 - 120	<100	ug/L	NC	20		
7696463	Dissolved Potassium (K)	2021/11/12	NC	80 - 120	100	80 - 120	<200	ug/L	2.5	20		
7696463	Dissolved Selenium (Se)	2021/11/12	76 (3)	80 - 120	96	80 - 120	<2.0	ug/L	NC	20		
7696463	Dissolved Silicon (Si)	2021/11/12	101	80 - 120	103	80 - 120	<50	ug/L	3.2	20		
7696463	Dissolved Silver (Ag)	2021/11/12	72 (3)	80 - 120	98	80 - 120	<0.090	ug/L	NC	20		
7696463	Dissolved Sodium (Na)	2021/11/12	NC	80 - 120	99	80 - 120	<100	ug/L	1.5	20		
7696463	Dissolved Strontium (Sr)	2021/11/12	NC	80 - 120	100	80 - 120	<1.0	ug/L	0.65	20		
7696463	Dissolved Tellurium (Te)	2021/11/12	76 (3)	80 - 120	102	80 - 120	<1.0	ug/L	NC	20		
7696463	Dissolved Thallium (Tl)	2021/11/12	92	80 - 120	94	80 - 120	<0.050	ug/L	NC	20		
7696463	Dissolved Tin (Sn)	2021/11/12	106	80 - 120	104	80 - 120	<1.0	ug/L	NC	20		
7696463	Dissolved Titanium (Ti)	2021/11/12	97	80 - 120	100	80 - 120	<5.0	ug/L	NC	20		
7696463	Dissolved Tungsten (W)	2021/11/12	97	80 - 120	95	80 - 120	<1.0	ug/L	4.3	20		
7696463	Dissolved Uranium (U)	2021/11/12	99	80 - 120	99	80 - 120	<0.10	ug/L	4.2	20		
7696463	Dissolved Vanadium (V)	2021/11/12	98	80 - 120	98	80 - 120	<0.50	ug/L	18	20		
7696463	Dissolved Zinc (Zn)	2021/11/12	91	80 - 120	97	80 - 120	<5.0	ug/L	NC	20		
7696463	Dissolved Zirconium (Zr)	2021/11/12	108	80 - 120	105	80 - 120	<1.0	ug/L	NC	20		



BUREAU
VERITAS

Bureau Veritas Job #: C1X0376

Report Date: 2021/11/17

QUALITY ASSURANCE REPORT(CONT'D)

Terrapure Environmental

Client Project #: GW

Sampler Initials: CR

QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
7696778	Total Ammonia-N	2021/11/14	NC	75 - 125	101	80 - 120	<0.050	mg/L	0.13	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) TKN < NH4: Both values fall within acceptable RPD limits for duplicates and are likely equivalent.

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

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




BUREAU
VERITAS

Bureau Veritas Job #: C1X0376
Report Date: 2021/11/17

Terrapure Environmental
Client Project #: GW
Sampler Initials: CR

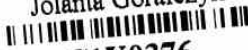
VALIDATION SIGNATURE PAGE

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

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.

Internal Sample Receipt Form										
Sample Identification	Date Sampled	Time Sampled	Matrix	# of Bottles	Comments					
1			W	6						
2			W	6						
3			W	6						
4										
5										
6										
7										
8										
9										
10					09-Nov-21 16:13 Jolanta Goralczyk  C1X0376 ASR ENV-660					
11										
12										
13										
14										
15										
Received by (Signature & Print):	Date	Time	Cooler ID	Temperature	Custody seal Present		Custody Seal Intact		Ice Present	
					YES	NO	YES	NO	YES	NO
Mial NERAL PATEL	2021/11/09	16:13	-	2/2/3	✓		✓		✓	



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

CHAIN OF CUSTODY RECORD

Page 1 of 1

INVOICE TO:		REPORT TO:		PROJECT INFORMATION:		Laboratory Use Only:	
Company Name:	#16786 Terrapure Environmental	Company Name:	Brad Mullin - GHD Reporting	Quotation #:	B60569	BV Labs Job #:	Bottle Order #:
Attention:	Accounting	Attention:	Brad Mullin - GHD Reporting	P.O. #:			
Address:	65 Green Mountain Rd West Stoney Creek ON L6J 1X5	Address:		Project:	GW		
Tel:	(905) 561-0305	Tel:		Project Name:		COC #:	Project Manager:
Fax:	(905) 561-1674	Fax:		Site #:			Jolanta Goralczyk
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	Lab "A" GW Monitoring	Lab "B" GW Monitoring	Biochemical Oxygen Demand (BOD)										Regular (Standard) TAT: (will be applied if Rush TAT is not specified): Standard TAT = 5-7 Working days for most tests.	<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																					
<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	<input type="checkbox"/> Municipality																					
<input type="checkbox"/> Table			<input type="checkbox"/> PWQO	<input type="checkbox"/> Reg 406 Table																					
Include Criteria on Certificate of Analysis (Y/N)?			Other																						
Sample Barcode/Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix																					
1	P3-I	21/11/8	N/A	GW	Y	X																			6
2	52-II	↓	↓	GW	Y	X																			6
3	52-III	↓	↓	GW	Y	X																			6
4				GW		X																			
5				GW		X																			
6				GW		X																			
7				GW		X																			
8				GW		X																			
9				GW		X																			
10				GW		X																			

RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted	Laboratory Use Only								
C. Richardson / Cooper Richardson	21/11/9	9:30	U. T. P. M. M.	22/11/10	15:00		Time Sensitive	Temperature (°C) on Recl:	Custody Seal Present	Yes	No				
								16.7 / 4	Intact	<input checked="" type="checkbox"/>					

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

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

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

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

White: BV Labs Yellow: Client

41 46 9 3 8 3



Your Project #: SW
Your C.O.C. #: 855781-01-01

Attention: Brad Mullin - GHD Reporting

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

Report Date: 2021/11/17
Report #: R6905601
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C1X1064

Received: 2021/11/10, 15:40

Sample Matrix: Water
Samples Received: 5

Analyses	Quantity	Date	Date	Laboratory Method	Analytical Method
		Extracted	Analyzed		
Dissolved Aluminum (0.2 u, clay free)	5	N/A	2021/11/15	CAM SOP-00447	EPA 6020B m
Alkalinity	5	N/A	2021/11/13	CAM SOP-00448	SM 23 2320 B m
Biochemical Oxygen Demand (BOD)	5	2021/11/12	2021/11/17	CAM SOP-00427	SM 23 5210B m
Chloride by Automated Colourimetry	5	N/A	2021/11/12	CAM SOP-00463	SM 23 4500-Cl E m
Dissolved Organic Carbon (DOC) (1)	5	N/A	2021/11/15	CAM SOP-00446	SM 23 5310 B m
Hardness (calculated as CaCO3)	5	N/A	2021/11/16	CAM SOP 00102/00408/00447	SM 2340 B
Mercury in Water by CVAA	5	2021/11/12	2021/11/12	CAM SOP-00453	EPA 7470A m
Total Metals Analysis by ICPMS	3	N/A	2021/11/15	CAM SOP-00447	EPA 6020B m
Total Metals Analysis by ICPMS	2	N/A	2021/11/16	CAM SOP-00447	EPA 6020B m
Total Ammonia-N	5	N/A	2021/11/14	CAM SOP-00441	USGS I-2522-90 m
Nitrate & Nitrite as Nitrogen in Water (2)	1	N/A	2021/11/12	CAM SOP-00440	SM 23 4500-NO3I/NO2B
Nitrate & Nitrite as Nitrogen in Water (2)	4	N/A	2021/11/15	CAM SOP-00440	SM 23 4500-NO3I/NO2B
pH	5	2021/11/11	2021/11/13	CAM SOP-00413	SM 4500H+ B m
Phenols (4AAP)	5	N/A	2021/11/12	CAM SOP-00444	OMOE E3179 m
Sulphate by Automated Colourimetry	5	N/A	2021/11/12	CAM SOP-00464	EPA 375.4 m
Total Phosphorus (Colourimetric)	3	2021/11/12	2021/11/15	CAM SOP-00407	SM 23 4500 P B H m
Total Phosphorus (Colourimetric)	2	2021/11/12	2021/11/17	CAM SOP-00407	SM 23 4500 P B H m
Total Suspended Solids	5	2021/11/12	2021/11/15	CAM SOP-00428	SM 23 2540D m

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

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

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

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



Your Project #: SW
Your C.O.C. #: 855781-01-01

Attention: Brad Mullin - GHD Reporting

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

Report Date: 2021/11/17
Report #: R6905601
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C1X1064

Received: 2021/11/10, 15:40

Encryption Key



**AUTHORIZED REPORT
RAPPORT AUTORISÉ**

Bureau Veritas

17 Nov 2021 15:33:29

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

=====

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

Bureau Veritas Job #: C1X1064
Report Date: 2021/11/17

Terrapure Environmental
Client Project #: SW
Sampler Initials: CR

RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		RET502		RET503			RET503		
Sampling Date		2021/11/09		2021/11/09			2021/11/09		
COC Number		855781-01-01		855781-01-01			855781-01-01		
	UNITS	T-1R	RDL	T-3A	RDL	QC Batch	T-3A Lab-Dup	RDL	QC Batch
Calculated Parameters									
Hardness (CaCO3)	mg/L	410	1.0	670	1.0	7692552			
Inorganics									
Total Ammonia-N	mg/L	37	0.25	1.5	0.050	7698261			
Total BOD	mg/L	7	2	4	2	7696232			
Dissolved Organic Carbon	mg/L	15	0.40	8.0	0.40	7697289			
pH	pH	7.98		7.94		7696133			
Phenols-4AAP	mg/L	0.14	0.0020	<0.0010	0.0010	7696407			
Total Phosphorus	mg/L	0.049	0.004	0.12	0.02	7697253	0.12	0.02	7697253
Total Suspended Solids	mg/L	<10	10	35	10	7696787			
Dissolved Sulphate (SO4)	mg/L	410	5.0	500	5.0	7696066			
Alkalinity (Total as CaCO3)	mg/L	160	1.0	180	1.0	7696131			
Dissolved Chloride (Cl-)	mg/L	1000	10	180	2.0	7696072			
Nitrite (N)	mg/L	0.046	0.010	0.057	0.010	7695954			
Nitrate (N)	mg/L	<0.10	0.10	0.38	0.10	7695954			
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	0.44	0.10	7695954			
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate									



RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		RET504			RET505			RET505		
Sampling Date		2021/11/09			2021/11/09			2021/11/09		
COC Number		855781-01-01			855781-01-01			855781-01-01		
	UNITS	T-3R	RDL	QC Batch	T-15R	RDL	QC Batch	T-15R Lab-Dup	RDL	QC Batch
Calculated Parameters										
Hardness (CaCO3)	mg/L	500	1.0	7693041	460	1.0	7693042			
Inorganics										
Total Ammonia-N	mg/L	0.32	0.050	7698261	0.090	0.050	7698261			
Total BOD	mg/L	<2	2	7696232	<2	2	7696232			
Dissolved Organic Carbon	mg/L	7.2	0.40	7697289	2.7	0.40	7697289			
pH	pH	7.88		7696133	8.05		7696133			
Phenols-4AAP	mg/L	<0.0010	0.0010	7696407	<0.0010	0.0010	7696407			
Total Phosphorus	mg/L	0.11	0.02	7697253	0.028	0.004	7697253			
Total Suspended Solids	mg/L	<10	10	7696787	<10	10	7696787	<10	10	7696787
Dissolved Sulphate (SO4)	mg/L	370	2.0	7696066	260	1.0	7696066			
Alkalinity (Total as CaCO3)	mg/L	170	1.0	7696131	210	1.0	7696131			
Dissolved Chloride (Cl-)	mg/L	120	1.0	7696072	100	1.0	7696072			
Nitrite (N)	mg/L	<0.010	0.010	7695936	0.013	0.010	7695954			
Nitrate (N)	mg/L	0.10	0.10	7695936	0.63	0.10	7695954			
Nitrate + Nitrite (N)	mg/L	0.10	0.10	7695936	0.64	0.10	7695954			
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate										



RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		RET506		
Sampling Date		2021/11/09		
COC Number		855781-01-01		
	UNITS	T-35	RDL	QC Batch
Calculated Parameters				
Hardness (CaCO3)	mg/L	460	1.0	7693042
Inorganics				
Total Ammonia-N	mg/L	0.099	0.050	7698261
Total BOD	mg/L	<2	2	7696232
Dissolved Organic Carbon	mg/L	2.8	0.40	7697289
pH	pH	8.05		7696133
Phenols-4AAP	mg/L	<0.0010	0.0010	7696407
Total Phosphorus	mg/L	0.027	0.004	7697253
Total Suspended Solids	mg/L	<10	10	7696787
Dissolved Sulphate (SO4)	mg/L	270	1.0	7696066
Alkalinity (Total as CaCO3)	mg/L	210	1.0	7696131
Dissolved Chloride (Cl-)	mg/L	110	1.0	7696072
Nitrite (N)	mg/L	0.013	0.010	7695954
Nitrate (N)	mg/L	0.63	0.10	7695954
Nitrate + Nitrite (N)	mg/L	0.65	0.10	7695954
RDL = Reportable Detection Limit QC Batch = Quality Control Batch				



BUREAU
VERITAS

Bureau Veritas Job #: C1X1064
Report Date: 2021/11/17

Terrapure Environmental
Client Project #: SW
Sampler Initials: CR

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Bureau Veritas ID		RET502		RET503			RET503		
Sampling Date		2021/11/09		2021/11/09			2021/11/09		
COC Number		855781-01-01		855781-01-01			855781-01-01		
	UNITS	T-1R	RDL	T-3A	RDL	QC Batch	T-3A Lab-Dup	RDL	QC Batch
Metals									
Dissolved (0.2u) Aluminum (Al)	ug/L	11	5	<5	5	7699355	6	5	7699355
Mercury (Hg)	mg/L	<0.00010	0.00010	<0.00010	0.00010	7696419			
Total Aluminum (Al)	mg/L	0.022	0.0049	0.47	0.0049	7700828			
Total Arsenic (As)	mg/L	0.0030	0.0010	0.0011	0.0010	7700828			
Total Beryllium (Be)	mg/L	<0.00040	0.00040	<0.00040	0.00040	7700828			
Total Boron (B)	mg/L	0.35	0.010	0.38	0.010	7700828			
Total Cadmium (Cd)	mg/L	<0.000090	0.000090	0.00027	0.000090	7700828			
Total Calcium (Ca)	mg/L	120	0.20	200	0.20	7700828			
Total Chromium (Cr)	mg/L	<0.0050	0.0050	<0.0050	0.0050	7700828			
Total Cobalt (Co)	mg/L	<0.00050	0.00050	0.0025	0.00050	7700828			
Total Copper (Cu)	mg/L	<0.00090	0.00090	0.0039	0.00090	7700828			
Total Iron (Fe)	mg/L	0.43	0.10	0.90	0.10	7700828			
Total Lead (Pb)	mg/L	0.00073	0.00050	0.021	0.00050	7700828			
Total Magnesium (Mg)	mg/L	29	0.050	47	0.050	7700828			
Total Manganese (Mn)	mg/L	0.090	0.0020	0.71	0.0020	7700828			
Total Molybdenum (Mo)	mg/L	0.031	0.00050	0.022	0.00050	7700828			
Total Nickel (Ni)	mg/L	0.0070	0.0010	0.014	0.0010	7700828			
Total Selenium (Se)	mg/L	<0.0020	0.0020	<0.0020	0.0020	7700828			
Total Silver (Ag)	mg/L	<0.000090	0.000090	<0.000090	0.000090	7700828			
Total Sodium (Na)	mg/L	700	0.50	160	0.10	7700828			
Total Strontium (Sr)	mg/L	2.0	0.0010	2.0	0.0010	7700828			
Total Vanadium (V)	mg/L	0.0019	0.00050	0.0024	0.00050	7700828			
Total Zinc (Zn)	mg/L	0.020	0.0050	0.061	0.0050	7700828			
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate									



BUREAU
VERITAS

Bureau Veritas Job #: C1X1064
Report Date: 2021/11/17

Terrapure Environmental
Client Project #: SW
Sampler Initials: CR

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Bureau Veritas ID		RET504		RET505		RET506		
Sampling Date		2021/11/09		2021/11/09		2021/11/09		
COC Number		855781-01-01		855781-01-01		855781-01-01		
	UNITS	T-3R	QC Batch	T-15R	QC Batch	T-35	RDL	QC Batch
Metals								
Dissolved (0.2u) Aluminum (Al)	ug/L	<5	7699355	<5	7699355	<5	5	7699355
Mercury (Hg)	mg/L	<0.00010	7696419	<0.00010	7696419	<0.00010	0.00010	7696419
Total Aluminum (Al)	mg/L	0.022	7700828	0.047	7700598	0.052	0.0049	7700828
Total Arsenic (As)	mg/L	<0.0010	7700828	<0.0010	7700598	<0.0010	0.0010	7700828
Total Beryllium (Be)	mg/L	<0.00040	7700828	<0.00040	7700598	<0.00040	0.00040	7700828
Total Boron (B)	mg/L	0.24	7700828	0.10	7700598	0.11	0.010	7700828
Total Cadmium (Cd)	mg/L	0.00069	7700828	0.00012	7700598	0.00022	0.000090	7700828
Total Calcium (Ca)	mg/L	150	7700828	130	7700598	140	0.20	7700828
Total Chromium (Cr)	mg/L	<0.0050	7700828	<0.0050	7700598	<0.0050	0.0050	7700828
Total Cobalt (Co)	mg/L	0.0020	7700828	0.00076	7700598	0.00071	0.00050	7700828
Total Copper (Cu)	mg/L	0.0065	7700828	0.0010	7700598	0.0013	0.00090	7700828
Total Iron (Fe)	mg/L	<0.10	7700828	<0.10	7700598	<0.10	0.10	7700828
Total Lead (Pb)	mg/L	0.0066	7700828	0.00074	7700598	0.00079	0.00050	7700828
Total Magnesium (Mg)	mg/L	34	7700828	33	7700598	33	0.050	7700828
Total Manganese (Mn)	mg/L	0.52	7700828	0.11	7700598	0.12	0.0020	7700828
Total Molybdenum (Mo)	mg/L	0.017	7700828	0.0034	7700598	0.0032	0.00050	7700828
Total Nickel (Ni)	mg/L	0.017	7700828	0.0037	7700598	0.0041	0.0010	7700828
Total Selenium (Se)	mg/L	<0.0020	7700828	<0.0020	7700598	<0.0020	0.0020	7700828
Total Silver (Ag)	mg/L	<0.000090	7700828	<0.000090	7700598	<0.000090	0.000090	7700828
Total Sodium (Na)	mg/L	120	7700828	73	7700598	74	0.10	7700828
Total Strontium (Sr)	mg/L	0.97	7700828	2.6	7700598	2.6	0.0010	7700828
Total Vanadium (V)	mg/L	0.00084	7700828	0.00053	7700598	<0.00050	0.00050	7700828
Total Zinc (Zn)	mg/L	0.063	7700828	0.065	7700598	0.063	0.0050	7700828
RDL = Reportable Detection Limit								
QC Batch = Quality Control Batch								



BUREAU
VERITAS

Bureau Veritas Job #: C1X1064
Report Date: 2021/11/17

Terrapure Environmental
Client Project #: SW
Sampler Initials: CR

TEST SUMMARY

Bureau Veritas ID: RET502
Sample ID: T-1R
Matrix: Water

Collected: 2021/11/09
Shipped:
Received: 2021/11/10

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dissolved Aluminum (0.2 u, clay free)	ICP/MS	7699355	N/A	2021/11/15	Daniel Teclu
Alkalinity	AT	7696131	N/A	2021/11/13	Neil Dassanayake
Biochemical Oxygen Demand (BOD)	DO	7696232	2021/11/12	2021/11/17	Surleen Kaur Romana
Chloride by Automated Colourimetry	KONE	7696072	N/A	2021/11/12	Alina Dobreanu
Dissolved Organic Carbon (DOC)	TOCV/NDIR	7697289	N/A	2021/11/15	Julianna Castiglione
Hardness (calculated as CaCO3)		7692552	N/A	2021/11/16	Automated Statchk
Mercury in Water by CVAA	CV/AA	7696419	2021/11/12	2021/11/12	Meghaben Patel
Total Metals Analysis by ICPMS	ICP/MS	7700828	N/A	2021/11/16	Azita Fazaeli
Total Ammonia-N	LACH/NH4	7698261	N/A	2021/11/14	Amanpreet Sappal
Nitrate & Nitrite as Nitrogen in Water	LACH	7695954	N/A	2021/11/15	Chandra Nandlal
pH	AT	7696133	2021/11/11	2021/11/13	Neil Dassanayake
Phenols (4AAP)	TECH/PHEN	7696407	N/A	2021/11/12	Deonarine Ramnarine
Sulphate by Automated Colourimetry	KONE	7696066	N/A	2021/11/12	Alina Dobreanu
Total Phosphorus (Colourimetric)	LACH/P	7697253	2021/11/12	2021/11/15	Shivani Shivani
Total Suspended Solids	BAL	7696787	2021/11/12	2021/11/15	Shaneil Hall

Bureau Veritas ID: RET503
Sample ID: T-3A
Matrix: Water

Collected: 2021/11/09
Shipped:
Received: 2021/11/10

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dissolved Aluminum (0.2 u, clay free)	ICP/MS	7699355	N/A	2021/11/15	Daniel Teclu
Alkalinity	AT	7696131	N/A	2021/11/13	Neil Dassanayake
Biochemical Oxygen Demand (BOD)	DO	7696232	2021/11/12	2021/11/17	Surleen Kaur Romana
Chloride by Automated Colourimetry	KONE	7696072	N/A	2021/11/12	Alina Dobreanu
Dissolved Organic Carbon (DOC)	TOCV/NDIR	7697289	N/A	2021/11/15	Julianna Castiglione
Hardness (calculated as CaCO3)		7692552	N/A	2021/11/16	Automated Statchk
Mercury in Water by CVAA	CV/AA	7696419	2021/11/12	2021/11/12	Meghaben Patel
Total Metals Analysis by ICPMS	ICP/MS	7700828	N/A	2021/11/15	Azita Fazaeli
Total Ammonia-N	LACH/NH4	7698261	N/A	2021/11/14	Amanpreet Sappal
Nitrate & Nitrite as Nitrogen in Water	LACH	7695954	N/A	2021/11/15	Chandra Nandlal
pH	AT	7696133	2021/11/11	2021/11/13	Neil Dassanayake
Phenols (4AAP)	TECH/PHEN	7696407	N/A	2021/11/12	Deonarine Ramnarine
Sulphate by Automated Colourimetry	KONE	7696066	N/A	2021/11/12	Alina Dobreanu
Total Phosphorus (Colourimetric)	LACH/P	7697253	2021/11/12	2021/11/17	Shivani Shivani
Total Suspended Solids	BAL	7696787	2021/11/12	2021/11/15	Shaneil Hall

Bureau Veritas ID: RET503 Dup
Sample ID: T-3A
Matrix: Water

Collected: 2021/11/09
Shipped:
Received: 2021/11/10

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dissolved Aluminum (0.2 u, clay free)	ICP/MS	7699355	N/A	2021/11/15	Daniel Teclu
Total Phosphorus (Colourimetric)	LACH/P	7697253	2021/11/12	2021/11/17	Shivani Shivani



BUREAU
VERITAS

Bureau Veritas Job #: C1X1064
Report Date: 2021/11/17

Terrapure Environmental
Client Project #: SW
Sampler Initials: CR

TEST SUMMARY

Bureau Veritas ID: RET504
Sample ID: T-3R
Matrix: Water

Collected: 2021/11/09
Shipped:
Received: 2021/11/10

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dissolved Aluminum (0.2 u, clay free)	ICP/MS	7699355	N/A	2021/11/15	Daniel Teclu
Alkalinity	AT	7696131	N/A	2021/11/13	Neil Dassanayake
Biochemical Oxygen Demand (BOD)	DO	7696232	2021/11/12	2021/11/17	Surleen Kaur Romana
Chloride by Automated Colourimetry	KONE	7696072	N/A	2021/11/12	Alina Dobreanu
Dissolved Organic Carbon (DOC)	TOCV/NDIR	7697289	N/A	2021/11/15	Julianna Castiglione
Hardness (calculated as CaCO3)		7693041	N/A	2021/11/16	Automated Statchk
Mercury in Water by CVAA	CV/AA	7696419	2021/11/12	2021/11/12	Meghaben Patel
Total Metals Analysis by ICPMS	ICP/MS	7700828	N/A	2021/11/16	Azita Fazaeli
Total Ammonia-N	LACH/NH4	7698261	N/A	2021/11/14	Amanpreet Sappal
Nitrate & Nitrite as Nitrogen in Water	LACH	7695936	N/A	2021/11/12	Chandra Nandlal
pH	AT	7696133	2021/11/11	2021/11/13	Neil Dassanayake
Phenols (4AAP)	TECH/PHEN	7696407	N/A	2021/11/12	Deonarine Ramnarine
Sulphate by Automated Colourimetry	KONE	7696066	N/A	2021/11/12	Alina Dobreanu
Total Phosphorus (Colourimetric)	LACH/P	7697253	2021/11/12	2021/11/17	Shivani Shivani
Total Suspended Solids	BAL	7696787	2021/11/12	2021/11/15	Shaneil Hall

Bureau Veritas ID: RET505
Sample ID: T-15R
Matrix: Water

Collected: 2021/11/09
Shipped:
Received: 2021/11/10

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dissolved Aluminum (0.2 u, clay free)	ICP/MS	7699355	N/A	2021/11/15	Daniel Teclu
Alkalinity	AT	7696131	N/A	2021/11/13	Neil Dassanayake
Biochemical Oxygen Demand (BOD)	DO	7696232	2021/11/12	2021/11/17	Surleen Kaur Romana
Chloride by Automated Colourimetry	KONE	7696072	N/A	2021/11/12	Alina Dobreanu
Dissolved Organic Carbon (DOC)	TOCV/NDIR	7697289	N/A	2021/11/15	Julianna Castiglione
Hardness (calculated as CaCO3)		7693042	N/A	2021/11/16	Automated Statchk
Mercury in Water by CVAA	CV/AA	7696419	2021/11/12	2021/11/12	Meghaben Patel
Total Metals Analysis by ICPMS	ICP/MS	7700598	N/A	2021/11/15	Azita Fazaeli
Total Ammonia-N	LACH/NH4	7698261	N/A	2021/11/14	Amanpreet Sappal
Nitrate & Nitrite as Nitrogen in Water	LACH	7695954	N/A	2021/11/15	Chandra Nandlal
pH	AT	7696133	2021/11/11	2021/11/13	Neil Dassanayake
Phenols (4AAP)	TECH/PHEN	7696407	N/A	2021/11/12	Deonarine Ramnarine
Sulphate by Automated Colourimetry	KONE	7696066	N/A	2021/11/12	Alina Dobreanu
Total Phosphorus (Colourimetric)	LACH/P	7697253	2021/11/12	2021/11/15	Shivani Shivani
Total Suspended Solids	BAL	7696787	2021/11/12	2021/11/15	Shaneil Hall

Bureau Veritas ID: RET505 Dup
Sample ID: T-15R
Matrix: Water

Collected: 2021/11/09
Shipped:
Received: 2021/11/10

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Suspended Solids	BAL	7696787	2021/11/12	2021/11/15	Shaneil Hall



BUREAU
VERITAS

Bureau Veritas Job #: C1X1064
Report Date: 2021/11/17

Terrapure Environmental
Client Project #: SW
Sampler Initials: CR

TEST SUMMARY

Bureau Veritas ID: RET506
Sample ID: T-35
Matrix: Water

Collected: 2021/11/09
Shipped:
Received: 2021/11/10

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dissolved Aluminum (0.2 u, clay free)	ICP/MS	7699355	N/A	2021/11/15	Daniel Teclu
Alkalinity	AT	7696131	N/A	2021/11/13	Neil Dassanayake
Biochemical Oxygen Demand (BOD)	DO	7696232	2021/11/12	2021/11/17	Surleen Kaur Romana
Chloride by Automated Colourimetry	KONE	7696072	N/A	2021/11/12	Alina Dobreanu
Dissolved Organic Carbon (DOC)	TOCV/NDIR	7697289	N/A	2021/11/15	Julianna Castiglione
Hardness (calculated as CaCO3)		7693042	N/A	2021/11/16	Automated Statchk
Mercury in Water by CVAA	CV/AA	7696419	2021/11/12	2021/11/12	Meghaben Patel
Total Metals Analysis by ICPMS	ICP/MS	7700828	N/A	2021/11/15	Azita Fazaeli
Total Ammonia-N	LACH/NH4	7698261	N/A	2021/11/14	Amanpreet Sappal
Nitrate & Nitrite as Nitrogen in Water	LACH	7695954	N/A	2021/11/15	Chandra Nandlal
pH	AT	7696133	2021/11/11	2021/11/13	Neil Dassanayake
Phenols (4AAP)	TECH/PHEN	7696407	N/A	2021/11/12	Deonarine Ramnarine
Sulphate by Automated Colourimetry	KONE	7696066	N/A	2021/11/12	Alina Dobreanu
Total Phosphorus (Colourimetric)	LACH/P	7697253	2021/11/12	2021/11/15	Shivani Shivani
Total Suspended Solids	BAL	7696787	2021/11/12	2021/11/15	Shaneil Hall



GENERAL COMMENTS

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

Package 1	2.3°C
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Results relate only to the items tested.



BUREAU
VERITAS

Bureau Veritas Job #: C1X1064

Report Date: 2021/11/17

QUALITY ASSURANCE REPORT

Terrapure Environmental

Client Project #: SW

Sampler Initials: CR

QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
7695936	Nitrate (N)	2021/11/12	88	80 - 120	93	80 - 120	<0.10	mg/L	NC	20		
7695936	Nitrite (N)	2021/11/12	102	80 - 120	106	80 - 120	<0.010	mg/L	0	20		
7695954	Nitrate (N)	2021/11/15	109	80 - 120	102	80 - 120	<0.10	mg/L	0.35	20		
7695954	Nitrite (N)	2021/11/15	110	80 - 120	104	80 - 120	<0.010	mg/L	NC	20		
7696066	Dissolved Sulphate (SO4)	2021/11/12	NC	75 - 125	100	80 - 120	<1.0	mg/L	0.96	20		
7696072	Dissolved Chloride (Cl-)	2021/11/12	NC	80 - 120	100	80 - 120	<1.0	mg/L	0.47	20		
7696131	Alkalinity (Total as CaCO3)	2021/11/13			97	85 - 115	<1.0	mg/L	1.1	20		
7696133	pH	2021/11/13			102	98 - 103			0.10	N/A		
7696232	Total BOD	2021/11/17					<2	mg/L	NC	30	89	80 - 120
7696407	Phenols-4AAP	2021/11/12	101	80 - 120	98	80 - 120	<0.0010	mg/L	7.4	20		
7696419	Mercury (Hg)	2021/11/12	103	75 - 125	100	80 - 120	<0.00010	mg/L	NC	20		
7696787	Total Suspended Solids	2021/11/15					<10	mg/L	NC	25	96	85 - 115
7697253	Total Phosphorus	2021/11/17	NC	80 - 120	92	80 - 120	<0.004	mg/L	3.8	20	93	80 - 120
7697289	Dissolved Organic Carbon	2021/11/15	94	80 - 120	97	80 - 120	<0.40	mg/L	0.16	20		
7698261	Total Ammonia-N	2021/11/14	105	75 - 125	102	80 - 120	<0.050	mg/L	NC	20		
7699355	Dissolved (0.2u) Aluminum (Al)	2021/11/15	106	80 - 120	104	80 - 120	<5	ug/L	18	20		
7700598	Total Aluminum (Al)	2021/11/15	103	80 - 120	99	80 - 120	<0.0049	mg/L	6.7	20		
7700598	Total Arsenic (As)	2021/11/15	98	80 - 120	98	80 - 120	<0.0010	mg/L	0.26	20		
7700598	Total Beryllium (Be)	2021/11/15	101	80 - 120	98	80 - 120	<0.00040	mg/L	NC	20		
7700598	Total Boron (B)	2021/11/15	97	80 - 120	94	80 - 120	<0.010	mg/L	5.3	20		
7700598	Total Cadmium (Cd)	2021/11/15	101	80 - 120	96	80 - 120	<0.000090	mg/L	NC	20		
7700598	Total Calcium (Ca)	2021/11/15	NC	80 - 120	99	80 - 120	<0.20	mg/L	1.9	20		
7700598	Total Chromium (Cr)	2021/11/15	97	80 - 120	94	80 - 120	<0.0050	mg/L	NC	20		
7700598	Total Cobalt (Co)	2021/11/15	97	80 - 120	94	80 - 120	<0.00050	mg/L	3.5	20		
7700598	Total Copper (Cu)	2021/11/15	98	80 - 120	96	80 - 120	<0.00090	mg/L	5.6	20		
7700598	Total Iron (Fe)	2021/11/15	97	80 - 120	94	80 - 120	<0.10	mg/L	0.53	20		
7700598	Total Lead (Pb)	2021/11/15	94	80 - 120	91	80 - 120	<0.00050	mg/L	0.58	20		
7700598	Total Magnesium (Mg)	2021/11/15	96	80 - 120	96	80 - 120	<0.050	mg/L	0.94	20		
7700598	Total Manganese (Mn)	2021/11/15	99	80 - 120	96	80 - 120	<0.0020	mg/L	1.6	20		
7700598	Total Molybdenum (Mo)	2021/11/15	102	80 - 120	100	80 - 120	<0.00050	mg/L	12	20		
7700598	Total Nickel (Ni)	2021/11/15	97	80 - 120	94	80 - 120	<0.0010	mg/L	5.5	20		



BUREAU
VERITAS

Bureau Veritas Job #: C1X1064

Report Date: 2021/11/17

QUALITY ASSURANCE REPORT(CONT'D)

Terrapure Environmental

Client Project #: SW

Sampler Initials: CR

QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
7700598	Total Selenium (Se)	2021/11/15	102	80 - 120	100	80 - 120	<0.0020	mg/L	NC	20		
7700598	Total Silver (Ag)	2021/11/15	100	80 - 120	97	80 - 120	<0.000090	mg/L	NC	20		
7700598	Total Sodium (Na)	2021/11/15	95	80 - 120	96	80 - 120	<0.10	mg/L	1.6	20		
7700598	Total Strontium (Sr)	2021/11/15	97	80 - 120	95	80 - 120	<0.0010	mg/L	0.48	20		
7700598	Total Vanadium (V)	2021/11/15	99	80 - 120	96	80 - 120	<0.00050	mg/L	NC	20		
7700598	Total Zinc (Zn)	2021/11/15	99	80 - 120	99	80 - 120	<0.0050	mg/L	NC	20		
7700828	Total Aluminum (Al)	2021/11/15	NC	80 - 120	101	80 - 120	<0.0049	mg/L	3.8	20		
7700828	Total Arsenic (As)	2021/11/15	99	80 - 120	97	80 - 120	<0.0010	mg/L				
7700828	Total Beryllium (Be)	2021/11/15	101	80 - 120	100	80 - 120	<0.00040	mg/L				
7700828	Total Boron (B)	2021/11/15	96	80 - 120	96	80 - 120	<0.010	mg/L				
7700828	Total Cadmium (Cd)	2021/11/15	100	80 - 120	99	80 - 120	<0.000090	mg/L	NC	20		
7700828	Total Calcium (Ca)	2021/11/15	NC	80 - 120	100	80 - 120	<0.20	mg/L				
7700828	Total Chromium (Cr)	2021/11/15	98	80 - 120	95	80 - 120	<0.0050	mg/L	11	20		
7700828	Total Cobalt (Co)	2021/11/15	97	80 - 120	96	80 - 120	<0.00050	mg/L				
7700828	Total Copper (Cu)	2021/11/15	100	80 - 120	98	80 - 120	<0.00090	mg/L	0.59	20		
7700828	Total Iron (Fe)	2021/11/15	96	80 - 120	95	80 - 120	<0.10	mg/L	2.2	20		
7700828	Total Lead (Pb)	2021/11/15	94	80 - 120	93	80 - 120	<0.00050	mg/L	3.7	20		
7700828	Total Magnesium (Mg)	2021/11/15	NC	80 - 120	95	80 - 120	<0.050	mg/L				
7700828	Total Manganese (Mn)	2021/11/15	100	80 - 120	98	80 - 120	<0.0020	mg/L				
7700828	Total Molybdenum (Mo)	2021/11/15	104	80 - 120	101	80 - 120	<0.00050	mg/L				
7700828	Total Nickel (Ni)	2021/11/15	96	80 - 120	96	80 - 120	<0.0010	mg/L	6.4	20		
7700828	Total Selenium (Se)	2021/11/15	100	80 - 120	102	80 - 120	<0.0020	mg/L				
7700828	Total Silver (Ag)	2021/11/15	99	80 - 120	98	80 - 120	<0.000090	mg/L				
7700828	Total Sodium (Na)	2021/11/15	NC	80 - 120	96	80 - 120	<0.10	mg/L				
7700828	Total Strontium (Sr)	2021/11/15	104	80 - 120	97	80 - 120	<0.0010	mg/L				
7700828	Total Vanadium (V)	2021/11/15	101	80 - 120	97	80 - 120	<0.00050	mg/L				



BUREAU
VERITAS

Bureau Veritas Job #: C1X1064

Report Date: 2021/11/17

QUALITY ASSURANCE REPORT(CONT'D)

Terrapure Environmental

Client Project #: SW

Sampler Initials: CR

QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
7700828	Total Zinc (Zn)	2021/11/15	100	80 - 120	99	80 - 120	<0.0050	mg/L	2.1	20		

N/A = Not Applicable

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

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

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

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

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

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

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




BUREAU
VERITAS

Bureau Veritas Job #: C1X1064
Report Date: 2021/11/17

Terrapure Environmental
Client Project #: SW
Sampler Initials: CR

VALIDATION SIGNATURE PAGE

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

Eva Pranjic


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

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



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

10-Nov-21 15:40

Page | of |

Jolanta Goralczyk

INVOICE TO:		REPORT TO:		PROJECT INFORMATION:		Bottle Order #:	
Company Name: #16786 Terrapure Environmental		Company Name:		Quotation #: B60569		855781	
Attention: Accounting		Attention: Brad Mullin - GHD Reporting		P.O. #:		Project Manager:	
Address: 65 Green Mountain Rd West		Address:		Project: SW		Jolanta Goralczyk	
Address: Stoney Creek ON L8J 1X5		Address:		Project Name: ENV_R10		COC #:	
Tel: (905) 561-0305 Fax: (905) 561-1674		Tel:		Site #:		C#855781-01-01	
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 BUREAU VERITAS 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														Job Specific Rush TAT (if applies to entire submission)				
<input type="checkbox"/> Table 3	<input type="checkbox"/> Agri/Other	<input type="checkbox"/> For RSC	<input type="checkbox"/> MISA	Municipality _____														Date Required: _____ Time Required: _____				
<input type="checkbox"/> Table _____			<input type="checkbox"/> PWOO	Reg 406 Table _____														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	Field Filtered (please circle): Metals / Cr VI	Lab 'C' SW Water Quality (Full)													# of Bottles	Comments		
1	T-1R	21/11/9	PM	SW	Y	X													9			
2	T-3A	↓	↓	SW	Y	X													9			
3	T-3R	↓	↓	SW	Y	X													9			
4	T-15R	↓	↓	SW	Y	X													9			
5	T-35	↓	↓	SW	Y	X													9			
6																						
7																						
8																						
9																						
10																						

* RELINQUISHED BY: (Signature/Print)		Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)		Date: (YY/MM/DD)	Time	# jars used and not submitted	Laboratory Use Only			
C. R. ... / R. Richardson		21/11/10	9:15	J. ...		20/11/10	15:40		Time Sensitive	Temperature (°C) on Recept	Custody Seal Present	Yes No
									9:40	11/2/4	Intact	✓

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

* 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 BUREAU VERITAS

White: Bureau Veritas Yellow: Client #469575

#1 469 373



Your Project #: EQ LEACH
Your C.O.C. #: 848637-18-01

Attention: Brad Mullin - GHD Reporting

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

Report Date: 2021/12/17
Report #: R6924869
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C1X2788

Received: 2021/11/11, 15:30

Sample Matrix: Water
Samples Received: 1

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
ABN Compounds in Water by GC/MS	1	2021/11/17	2021/11/18	CAM SOP-00301	EPA 8270 m
Alkalinity	1	N/A	2021/11/17	CAM SOP-00448	SM 23 2320 B m
Anions	1	N/A	2021/11/17	CAM SOP-00435	SM 23 4110 B m
Biochemical Oxygen Demand (BOD)	1	2021/11/13	2021/11/18	CAM SOP-00427	SM 23 5210B m
Conductivity	1	N/A	2021/11/16	CAM SOP-00414	SM 23 2510 m
Fluoride	1	2021/11/15	2021/11/16	CAM SOP-00449	SM 23 4500-F C m
Hardness (calculated as CaCO3)	1	N/A	2021/11/16	CAM SOP 00102/00408/00447	SM 2340 B
Dissolved Calcium and Magnesium	1	2021/11/15	2021/11/16	CAM SOP-00408	EPA 6010D m
Total Metals Analysis by ICPMS	1	N/A	2021/11/16	CAM SOP-00447	EPA 6020B m
Resin and Fatty Acids (1)	1	2021/11/23	2021/11/29	STL SOP-00152	MA414-Aci-g-r-1.0R3m
Neutral Chlorinated in Water by GC/ECD	1	2021/11/14	2021/12/10	CAM SOP-00317	EPA 8121 m
Total Ammonia-N	1	N/A	2021/11/15	CAM SOP-00441	USGS I-2522-90 m
Nitrate & Nitrite as Nitrogen in Water (2)	1	N/A	2021/11/17	CAM SOP-00440	SM 23 4500-NO3I/NO2B
Polychlorinated Biphenyl in Water	1	2021/11/15	2021/11/16	CAM SOP-00309	EPA 8082A m
pH	1	2021/11/15	2021/11/16	CAM SOP-00413	SM 4500H+ B m
Phenols (4AAP)	1	N/A	2021/11/15	CAM SOP-00444	OMOE E3179 m
Orthophosphate	1	N/A	2021/11/17	CAM SOP-00461	EPA 365.1 m
Total Kjeldahl Nitrogen in Water	1	2021/11/14	2021/11/17	CAM SOP-00938	OMOE E3516 m
Tot./Min./ Animal & Veg. Oil and Grease	1	2021/11/16	2021/11/17	CAM SOP-00326	EPA 821/R-98-002 m
Total Organic Carbon (TOC) (3)	1	N/A	2021/11/15	CAM SOP-00446	SM 23 5310B m
Total Phosphorus (Colourimetric)	1	2021/11/15	2021/11/16	CAM SOP-00407	SM 23 4500 P B H m
Total Suspended Solids	1	2021/11/15	2021/11/16	CAM SOP-00428	SM 23 2540D m
Volatile Organic Compounds in Water	1	N/A	2021/11/16	CAM SOP-00226	EPA 8260C m
Non-Routine Volatile Organic Compounds	1	N/A	2021/11/16	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 Bureau Veritas Montreal, 889 Montée de Liesse, Ville St-Laurent, QC, H4T 1P5

(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. #: 848637-18-01

Attention: Brad Mullin - GHD Reporting

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

Report Date: 2021/12/17
Report #: R6924869
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C1X2788

Received: 2021/11/11, 15:30

Encryption Key

Jolanta Goralczyk
Project Manager
17 Dec 2021 10:56:45

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

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



**BUREAU
VERITAS**

Bureau Veritas Job #: C1X2788
Report Date: 2021/12/17

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

MISA ATG 19 & 20 (ABNS)

Bureau Veritas ID		RFD000		
Sampling Date		2021/11/10		
COC Number		848637-18-01		
	UNITS	EQ LEACH	RDL	QC Batch
Semivolatile Organics				
Acenaphthene	ug/L	<20	20	7705118
Acenaphthylene	ug/L	<20	20	7705118
Anthracene	ug/L	<20	20	7705118
Benzo(a)anthracene	ug/L	<20	20	7705118
Benzo(a)pyrene	ug/L	<20	20	7705118
Benzo(b/j)fluoranthene	ug/L	<20	20	7705118
Benzo(g,h,i)perylene	ug/L	<20	20	7705118
Benzo(k)fluoranthene	ug/L	<20	20	7705118
1-Chloronaphthalene	ug/L	<100	100	7705118
2-Chloronaphthalene	ug/L	<50	50	7705118
Chrysene	ug/L	<20	20	7705118
Dibenzo(a,h)anthracene	ug/L	<20	20	7705118
Fluoranthene	ug/L	<20	20	7705118
Fluorene	ug/L	<20	20	7705118
Indeno(1,2,3-cd)pyrene	ug/L	<20	20	7705118
1-Methylnaphthalene	ug/L	<20	20	7705118
2-Methylnaphthalene	ug/L	<20	20	7705118
Naphthalene	ug/L	23	20	7705118
5-Nitroacenaphthene	ug/L	<100	100	7705118
Perylene	ug/L	<20	20	7705118
Phenanthrene	ug/L	<20	20	7705118
Pyrene	ug/L	<20	20	7705118
2-Chlorophenol	ug/L	<30	30	7705118
4-Chloro-3-Methylphenol	ug/L	<50	50	7705118
m/p-Cresol	ug/L	64	50	7705118
o-Cresol	ug/L	<50	50	7705118
2,4-Dichlorophenol	ug/L	<30	30	7705118
2,6-Dichlorophenol	ug/L	<50	50	7705118
2,4-Dimethylphenol	ug/L	<50	50	7705118
2,4-Dinitrophenol	ug/L	<200	200	7705118
4,6-Dinitro-2-methylphenol	ug/L	<200	200	7705118
4-Nitrophenol	ug/L	<140	140	7705118
Pentachlorophenol	ug/L	<100	100	7705118
Phenol	ug/L	100	50	7705118
2,3,4,5-Tetrachlorophenol	ug/L	<40	40	7705118
2,3,4,6-Tetrachlorophenol	ug/L	<50	50	7705118
RDL = Reportable Detection Limit QC Batch = Quality Control Batch				



MISA ATG 19 & 20 (ABNS)

Bureau Veritas ID		RFD000		
Sampling Date		2021/11/10		
COC Number		848637-18-01		
	UNITS	EQ LEACH	RDL	QC Batch
2,3,5,6-Tetrachlorophenol	ug/L	<50	50	7705118
2,3,4-Trichlorophenol	ug/L	<50	50	7705118
2,3,5-Trichlorophenol	ug/L	<50	50	7705118
2,4,5-Trichlorophenol	ug/L	<50	50	7705118
2,4,6-Trichlorophenol	ug/L	<50	50	7705118
Benzyl butyl phthalate	ug/L	<50	50	7705118
Biphenyl	ug/L	<50	50	7705118
Bis(2-chloroethyl)ether	ug/L	<50	50	7705118
Bis(2-chloroethoxy)methane	ug/L	<50	50	7705118
Bis(2-chloroisopropyl)ether	ug/L	<50	50	7705118
Bis(2-ethylhexyl)phthalate	ug/L	<200	200	7705118
4-Bromophenyl phenyl ether	ug/L	<30	30	7705118
Camphene	ug/L	<100	100	7705118
4-Chlorophenyl phenyl ether	ug/L	<50	50	7705118
Di-N-butyl phthalate	ug/L	<200	200	7705118
di-n-octyl phthalate	ug/L	<80	80	7705118
2,4-Dinitrotoluene	ug/L	<50	50	7705118
2,6-Dinitrotoluene	ug/L	<50	50	7705118
Diphenyl Ether	ug/L	<30	30	7705118
Indole	ug/L	<100	100	7705118
Nitrosodiphenylamine/Diphenylamine	ug/L	<100	100	7705118
N-Nitroso-di-n-propylamine	ug/L	<50	50	7705118
Surrogate Recovery (%)				
2,4,6-Tribromophenol	%	98		7705118
2-Fluorobiphenyl	%	64		7705118
2-Fluorophenol	%	46		7705118
D14-Terphenyl	%	96		7705118
D5-Nitrobenzene	%	91		7705118
D5-Phenol	%	34		7705118
RDL = Reportable Detection Limit				
QC Batch = Quality Control Batch				



MISA ATG23 NEUTRAL CHLORINATED COMPOUNDS (WATER)

Bureau Veritas ID		RFD000		
Sampling Date		2021/11/10		
COC Number		848637-18-01		
	UNITS	EQ LEACH	RDL	QC Batch
Pesticides & Herbicides				
1,2,3,4-Tetrachlorobenzene	ug/L	<0.10	0.10	7699991
1,2,3,5-Tetrachlorobenzene	ug/L	<0.10	0.10	7699991
1,2,3-Trichlorobenzene	ug/L	<0.10	0.10	7699991
1,2,4,5-Tetrachlorobenzene	ug/L	<0.10	0.10	7699991
1,2,4-Trichlorobenzene	ug/L	<0.10	0.10	7699991
2,4,5-Trichlorotoluene	ug/L	<0.10	0.10	7699991
Hexachlorobenzene	ug/L	<0.050	0.050	7699991
Hexachlorobutadiene	ug/L	<0.090	0.090	7699991
Hexachlorocyclopentadiene	ug/L	<0.25	0.25	7699991
Hexachloroethane	ug/L	<0.10	0.10	7699991
Octachlorostyrene	ug/L	<0.050	0.050	7699991
Pentachlorobenzene	ug/L	<0.050	0.050	7699991
Surrogate Recovery (%)				
1,3,5-Tribromobenzene	%	48		7699991
2,4,5,6-Tetrachloro-m-xylene	%	48		7699991
Decachlorobiphenyl	%	74		7699991
Hexabromobenzene	%	95		7699991
RDL = Reportable Detection Limit QC Batch = Quality Control Batch				



BUREAU
VERITAS

Bureau Veritas Job #: C1X2788
Report Date: 2021/12/17

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

MISA ATG 16-18 VOLATILE ORGANICS (WATER)

Bureau Veritas ID		RFD000		
Sampling Date		2021/11/10		
COC Number		848637-18-01		
	UNITS	EQ LEACH	RDL	QC Batch
Volatile Organics				
Acetone (2-Propanone)	ug/L	<500	500	7700759
Benzene	ug/L	9.5	5.0	7700759
Bromodichloromethane	ug/L	<5.0	5.0	7700759
Acrolein	ug/L	<500	500	7700769
Bromoform	ug/L	<10	10	7700759
Bromomethane	ug/L	<25	25	7700759
Carbon Tetrachloride	ug/L	<5.0	5.0	7700759
Chlorobenzene	ug/L	<5.0	5.0	7700759
Chloroform	ug/L	<5.0	5.0	7700759
Acrylonitrile	ug/L	<250	250	7700769
Chloromethane	ug/L	<25	25	7700759
Dibromochloromethane	ug/L	<10	10	7700759
1,2-Dichlorobenzene	ug/L	<10	10	7700759
1,3-Dichlorobenzene	ug/L	<10	10	7700759
1,4-Dichlorobenzene	ug/L	<10	10	7700759
1,1-Dichloroethane	ug/L	<5.0	5.0	7700759
1,2-Dichloroethane	ug/L	<10	10	7700759
1,1-Dichloroethylene	ug/L	<5.0	5.0	7700759
cis-1,2-Dichloroethylene	ug/L	<5.0	5.0	7700759
trans-1,2-Dichloroethylene	ug/L	<5.0	5.0	7700759
1,2-Dichloropropane	ug/L	<5.0	5.0	7700759
cis-1,3-Dichloropropene	ug/L	<10	10	7700759
trans-1,3-Dichloropropene	ug/L	<10	10	7700759
Ethylbenzene	ug/L	20	5.0	7700759
Ethylene Dibromide	ug/L	<10	10	7700759
Methylene Chloride(Dichloromethane)	ug/L	<25	25	7700759
Methyl Ethyl Ketone (2-Butanone)	ug/L	<250	250	7700759
Methyl Isobutyl Ketone	ug/L	<250	250	7700759
Methyl t-butyl ether (MTBE)	ug/L	11	10	7700759
Styrene	ug/L	<10	10	7700759
1,1,1,2-Tetrachloroethane	ug/L	<10	10	7700759
1,1,2,2-Tetrachloroethane	ug/L	<10	10	7700759
Tetrachloroethylene	ug/L	<5.0	5.0	7700759
Toluene	ug/L	120	10	7700759
1,1,1-Trichloroethane	ug/L	<5.0	5.0	7700759
1,1,2-Trichloroethane	ug/L	<10	10	7700759
RDL = Reportable Detection Limit QC Batch = Quality Control Batch				



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VERITAS

Bureau Veritas Job #: C1X2788
Report Date: 2021/12/17

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

MISA ATG 16-18 VOLATILE ORGANICS (WATER)

Bureau Veritas ID		RFD000		
Sampling Date		2021/11/10		
COC Number		848637-18-01		
	UNITS	EQ LEACH	RDL	QC Batch
Trichloroethylene	ug/L	<5.0	5.0	7700759
Trichlorofluoromethane (FREON 11)	ug/L	<10	10	7700759
Vinyl Chloride	ug/L	<10	10	7700759
p+m-Xylene	ug/L	29	5.0	7700759
o-Xylene	ug/L	14	5.0	7700759
Total Xylenes	ug/L	43	5.0	7700759
Surrogate Recovery (%)				
4-Bromofluorobenzene	%	92		7700759
D4-1,2-Dichloroethane	%	94		7700759
D8-Toluene	%	98		7700759
4-Bromofluorobenzene	%	94		7700769
D4-1,2-Dichloroethane	%	95		7700769
D8-Toluene	%	101		7700769
RDL = Reportable Detection Limit QC Batch = Quality Control Batch				



RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		RFD000		
Sampling Date		2021/11/10		
COC Number		848637-18-01		
	UNITS	EQ LEACH	RDL	QC Batch
Calculated Parameters				
Hardness (CaCO3)	mg/L	410	1.0	7695893
Inorganics				
Total Ammonia-N	mg/L	160	0.50	7699920
Total BOD	mg/L	110	2	7698892
Conductivity	umho/cm	12000	1.0	7701967
Fluoride (F-)	mg/L	3.0	0.10	7701956
Total Kjeldahl Nitrogen (TKN)	mg/L	170	5.0	7699910
Total Organic Carbon (TOC)	mg/L	290	2.0	7699915
Orthophosphate (P)	mg/L	1.2	0.20	7701911
pH	pH	8.32		7701968
Phenols-4AAP	mg/L	0.53	0.050	7700210
Total Phosphorus	mg/L	2.6	0.20	7700641
Total Suspended Solids	mg/L	<10	10	7699397
Alkalinity (Total as CaCO3)	mg/L	2800	5.0	7701964
Nitrite (N)	mg/L	<0.050	0.050	7701052
Dissolved Chloride (Cl-)	mg/L	2200	20	7701119
Nitrate (N)	mg/L	<0.50	0.50	7701052
Dissolved Bromide (Br-)	mg/L	48	20	7701119
Dissolved Sulphate (SO4)	mg/L	180	20	7701119
Petroleum Hydrocarbons				
Animal/Vegetable Oil and Grease	mg/L	31	1	7704027
Mineral Oil and Grease	mg/L	9	1	7704027
Oil & Grease	mg/L	39	1	7704027
RDL = Reportable Detection Limit QC Batch = Quality Control Batch				



ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Bureau Veritas ID		RFD000		
Sampling Date		2021/11/10		
COC Number		848637-18-01		
	UNITS	EQ LEACH	RDL	QC Batch
Metals				
Dissolved Calcium (Ca)	mg/L	48	0.050	7701567
Dissolved Magnesium (Mg)	mg/L	71	0.050	7701567
Total Aluminum (Al)	mg/L	0.044	0.025	7701371
Total Barium (Ba)	mg/L	0.20	0.010	7701371
Total Beryllium (Be)	mg/L	<0.0020	0.0020	7701371
Total Boron (B)	mg/L	3.4	0.050	7701371
Total Cadmium (Cd)	mg/L	<0.00045	0.00045	7701371
Total Calcium (Ca)	mg/L	48	1.0	7701371
Total Chromium (Cr)	mg/L	<0.025	0.025	7701371
Total Cobalt (Co)	mg/L	0.0040	0.0025	7701371
Total Copper (Cu)	mg/L	<0.0045	0.0045	7701371
Total Iron (Fe)	mg/L	<0.50	0.50	7701371
Total Lead (Pb)	mg/L	0.0049	0.0025	7701371
Total Magnesium (Mg)	mg/L	69	0.25	7701371
Total Manganese (Mn)	mg/L	0.11	0.010	7701371
Total Molybdenum (Mo)	mg/L	0.20	0.0025	7701371
Total Nickel (Ni)	mg/L	0.13	0.0050	7701371
Total Potassium (K)	mg/L	1100	2.0	7701371
Total Silicon (Si)	mg/L	14	0.25	7701371
Total Sodium (Na)	mg/L	1600	0.50	7701371
Total Strontium (Sr)	mg/L	5.2	0.0050	7701371
Total Titanium (Ti)	mg/L	0.028	0.025	7701371
Total Vanadium (V)	mg/L	0.052	0.0025	7701371
Total Zinc (Zn)	mg/L	<0.025	0.025	7701371
RDL = Reportable Detection Limit				
QC Batch = Quality Control Batch				



POLYCHLORINATED BIPHENYLS BY GC-ECD (WATER)

Bureau Veritas ID		RFD000		
Sampling Date		2021/11/10		
COC Number		848637-18-01		
	UNITS	EQ LEACH	RDL	QC Batch
PCBs				
Aroclor 1016	ug/L	<0.05	0.05	7701291
Aroclor 1221	ug/L	<0.05	0.05	7701291
Aroclor 1232	ug/L	<0.05	0.05	7701291
Aroclor 1242	ug/L	<0.05	0.05	7701291
Aroclor 1248	ug/L	<0.05	0.05	7701291
Aroclor 1254	ug/L	<0.05	0.05	7701291
Aroclor 1260	ug/L	<0.05	0.05	7701291
Aroclor 1262	ug/L	<0.05	0.05	7701291
Aroclor 1268	ug/L	<0.05	0.05	7701291
Total PCB	ug/L	<0.05	0.05	7701291
Surrogate Recovery (%)				
Decachlorobiphenyl	%	72		7701291
RDL = Reportable Detection Limit QC Batch = Quality Control Batch				



RESIN AND FATTY ACIDS BY GC-MS (WATER)

Bureau Veritas ID		RFD000		
Sampling Date		2021/11/10		
COC Number		848637-18-01		
	UNITS	EQ LEACH	RDL	QC Batch
Fatty Acids				
9,10-Dichlorostearic acid	ug/L	<10	10	7730920
Linoleic acid (C18:2)	ug/L	<10	10	7730920
Linolenic acid (C18:3)	ug/L	<10	10	7730920
Oleic acid (C18:1)	ug/L	<10	10	7730920
Resin Acids				
12,14-Dichlorodehydroabietic acid	ug/L	<10	10	7730920
12-Chlorodehydroabietic acid	ug/L	<10	10	7730920
14-Chlorodehydroabietic acid	ug/L	<10	10	7730920
Abietic acid	ug/L	<10	10	7730920
Dehydroabietic acid	ug/L	140	10	7730920
Isopimaric acid	ug/L	<10	10	7730920
Neoabietic acid	ug/L	<10	10	7730920
Palustric acid	ug/L	<10	10	7730920
Pimaric acid	ug/L	<10	10	7730920
Sandaracopimaric acid	ug/L	<10	10	7730920
Resin and Fatty Acids				
Levopimaric acid	ug/L	<10	10	7730920
Palmitic acid	ug/L	<30	30	7730920
Palmitoleic acid	ug/L	<10	10	7730920
Stearic acid	ug/L	<200 (1)	200	7730920
Total Resin and Fatty Acids (RRPPM)	ug/L	<200	200	7730920
Surrogate Recovery (%)				
o-Methylpodocarpic Acid (sur.)	%	84		7730920
RDL = Reportable Detection Limit QC Batch = Quality Control Batch (1) Detection limit raised due to matrix interference.				



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Report Date: 2021/12/17

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

TEST SUMMARY

Bureau Veritas ID: RFD000
Sample ID: EQ LEACH
Matrix: Water

Collected: 2021/11/10
Shipped:
Received: 2021/11/11

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
ABN Compounds in Water by GC/MS	GC/MS	7705118	2021/11/17	2021/11/18	Anh Lieu
Alkalinity	AT	7701964	N/A	2021/11/17	Surinder Rai
Anions	IC	7701119	N/A	2021/11/17	Fari Dehdezi
Biochemical Oxygen Demand (BOD)	DO	7698892	2021/11/13	2021/11/18	Surleen Kaur Romana
Conductivity	AT	7701967	N/A	2021/11/16	Surinder Rai
Fluoride	ISE	7701956	2021/11/15	2021/11/16	Surinder Rai
Hardness (calculated as CaCO3)		7695893	N/A	2021/11/16	Automated Statchk
Dissolved Calcium and Magnesium	ICP	7701567	2021/11/15	2021/11/16	Suban Kanapathipillai
Total Metals Analysis by ICPMS	ICP/MS	7701371	N/A	2021/11/16	Arefa Dabhad
Resin and Fatty Acids	GC/MS	7730920	2021/11/23	2021/11/29	Amelie Houle
Neutral Chlorinated in Water by GC/ECD	GC/ECD	7699991	2021/11/14	2021/12/10	Mahmudul Khan
Total Ammonia-N	LACH/NH4	7699920	N/A	2021/11/15	Amanpreet Sappal
Nitrate & Nitrite as Nitrogen in Water	LACH	7701052	N/A	2021/11/17	Chandra Nandlal
Polychlorinated Biphenyl in Water	GC/ECD	7701291	2021/11/15	2021/11/16	Dawn Howard
pH	AT	7701968	2021/11/15	2021/11/16	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7700210	N/A	2021/11/15	Deonarine Ramnarine
Orthophosphate	KONE	7701911	N/A	2021/11/17	Avneet Kour Sudan
Total Kjeldahl Nitrogen in Water	SKAL	7699910	2021/11/14	2021/11/17	Massarat Jan
Tot./Min./ Animal & Veg. Oil and Grease	/BAL	7704027	2021/11/16	2021/11/17	Saumya Modh
Total Organic Carbon (TOC)	TOCV/NDIR	7699915	N/A	2021/11/15	Julianna Castiglione
Total Phosphorus (Colourimetric)	LACH/P	7700641	2021/11/15	2021/11/16	Shivani Shivani
Total Suspended Solids	BAL	7699397	2021/11/15	2021/11/16	Kristen Chan
Volatile Organic Compounds in Water	P&T/MS	7700759	N/A	2021/11/16	Gladys Guerrero
Non-Routine Volatile Organic Compounds	P&T/MS	7700769	N/A	2021/11/16	Gladys Guerrero



GENERAL COMMENTS

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

Package 1	5.7°C
Package 2	3.0°C

Sample RFD000 [EQ LEACH] : Metals Analysis: Due to the sample matrix, sample required dilution. Detection limits were adjusted accordingly.

VOC Water Analysis: Due to foaming, sample required dilution. The detection limits were adjusted accordingly.

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

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

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

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

Results relate only to the items tested.



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Bureau Veritas Job #: C1X2788

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QUALITY ASSURANCE REPORT

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

QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
7699991	1,3,5-Tribromobenzene	2021/12/10			70	30 - 130	64	%				
7699991	2,4,5,6-Tetrachloro-m-xylene	2021/12/10			54	30 - 130	43	%				
7699991	Decachlorobiphenyl	2021/12/10			85	30 - 130	80	%				
7699991	Hexabromobenzene	2021/12/10			110	30 - 130	101	%				
7700759	4-Bromofluorobenzene	2021/11/16	98	70 - 130	100	70 - 130	95	%				
7700759	D4-1,2-Dichloroethane	2021/11/16	95	70 - 130	95	70 - 130	97	%				
7700759	D8-Toluene	2021/11/16	102	70 - 130	100	70 - 130	100	%				
7700769	4-Bromofluorobenzene	2021/11/16			100	70 - 130	94	%				
7700769	D4-1,2-Dichloroethane	2021/11/16			96	70 - 130	98	%				
7700769	D8-Toluene	2021/11/16			101	70 - 130	99	%				
7701291	Decachlorobiphenyl	2021/11/16	92	60 - 130	87	60 - 130	94	%				
7705118	2,4,6-Tribromophenol	2021/11/17	92	10 - 130	92	10 - 130	79	%				
7705118	2-Fluorobiphenyl	2021/11/17	63	30 - 130	68	30 - 130	57	%				
7705118	2-Fluorophenol	2021/11/17	48	10 - 130	49	10 - 130	49	%				
7705118	D14-Terphenyl	2021/11/17	96	30 - 130	92	30 - 130	84	%				
7705118	D5-Nitrobenzene	2021/11/17	88	30 - 130	91	30 - 130	85	%				
7705118	D5-Phenol	2021/11/17	36	10 - 130	34	10 - 130	33	%				
7730920	o-Methylpodocarpic Acid (sur.)	2021/11/29			104	60 - 130	104	%				
7698892	Total BOD	2021/11/18					<2	mg/L	8.1	30	97	80 - 120
7699397	Total Suspended Solids	2021/11/16					<10	mg/L	3.2	25	95	85 - 115
7699910	Total Kjeldahl Nitrogen (TKN)	2021/11/16	80	80 - 120	95	80 - 120	<0.10	mg/L	1.4	20	92	80 - 120
7699915	Total Organic Carbon (TOC)	2021/11/15	97	80 - 120	96	80 - 120	<0.40	mg/L	1.4	20		
7699920	Total Ammonia-N	2021/11/15	88	75 - 125	101	80 - 120	<0.050	mg/L	0.34	20		
7699991	1,2,3,4-Tetrachlorobenzene	2021/12/10			71	50 - 130	<0.010	ug/L	8.1	40		
7699991	1,2,3,5-Tetrachlorobenzene	2021/12/10			71	30 - 130	<0.010	ug/L	2.9	40		
7699991	1,2,3-Trichlorobenzene	2021/12/10			82	50 - 130	<0.010	ug/L	5.0	40		
7699991	1,2,4,5-Tetrachlorobenzene	2021/12/10			71	30 - 130	<0.010	ug/L	7.3	40		
7699991	1,2,4-Trichlorobenzene	2021/12/10			75	50 - 130	<0.010	ug/L	5.5	40		
7699991	2,4,5-Trichlorotoluene	2021/12/10			70	30 - 130	<0.010	ug/L	4.4	40		
7699991	Hexachlorobenzene	2021/12/10			84	50 - 130	<0.0050	ug/L	2.4	40		
7699991	Hexachlorobutadiene	2021/12/10			43	30 - 130	<0.0090	ug/L	12	40		



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QUALITY ASSURANCE REPORT(CONT'D)

Terrapure Environmental
Client Project #: EQ LEACH
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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
7699991	Hexachlorocyclopentadiene	2021/12/10			55	30 - 130	<0.025	ug/L	12	40		
7699991	Hexachloroethane	2021/12/10			65	30 - 130	<0.010	ug/L	20	40		
7699991	Octachlorostyrene	2021/12/10			85	30 - 130	<0.0050	ug/L	1.2	40		
7699991	Pentachlorobenzene	2021/12/10			80	50 - 130	<0.0050	ug/L	0	40		
7700210	Phenols-4AAP	2021/11/15	98	80 - 120	101	80 - 120	<0.0010	mg/L	NC	20		
7700641	Total Phosphorus	2021/11/15	106	80 - 120	99	80 - 120	<0.020	mg/L	4.7	20	100	80 - 120
7700759	1,1,1,2-Tetrachloroethane	2021/11/16	105	70 - 130	102	70 - 130	<0.20	ug/L				
7700759	1,1,1-Trichloroethane	2021/11/16	105	70 - 130	100	70 - 130	<0.10	ug/L	NC	30		
7700759	1,1,2,2-Tetrachloroethane	2021/11/16	98	70 - 130	98	70 - 130	<0.20	ug/L	NC	30		
7700759	1,1,2-Trichloroethane	2021/11/16	104	70 - 130	105	70 - 130	<0.20	ug/L	NC	30		
7700759	1,1-Dichloroethane	2021/11/16	94	70 - 130	91	70 - 130	<0.10	ug/L	NC	30		
7700759	1,1-Dichloroethylene	2021/11/16	97	70 - 130	92	70 - 130	<0.10	ug/L	NC	30		
7700759	1,2-Dichlorobenzene	2021/11/16	101	70 - 130	98	70 - 130	<0.20	ug/L	NC	30		
7700759	1,2-Dichloroethane	2021/11/16	93	70 - 130	91	70 - 130	<0.20	ug/L	NC	30		
7700759	1,2-Dichloropropane	2021/11/16	99	70 - 130	95	70 - 130	<0.10	ug/L	NC	30		
7700759	1,3-Dichlorobenzene	2021/11/16	104	70 - 130	98	70 - 130	<0.20	ug/L	NC	30		
7700759	1,4-Dichlorobenzene	2021/11/16	118	70 - 130	113	70 - 130	<0.20	ug/L	NC	30		
7700759	Acetone (2-Propanone)	2021/11/16	94	60 - 140	89	60 - 140	<10	ug/L				
7700759	Benzene	2021/11/16	97	70 - 130	92	70 - 130	<0.10	ug/L	NC	30		
7700759	Bromodichloromethane	2021/11/16	102	70 - 130	101	70 - 130	<0.10	ug/L	NC	30		
7700759	Bromoform	2021/11/16	104	70 - 130	104	70 - 130	<0.20	ug/L	NC	30		
7700759	Bromomethane	2021/11/16	113	60 - 140	106	60 - 140	<0.50	ug/L	NC	30		
7700759	Carbon Tetrachloride	2021/11/16	103	70 - 130	98	70 - 130	<0.10	ug/L	NC	30		
7700759	Chlorobenzene	2021/11/16	102	70 - 130	98	70 - 130	<0.10	ug/L	NC	30		
7700759	Chloroform	2021/11/16	101	70 - 130	97	70 - 130	<0.10	ug/L	8.1	30		
7700759	Chloromethane	2021/11/16	99	60 - 140	97	60 - 140	<0.50	ug/L	NC	30		
7700759	cis-1,2-Dichloroethylene	2021/11/16	100	70 - 130	97	70 - 130	<0.10	ug/L	NC	30		
7700759	cis-1,3-Dichloropropene	2021/11/16	104	70 - 130	101	70 - 130	<0.20	ug/L	NC	30		
7700759	Dibromochloromethane	2021/11/16	104	70 - 130	103	70 - 130	<0.20	ug/L	NC	30		
7700759	Ethylbenzene	2021/11/16	101	70 - 130	95	70 - 130	<0.10	ug/L	NC	30		
7700759	Ethylene Dibromide	2021/11/16	99	70 - 130	99	70 - 130	<0.20	ug/L	NC	30		



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QUALITY ASSURANCE REPORT(CONT'D)

Terrapure Environmental
Client Project #: EQ LEACH
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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
7700759	Methyl Ethyl Ketone (2-Butanone)	2021/11/16	101	60 - 140	99	60 - 140	<5.0	ug/L				
7700759	Methyl Isobutyl Ketone	2021/11/16	105	70 - 130	100	70 - 130	<5.0	ug/L				
7700759	Methyl t-butyl ether (MTBE)	2021/11/16	98	70 - 130	94	70 - 130	<0.20	ug/L				
7700759	Methylene Chloride(Dichloromethane)	2021/11/16	99	70 - 130	95	70 - 130	<0.50	ug/L	NC	30		
7700759	o-Xylene	2021/11/16	102	70 - 130	96	70 - 130	<0.10	ug/L	NC	30		
7700759	p+m-Xylene	2021/11/16	106	70 - 130	100	70 - 130	<0.10	ug/L	NC	30		
7700759	Styrene	2021/11/16	112	70 - 130	109	70 - 130	<0.20	ug/L	NC	30		
7700759	Tetrachloroethylene	2021/11/16	95	70 - 130	88	70 - 130	<0.10	ug/L	NC	30		
7700759	Toluene	2021/11/16	101	70 - 130	94	70 - 130	<0.20	ug/L	NC	30		
7700759	Total Xylenes	2021/11/16					<0.10	ug/L	NC	30		
7700759	trans-1,2-Dichloroethylene	2021/11/16	100	70 - 130	95	70 - 130	<0.10	ug/L	NC	30		
7700759	trans-1,3-Dichloropropene	2021/11/16	107	70 - 130	103	70 - 130	<0.20	ug/L	NC	30		
7700759	Trichloroethylene	2021/11/16	106	70 - 130	101	70 - 130	<0.10	ug/L	NC	30		
7700759	Trichlorofluoromethane (FREON 11)	2021/11/16	95	70 - 130	90	70 - 130	<0.20	ug/L	NC	30		
7700759	Vinyl Chloride	2021/11/16	99	70 - 130	92	70 - 130	<0.20	ug/L	NC	30		
7700769	Acrolein	2021/11/16			109	60 - 140	<10	ug/L				
7700769	Acrylonitrile	2021/11/16			103	60 - 140	<5.0	ug/L				
7701052	Nitrate (N)	2021/11/17	94	80 - 120	97	80 - 120	<0.10	mg/L	0.075	20		
7701052	Nitrite (N)	2021/11/17	105	80 - 120	107	80 - 120	<0.010	mg/L	NC	20		
7701119	Dissolved Bromide (Br-)	2021/11/17	119	80 - 120	104	80 - 120	<1.0	mg/L	NC	20		
7701119	Dissolved Chloride (Cl-)	2021/11/17	112	80 - 120	98	70 - 130	<1.0	mg/L	4.4	20		
7701119	Dissolved Sulphate (SO4)	2021/11/17	NC	80 - 120	99	80 - 120	<1.0	mg/L	1.5	20		
7701291	Aroclor 1016	2021/11/16					<0.05	ug/L				
7701291	Aroclor 1221	2021/11/16					<0.05	ug/L				
7701291	Aroclor 1232	2021/11/16					<0.05	ug/L				
7701291	Aroclor 1242	2021/11/16					<0.05	ug/L				
7701291	Aroclor 1248	2021/11/16					<0.05	ug/L				
7701291	Aroclor 1254	2021/11/16					<0.05	ug/L				
7701291	Aroclor 1260	2021/11/16	97	60 - 130	91	60 - 130	<0.05	ug/L				
7701291	Aroclor 1262	2021/11/16					<0.05	ug/L				
7701291	Aroclor 1268	2021/11/16					<0.05	ug/L				



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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
7701291	Total PCB	2021/11/16	97	60 - 130	91	60 - 130	<0.05	ug/L	NC	40		
7701371	Total Aluminum (Al)	2021/11/16	104	80 - 120	103	80 - 120	<0.0049	mg/L	1.7	20		
7701371	Total Barium (Ba)	2021/11/16	102	80 - 120	99	80 - 120	<0.0020	mg/L	9.9	20		
7701371	Total Beryllium (Be)	2021/11/16	105	80 - 120	102	80 - 120	<0.00040	mg/L	NC	20		
7701371	Total Boron (B)	2021/11/16	101	80 - 120	97	80 - 120	<0.010	mg/L	3.8	20		
7701371	Total Cadmium (Cd)	2021/11/16	102	80 - 120	99	80 - 120	<0.000090	mg/L	NC	20		
7701371	Total Calcium (Ca)	2021/11/16	NC	80 - 120	101	80 - 120	<0.20	mg/L	5.5	20		
7701371	Total Chromium (Cr)	2021/11/16	98	80 - 120	98	80 - 120	<0.0050	mg/L	NC	20		
7701371	Total Cobalt (Co)	2021/11/16	102	80 - 120	96	80 - 120	<0.00050	mg/L	NC	20		
7701371	Total Copper (Cu)	2021/11/16	99	80 - 120	96	80 - 120	<0.00090	mg/L	NC	20		
7701371	Total Iron (Fe)	2021/11/16	102	80 - 120	98	80 - 120	<0.10	mg/L	NC	20		
7701371	Total Lead (Pb)	2021/11/16	97	80 - 120	94	80 - 120	<0.00050	mg/L	NC	20		
7701371	Total Magnesium (Mg)	2021/11/16	105	80 - 120	102	80 - 120	<0.050	mg/L	10	20		
7701371	Total Manganese (Mn)	2021/11/16	104	80 - 120	99	80 - 120	<0.0020	mg/L	11	20		
7701371	Total Molybdenum (Mo)	2021/11/16	100	80 - 120	97	80 - 120	<0.00050	mg/L	6.7	20		
7701371	Total Nickel (Ni)	2021/11/16	98	80 - 120	98	80 - 120	<0.0010	mg/L	NC	20		
7701371	Total Potassium (K)	2021/11/16	103	80 - 120	101	80 - 120	<0.20	mg/L	9.4	20		
7701371	Total Silicon (Si)	2021/11/16	101	80 - 120	99	80 - 120	<0.050	mg/L	5.7	20		
7701371	Total Sodium (Na)	2021/11/16	NC	80 - 120	97	80 - 120	<0.10	mg/L	12	20		
7701371	Total Strontium (Sr)	2021/11/16	NC	80 - 120	97	80 - 120	<0.0010	mg/L	7.0	20		
7701371	Total Titanium (Ti)	2021/11/16	99	80 - 120	98	80 - 120	<0.0050	mg/L	NC	20		
7701371	Total Vanadium (V)	2021/11/16	103	80 - 120	99	80 - 120	<0.00050	mg/L	10	20		
7701371	Total Zinc (Zn)	2021/11/16	102	80 - 120	101	80 - 120	<0.0050	mg/L	NC	20		
7701567	Dissolved Calcium (Ca)	2021/11/16	NC	80 - 120	99	80 - 120	<0.050	mg/L				
7701567	Dissolved Magnesium (Mg)	2021/11/16	NC	80 - 120	97	80 - 120	<0.050	mg/L				
7701911	Orthophosphate (P)	2021/11/17	118	75 - 125	97	80 - 120	<0.010	mg/L	NC	25		
7701956	Fluoride (F-)	2021/11/16	106	80 - 120	102	80 - 120	<0.10	mg/L	0.93	20		
7701964	Alkalinity (Total as CaCO3)	2021/11/16			97	85 - 115	<1.0	mg/L	0.0066	20		
7701967	Conductivity	2021/11/16			96	85 - 115	1.4, RDL=1.0	umho/cm	0.61	25		
7701968	pH	2021/11/16			102	98 - 103			0.10	N/A		



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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
7704027	Animal/Vegetable Oil and Grease	2021/11/17			104	75 - 125	<1	mg/L	0	25		
7704027	Mineral Oil and Grease	2021/11/17			92	75 - 125	<1	mg/L	2.4	25		
7704027	Oil & Grease	2021/11/17			98	85 - 115	<1	mg/L	1.1	25		
7705118	1-Chloronaphthalene	2021/11/18	60	30 - 130	64	30 - 130	<1.0	ug/L	NC	40		
7705118	1-Methylnaphthalene	2021/11/18	72	30 - 130	78	30 - 130	<0.20	ug/L	NC	40		
7705118	2,3,4,5-Tetrachlorophenol	2021/11/18	87	10 - 130	85	10 - 130	<0.40	ug/L	NC	40		
7705118	2,3,4,6-Tetrachlorophenol	2021/11/18	102	10 - 130	99	10 - 130	<0.50	ug/L	NC	40		
7705118	2,3,4-Trichlorophenol	2021/11/18	83	10 - 130	83	10 - 130	<0.50	ug/L	NC	40		
7705118	2,3,5,6-Tetrachlorophenol	2021/11/18	95	10 - 130	92	10 - 130	<0.50	ug/L	NC	40		
7705118	2,3,5-Trichlorophenol	2021/11/18	94	10 - 130	93	10 - 130	<0.50	ug/L	NC	40		
7705118	2,4,5-Trichlorophenol	2021/11/18	97	10 - 130	95	10 - 130	<0.50	ug/L	NC	40		
7705118	2,4,6-Trichlorophenol	2021/11/18	97	10 - 130	96	10 - 130	<0.50	ug/L	NC	40		
7705118	2,4-Dichlorophenol	2021/11/18	87	10 - 130	83	10 - 130	<0.30	ug/L	NC	40		
7705118	2,4-Dimethylphenol	2021/11/18	69	10 - 130	65	10 - 130	<0.50	ug/L	NC	40		
7705118	2,4-Dinitrophenol	2021/11/18	94	10 - 130	89	10 - 130	<2.0	ug/L	NC	40		
7705118	2,4-Dinitrotoluene	2021/11/18	97	30 - 130	95	30 - 130	<0.50	ug/L	NC	40		
7705118	2,6-Dichlorophenol	2021/11/18	78	10 - 130	77	10 - 130	<0.50	ug/L	NC	40		
7705118	2,6-Dinitrotoluene	2021/11/18	89	30 - 130	89	30 - 130	<0.50	ug/L	NC	40		
7705118	2-Chloronaphthalene	2021/11/18	77	30 - 130	80	30 - 130	<0.50	ug/L	NC	40		
7705118	2-Chlorophenol	2021/11/18	76	10 - 130	79	10 - 130	<0.30	ug/L	NC	40		
7705118	2-Methylnaphthalene	2021/11/18	69	30 - 130	74	30 - 130	<0.20	ug/L	NC	40		
7705118	4,6-Dinitro-2-methylphenol	2021/11/18	124	10 - 130	116	10 - 130	<2.0	ug/L	NC	40		
7705118	4-Bromophenyl phenyl ether	2021/11/18	80	30 - 130	79	30 - 130	<0.30	ug/L	NC	40		
7705118	4-Chloro-3-Methylphenol	2021/11/18	79	10 - 130	79	10 - 130	<0.50	ug/L	NC	40		
7705118	4-Chlorophenyl phenyl ether	2021/11/18	77	30 - 130	77	30 - 130	<0.50	ug/L	NC	40		
7705118	4-Nitrophenol	2021/11/18	34	10 - 130	32	10 - 130	<1.4	ug/L	NC	40		
7705118	5-Nitroacenaphthene	2021/11/17	102	30 - 130	100	30 - 130	<1.0	ug/L				
7705118	Acenaphthene	2021/11/18	88	30 - 130	92	30 - 130	<0.20	ug/L	NC	40		
7705118	Acenaphthylene	2021/11/18	84	30 - 130	89	30 - 130	<0.20	ug/L	NC	40		
7705118	Anthracene	2021/11/18	90	30 - 130	88	30 - 130	<0.20	ug/L	NC	40		
7705118	Benzo(a)anthracene	2021/11/18	100	30 - 130	96	30 - 130	<0.20	ug/L	NC	40		



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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
7705118	Benzo(a)pyrene	2021/11/18	103	30 - 130	99	30 - 130	<0.20	ug/L	NC	40		
7705118	Benzo(b/j)fluoranthene	2021/11/18	101	30 - 130	94	30 - 130	<0.20	ug/L	NC	40		
7705118	Benzo(g,h,i)perylene	2021/11/18	82	30 - 130	74	30 - 130	<0.20	ug/L	NC	40		
7705118	Benzo(k)fluoranthene	2021/11/18	101	30 - 130	98	30 - 130	<0.20	ug/L	NC	40		
7705118	Benzyl butyl phthalate	2021/11/18	100	30 - 130	96	30 - 130	<0.50	ug/L	NC	40		
7705118	Biphenyl	2021/11/18	81	30 - 130	82	30 - 130	<0.50	ug/L	NC	40		
7705118	Bis(2-chloroethoxy)methane	2021/11/18	73	30 - 130	75	30 - 130	<0.50	ug/L	NC	40		
7705118	Bis(2-chloroethyl)ether	2021/11/18	82	30 - 130	85	30 - 130	<0.50	ug/L	NC	40		
7705118	Bis(2-chloroisopropyl)ether	2021/11/18	77	30 - 130	79	30 - 130	<0.50	ug/L	NC	40		
7705118	Bis(2-ethylhexyl)phthalate	2021/11/18	98	30 - 130	95	30 - 130	<2.0	ug/L	NC	40		
7705118	Camphene	2021/11/17	40	30 - 130	49	30 - 130	<1.0	ug/L				
7705118	Chrysene	2021/11/18	104	30 - 130	99	30 - 130	<0.20	ug/L	NC	40		
7705118	Dibenzo(a,h)anthracene	2021/11/18	87	30 - 130	84	30 - 130	<0.20	ug/L	NC	40		
7705118	Di-N-butyl phthalate	2021/11/18	97	30 - 130	95	30 - 130	<2.0	ug/L	NC	40		
7705118	di-n-octyl phthalate	2021/11/18	109	30 - 130	102	30 - 130	<0.80	ug/L	NC	40		
7705118	Diphenyl Ether	2021/11/18	75	30 - 130	78	30 - 130	<0.30	ug/L	NC	40		
7705118	Fluoranthene	2021/11/18	96	30 - 130	92	30 - 130	<0.20	ug/L	NC	40		
7705118	Fluorene	2021/11/18	92	30 - 130	94	30 - 130	<0.20	ug/L	NC	40		
7705118	Indeno(1,2,3-cd)pyrene	2021/11/18	84	30 - 130	79	30 - 130	<0.20	ug/L	NC	40		
7705118	Indole	2021/11/17	43	30 - 130	55	30 - 130	<1.0	ug/L				
7705118	m/p-Cresol	2021/11/18	70	10 - 130	68	10 - 130	<0.50	ug/L	NC	40		
7705118	Naphthalene	2021/11/18	64	30 - 130	68	30 - 130	<0.20	ug/L	NC	40		
7705118	Nitrosodiphenylamine/Diphenylamine	2021/11/18	113	30 - 130	114	30 - 130	<1.0	ug/L	NC	40		
7705118	N-Nitroso-di-n-propylamine	2021/11/18	110	30 - 130	111	30 - 130	<0.50	ug/L	NC	40		
7705118	o-Cresol	2021/11/18	80	10 - 130	77	10 - 130	<0.50	ug/L	NC	40		
7705118	Pentachlorophenol	2021/11/18	97	10 - 130	90	10 - 130	<1.0	ug/L	NC	40		
7705118	Perylene	2021/11/18	96	30 - 130	92	30 - 130	<0.20	ug/L	NC	40		
7705118	Phenanthrene	2021/11/18	95	30 - 130	95	30 - 130	<0.20	ug/L	NC	40		
7705118	Phenol	2021/11/18	38	10 - 130	35	10 - 130	<0.50	ug/L	NC	40		
7705118	Pyrene	2021/11/18	109	30 - 130	105	30 - 130	<0.20	ug/L	NC	40		
7730920	12,14-Dichlorodehydroabietic acid	2021/11/29			121	60 - 130	<10	ug/L				



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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
7730920	12-Chlorodehydroabietic acid	2021/11/29			130	60 - 130	<10	ug/L				
7730920	14-Chlorodehydroabietic acid	2021/11/29			130	60 - 130	<10	ug/L				
7730920	9,10-Dichlorostearic acid	2021/11/29			122	60 - 130	<10	ug/L				
7730920	Abietic acid	2021/11/29			186 (1)	60 - 130	<10	ug/L				
7730920	Dehydroabietic acid	2021/11/29			129	60 - 130	<10	ug/L				
7730920	Isopimaric acid	2021/11/29			124	60 - 130	<10	ug/L				
7730920	Levopimaric acid	2021/11/29			74	60 - 130	<10	ug/L				
7730920	Linoleic acid (C18:2)	2021/11/29			93	60 - 130	<10	ug/L				
7730920	Linolenic acid (C18:3)	2021/11/29			104	60 - 130	<10	ug/L				
7730920	Neoabietic acid	2021/11/29			107	60 - 130	<10	ug/L				
7730920	Oleic acid (C18:1)	2021/11/29			97	60 - 130	<10	ug/L				
7730920	Palmitic acid	2021/11/29			151 (1)	60 - 130	<30	ug/L				
7730920	Palmitoleic acid	2021/11/29			112	60 - 130	<10	ug/L				
7730920	Palustric acid	2021/11/29			115	60 - 130	<10	ug/L				
7730920	Pimaric acid	2021/11/29			121	60 - 130	<10	ug/L				
7730920	Sandaracopimaric acid	2021/11/29			117	60 - 130	<10	ug/L				
7730920	Stearic acid	2021/11/29			150 (1)	60 - 130	<30	ug/L				
7730920	Total Resin and Fatty Acids (RRPPM)	2021/11/29					<30	ug/L				

N/A = Not Applicable

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

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

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

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

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

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

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

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

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



VALIDATION SIGNATURE PAGE

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

Anastassia Hamanov, Scientific Specialist

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

Frederic Arnau, B.Sc., Chemist, Scientific Service Specialist

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



Bureau Veritas Laboratories
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11-Nov-21 15:30
Jolanta Goralczyk
C1X2788
RJM FNV.157R
C#848637-18-01

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 Name: EQ LEACH EQ LEACH Site #: _____ Sampled By: _____		nly: _____ Bottle Order #: _____ 848637 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											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		Comments	
<input type="checkbox"/> Table 3	<input type="checkbox"/> Agri/Other	<input type="checkbox"/> For RSC	<input type="checkbox"/> MISA	Municipality _____												18			
<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															
	EQ LEACH	21/11/10	AM	Water	N/A	X													
1																			
2																			
3																			
4																			
5																			
6																			
7																			
8																			
9																			
10																			

* RELINQUISHED BY: (Signature/Print) C. Richardson / Cooper Richardson	Date: (YY/MM/DD) 21/11/11	Time 9:15	RECEIVED BY: (Signature/Print) Y. Thompson	Date: (YY/MM/DD) 21/11/11	Time 15:30	# jars used and not submitted	Laboratory Use Only		Custody Seal		Yes	No
							Time Sensitive	Temperature (°C) on Recept 4/7/6; 4/3/2	Present	Intact	<input checked="" type="checkbox"/>	<input type="checkbox"/>

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

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

White: BV Labs Yellow: Client
ICE: Y

#470304