InnoTech ALBERTA
PO Bag 4000
Vegreville, Alberta
Canada T9C 1T4
(780) 632-8211

ENVIRONMENTAL ANALYTICAL SERVICES

TEST REPORT

RESULTS:

Alberta Environment & Parks (AEP)
McIntyre Center
4816-89 St
Edmonton
AB T6E 5K1

INVOICE: EMSD-Finance
10th Floor
9888 Jasper Avenue
Edmonton
AB T5J 5C6

CLIENT SAMPLE ID	GROUP SAMPLE ID	PROJECT NUMBER
23SWE12101		ABS271
STATION ID	**SAMPLER ID**	**Matrix**
		Water

STATION DESCRIPTION: Site # 1

DATE SAMPLED: 11-Mar-23 13:15 **DATE RECEIVED:** 13-Mar-23
REPORT CREATED: 17-Mar-23 **REPORT NUMBER:** 23030109
REPORT REVISED: 20-Mar-23 **VERSION:** Version 02

AGENCY	MATRIX	TYPE	COLLECTION

Lab ID	Parameter	Qualifier	Result	Units	RDL	VMV	Method	Analysis Date
23030109-001	Aluminum, Dissolved	I	2.7	ug/L	0.4	103927	AC-038	16-Mar-23
23030109-001	Antimony, Dissolved	K, T, U	< 0.09	ug/L	0.09	103951	AC-038	16-Mar-23
23030109-001	Arsenic, Dissolved		0.17	ug/L	0.01	103928	AC-038	16-Mar-23
23030109-001	Barium, Dissolved		13.3	ug/L	0.05	103930	AC-038	16-Mar-23
23030109-001	Beryllium, Dissolved	K, T, U	< 0.004	ug/L	0.004	103931	AC-038	16-Mar-23
23030109-001	Bismuth, Dissolved	K, T, U	< 0.003	ug/L	0.003	103932	AC-038	16-Mar-23
23030109-001	Boron, Dissolved		11.4	ug/L	0.2	103929	AC-038	16-Mar-23
23030109-001	Bromine, Dissolved		43.0	ug/L	0.09	108051	AC-038	16-Mar-23
23030109-001	Cadmium, Dissolved	K, T, U	< 0.002	ug/L	0.002	103934	AC-038	16-Mar-23
23030109-001	Calcium, Dissolved		7.69	mg/L	0.03	103933	AC-038	16-Mar-23
23030109-001	Cerium, Dissolved		0.011	ug/L	0.002	48430	AC-038	16-Mar-23
23030109-001	Cesium, Dissolved	K, T, U	< 0.001	ug/L	0.001		AC-038	16-Mar-23
23030109-001	Chlorine, Dissolved		2.8	mg/L	0.2	103935	AC-038	16-Mar-23
23030109-001	Chromium, Dissolved	K, T, U	< 0.3	ug/L	0.3	103937	AC-038	16-Mar-23
23030109-001	Cobalt, Dissolved	I	0.010	ug/L	0.006	103936	AC-038	16-Mar-23
23030109-001	Copper, Dissolved	I	0.40	ug/L	0.08	103938	AC-038	16-Mar-23
23030109-001	Dysprosium, Dissolved		0.004	ug/L	0.001	48431	AC-038	16-Mar-23
23030109-001	Erbium, Dissolved		0.0016	ug/L	0.0004	48432	AC-038	16-Mar-23

Report certified by: Andrea Conner, Admin Assistant On behalf of: Adam Malcolm, Manager, Chemical Testing
Date: March 20, 2023
InnoTech's ISO/IEC 17025:2017 scope of accreditation can be located at https://directory.cala.ca//

InnoTech ALBERTA
PO Bag 4000
Vegreville, Alberta
Canada T9C 1T4
(780) 632-8211

ENVIRONMENTAL ANALYTICAL SERVICES

TEST REPORT

CLIENT SAMPLE ID	GROUP SAMPLE ID	Matrix	PROJECT NUMBER	STATION ID	SAMPLER ID
23SWE12101		Water	ABS271		

DATE SAMPLED: 11-Mar-23 13:15 **STATION DESCRIPTION:** Site # 1

REPORT NUMBER: 23030109 **REPORT CREATED:** 17-Mar-23 **REPORT REVISED:** 20-Mar-23 **VERSION:** Version 02

AGENCY: **MATRIX:** **TYPE:** **COLLECTION:**

Lab ID	Parameter	Qualifier	Result	Units	RDL	VMV	Method	Analysis Date
23030109-001	Europium, Dissolved	K, T, U	< 0.001	ug/L	0.001	48433	AC-038	16-Mar-23
23030109-001	Gadolinium, Dissolved		0.003	ug/L	0.001	48434	AC-038	16-Mar-23
23030109-001	Gallium, Dissolved		0.006	ug/L	0.001		AC-038	16-Mar-23
23030109-001	Germanium, Dissolved		0.003	ug/L	0.003		AC-038	16-Mar-23
23030109-001	Gold, Dissolved	K, T, U	< 0.002	ug/L	0.002		AC-038	16-Mar-23
23030109-001	Holmium, Dissolved		0.0005	ug/L	0.0004	48435	AC-038	16-Mar-23
23030109-001	Indium, Dissolved	K, T, U	< 0.001	ug/L	0.001		AC-038	16-Mar-23
23030109-001	Iron, Dissolved	I	5	ug/L	2	103939	AC-038	16-Mar-23
23030109-001	Lanthanum, Dissolved		0.010	ug/L	0.009	48436	AC-038	16-Mar-23
23030109-001	Lead, Dissolved	K, T, U	< 0.02	ug/L	0.02	103949	AC-038	16-Mar-23
23030109-001	Lithium, Dissolved		2.74	ug/L	0.02	103942	AC-038	16-Mar-23
23030109-001	Magnesium, Dissolved		2.24	mg/L	0.004	103943	AC-038	16-Mar-23
23030109-001	Manganese, Dissolved		0.368	ug/L	0.01	103944	AC-038	16-Mar-23
23030109-001	Mercury, Dissolved	K, T, U	< 0.06	ug/L	0.06	103940	AC-038	16-Mar-23
23030109-001	Molybdenum, Dissolved		0.202	ug/L	0.005	103945	AC-038	16-Mar-23
23030109-001	Neodymium, Dissolved		0.011	ug/L	0.005	48438	AC-038	16-Mar-23
23030109-001	Nickel, Dissolved		0.31	ug/L	0.03	103947	AC-038	16-Mar-23
23030109-001	Niobium, Dissolved	K, T, U	< 0.0007	ug/L	0.0007		AC-038	16-Mar-23
23030109-001	Palladium, Dissolved	K, T, U	< 0.004	ug/L	0.004		AC-038	16-Mar-23
23030109-001	Phosphorus, Dissolved	K, T, U	< 3	ug/L	3	103948	AC-038	16-Mar-23
23030109-001	Platinum, Dissolved	K, T, U	< 0.0005	ug/L	0.0005		AC-038	16-Mar-23
23030109-001	Potassium, Dissolved		910	ug/L	3	103941	AC-038	16-Mar-23
23030109-001	Praseodymium, Dissolved		0.003	ug/L	0.002	48439	AC-038	16-Mar-23
23030109-001	Rubidium, Dissolved		1.01	ug/L	0.003		AC-038	16-Mar-23

Report certified by: Andrea Conner, Admin Assistant On behalf of: Adam Malcolm, Manager, Chemical Testing

Date: March 20, 2023

InnoTech's ISO/IEC 17025:2017 scope of accreditation can be located at https://directory.cala.ca//

InnoTech ALBERTA
PO Bag 4000
Vegreville, Alberta
Canada T9C 1T4
(780) 632-8211

ENVIRONMENTAL ANALYTICAL SERVICES

TEST REPORT

CLIENT SAMPLE ID	GROUP SAMPLE ID	Matrix	PROJECT NUMBER	STATION ID	SAMPLER ID
23SWE12101		Water	ABS271		

DATE SAMPLED: 11-Mar-23 13:15 **STATION DESCRIPTION:** Site # 1

REPORT NUMBER: 23030109 **REPORT CREATED:** 17-Mar-23 **REPORT REVISED:** 20-Mar-23 **VERSION:** Version 02

AGENCY: **MATRIX:** **TYPE:** **COLLECTION:**

Lab ID	Parameter	Qualifier	Result	Units	RDL	VMV	Method	Analysis Date
23030109-001	Samarium, Dissolved	K, T, U	< 0.004	ug/L	0.004	48440	AC-038	16-Mar-23
23030109-001	Scandium, Dissolved		0.07	ug/L	0.04	48441	AC-038	16-Mar-23
23030109-001	Selenium, Dissolved	K, T, U	< 0.2	ug/L	0.2	103952	AC-038	16-Mar-23
23030109-001	Silicon, Dissolved		2.49	mg/L	0.02	103953	AC-038	16-Mar-23
23030109-001	Silver, Dissolved	K, T, U	< 0.003	ug/L	0.003	103926	AC-038	16-Mar-23
23030109-001	Sodium, Dissolved		2580	ug/L	21	103946	AC-038	16-Mar-23
23030109-001	Strontium, Dissolved		53.4	ug/L	0.07	103955	AC-038	16-Mar-23
23030109-001	Sulfur, Dissolved		1.1	mg/L	0.2	103950	AC-038	16-Mar-23
23030109-001	Tantalum, Dissolved	K, T, U	< 0.003	ug/L	0.003		AC-038	16-Mar-23
23030109-001	Tellurium, Dissolved	K, T, U	< 0.008	ug/L	0.008		AC-038	16-Mar-23
23030109-001	Terbium, Dissolved		0.0005	ug/L	0.0004	48442	AC-038	16-Mar-23
23030109-001	Thallium, Dissolved	K, T, U	< 0.002	ug/L	0.002	103958	AC-038	16-Mar-23
23030109-001	Thorium, Dissolved	I	0.003	ug/L	0.002	103956	AC-038	16-Mar-23
23030109-001	Tin, Dissolved	K, T, U	< 0.06	ug/L	0.06	103954	AC-038	16-Mar-23
23030109-001	Titanium, Dissolved		0.26	ug/L	0.03	103957	AC-038	16-Mar-23
23030109-001	Tungsten, Dissolved	K, T, U	< 0.002	ug/L	0.002		AC-038	16-Mar-23
23030109-001	Uranium, Dissolved		0.079	ug/L	0.002	103959	AC-038	16-Mar-23
23030109-001	Vanadium, Dissolved	I	0.035	ug/L	0.006	103960	AC-038	16-Mar-23
23030109-001	Ytterbium, Dissolved		0.002	ug/L	0.002	48444	AC-038	16-Mar-23
23030109-001	Yttrium, Dissolved		0.018	ug/L	0.001	48445	AC-038	16-Mar-23
23030109-001	Zinc, Dissolved	K, T, U	< 0.3	ug/L	0.3	103961	AC-038	16-Mar-23
23030109-001	Zirconium, Dissolved		0.014	ug/L	0.008	48446	AC-038	16-Mar-23
23030109-001	Aluminum, Total		60.5	ug/L	0.4	103999	AC-038	16-Mar-23
23030109-001	Antimony, Total	I	0.025	ug/L	0.008	80043	AC-038	16-Mar-23

Report certified by: Andrea Conner, Admin Assistant On behalf of: Adam Malcolm, Manager, Chemical Testing

Date: March 20, 2023

InnoTech's ISO/IEC 17025:2017 scope of accreditation can be located at https://directory.cala.ca//

InnoTech ALBERTA
PO Bag 4000
Vegreville, Alberta
Canada T9C 1T4
(780) 632-8211

ENVIRONMENTAL ANALYTICAL SERVICES

TEST REPORT

CLIENT SAMPLE ID	GROUP SAMPLE ID	Matrix	PROJECT NUMBER	STATION ID	SAMPLER ID
23SWE12101		Water	ABS271		

DATE SAMPLED: 11-Mar-23 13:15 **STATION DESCRIPTION:** Site # 1

REPORT NUMBER: 23030109 **REPORT CREATED:** 17-Mar-23 **REPORT REVISED:** 20-Mar-23 **VERSION:** Version 02

AGENCY: **MATRIX:** **TYPE:** **COLLECTION:**

Lab ID	Parameter	Qualifier	Result	Units	RDL	VMV	Method	Analysis Date
23030109-001	Arsenic, Total		0.21	ug/L	0.01	80020	AC-038	16-Mar-23
23030109-001	Barium, Total		13.9	ug/L	0.05	80022	AC-038	16-Mar-23
23030109-001	Beryllium, Total	I	0.004	ug/L	0.003	80023	AC-038	16-Mar-23
23030109-001	Bismuth, Total	K, T, U	< 0.003	ug/L	0.003	80024	AC-038	16-Mar-23
23030109-001	Boron, Total		11.9	ug/L	0.2	80021	AC-038	16-Mar-23
23030109-001	Bromine, Total		45.2	ug/L	0.2	108049	AC-038	16-Mar-23
23030109-001	Cadmium, Total	K, T, U	< 0.01	ug/L	0.01	80026	AC-038	16-Mar-23
23030109-001	Calcium, Total		7.74	mg/L	0.01	80025	AC-038	16-Mar-23
23030109-001	Cerium, Total		0.086	ug/L	0.003	48412	AC-038	16-Mar-23
23030109-001	Cesium, Total	I	0.014	ug/L	0.003		AC-038	16-Mar-23
23030109-001	Chlorine, Total		2.73	mg/L	0.03	80027	AC-038	16-Mar-23
23030109-001	Chromium, Total	I	0.1	ug/L	0.1	80029	AC-038	16-Mar-23
23030109-001	Cobalt, Total	I	0.033	ug/L	0.002	80028	AC-038	16-Mar-23
23030109-001	Copper, Total	I	0.47	ug/L	0.08	80030	AC-038	16-Mar-23
23030109-001	Dysprosium, Total	I	0.009	ug/L	0.006	48413	AC-038	16-Mar-23
23030109-001	Erbium, Total	K, T, U	< 0.007	ug/L	0.007	48414	AC-038	16-Mar-23
23030109-001	Europium, Total	I	0.003	ug/L	0.002	48415	AC-038	16-Mar-23
23030109-001	Gadolinium, Total	I	0.012	ug/L	0.006	48416	AC-038	16-Mar-23
23030109-001	Gallium, Total	I	0.021	ug/L	0.006		AC-038	16-Mar-23
23030109-001	Germanium, Total	K, T, U	< 0.02	ug/L	0.02		AC-038	16-Mar-23
23030109-001	Gold, Total	K, T, U	< 0.08	ug/L	0.08		AC-038	16-Mar-23
23030109-001	Holmium, Total	K, T, U	< 0.003	ug/L	0.003	48417	AC-038	16-Mar-23
23030109-001	Indium, Total	K, T, U	< 0.002	ug/L	0.002		AC-038	16-Mar-23
23030109-001	Iron, Total		75.0	ug/L	0.6	80031	AC-038	16-Mar-23

Report certified by: Andrea Conner, Admin Assistant On behalf of: Adam Malcolm, Manager, Chemical Testing

Date: March 20, 2023

InnoTech's ISO/IEC 17025:2017 scope of accreditation can be located at https://directory.cala.ca//

InnoTech ALBERTA
PO Bag 4000
Vegreville, Alberta
Canada T9C 1T4
(780) 632-8211

ENVIRONMENTAL ANALYTICAL SERVICES

TEST REPORT

CLIENT SAMPLE ID	GROUP SAMPLE ID	Matrix	PROJECT NUMBER	STATION ID	SAMPLER ID
23SWE12101		Water	ABS271		

DATE SAMPLED: 11-Mar-23 13:15 **STATION DESCRIPTION:** Site # 1

REPORT NUMBER: 23030109 **REPORT CREATED:** 17-Mar-23 **REPORT REVISED:** 20-Mar-23 **VERSION:** Version 02

AGENCY: **MATRIX:** **TYPE:** **COLLECTION:**

Lab ID	Parameter	Qualifier	Result	Units	RDL	VMV	Method	Analysis Date
23030109-001	Lanthanum, Total		0.051	ug/L	0.003	48418	AC-038	16-Mar-23
23030109-001	Lead, Total		0.050	ug/L	0.004	80041	AC-038	16-Mar-23
23030109-001	Lithium, Total		2.82	ug/L	0.007	48419	AC-038	16-Mar-23
23030109-001	Magnesium, Total		2.30	mg/L	0.0005	60079	AC-038	16-Mar-23
23030109-001	Manganese, Total		2.02	ug/L	0.04	80036	AC-038	16-Mar-23
23030109-001	Mercury, Total	K, T, U	< 0.02	ug/L	0.02	80032	AC-038	16-Mar-23
23030109-001	Molybdenum, Total		0.205	ug/L	0.002	80037	AC-038	16-Mar-23
23030109-001	Neodymium, Total		0.050	ug/L	0.006	48420	AC-038	16-Mar-23
23030109-001	Nickel, Total		0.42	ug/L	0.03	80039	AC-038	16-Mar-23
23030109-001	Niobium, Total	K, T, U	< 0.008	ug/L	0.008		AC-038	16-Mar-23
23030109-001	Palladium, Total	K, T, U	< 0.07	ug/L	0.07		AC-038	16-Mar-23
23030109-001	Phosphorus, Total	I	7	ug/L	3	80040	AC-038	16-Mar-23
23030109-001	Platinum, Total	K, T, U	< 0.08	ug/L	0.08		AC-038	16-Mar-23
23030109-001	Potassium, Total		941	ug/L	3	80033	AC-038	16-Mar-23
23030109-001	Praseodymium, Total	I	0.013	ug/L	0.003	48421	AC-038	16-Mar-23
23030109-001	Rubidium, Total		1.14	ug/L	0.004		AC-038	16-Mar-23
23030109-001	Samarium, Total	I	0.012	ug/L	0.005	48422	AC-038	16-Mar-23
23030109-001	Scandium, Total		0.09	ug/L	0.02	48423	AC-038	16-Mar-23
23030109-001	Selenium, Total	K, T, U	< 0.2	ug/L	0.2	80044	AC-038	16-Mar-23
23030109-001	Silicon, Total		2.67	mg/L	0.02	80045	AC-038	16-Mar-23
23030109-001	Silver, Total	I	0.001	ug/L	0.001	103998	AC-038	16-Mar-23
23030109-001	Sodium, Total		2630	ug/L	3	80038	AC-038	16-Mar-23
23030109-001	Strontium, Total		54.0	ug/L	0.07	80047	AC-038	16-Mar-23
23030109-001	Sulfur, Total		1.30	mg/L	0.4	80042	AC-038	16-Mar-23

Report certified by: Andrea Conner, Admin Assistant On behalf of: Adam Malcolm, Manager, Chemical Testing

Date: March 20, 2023

InnoTech's ISO/IEC 17025:2017 scope of accreditation can be located at https://directory.cala.ca//

InnoTech ALBERTA
PO Bag 4000
Vegreville, Alberta
Canada T9C 1T4
(780) 632-8211

ENVIRONMENTAL ANALYTICAL SERVICES

TEST REPORT

CLIENT SAMPLE ID	GROUP SAMPLE ID	Matrix	PROJECT NUMBER	STATION ID	SAMPLER ID
23SWE12101		Water	ABS271		

DATE SAMPLED: 11-Mar-23 13:15 **STATION DESCRIPTION:** Site # 1

REPORT NUMBER: 23030109 **REPORT CREATED:** 17-Mar-23 **REPORT REVISED:** 20-Mar-23 **VERSION:** Version 02

AGENCY: **MATRIX:** **TYPE:** **COLLECTION:**

Lab ID	Parameter	Qualifier	Result	Units	RDL	VMV	Method	Analysis Date
23030109-001	Tantalum, Total	K, T, U	< 0.02	ug/L	0.02		AC-038	16-Mar-23
23030109-001	Tellurium, Total	K, T, U	< 0.09	ug/L	0.09		AC-038	16-Mar-23
23030109-001	Terbium, Total	K, T, U	< 0.003	ug/L	0.003	48424	AC-038	16-Mar-23
23030109-001	Thallium, Total	I	0.003	ug/L	0.002	80053	AC-038	16-Mar-23
23030109-001	Thorium, Total	I	0.011	ug/L	0.002	80048	AC-038	16-Mar-23
23030109-001	Tin, Total	K, T, U	< 0.06	ug/L	0.06	80046	AC-038	16-Mar-23
23030109-001	Titanium, Total		0.90	ug/L	0.03	80049	AC-038	16-Mar-23
23030109-001	Tungsten, Total	K, T, U	< 0.009	ug/L	0.009		AC-038	16-Mar-23
23030109-001	Uranium, Total		0.087	ug/L	0.002	80054	AC-038	16-Mar-23
23030109-001	Vanadium, Total		0.200	ug/L	0.007	80055	AC-038	16-Mar-23
23030109-001	Ytterbium, Total	I	0.004	ug/L	0.004	48426	AC-038	16-Mar-23
23030109-001	Yttrium, Total		0.058	ug/L	0.004	48427	AC-038	16-Mar-23
23030109-001	Zinc, Total	I	0.8	ug/L	0.2	80056	AC-038	16-Mar-23
23030109-001	Zirconium, Total	I	0.033	ug/L	0.007	48428	AC-038	16-Mar-23

Report certified by: Andrea Conner, Admin Assistant On behalf of: Adam Malcolm, Manager, Chemical Testing

Date: March 20, 2023

InnoTech's ISO/IEC 17025:2017 scope of accreditation can be located at https://directory.cala.ca//

InnoTech ALBERTA
PO Bag 4000
Vegreville, Alberta
Canada T9C 1T4
(780) 632-8211

ENVIRONMENTAL ANALYTICAL SERVICES

TEST REPORT

CLIENT SAMPLE ID	GROUP SAMPLE ID	Matrix	PROJECT NUMBER	STATION ID	SAMPLER ID
23SWE12102		Water	ABS271		

DATE SAMPLED: 11-Mar-23 13:30 **STATION DESCRIPTION:** Site # 2

REPORT NUMBER: 23030109 **REPORT CREATED:** 17-Mar-23 **REPORT REVISED:** 20-Mar-23 **VERSION:** Version 02

AGENCY: **MATRIX:** **TYPE:** **COLLECTION:**

Lab ID	Parameter	Qualifier	Result	Units	RDL	VMV	Method	Analysis Date
23030109-002	Aluminum, Dissolved	I	2.0	ug/L	0.4	103927	AC-038	16-Mar-23
23030109-002	Antimony, Dissolved	K, T, U	< 0.09	ug/L	0.09	103951	AC-038	16-Mar-23
23030109-002	Arsenic, Dissolved		0.16	ug/L	0.01	103928	AC-038	16-Mar-23
23030109-002	Barium, Dissolved		13.2	ug/L	0.05	103930	AC-038	16-Mar-23
23030109-002	Beryllium, Dissolved	K, T, U	< 0.004	ug/L	0.004	103931	AC-038	16-Mar-23
23030109-002	Bismuth, Dissolved	K, T, U	< 0.003	ug/L	0.003	103932	AC-038	16-Mar-23
23030109-002	Boron, Dissolved		12.0	ug/L	0.2	103929	AC-038	16-Mar-23
23030109-002	Bromine, Dissolved		49.1	ug/L	0.09	108051	AC-038	16-Mar-23
23030109-002	Cadmium, Dissolved	I	0.002	ug/L	0.002	103934	AC-038	16-Mar-23
23030109-002	Calcium, Dissolved		7.76	mg/L	0.03	103933	AC-038	16-Mar-23
23030109-002	Cerium, Dissolved		0.013	ug/L	0.002	48430	AC-038	16-Mar-23
23030109-002	Cesium, Dissolved	K, T, U	< 0.001	ug/L	0.001		AC-038	16-Mar-23
23030109-002	Chlorine, Dissolved		2.8	mg/L	0.2	103935	AC-038	16-Mar-23
23030109-002	Chromium, Dissolved	K, T, U	< 0.3	ug/L	0.3	103937	AC-038	16-Mar-23
23030109-002	Cobalt, Dissolved	I	0.010	ug/L	0.006	103936	AC-038	16-Mar-23
23030109-002	Copper, Dissolved	I	0.39	ug/L	0.08	103938	AC-038	16-Mar-23
23030109-002	Dysprosium, Dissolved		0.003	ug/L	0.001	48431	AC-038	16-Mar-23
23030109-002	Erbium, Dissolved		0.0020	ug/L	0.0004	48432	AC-038	16-Mar-23
23030109-002	Europium, Dissolved		0.001	ug/L	0.001	48433	AC-038	16-Mar-23
23030109-002	Gadolinium, Dissolved		0.003	ug/L	0.001	48434	AC-038	16-Mar-23
23030109-002	Gallium, Dissolved		0.002	ug/L	0.001		AC-038	16-Mar-23
23030109-002	Germanium, Dissolved	K, T, U	< 0.003	ug/L	0.003		AC-038	16-Mar-23
23030109-002	Gold, Dissolved	K, T, U	< 0.002	ug/L	0.002		AC-038	16-Mar-23
23030109-002	Holmium, Dissolved		0.0006	ug/L	0.0004	48435	AC-038	16-Mar-23

Report certified by: Andrea Conner, Admin Assistant On behalf of: Adam Malcolm, Manager, Chemical Testing

Date: March 20, 2023

InnoTech's ISO/IEC 17025:2017 scope of accreditation can be located at https://directory.cala.ca//

InnoTech ALBERTA
PO Bag 4000
Vegreville, Alberta
Canada T9C 1T4
(780) 632-8211

ENVIRONMENTAL ANALYTICAL SERVICES

TEST REPORT

CLIENT SAMPLE ID	GROUP SAMPLE ID	Matrix	PROJECT NUMBER	STATION ID	SAMPLER ID
23SWE12102		Water	ABS271		

DATE SAMPLED: 11-Mar-23 13:30 **STATION DESCRIPTION:** Site # 2

REPORT NUMBER: 23030109 **REPORT CREATED:** 17-Mar-23 **REPORT REVISED:** 20-Mar-23 **VERSION:** Version 02

AGENCY: **MATRIX:** **TYPE:** **COLLECTION:**

Lab ID	Parameter	Qualifier	Result	Units	RDL	VMV	Method	Analysis Date
23030109-002	Indium, Dissolved	K, T, U	< 0.001	ug/L	0.001		AC-038	16-Mar-23
23030109-002	Iron, Dissolved	I	5	ug/L	2	103939	AC-038	16-Mar-23
23030109-002	Lanthanum, Dissolved		0.010	ug/L	0.009	48436	AC-038	16-Mar-23
23030109-002	Lead, Dissolved	K, T, U	< 0.02	ug/L	0.02	103949	AC-038	16-Mar-23
23030109-002	Lithium, Dissolved		2.87	ug/L	0.02	103942	AC-038	16-Mar-23
23030109-002	Magnesium, Dissolved		2.33	mg/L	0.004	103943	AC-038	16-Mar-23
23030109-002	Manganese, Dissolved		0.383	ug/L	0.01	103944	AC-038	16-Mar-23
23030109-002	Mercury, Dissolved	K, T, U	< 0.06	ug/L	0.06	103940	AC-038	16-Mar-23
23030109-002	Molybdenum, Dissolved		0.201	ug/L	0.005	103945	AC-038	16-Mar-23
23030109-002	Neodymium, Dissolved		0.013	ug/L	0.005	48438	AC-038	16-Mar-23
23030109-002	Nickel, Dissolved		0.34	ug/L	0.03	103947	AC-038	16-Mar-23
23030109-002	Niobium, Dissolved		0.0008	ug/L	0.0007		AC-038	16-Mar-23
23030109-002	Palladium, Dissolved	K, T, U	< 0.004	ug/L	0.004		AC-038	16-Mar-23
23030109-002	Phosphorus, Dissolved	K, T, U	< 3	ug/L	3	103948	AC-038	16-Mar-23
23030109-002	Platinum, Dissolved	K, T, U	< 0.0005	ug/L	0.0005		AC-038	16-Mar-23
23030109-002	Potassium, Dissolved		937	ug/L	3	103941	AC-038	16-Mar-23
23030109-002	Praseodymium, Dissolved		0.003	ug/L	0.002	48439	AC-038	16-Mar-23
23030109-002	Rubidium, Dissolved		0.986	ug/L	0.003		AC-038	16-Mar-23
23030109-002	Samarium, Dissolved	K, T, U	< 0.004	ug/L	0.004	48440	AC-038	16-Mar-23
23030109-002	Scandium, Dissolved		0.08	ug/L	0.04	48441	AC-038	16-Mar-23
23030109-002	Selenium, Dissolved	K, T, U	< 0.2	ug/L	0.2	103952	AC-038	16-Mar-23
23030109-002	Silicon, Dissolved		2.52	mg/L	0.02	103953	AC-038	16-Mar-23
23030109-002	Silver, Dissolved	K, T, U	< 0.003	ug/L	0.003	103926	AC-038	16-Mar-23
23030109-002	Sodium, Dissolved		2660	ug/L	21	103946	AC-038	16-Mar-23

Report certified by: Andrea Conner, Admin Assistant On behalf of: Adam Malcolm, Manager, Chemical Testing

Date: March 20, 2023

InnoTech's ISO/IEC 17025:2017 scope of accreditation can be located at https://directory.cala.ca//

InnoTech ALBERTA
PO Bag 4000
Vegreville, Alberta
Canada T9C 1T4
(780) 632-8211

ENVIRONMENTAL ANALYTICAL SERVICES

TEST REPORT

CLIENT SAMPLE ID	GROUP SAMPLE ID	Matrix	PROJECT NUMBER	STATION ID	SAMPLER ID
23SWE12102		Water	ABS271		

DATE SAMPLED: 11-Mar-23 13:30 **STATION DESCRIPTION:** Site # 2

REPORT NUMBER: 23030109 **REPORT CREATED:** 17-Mar-23 **REPORT REVISED:** 20-Mar-23 **VERSION:** Version 02

AGENCY: **MATRIX:** **TYPE:** **COLLECTION:**

Lab ID	Parameter	Qualifier	Result	Units	RDL	VMV	Method	Analysis Date
23030109-002	Strontium, Dissolved		53.8	ug/L	0.07	103955	AC-038	16-Mar-23
23030109-002	Sulfur, Dissolved		1.4	mg/L	0.2	103950	AC-038	16-Mar-23
23030109-002	Tantalum, Dissolved	K, T, U	< 0.003	ug/L	0.003		AC-038	16-Mar-23
23030109-002	Tellurium, Dissolved	K, T, U	< 0.008	ug/L	0.008		AC-038	16-Mar-23
23030109-002	Terbium, Dissolved		0.0005	ug/L	0.0004	48442	AC-038	16-Mar-23
23030109-002	Thallium, Dissolved	K, T, U	< 0.002	ug/L	0.002	103958	AC-038	16-Mar-23
23030109-002	Thorium, Dissolved	I	0.004	ug/L	0.002	103956	AC-038	16-Mar-23
23030109-002	Tin, Dissolved	K, T, U	< 0.06	ug/L	0.06	103954	AC-038	16-Mar-23
23030109-002	Titanium, Dissolved		0.18	ug/L	0.03	103957	AC-038	16-Mar-23
23030109-002	Tungsten, Dissolved	K, T, U	< 0.002	ug/L	0.002		AC-038	16-Mar-23
23030109-002	Uranium, Dissolved		0.083	ug/L	0.002	103959	AC-038	16-Mar-23
23030109-002	Vanadium, Dissolved	I	0.039	ug/L	0.006	103960	AC-038	16-Mar-23
23030109-002	Ytterbium, Dissolved	K, T, U	< 0.002	ug/L	0.002	48444	AC-038	16-Mar-23
23030109-002	Yttrium, Dissolved		0.023	ug/L	0.001	48445	AC-038	16-Mar-23
23030109-002	Zinc, Dissolved	I	0.9	ug/L	0.3	103961	AC-038	16-Mar-23
23030109-002	Zirconium, Dissolved		0.011	ug/L	0.008	48446	AC-038	16-Mar-23
23030109-002	Aluminum, Total		69.1	ug/L	0.4	103999	AC-038	16-Mar-23
23030109-002	Antimony, Total	I	0.026	ug/L	0.008	80043	AC-038	16-Mar-23
23030109-002	Arsenic, Total		0.21	ug/L	0.01	80020	AC-038	16-Mar-23
23030109-002	Barium, Total		14.3	ug/L	0.05	80022	AC-038	16-Mar-23
23030109-002	Beryllium, Total	I	0.005	ug/L	0.003	80023	AC-038	16-Mar-23
23030109-002	Bismuth, Total	K, T, U	< 0.003	ug/L	0.003	80024	AC-038	16-Mar-23
23030109-002	Boron, Total		12.1	ug/L	0.2	80021	AC-038	16-Mar-23
23030109-002	Bromine, Total		45.5	ug/L	0.2	108049	AC-038	16-Mar-23

Report certified by: Andrea Conner, Admin Assistant On behalf of: Adam Malcolm, Manager, Chemical Testing

Date: March 20, 2023

InnoTech's ISO/IEC 17025:2017 scope of accreditation can be located at https://directory.cala.ca//

InnoTech ALBERTA
PO Bag 4000
Vegreville, Alberta
Canada T9C 1T4
(780) 632-8211

ENVIRONMENTAL ANALYTICAL SERVICES

TEST REPORT

CLIENT SAMPLE ID	GROUP SAMPLE ID	Matrix	PROJECT NUMBER	STATION ID	SAMPLER ID
23SWE12102		Water	ABS271		

DATE SAMPLED: 11-Mar-23 13:30 **STATION DESCRIPTION:** Site # 2

REPORT NUMBER: 23030109 **REPORT CREATED:** 17-Mar-23 **REPORT REVISED:** 20-Mar-23 **VERSION:** Version 02

AGENCY: **MATRIX:** **TYPE:** **COLLECTION:**

Lab ID	Parameter	Qualifier	Result	Units	RDL	VMV	Method	Analysis Date
23030109-002	Cadmium, Total	K, T, U	< 0.01	ug/L	0.01	80026	AC-038	16-Mar-23
23030109-002	Calcium, Total		8.03	mg/L	0.01	80025	AC-038	16-Mar-23
23030109-002	Cerium, Total		0.097	ug/L	0.003	48412	AC-038	16-Mar-23
23030109-002	Cesium, Total	I	0.015	ug/L	0.003		AC-038	16-Mar-23
23030109-002	Chlorine, Total		2.75	mg/L	0.03	80027	AC-038	16-Mar-23
23030109-002	Chromium, Total	I	0.2	ug/L	0.1	80029	AC-038	16-Mar-23
23030109-002	Cobalt, Total	I	0.038	ug/L	0.002	80028	AC-038	16-Mar-23
23030109-002	Copper, Total	I	0.50	ug/L	0.08	80030	AC-038	16-Mar-23
23030109-002	Dysprosium, Total	I	0.013	ug/L	0.006	48413	AC-038	16-Mar-23
23030109-002	Erbium, Total	K, T, U	< 0.007	ug/L	0.007	48414	AC-038	16-Mar-23
23030109-002	Europium, Total	I	0.004	ug/L	0.002	48415	AC-038	16-Mar-23
23030109-002	Gadolinium, Total	I	0.016	ug/L	0.006	48416	AC-038	16-Mar-23
23030109-002	Gallium, Total		0.031	ug/L	0.006		AC-038	16-Mar-23
23030109-002	Germanium, Total	K, T, U	< 0.02	ug/L	0.02		AC-038	16-Mar-23
23030109-002	Gold, Total	K, T, U	< 0.08	ug/L	0.08		AC-038	16-Mar-23
23030109-002	Holmium, Total	K, T, U	< 0.003	ug/L	0.003	48417	AC-038	16-Mar-23
23030109-002	Indium, Total	K, T, U	< 0.002	ug/L	0.002		AC-038	16-Mar-23
23030109-002	Iron, Total		87.4	ug/L	0.6	80031	AC-038	16-Mar-23
23030109-002	Lanthanum, Total		0.062	ug/L	0.003	48418	AC-038	16-Mar-23
23030109-002	Lead, Total		0.055	ug/L	0.004	80041	AC-038	16-Mar-23
23030109-002	Lithium, Total		2.82	ug/L	0.007	48419	AC-038	16-Mar-23
23030109-002	Magnesium, Total		2.30	mg/L	0.0005	60079	AC-038	16-Mar-23
23030109-002	Manganese, Total		2.05	ug/L	0.04	80036	AC-038	16-Mar-23
23030109-002	Mercury, Total	K, T, U	< 0.02	ug/L	0.02	80032	AC-038	16-Mar-23

Report certified by: Andrea Conner, Admin Assistant On behalf of: Adam Malcolm, Manager, Chemical Testing

Date: March 20, 2023

InnoTech's ISO/IEC 17025:2017 scope of accreditation can be located at https://directory.cala.ca//

InnoTech ALBERTA
PO Bag 4000
Vegreville, Alberta
Canada T9C 1T4
(780) 632-8211

ENVIRONMENTAL ANALYTICAL SERVICES

TEST REPORT

CLIENT SAMPLE ID	GROUP SAMPLE ID	Matrix	PROJECT NUMBER	STATION ID	SAMPLER ID
23SWE12102		Water	ABS271		

DATE SAMPLED: 11-Mar-23 13:30 **STATION DESCRIPTION:** Site # 2

REPORT NUMBER: 23030109 **REPORT CREATED:** 17-Mar-23 **REPORT REVISED:** 20-Mar-23 **VERSION:** Version 02

AGENCY: **MATRIX:** **TYPE:** **COLLECTION:**

Lab ID	Parameter	Qualifier	Result	Units	RDL	VMV	Method	Analysis Date
23030109-002	Molybdenum, Total		0.201	ug/L	0.002	80037	AC-038	16-Mar-23
23030109-002	Neodymium, Total		0.066	ug/L	0.006	48420	AC-038	16-Mar-23
23030109-002	Nickel, Total		0.40	ug/L	0.03	80039	AC-038	16-Mar-23
23030109-002	Niobium, Total	K, T, U	< 0.008	ug/L	0.008		AC-038	16-Mar-23
23030109-002	Palladium, Total	K, T, U	< 0.07	ug/L	0.07		AC-038	16-Mar-23
23030109-002	Phosphorus, Total	I	8	ug/L	3	80040	AC-038	16-Mar-23
23030109-002	Platinum, Total	K, T, U	< 0.08	ug/L	0.08		AC-038	16-Mar-23
23030109-002	Potassium, Total		977	ug/L	3	80033	AC-038	16-Mar-23
23030109-002	Praseodymium, Total	I	0.016	ug/L	0.003	48421	AC-038	16-Mar-23
23030109-002	Rubidium, Total		1.19	ug/L	0.004		AC-038	16-Mar-23
23030109-002	Samarium, Total	I	0.016	ug/L	0.005	48422	AC-038	16-Mar-23
23030109-002	Scandium, Total		0.10	ug/L	0.02	48423	AC-038	16-Mar-23
23030109-002	Selenium, Total	K, T, U	< 0.2	ug/L	0.2	80044	AC-038	16-Mar-23
23030109-002	Silicon, Total		2.71	mg/L	0.02	80045	AC-038	16-Mar-23
23030109-002	Silver, Total	I	0.001	ug/L	0.001	103998	AC-038	16-Mar-23
23030109-002	Sodium, Total		2660	ug/L	3	80038	AC-038	16-Mar-23
23030109-002	Strontium, Total		55.9	ug/L	0.07	80047	AC-038	16-Mar-23
23030109-002	Sulfur, Total		1.34	mg/L	0.4	80042	AC-038	16-Mar-23
23030109-002	Tantalum, Total	K, T, U	< 0.02	ug/L	0.02		AC-038	16-Mar-23
23030109-002	Tellurium, Total	K, T, U	< 0.09	ug/L	0.09		AC-038	16-Mar-23
23030109-002	Terbium, Total	K, T, U	< 0.003	ug/L	0.003	48424	AC-038	16-Mar-23
23030109-002	Thallium, Total	I	0.003	ug/L	0.002	80053	AC-038	16-Mar-23
23030109-002	Thorium, Total	I	0.009	ug/L	0.002	80048	AC-038	16-Mar-23
23030109-002	Tin, Total	K, T, U	< 0.06	ug/L	0.06	80046	AC-038	16-Mar-23

Report certified by: Andrea Conner, Admin Assistant On behalf of: Adam Malcolm, Manager, Chemical Testing

Date: March 20, 2023

InnoTech's ISO/IEC 17025:2017 scope of accreditation can be located at https://directory.cala.ca//

InnoTech ALBERTA
PO Bag 4000
Vegreville, Alberta
Canada T9C 1T4
(780) 632-8211

ENVIRONMENTAL ANALYTICAL SERVICES

TEST REPORT

CLIENT SAMPLE ID	GROUP SAMPLE ID	Matrix	PROJECT NUMBER	STATION ID	SAMPLER ID
23SWE12102		Water	ABS271		

DATE SAMPLED: 11-Mar-23 13:30 **STATION DESCRIPTION:** Site # 2

REPORT NUMBER: 23030109 **REPORT CREATED:** 17-Mar-23 **REPORT REVISED:** 20-Mar-23 **VERSION:** Version 02

AGENCY: **MATRIX:** **TYPE:** **COLLECTION:**

Lab ID	Parameter	Qualifier	Result	Units	RDL	VMV	Method	Analysis Date
23030109-002	Titanium, Total		1.05	ug/L	0.03	80049	AC-038	16-Mar-23
23030109-002	Tungsten, Total	K, T, U	< 0.009	ug/L	0.009		AC-038	16-Mar-23
23030109-002	Uranium, Total		0.088	ug/L	0.002	80054	AC-038	16-Mar-23
23030109-002	Vanadium, Total		0.236	ug/L	0.007	80055	AC-038	16-Mar-23
23030109-002	Ytterbium, Total	I	0.005	ug/L	0.004	48426	AC-038	16-Mar-23
23030109-002	Yttrium, Total		0.067	ug/L	0.004	48427	AC-038	16-Mar-23
23030109-002	Zinc, Total	I	1.5	ug/L	0.2	80056	AC-038	16-Mar-23
23030109-002	Zirconium, Total	I	0.031	ug/L	0.007	48428	AC-038	16-Mar-23

Report certified by: Andrea Conner, Admin Assistant On behalf of: Adam Malcolm, Manager, Chemical Testing

Date: March 20, 2023

InnoTech's ISO/IEC 17025:2017 scope of accreditation can be located at https://directory.cala.ca//

InnoTech ALBERTA
PO Bag 4000
Vegreville, Alberta
Canada T9C 1T4
(780) 632-8211

ENVIRONMENTAL ANALYTICAL SERVICES

TEST REPORT

CLIENT SAMPLE ID	GROUP SAMPLE ID	Matrix	PROJECT NUMBER	STATION ID	SAMPLER ID
23SWE12103		Water	ABS271		

DATE SAMPLED: 11-Mar-23 14:55 **STATION DESCRIPTION:** Site # 3

REPORT NUMBER: 23030109 **REPORT CREATED:** 17-Mar-23 **REPORT REVISED:** 20-Mar-23 **VERSION:** Version 02

AGENCY: **MATRIX:** **TYPE:** **COLLECTION:**

Lab ID	Parameter	Qualifier	Result	Units	RDL	VMV	Method	Analysis Date
23030109-003	Aluminum, Dissolved	K, T, U	< 0.4	ug/L	0.4	103927	AC-038	16-Mar-23
23030109-003	Antimony, Dissolved	K, T, U	< 0.09	ug/L	0.09	103951	AC-038	16-Mar-23
23030109-003	Arsenic, Dissolved	K, T, U	< 0.01	ug/L	0.01	103928	AC-038	16-Mar-23
23030109-003	Barium, Dissolved	K, T, U	< 0.05	ug/L	0.05	103930	AC-038	16-Mar-23
23030109-003	Beryllium, Dissolved	K, T, U	< 0.004	ug/L	0.004	103931	AC-038	16-Mar-23
23030109-003	Bismuth, Dissolved	K, T, U	< 0.003	ug/L	0.003	103932	AC-038	16-Mar-23
23030109-003	Boron, Dissolved	K, T, U	< 0.2	ug/L	0.2	103929	AC-038	16-Mar-23
23030109-003	Bromine, Dissolved	K, T, U	< 0.09	ug/L	0.09	108051	AC-038	16-Mar-23
23030109-003	Cadmium, Dissolved	K, T, U	< 0.002	ug/L	0.002	103934	AC-038	16-Mar-23
23030109-003	Calcium, Dissolved	K, T, U	< 0.03	mg/L	0.03	103933	AC-038	16-Mar-23
23030109-003	Cerium, Dissolved	K, T, U	< 0.002	ug/L	0.002	48430	AC-038	16-Mar-23
23030109-003	Cesium, Dissolved	K, T, U	< 0.001	ug/L	0.001		AC-038	16-Mar-23
23030109-003	Chlorine, Dissolved	K, T, U	< 0.2	mg/L	0.2	103935	AC-038	16-Mar-23
23030109-003	Chromium, Dissolved	K, T, U	< 0.3	ug/L	0.3	103937	AC-038	16-Mar-23
23030109-003	Cobalt, Dissolved	K, T, U	< 0.006	ug/L	0.006	103936	AC-038	16-Mar-23
23030109-003	Copper, Dissolved	K, T, U	< 0.08	ug/L	0.08	103938	AC-038	16-Mar-23
23030109-003	Dysprosium, Dissolved	K, T, U	< 0.001	ug/L	0.001	48431	AC-038	16-Mar-23
23030109-003	Erbium, Dissolved	K, T, U	< 0.0004	ug/L	0.0004	48432	AC-038	16-Mar-23
23030109-003	Europium, Dissolved	K, T, U	< 0.001	ug/L	0.001	48433	AC-038	16-Mar-23
23030109-003	Gadolinium, Dissolved	K, T, U	< 0.001	ug/L	0.001	48434	AC-038	16-Mar-23
23030109-003	Gallium, Dissolved	K, T, U	< 0.001	ug/L	0.001		AC-038	16-Mar-23
23030109-003	Germanium, Dissolved	K, T, U	< 0.003	ug/L	0.003		AC-038	16-Mar-23
23030109-003	Gold, Dissolved	K, T, U	< 0.002	ug/L	0.002		AC-038	16-Mar-23
23030109-003	Holmium, Dissolved	K, T, U	< 0.0004	ug/L	0.0004	48435	AC-038	16-Mar-23

Report certified by: Andrea Conner, Admin Assistant On behalf of: Adam Malcolm, Manager, Chemical Testing

Date: March 20, 2023

InnoTech's ISO/IEC 17025:2017 scope of accreditation can be located at https://directory.cala.ca//

InnoTech ALBERTA
PO Bag 4000
Vegreville, Alberta
Canada T9C 1T4
(780) 632-8211

ENVIRONMENTAL ANALYTICAL SERVICES

TEST REPORT

CLIENT SAMPLE ID	GROUP SAMPLE ID	Matrix	PROJECT NUMBER	STATION ID	SAMPLER ID
23SWE12103		Water	ABS271		

DATE SAMPLED: 11-Mar-23 14:55 **STATION DESCRIPTION:** Site # 3

REPORT NUMBER: 23030109 **REPORT CREATED:** 17-Mar-23 **REPORT REVISED:** 20-Mar-23 **VERSION:** Version 02

AGENCY: **MATRIX:** **TYPE:** **COLLECTION:**

Lab ID	Parameter	Qualifier	Result	Units	RDL	VMV	Method	Analysis Date
23030109-003	Indium, Dissolved	K, T, U	< 0.001	ug/L	0.001		AC-038	16-Mar-23
23030109-003	Iron, Dissolved	K, T, U	< 2	ug/L	2	103939	AC-038	16-Mar-23
23030109-003	Lanthanum, Dissolved	K, T, U	< 0.009	ug/L	0.009	48436	AC-038	16-Mar-23
23030109-003	Lead, Dissolved	K, T, U	< 0.02	ug/L	0.02	103949	AC-038	16-Mar-23
23030109-003	Lithium, Dissolved	I	0.03	ug/L	0.02	103942	AC-038	16-Mar-23
23030109-003	Magnesium, Dissolved	K, T, U	< 0.004	mg/L	0.004	103943	AC-038	16-Mar-23
23030109-003	Manganese, Dissolved	K, T, U	< 0.01	ug/L	0.01	103944	AC-038	16-Mar-23
23030109-003	Mercury, Dissolved	K, T, U	< 0.06	ug/L	0.06	103940	AC-038	16-Mar-23
23030109-003	Molybdenum, Dissolved	K, T, U	< 0.005	ug/L	0.005	103945	AC-038	16-Mar-23
23030109-003	Neodymium, Dissolved	K, T, U	< 0.005	ug/L	0.005	48438	AC-038	16-Mar-23
23030109-003	Nickel, Dissolved	K, T, U	< 0.03	ug/L	0.03	103947	AC-038	16-Mar-23
23030109-003	Niobium, Dissolved	K, T, U	< 0.0007	ug/L	0.0007		AC-038	16-Mar-23
23030109-003	Palladium, Dissolved	K, T, U	< 0.004	ug/L	0.004		AC-038	16-Mar-23
23030109-003	Phosphorus, Dissolved	K, T, U	< 3	ug/L	3	103948	AC-038	16-Mar-23
23030109-003	Platinum, Dissolved	K, T, U	< 0.0005	ug/L	0.0005		AC-038	16-Mar-23
23030109-003	Potassium, Dissolved	K, T, U	< 3	ug/L	3	103941	AC-038	16-Mar-23
23030109-003	Praseodymium, Dissolved	K, T, U	< 0.002	ug/L	0.002	48439	AC-038	16-Mar-23
23030109-003	Rubidium, Dissolved	K, T, U	< 0.003	ug/L	0.003		AC-038	16-Mar-23
23030109-003	Samarium, Dissolved	K, T, U	< 0.004	ug/L	0.004	48440	AC-038	16-Mar-23
23030109-003	Scandium, Dissolved	K, T, U	< 0.04	ug/L	0.04	48441	AC-038	16-Mar-23
23030109-003	Selenium, Dissolved	K, T, U	< 0.2	ug/L	0.2	103952	AC-038	16-Mar-23
23030109-003	Silicon, Dissolved	K, T, U	< 0.02	mg/L	0.02	103953	AC-038	16-Mar-23
23030109-003	Silver, Dissolved	K, T, U	< 0.003	ug/L	0.003	103926	AC-038	16-Mar-23
23030109-003	Sodium, Dissolved	K, T, U	< 21	ug/L	21	103946	AC-038	16-Mar-23

Report certified by: Andrea Conner, Admin Assistant On behalf of: Adam Malcolm, Manager, Chemical Testing

Date: March 20, 2023

InnoTech's ISO/IEC 17025:2017 scope of accreditation can be located at https://directory.cala.ca//

InnoTech ALBERTA
PO Bag 4000
Vegreville, Alberta
Canada T9C 1T4
(780) 632-8211

ENVIRONMENTAL ANALYTICAL SERVICES

TEST REPORT

CLIENT SAMPLE ID	GROUP SAMPLE ID	Matrix	PROJECT NUMBER	STATION ID	SAMPLER ID
23SWE12103		Water	ABS271		

DATE SAMPLED: 11-Mar-23 14:55 **STATION DESCRIPTION:** Site # 3

REPORT NUMBER: 23030109 **REPORT CREATED:** 17-Mar-23 **REPORT REVISED:** 20-Mar-23 **VERSION:** Version 02

AGENCY: **MATRIX:** **TYPE:** **COLLECTION:**

Lab ID	Parameter	Qualifier	Result	Units	RDL	VMV	Method	Analysis Date
23030109-003	Strontium, Dissolved	K, T, U	< 0.07	ug/L	0.07	103955	AC-038	16-Mar-23
23030109-003	Sulfur, Dissolved	K, T, U	< 0.2	mg/L	0.2	103950	AC-038	16-Mar-23
23030109-003	Tantalum, Dissolved	K, T, U	< 0.003	ug/L	0.003		AC-038	16-Mar-23
23030109-003	Tellurium, Dissolved	K, T, U	< 0.008	ug/L	0.008		AC-038	16-Mar-23
23030109-003	Terbium, Dissolved	K, T, U	< 0.0004	ug/L	0.0004	48442	AC-038	16-Mar-23
23030109-003	Thallium, Dissolved	K, T, U	< 0.002	ug/L	0.002	103958	AC-038	16-Mar-23
23030109-003	Thorium, Dissolved	K, T, U	< 0.002	ug/L	0.002	103956	AC-038	16-Mar-23
23030109-003	Tin, Dissolved	K, T, U	< 0.06	ug/L	0.06	103954	AC-038	16-Mar-23
23030109-003	Titanium, Dissolved	K, T, U	< 0.03	ug/L	0.03	103957	AC-038	16-Mar-23
23030109-003	Tungsten, Dissolved	K, T, U	< 0.002	ug/L	0.002		AC-038	16-Mar-23
23030109-003	Uranium, Dissolved	K, T, U	< 0.002	ug/L	0.002	103959	AC-038	16-Mar-23
23030109-003	Vanadium, Dissolved	K, T, U	< 0.006	ug/L	0.006	103960	AC-038	16-Mar-23
23030109-003	Ytterbium, Dissolved	K, T, U	< 0.002	ug/L	0.002	48444	AC-038	16-Mar-23
23030109-003	Yttrium, Dissolved	K, T, U	< 0.001	ug/L	0.001	48445	AC-038	16-Mar-23
23030109-003	Zinc, Dissolved	K, T, U	< 0.3	ug/L	0.3	103961	AC-038	16-Mar-23
23030109-003	Zirconium, Dissolved	K, T, U	< 0.008	ug/L	0.008	48446	AC-038	16-Mar-23
23030109-003	Aluminum, Total	K, T, U	< 0.4	ug/L	0.4	103999	AC-038	16-Mar-23
23030109-003	Antimony, Total	K, T, U	< 0.008	ug/L	0.008	80043	AC-038	16-Mar-23
23030109-003	Arsenic, Total	K, T, U	< 0.01	ug/L	0.01	80020	AC-038	16-Mar-23
23030109-003	Barium, Total	K, T, U	< 0.05	ug/L	0.05	80022	AC-038	16-Mar-23
23030109-003	Beryllium, Total	K, T, U	< 0.003	ug/L	0.003	80023	AC-038	16-Mar-23
23030109-003	Bismuth, Total	K, T, U	< 0.003	ug/L	0.003	80024	AC-038	16-Mar-23
23030109-003	Boron, Total	K, T, U	< 0.2	ug/L	0.2	80021	AC-038	16-Mar-23
23030109-003	Bromine, Total	K, T, U	< 0.2	ug/L	0.2	108049	AC-038	16-Mar-23

Report certified by: Andrea Conner, Admin Assistant On behalf of: Adam Malcolm, Manager, Chemical Testing

Date: March 20, 2023

InnoTech's ISO/IEC 17025:2017 scope of accreditation can be located at https://directory.cala.ca//

InnoTech ALBERTA
PO Bag 4000
Vegreville, Alberta
Canada T9C 1T4
(780) 632-8211

ENVIRONMENTAL ANALYTICAL SERVICES

TEST REPORT

CLIENT SAMPLE ID	GROUP SAMPLE ID	Matrix	PROJECT NUMBER	STATION ID	SAMPLER ID
23SWE12103		Water	ABS271		

DATE SAMPLED: 11-Mar-23 14:55 **STATION DESCRIPTION:** Site # 3

REPORT NUMBER: 23030109 **REPORT CREATED:** 17-Mar-23 **REPORT REVISED:** 20-Mar-23 **VERSION:** Version 02

AGENCY: **MATRIX:** **TYPE:** **COLLECTION:**

Lab ID	Parameter	Qualifier	Result	Units	RDL	VMV	Method	Analysis Date
23030109-003	Cadmium, Total	K, T, U	< 0.01	ug/L	0.01	80026	AC-038	16-Mar-23
23030109-003	Calcium, Total	K, T, U	< 0.01	mg/L	0.01	80025	AC-038	16-Mar-23
23030109-003	Cerium, Total	K, T, U	< 0.003	ug/L	0.003	48412	AC-038	16-Mar-23
23030109-003	Cesium, Total	K, T, U	< 0.003	ug/L	0.003		AC-038	16-Mar-23
23030109-003	Chlorine, Total	K, T, U	< 0.03	mg/L	0.03	80027	AC-038	16-Mar-23
23030109-003	Chromium, Total	K, T, U	< 0.1	ug/L	0.1	80029	AC-038	16-Mar-23
23030109-003	Cobalt, Total	K, T, U	< 0.002	ug/L	0.002	80028	AC-038	16-Mar-23
23030109-003	Copper, Total	K, T, U	< 0.08	ug/L	0.08	80030	AC-038	16-Mar-23
23030109-003	Dysprosium, Total	K, T, U	< 0.006	ug/L	0.006	48413	AC-038	16-Mar-23
23030109-003	Erbium, Total	K, T, U	< 0.007	ug/L	0.007	48414	AC-038	16-Mar-23
23030109-003	Europium, Total	K, T, U	< 0.002	ug/L	0.002	48415	AC-038	16-Mar-23
23030109-003	Gadolinium, Total	K, T, U	< 0.006	ug/L	0.006	48416	AC-038	16-Mar-23
23030109-003	Gallium, Total	K, T, U	< 0.006	ug/L	0.006		AC-038	16-Mar-23
23030109-003	Germanium, Total	K, T, U	< 0.02	ug/L	0.02		AC-038	16-Mar-23
23030109-003	Gold, Total	K, T, U	< 0.08	ug/L	0.08		AC-038	16-Mar-23
23030109-003	Holmium, Total	K, T, U	< 0.003	ug/L	0.003	48417	AC-038	16-Mar-23
23030109-003	Indium, Total	K, T, U	< 0.002	ug/L	0.002		AC-038	16-Mar-23
23030109-003	Iron, Total	K, T, U	< 0.6	ug/L	0.6	80031	AC-038	16-Mar-23
23030109-003	Lanthanum, Total	K, T, U	< 0.003	ug/L	0.003	48418	AC-038	16-Mar-23
23030109-003	Lead, Total	K, T, U	< 0.004	ug/L	0.004	80041	AC-038	16-Mar-23
23030109-003	Lithium, Total	I	0.029	ug/L	0.007	48419	AC-038	16-Mar-23
23030109-003	Magnesium, Total	K, T, U	< 0.0005	mg/L	0.0005	60079	AC-038	16-Mar-23
23030109-003	Manganese, Total	K, T, U	< 0.04	ug/L	0.04	80036	AC-038	16-Mar-23
23030109-003	Mercury, Total	K, T, U	< 0.02	ug/L	0.02	80032	AC-038	16-Mar-23

Report certified by: Andrea Conner, Admin Assistant On behalf of: Adam Malcolm, Manager, Chemical Testing

Date: March 20, 2023

InnoTech's ISO/IEC 17025:2017 scope of accreditation can be located at https://directory.cala.ca//

InnoTech ALBERTA
PO Bag 4000
Vegreville, Alberta
Canada T9C 1T4
(780) 632-8211

ENVIRONMENTAL ANALYTICAL SERVICES

TEST REPORT

CLIENT SAMPLE ID	GROUP SAMPLE ID	Matrix	PROJECT NUMBER	STATION ID	SAMPLER ID
23SWE12103		Water	ABS271		

DATE SAMPLED: 11-Mar-23 14:55 **STATION DESCRIPTION:** Site # 3

REPORT NUMBER: 23030109 **REPORT CREATED:** 17-Mar-23 **REPORT REVISED:** 20-Mar-23 **VERSION:** Version 02

AGENCY: **MATRIX:** **TYPE:** **COLLECTION:**

Lab ID	Parameter	Qualifier	Result	Units	RDL	VMV	Method	Analysis Date
23030109-003	Molybdenum, Total	I	0.003	ug/L	0.002	80037	AC-038	16-Mar-23
23030109-003	Neodymium, Total	K, T, U	< 0.006	ug/L	0.006	48420	AC-038	16-Mar-23
23030109-003	Nickel, Total	K, T, U	< 0.03	ug/L	0.03	80039	AC-038	16-Mar-23
23030109-003	Niobium, Total	K, T, U	< 0.008	ug/L	0.008		AC-038	16-Mar-23
23030109-003	Palladium, Total	K, T, U	< 0.07	ug/L	0.07		AC-038	16-Mar-23
23030109-003	Phosphorus, Total	K, T, U	< 3	ug/L	3	80040	AC-038	16-Mar-23
23030109-003	Platinum, Total	K, T, U	< 0.08	ug/L	0.08		AC-038	16-Mar-23
23030109-003	Potassium, Total	K, T, U	< 3	ug/L	3	80033	AC-038	16-Mar-23
23030109-003	Praseodymium, Total	K, T, U	< 0.003	ug/L	0.003	48421	AC-038	16-Mar-23
23030109-003	Rubidium, Total	K, T, U	< 0.004	ug/L	0.004		AC-038	16-Mar-23
23030109-003	Samarium, Total	K, T, U	< 0.005	ug/L	0.005	48422	AC-038	16-Mar-23
23030109-003	Scandium, Total	K, T, U	< 0.02	ug/L	0.02	48423	AC-038	16-Mar-23
23030109-003	Selenium, Total	K, T, U	< 0.2	ug/L	0.2	80044	AC-038	16-Mar-23
23030109-003	Silicon, Total	K, T, U	< 0.02	mg/L	0.02	80045	AC-038	16-Mar-23
23030109-003	Silver, Total	K, T, U	< 0.001	ug/L	0.001	103998	AC-038	16-Mar-23
23030109-003	Sodium, Total	K, T, U	< 3	ug/L	3	80038	AC-038	16-Mar-23
23030109-003	Strontium, Total	K, T, U	< 0.07	ug/L	0.07	80047	AC-038	16-Mar-23
23030109-003	Sulfur, Total	K, T, U	< 0.4	mg/L	0.4	80042	AC-038	16-Mar-23
23030109-003	Tantalum, Total	K, T, U	< 0.02	ug/L	0.02		AC-038	16-Mar-23
23030109-003	Tellurium, Total	K, T, U	< 0.09	ug/L	0.09		AC-038	16-Mar-23
23030109-003	Terbium, Total	K, T, U	< 0.003	ug/L	0.003	48424	AC-038	16-Mar-23
23030109-003	Thallium, Total	K, T, U	< 0.002	ug/L	0.002	80053	AC-038	16-Mar-23
23030109-003	Thorium, Total	K, T, U	< 0.002	ug/L	0.002	80048	AC-038	16-Mar-23
23030109-003	Tin, Total	K, T, U	< 0.06	ug/L	0.06	80046	AC-038	16-Mar-23

Report certified by: Andrea Conner, Admin Assistant On behalf of: Adam Malcolm, Manager, Chemical Testing

Date: March 20, 2023

InnoTech's ISO/IEC 17025:2017 scope of accreditation can be located at https://directory.cala.ca//

PO Bag 4000
Vegreville, Alberta
Canada T9C 1T4
(780) 632-8211

ENVIRONMENTAL ANALYTICAL SERVICES

TEST REPORT

CLIENT SAMPLE ID	GROUP SAMPLE ID	Matrix	PROJECT NUMBER	STATION ID	SAMPLER ID
23SWE12103		Water	ABS271		

DATE SAMPLED: 11-Mar-23 14:55 **STATION DESCRIPTION:** Site # 3

REPORT NUMBER: 23030109 **REPORT CREATED:** 17-Mar-23 **REPORT REVISED:** 20-Mar-23 **VERSION:** Version 02

AGENCY: **MATRIX:** **TYPE:** **COLLECTION:**

Lab ID	Parameter	Qualifier	Result	Units	RDL	VMV	Method	Analysis Date
23030109-003	Titanium, Total	K, T, U	< 0.03	ug/L	0.03	80049	AC-038	16-Mar-23
23030109-003	Tungsten, Total	K, T, U	< 0.009	ug/L	0.009		AC-038	16-Mar-23
23030109-003	Uranium, Total	K, T, U	< 0.002	ug/L	0.002	80054	AC-038	16-Mar-23
23030109-003	Vanadium, Total	K, T, U	< 0.007	ug/L	0.007	80055	AC-038	16-Mar-23
23030109-003	Ytterbium, Total	K, T, U	< 0.004	ug/L	0.004	48426	AC-038	16-Mar-23
23030109-003	Yttrium, Total	K, T, U	< 0.004	ug/L	0.004	48427	AC-038	16-Mar-23
23030109-003	Zinc, Total	K, T, U	< 0.2	ug/L	0.2	80056	AC-038	16-Mar-23
23030109-003	Zirconium, Total	K, T, U	< 0.007	ug/L	0.007	48428	AC-038	16-Mar-23

Report certified by: Andrea Conner, Admin Assistant On behalf of: Adam Malcolm, Manager, Chemical Testing

Date: March 20, 2023

InnoTech's ISO/IEC 17025:2017 scope of accreditation can be located at https://directory.cala.ca//

Revision History

Order ID	Ver	Date	Reason
23030109	01	17-Mar-23	Report created
23030109	02	20-Mar-23	Correction to an error in the total recoverable LIMS test definition.

Methods

Method	Description
AC-038	Trace Metal Analysis of Water Samples by ICP-MS

List of Analytical Method IDs within InnoTech's ISO/IEC 17025:2017 CALA Scope of Accreditation

Method ID	Description
AC-013	Mercury in Waters by Cold Vapor Atomic Fluorescence Detection (CVAFS)
AC-020	Ion Chromatographic Procedures using the Dionex ICS 3000 and 5000 Systems
AC-021	Elemental Analysis Methodology of Filter-collected Airborne Particulate Matter (PM) by ICP-MS
AC-026	Ion Chromatographic Procedures using the Dionex ICS 3000 and 5000 Systems
AC-029	Procedure for the Equilibration and Weighing of Membrane Filters and PUFs on the Mettler Toledo Micro Balance
AC-035	Analysis of Glyphosate, Aminomethylphosphonic Acid and Glufosinate in Water
AC-038	Trace Metal Analysis of Water Samples by ICP-MS
AC-048	Specific Conductance (Conductivity Meter Method)
AC-049	pH (Meter Method)
AC-054	Alkalinity Total and Phenolphthalein
AC-058	Determination of Volatile Organic Compounds in Ambient Air by Gas Chromatography Mass Spectrometry
AC-060	Trace Metal Analysis of Soil Sediment and Industrial Waste Samples by Inductively Coupled Plasma Mass Spectrometry (ICP-MS)
AC-061	Trace Metal Analysis for Biological Samples by Inductively Coupled Plasma Mass Spectrometry (ICP-MS)
AC-065	Analysis of Naphthenic Acids in Water by HPLC-Orbitrap-MS analysis
AC-074	Pesticides in Water
AC-079	Alkylated PAH in Soil and Sediment
AC-080	Alkylated PAH in Water (SPE Extraction)
NA-006	Determination of BTEX, F1 Hydrocarbons and F2, F3 and F4 Hydrocarbons in Water
NA-024	Analysis of Reduced Sulfur Compounds in Air

PO Bag 4000
Vegreville, Alberta
Canada T9C 1T4
(780) 632-8211

Qualifiers

Data Qualifier	Translation
B	Blank contamination; Analyte detected above the method reporting limit in an associated blank
I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit
J1	Reported value is estimated; Surrogate recoveries limits were exceeded
J2	Reported value is estimated; No known QC criteria for this component
J3	Reported value is estimated; The value failed to meet QC criteria for either precision or accuracy
J4	Reported value is estimated; The sample matrix interfered with the analysis
K	Off-scale low. Actual value is known to be less than the value given
L	Off-scale high. Actual value is known to be greater than value given
N	Non-target analyte; Tentatively identified compound (using mass spectroscopy)
Q	Sample held beyond the accepted holding time
R	Rejected data; Not suitable for the projects intended use
T	Value reported is less than the laboratory method detection limit
U	Compound was analyzed for but not detected
V	Analyte was detected in both the sample and the associated method blank

Order Comments

23030109

Rec at 6-7°C. Alternate disposal required.

Sample Comments

23030109-001

Sample was slightly yellow in color.

23030109-002

Sample was slightly yellow in color.

23030109-003

Sample was slightly yellow in color.

Result Comments

Note:

1. Results relate only to items tested and apply to the sample as received.

2. This report shall not be reproduced, except in full, without the explicit approval of the laboratory.