

MVTL

MINNESOTA VALLEY TESTING LABORATORIES, INC.

1126 N. Front St. ~ New Ulm, MN 56073 ~ 800-782-3557 ~ Fax 507-359-2890

2616 E. Broadway Ave. ~ Bismarck, ND 58501 ~ 800-279-6885 ~ Fax 701-258-9724

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AN EQUAL OPPORTUNITY EMPLOYER

Page: 1 of 4

Barry Botnen
UND-Energy & Environmental
15 N. 23rd St.
Grand Forks ND 58201

Report Date: 7 Dec 21
Lab Number: 21-W4440
Work Order #: 82-3150
Account #: 007033
Date Sampled: 10 Nov 21 9:00
Date Received: 11 Nov 21 7:18
Sampled By: Client

Project Name: North Dakota Carbon Safe
Sample Description: NDCS-W269

Temp at Receipt: 1.2C ROI

	As Received Result		Method RL	Method Reference	Date Analyzed	Analyst
Metal Digestion				EPA 200.2	11 Nov 21	RAA
pH	* 7.7	units	N/A	SM4500-H+-B-11	11 Nov 21 18:00	RAA
Conductivity (EC)	1376	umhos/cm	N/A	SM2510B-11	11 Nov 21 18:00	RAA
Total Alkalinity	379	mg/l CaCO3	20	SM2320B-11	11 Nov 21 18:00	RAA
Phenolphthalein Alk	< 20	mg/l CaCO3	20	SM2320B-11	11 Nov 21 18:00	RAA
Bicarbonate	379	mg/l CaCO3	20	SM2320B-11	11 Nov 21 18:00	RAA
Carbonate	< 20	mg/l CaCO3	20	SM2320B-11	11 Nov 21 18:00	RAA
Hydroxide	< 20	mg/l CaCO3	20	SM2320B-11	11 Nov 21 18:00	RAA
Tot Dis Solids(Summation)	895	mg/l	12.5	SM1030-F	19 Nov 21 15:13	Calculated
Cation Summation	16.6	meq/L	NA	SM1030-F	16 Nov 21 12:36	Calculated
Anion Summation	15.0	meq/L	NA	SM1030-F	19 Nov 21 15:13	Calculated
Percent Error	5.06	%	NA	SM1030-F	19 Nov 21 15:13	Calculated
Bromide	< 0.5 @	mg/l	0.100	EPA 300.0	15 Nov 21 23:51	RMV
Total Organic Carbon	5.3	mg/l	0.5	SM5310C-11	16 Nov 21 21:44	NAS
Dissolved Organic Carbon	5.2	mg/l	0.5	SM5310C-96	16 Nov 21 21:44	NAS
Fluoride	0.23	mg/l	0.10	SM4500-F-C	11 Nov 21 18:00	RAA
Sulfate	347	mg/l	5.00	ASTM D516-11	19 Nov 21 15:13	SD
Chloride	5.6	mg/l	2.0	SM4500-Cl-E-11	17 Nov 21 13:30	SD
Nitrate-Nitrite as N	< 0.2	mg/l	0.20	EPA 353.2	18 Nov 21 15:33	SD
Nitrite as N	< 0.2	mg/l	0.20	EPA 353.2	11 Nov 21 15:01	SD
Phosphorus as P - Total	< 0.2	mg/l	0.20	EPA 365.1	19 Nov 21 8:56	SD
Phosphorus as P-Dissolved	< 0.2	mg/l	0.20	EPA 365.1	19 Nov 21 10:05	SD
Mercury - Total	< 0.0002	mg/l	0.0002	EPA 245.1	18 Nov 21 12:33	MDE
Mercury - Dissolved	< 0.0002	mg/l	0.0002	EPA 245.1	18 Nov 21 12:33	MDE
Total Dissolved Solids	977	mg/l	10	USGS I1750-85	12 Nov 21 9:25	RAA

RL = Method Reporting Limit

The reporting limit was elevated for any analyte requiring a dilution as coded below:

@ = Due to sample matrix # = Due to concentration of other analytes
! = Due to sample quantity + = Due to internal standard response

CERTIFICATION: ND # ND-00016

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Report Date: 7 Dec 21
Lab Number: 21-W4440
Work Order #: 82-3150
Account #: 007033
Date Sampled: 10 Nov 21 9:00
Date Received: 11 Nov 21 7:18
Sampled By: Client

Project Name: North Dakota Carbon Safe
Sample Description: NDCS-W269

Temp at Receipt: 1.2C ROI

	As Received Result		Method RL	Method Reference	Date Analyzed	Analyst
Calcium - Total	107	mg/l	1.0	6010D	16 Nov 21 12:36	MDE
Magnesium - Total	42.1	mg/l	1.0	6010D	16 Nov 21 12:36	MDE
Sodium - Total	162	mg/l	1.0	6010D	16 Nov 21 12:36	MDE
Potassium - Total	4.2	mg/l	1.0	6010D	16 Nov 21 12:36	MDE
Lithium - Total	0.040	mg/l	0.020	6010D	16 Nov 21 9:32	SZ
Aluminum - Total	< 0.1	mg/l	0.10	6010D	12 Nov 21 15:33	MDE
Iron - Total	4.55	mg/l	0.10	6010D	12 Nov 21 15:33	MDE
Silicon - Total	12.8	mg/l	0.10	6010D	16 Nov 21 14:55	SZ
Strontium - Total	1.27	mg/l	0.10	6010D	12 Nov 21 15:33	MDE
Zinc - Total	0.15	mg/l	0.05	6010D	12 Nov 21 15:33	MDE
Boron - Total	0.25	mg/l	0.10	6010D	17 Nov 21 11:08	SZ
Calcium - Dissolved	111	mg/l	1.0	6010D	16 Nov 21 10:36	MDE
Magnesium - Dissolved	43.9	mg/l	1.0	6010D	16 Nov 21 10:36	MDE
Sodium - Dissolved	164	mg/l	1.0	6010D	16 Nov 21 10:36	MDE
Potassium - Dissolved	4.8	mg/l	1.0	6010D	16 Nov 21 10:36	MDE
Lithium - Dissolved	0.043	mg/l	0.020	6010D	16 Nov 21 11:32	SZ
Aluminum - Dissolved	< 0.1	mg/l	0.10	6010D	15 Nov 21 12:55	MDE
Iron - Dissolved	4.65	mg/l	0.10	6010D	15 Nov 21 12:55	MDE
Silicon - Dissolved	14.2	mg/l	0.10	6010D	16 Nov 21 15:55	SZ
Strontium - Dissolved	1.32	mg/l	0.10	6010D	15 Nov 21 12:55	MDE
Zinc - Dissolved	0.08	mg/l	0.05	6010D	15 Nov 21 12:55	MDE
Boron - Dissolved	0.26	mg/l	0.10	6010D	17 Nov 21 14:08	SZ
Antimony - Total	< 0.001	mg/l	0.0010	6020B	16 Nov 21 13:21	MDE
Arsenic - Total	< 0.002	mg/l	0.0020	6020B	16 Nov 21 13:21	MDE
Barium - Total	0.0323	mg/l	0.0020	6020B	16 Nov 21 13:21	MDE

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Lab Number: 21-W4440
Work Order #: 82-3150
Account #: 007033
Date Sampled: 10 Nov 21 9:00
Date Received: 11 Nov 21 7:18
Sampled By: Client

Project Name: North Dakota Carbon Safe
Sample Description: NDCS-W269

Temp at Receipt: 1.2C ROI

	As Received Result		Method RL	Method Reference	Date Analyzed	Analyst
Beryllium - Total	< 0.0005	mg/l	0.0005	6020B	16 Nov 21 13:21	MDE
Cadmium - Total	< 0.0005	mg/l	0.0005	6020B	16 Nov 21 13:21	MDE
Chromium - Total	< 0.002	mg/l	0.0020	6020B	16 Nov 21 13:21	MDE
Cobalt - Total	< 0.002	mg/l	0.0020	6020B	16 Nov 21 13:21	MDE
Copper - Total	< 0.002	mg/l	0.0020	6020B	16 Nov 21 13:21	MDE
Lead - Total	< 0.0005	mg/l	0.0005	6020B	16 Nov 21 13:21	MDE
Manganese - Total	0.3174	mg/l	0.0020	6020B	17 Nov 21 14:23	MDE
Molybdenum - Total	0.0035	mg/l	0.0020	6020B	16 Nov 21 13:21	MDE
Nickel - Total	< 0.002	mg/l	0.0020	6020B	16 Nov 21 13:21	MDE
Selenium - Total	< 0.005	mg/l	0.0050	6020B	16 Nov 21 13:21	MDE
Silver - Total	< 0.0005	mg/l	0.0005	6020B	16 Nov 21 13:21	MDE
Thallium - Total	< 0.0005	mg/l	0.0005	6020B	16 Nov 21 13:21	MDE
Vanadium - Total	< 0.002	mg/l	0.0020	6020B	16 Nov 21 13:21	MDE
Antimony - Dissolved	< 0.001	mg/l	0.0010	6020B	16 Nov 21 14:31	MDE
Arsenic - Dissolved	< 0.002	mg/l	0.0020	6020B	16 Nov 21 14:31	MDE
Barium - Dissolved	0.0388	mg/l	0.0020	6020B	16 Nov 21 14:31	MDE
Beryllium - Dissolved	< 0.0005	mg/l	0.0005	6020B	16 Nov 21 16:48	MDE
Cadmium - Dissolved	< 0.0005	mg/l	0.0005	6020B	16 Nov 21 14:31	MDE
Chromium - Dissolved	< 0.002	mg/l	0.0020	6020B	16 Nov 21 14:31	MDE
Cobalt - Dissolved	< 0.002	mg/l	0.0020	6020B	16 Nov 21 14:31	MDE
Copper - Dissolved	< 0.002	mg/l	0.0020	6020B	16 Nov 21 14:31	MDE
Lead - Dissolved	< 0.0005	mg/l	0.0005	6020B	16 Nov 21 14:31	MDE
Manganese - Dissolved	0.3332	mg/l	0.0020	6020B	17 Nov 21 15:06	MDE
Molybdenum - Dissolved	0.0033	mg/l	0.0020	6020B	16 Nov 21 14:31	MDE
Nickel - Dissolved	< 0.002	mg/l	0.0020	6020B	16 Nov 21 14:31	MDE

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UND-Energy & Environmental
15 N. 23rd St.
Grand Forks ND 58201

Report Date: 7 Dec 21
Lab Number: 21-W4440
Work Order #: 82-3150
Account #: 007033
Date Sampled: 10 Nov 21 9:00
Date Received: 11 Nov 21 7:18
Sampled By: Client

Project Name: North Dakota Carbon Safe
Sample Description: NDCS-W269

Temp at Receipt: 1.2C ROI

	As Received Result		Method RL	Method Reference	Date Analyzed	Analyst
Selenium - Dissolved	< 0.005	mg/l	0.0050	6020B	16 Nov 21 14:31	MDE
Silver - Dissolved	< 0.001 @	mg/l	0.0005	6020B	17 Nov 21 15:06	MDE
Thallium - Dissolved	< 0.0005	mg/l	0.0005	6020B	16 Nov 21 14:31	MDE
Vanadium - Dissolved	< 0.002	mg/l	0.0020	6020B	16 Nov 21 14:31	MDE

* Holding time exceeded

Approved by:

Claudette K. Carroll

Claudette K. Carroll, Laboratory Manager, Bismarck, ND

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= Due to concentration of other analytes

+ = Due to internal standard response

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Barry Botnen
UND-Energy & Environmental
15 N. 23rd St.
Grand Forks ND 58201

Report Date: 7 Dec 21
Lab Number: 21-W4441
Work Order #: 82-3150
Account #: 007033
Date Sampled: 10 Nov 21 11:00
Date Received: 11 Nov 21 7:18
Sampled By: Client

Project Name: North Dakota Carbon Safe
Sample Description: NDCS-W478

Temp at Receipt: 1.2C ROI

	As Received Result		Method RL	Method Reference	Date Analyzed	Analyst
Metal Digestion				EPA 200.2	11 Nov 21	RAA
pH	* 8.2	units	N/A	SM4500-H+-B-11	11 Nov 21 18:00	RAA
Conductivity (EC)	2167	umhos/cm	N/A	SM2510B-11	11 Nov 21 18:00	RAA
Total Alkalinity	1230	mg/l CaCO3	20	SM2320B-11	11 Nov 21 18:00	RAA
Phenolphthalein Alk	< 20	mg/l CaCO3	20	SM2320B-11	11 Nov 21 18:00	RAA
Bicarbonate	1230	mg/l CaCO3	20	SM2320B-11	11 Nov 21 18:00	RAA
Carbonate	< 20	mg/l CaCO3	20	SM2320B-11	11 Nov 21 18:00	RAA
Hydroxide	< 20	mg/l CaCO3	20	SM2320B-11	11 Nov 21 18:00	RAA
Tot Dis Solids(Summation)	1370	mg/l	12.5	SM1030-F	19 Nov 21 15:13	Calculated
Cation Summation	25.1	meq/L	NA	SM1030-F	16 Nov 21 12:36	Calculated
Anion Summation	25.9	meq/L	NA	SM1030-F	19 Nov 21 15:13	Calculated
Percent Error	-1.66	%	NA	SM1030-F	19 Nov 21 15:13	Calculated
Bromide	< 0.5 @	mg/l	0.100	EPA 300.0	16 Nov 21 0:11	RMV
Total Organic Carbon	7.1	mg/l	0.5	SM5310C-11	16 Nov 21 23:56	NAS
Dissolved Organic Carbon	7.2	mg/l	0.5	SM5310C-96	16 Nov 21 23:56	NAS
Fluoride	1.62	mg/l	0.10	SM4500-F-C	11 Nov 21 18:00	RAA
Sulfate	34.3	mg/l	5.00	ASTM D516-11	19 Nov 21 15:13	SD
Chloride	20.9	mg/l	2.0	SM4500-Cl-E-11	17 Nov 21 13:30	SD
Nitrate-Nitrite as N	< 0.2	mg/l	0.20	EPA 353.2	18 Nov 21 15:33	SD
Nitrite as N	< 0.2	mg/l	0.20	EPA 353.2	11 Nov 21 15:01	SD
Phosphorus as P - Total	0.23	mg/l	0.20	EPA 365.1	19 Nov 21 8:56	SD
Phosphorus as P-Dissolved	0.24	mg/l	0.20	EPA 365.1	19 Nov 21 10:05	SD
Mercury - Total	< 0.0002	mg/l	0.0002	EPA 245.1	18 Nov 21 12:33	MDE
Mercury - Dissolved	< 0.0002	mg/l	0.0002	EPA 245.1	18 Nov 21 12:33	MDE
Total Dissolved Solids	1420	mg/l	10	USGS I1750-85	12 Nov 21 9:25	RAA

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15 N. 23rd St.
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Report Date: 7 Dec 21
Lab Number: 21-W4441
Work Order #: 82-3150
Account #: 007033
Date Sampled: 10 Nov 21 11:00
Date Received: 11 Nov 21 7:18
Sampled By: Client

Project Name: North Dakota Carbon Safe
Sample Description: NDCS-W478

Temp at Receipt: 1.2C ROI

	As Received Result		Method RL	Method Reference	Date Analyzed	Analyst
Calcium - Total	2.8	mg/l	1.0	6010D	16 Nov 21 12:36	MDE
Magnesium - Total	1.5	mg/l	1.0	6010D	16 Nov 21 12:36	MDE
Sodium - Total	572	mg/l	1.0	6010D	16 Nov 21 12:36	MDE
Potassium - Total	3.0	mg/l	1.0	6010D	16 Nov 21 12:36	MDE
Lithium - Total	0.076	mg/l	0.020	6010D	16 Nov 21 9:32	SZ
Aluminum - Total	< 0.1	mg/l	0.10	6010D	12 Nov 21 15:33	MDE
Iron - Total	0.43	mg/l	0.10	6010D	12 Nov 21 15:33	MDE
Silicon - Total	4.12	mg/l	0.10	6010D	16 Nov 21 14:55	SZ
Strontium - Total	0.14	mg/l	0.10	6010D	12 Nov 21 15:33	MDE
Zinc - Total	0.06	mg/l	0.05	6010D	12 Nov 21 15:33	MDE
Boron - Total	0.56	mg/l	0.10	6010D	17 Nov 21 12:08	SZ
Calcium - Dissolved	2.7	mg/l	1.0	6010D	16 Nov 21 10:36	MDE
Magnesium - Dissolved	1.5	mg/l	1.0	6010D	16 Nov 21 10:36	MDE
Sodium - Dissolved	568	mg/l	1.0	6010D	16 Nov 21 10:36	MDE
Potassium - Dissolved	3.5	mg/l	1.0	6010D	16 Nov 21 10:36	MDE
Lithium - Dissolved	0.076	mg/l	0.020	6010D	16 Nov 21 11:32	SZ
Aluminum - Dissolved	< 0.1	mg/l	0.10	6010D	15 Nov 21 12:55	MDE
Iron - Dissolved	0.48	mg/l	0.10	6010D	15 Nov 21 12:55	MDE
Silicon - Dissolved	4.23	mg/l	0.10	6010D	16 Nov 21 15:55	SZ
Strontium - Dissolved	0.14	mg/l	0.10	6010D	15 Nov 21 12:55	MDE
Zinc - Dissolved	0.06	mg/l	0.05	6010D	15 Nov 21 12:55	MDE
Boron - Dissolved	0.58	mg/l	0.10	6010D	17 Nov 21 14:08	SZ
Antimony - Total	< 0.001	mg/l	0.0010	6020B	16 Nov 21 13:21	MDE
Arsenic - Total	< 0.002	mg/l	0.0020	6020B	16 Nov 21 13:21	MDE
Barium - Total	0.0912	mg/l	0.0020	6020B	16 Nov 21 13:21	MDE

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Date Received: 11 Nov 21 7:18
Sampled By: Client

Project Name: North Dakota Carbon Safe
Sample Description: NDCS-W478

Temp at Receipt: 1.2C ROI

	As Received Result		Method RL	Method Reference	Date Analyzed	Analyst
Beryllium - Total	< 0.0005	mg/l	0.0005	6020B	16 Nov 21 13:21	MDE
Cadmium - Total	< 0.0005	mg/l	0.0005	6020B	16 Nov 21 13:21	MDE
Chromium - Total	< 0.002	mg/l	0.0020	6020B	16 Nov 21 13:21	MDE
Cobalt - Total	< 0.002	mg/l	0.0020	6020B	16 Nov 21 13:21	MDE
Copper - Total	0.0053	mg/l	0.0020	6020B	16 Nov 21 13:21	MDE
Lead - Total	< 0.0005	mg/l	0.0005	6020B	16 Nov 21 13:21	MDE
Manganese - Total	0.0048	mg/l	0.0020	6020B	16 Nov 21 13:21	MDE
Molybdenum - Total	< 0.002	mg/l	0.0020	6020B	16 Nov 21 13:21	MDE
Nickel - Total	< 0.002	mg/l	0.0020	6020B	16 Nov 21 13:21	MDE
Selenium - Total	< 0.005	mg/l	0.0050	6020B	16 Nov 21 13:21	MDE
Silver - Total	< 0.0005	mg/l	0.0005	6020B	16 Nov 21 13:21	MDE
Thallium - Total	< 0.0005	mg/l	0.0005	6020B	16 Nov 21 13:21	MDE
Vanadium - Total	< 0.002	mg/l	0.0020	6020B	16 Nov 21 13:21	MDE
Antimony - Dissolved	< 0.001	mg/l	0.0010	6020B	16 Nov 21 14:31	MDE
Arsenic - Dissolved	< 0.002	mg/l	0.0020	6020B	16 Nov 21 14:31	MDE
Barium - Dissolved	0.0913	mg/l	0.0020	6020B	16 Nov 21 14:31	MDE
Beryllium - Dissolved	< 0.0005	mg/l	0.0005	6020B	16 Nov 21 16:48	MDE
Cadmium - Dissolved	< 0.0005	mg/l	0.0005	6020B	16 Nov 21 14:31	MDE
Chromium - Dissolved	< 0.002	mg/l	0.0020	6020B	16 Nov 21 14:31	MDE
Cobalt - Dissolved	< 0.002	mg/l	0.0020	6020B	16 Nov 21 14:31	MDE
Copper - Dissolved	0.0044	mg/l	0.0020	6020B	16 Nov 21 14:31	MDE
Lead - Dissolved	< 0.0005	mg/l	0.0005	6020B	16 Nov 21 14:31	MDE
Manganese - Dissolved	0.0053	mg/l	0.0020	6020B	17 Nov 21 15:06	MDE
Molybdenum - Dissolved	< 0.002	mg/l	0.0020	6020B	16 Nov 21 14:31	MDE
Nickel - Dissolved	< 0.002	mg/l	0.0020	6020B	16 Nov 21 14:31	MDE

RL = Method Reporting Limit

The reporting limit was elevated for any analyte requiring a dilution as coded below:

@ = Due to sample matrix # = Due to concentration of other analytes
! = Due to sample quantity + = Due to internal standard response

CERTIFICATION: ND # ND-00016

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Barry Botnen
UND-Energy & Environmental
15 N. 23rd St.
Grand Forks ND 58201

Report Date: 7 Dec 21
Lab Number: 21-W4441
Work Order #: 82-3150
Account #: 007033
Date Sampled: 10 Nov 21 11:00
Date Received: 11 Nov 21 7:18
Sampled By: Client

Project Name: North Dakota Carbon Safe
Sample Description: NDCS-W478

Temp at Receipt: 1.2C ROI

	As Received Result		Method RL	Method Reference	Date Analyzed	Analyst
Selenium - Dissolved	< 0.005	mg/l	0.0050	6020B	16 Nov 21 14:31	MDE
Silver - Dissolved	< 0.0005	mg/l	0.0005	6020B	16 Nov 21 14:31	MDE
Thallium - Dissolved	< 0.0005	mg/l	0.0005	6020B	16 Nov 21 14:31	MDE
Vanadium - Dissolved	< 0.002	mg/l	0.0020	6020B	16 Nov 21 14:31	MDE

* Holding time exceeded

Approved by:

Claudette K. Carroll

Claudette K. Carroll, Laboratory Manager, Bismarck, ND

RL = Method Reporting Limit

The reporting limit was elevated for any analyte requiring a dilution as coded below:

@ = Due to sample matrix

! = Due to sample quantity

= Due to concentration of other analytes

+ = Due to internal standard response

CERTIFICATION: ND # ND-00016

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Barry Botnen
UND-Energy & Environmental
15 N. 23rd St.
Grand Forks ND 58201

Report Date: 7 Dec 21
Lab Number: 21-W4442
Work Order #: 82-3150
Account #: 007033
Date Sampled: 10 Nov 21 10:00
Date Received: 11 Nov 21 7:18
Sampled By: Client

Project Name: North Dakota Carbon Safe
Sample Description: NDCS-W468

Temp at Receipt: 1.2C ROI

	As Received Result		Method RL	Method Reference	Date Analyzed	Analyst
Metal Digestion				EPA 200.2	11 Nov 21	RAA
pH	* 8.3	units	N/A	SM4500-H+-B-11	11 Nov 21 18:00	RAA
Conductivity (EC)	1650	umhos/cm	N/A	SM2510B-11	11 Nov 21 18:00	RAA
Total Alkalinity	882	mg/l CaCO3	20	SM2320B-11	11 Nov 21 18:00	RAA
Phenolphthalein Alk	< 20	mg/l CaCO3	20	SM2320B-11	11 Nov 21 18:00	RAA
Bicarbonate	881	mg/l CaCO3	20	SM2320B-11	11 Nov 21 18:00	RAA
Carbonate	< 20	mg/l CaCO3	20	SM2320B-11	11 Nov 21 18:00	RAA
Hydroxide	< 20	mg/l CaCO3	20	SM2320B-11	11 Nov 21 18:00	RAA
Tot Dis Solids(Summation)	1100	mg/l	12.5	SM1030-F	19 Nov 21 15:13	Calculated
Cation Summation	19.1	meq/L	NA	SM1030-F	16 Nov 21 12:36	Calculated
Anion Summation	20.4	meq/L	NA	SM1030-F	19 Nov 21 15:13	Calculated
Percent Error	-3.29	%	NA	SM1030-F	19 Nov 21 15:13	Calculated
Bromide	< 0.5 @	mg/l	0.100	EPA 300.0	16 Nov 21 0:32	RMV
Total Organic Carbon	2.8	mg/l	0.5	SM5310C-11	16 Nov 21 23:56	NAS
Dissolved Organic Carbon	2.5	mg/l	0.5	SM5310C-96	16 Nov 21 23:56	NAS
Fluoride	1.71	mg/l	0.10	SM4500-F-C	11 Nov 21 18:00	RAA
Sulfate	129	mg/l	5.00	ASTM D516-11	19 Nov 21 15:13	SD
Chloride	3.6	mg/l	2.0	SM4500-Cl-E-11	17 Nov 21 13:30	SD
Nitrate-Nitrite as N	< 0.2	mg/l	0.20	EPA 353.2	18 Nov 21 15:33	SD
Nitrite as N	< 0.2	mg/l	0.20	EPA 353.2	11 Nov 21 15:01	SD
Phosphorus as P - Total	0.35	mg/l	0.20	EPA 365.1	19 Nov 21 8:56	SD
Phosphorus as P-Dissolved	0.34	mg/l	0.20	EPA 365.1	19 Nov 21 10:05	SD
Mercury - Total	< 0.0002	mg/l	0.0002	EPA 245.1	18 Nov 21 12:33	MDE
Mercury - Dissolved	< 0.0002	mg/l	0.0002	EPA 245.1	18 Nov 21 12:33	MDE
Total Dissolved Solids	1100	mg/l	10	USGS I1750-85	12 Nov 21 9:25	RAA

RL = Method Reporting Limit

The reporting limit was elevated for any analyte requiring a dilution as coded below:

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Barry Botnen
UND-Energy & Environmental
15 N. 23rd St.
Grand Forks ND 58201

Report Date: 7 Dec 21
Lab Number: 21-W4442
Work Order #: 82-3150
Account #: 007033
Date Sampled: 10 Nov 21 10:00
Date Received: 11 Nov 21 7:18
Sampled By: Client

Project Name: North Dakota Carbon Safe
Sample Description: NDCS-W468

Temp at Receipt: 1.2C ROI

	As Received Result		Method RL	Method Reference	Date Analyzed	Analyst
Calcium - Total	2.4	mg/l	1.0	6010D	16 Nov 21 12:36	MDE
Magnesium - Total	1.2	mg/l	1.0	6010D	16 Nov 21 12:36	MDE
Sodium - Total	430	mg/l	1.0	6010D	7 Dec 21 9:07	SZ
Potassium - Total	2.4	mg/l	1.0	6010D	16 Nov 21 12:36	MDE
Lithium - Total	0.046	mg/l	0.020	6010D	16 Nov 21 9:32	SZ
Aluminum - Total	< 0.1	mg/l	0.10	6010D	12 Nov 21 15:33	MDE
Iron - Total	0.14	mg/l	0.10	6010D	12 Nov 21 15:33	MDE
Silicon - Total	3.18	mg/l	0.10	6010D	16 Nov 21 14:55	SZ
Strontium - Total	0.10	mg/l	0.10	6010D	12 Nov 21 15:33	MDE
Zinc - Total	< 0.25	mg/l	0.05	6010D	12 Nov 21 15:33	MDE
Boron - Total	0.46	mg/l	0.10	6010D	17 Nov 21 12:08	SZ
Calcium - Dissolved	2.4	mg/l	1.0	6010D	16 Nov 21 10:36	MDE
Magnesium - Dissolved	1.3	mg/l	1.0	6010D	16 Nov 21 10:36	MDE
Sodium - Dissolved	433	mg/l	1.0	6010D	7 Dec 21 10:07	SZ
Potassium - Dissolved	2.5	mg/l	1.0	6010D	16 Nov 21 10:36	MDE
Lithium - Dissolved	0.050	mg/l	0.020	6010D	16 Nov 21 11:32	SZ
Aluminum - Dissolved	< 0.1	mg/l	0.10	6010D	15 Nov 21 12:55	MDE
Iron - Dissolved	< 0.1	mg/l	0.10	6010D	15 Nov 21 12:55	MDE
Silicon - Dissolved	3.28	mg/l	0.10	6010D	16 Nov 21 15:55	SZ
Strontium - Dissolved	0.10	mg/l	0.10	6010D	15 Nov 21 12:55	MDE
Zinc - Dissolved	< 0.05	mg/l	0.05	6010D	15 Nov 21 12:55	MDE
Boron - Dissolved	0.48	mg/l	0.10	6010D	17 Nov 21 14:08	SZ
Antimony - Total	< 0.001	mg/l	0.0010	6020B	16 Nov 21 13:21	MDE
Arsenic - Total	< 0.002	mg/l	0.0020	6020B	16 Nov 21 13:21	MDE
Barium - Total	0.0276	mg/l	0.0020	6020B	16 Nov 21 13:21	MDE

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Barry Botnen
UND-Energy & Environmental
15 N. 23rd St.
Grand Forks ND 58201

Report Date: 7 Dec 21
Lab Number: 21-W4442
Work Order #: 82-3150
Account #: 007033
Date Sampled: 10 Nov 21 10:00
Date Received: 11 Nov 21 7:18
Sampled By: Client

Project Name: North Dakota Carbon Safe
Sample Description: NDCS-W468

Temp at Receipt: 1.2C ROI

	As Received Result		Method RL	Method Reference	Date Analyzed	Analyst
Beryllium - Total	< 0.0005	mg/l	0.0005	6020B	16 Nov 21 13:21	MDE
Cadmium - Total	< 0.0005	mg/l	0.0005	6020B	16 Nov 21 13:21	MDE
Chromium - Total	< 0.01 @	mg/l	0.0020	6020B	16 Nov 21 13:21	MDE
Cobalt - Total	< 0.002	mg/l	0.0020	6020B	16 Nov 21 13:21	MDE
Copper - Total	0.0041	mg/l	0.0020	6020B	16 Nov 21 13:21	MDE
Lead - Total	0.0040	mg/l	0.0005	6020B	16 Nov 21 13:21	MDE
Manganese - Total	0.0050	mg/l	0.0020	6020B	16 Nov 21 13:21	MDE
Molybdenum - Total	0.0020	mg/l	0.0020	6020B	16 Nov 21 13:21	MDE
Nickel - Total	< 0.01 @	mg/l	0.0020	6020B	16 Nov 21 13:21	MDE
Selenium - Total	< 0.005	mg/l	0.0050	6020B	16 Nov 21 13:21	MDE
Silver - Total	< 0.0005	mg/l	0.0005	6020B	16 Nov 21 13:21	MDE
Thallium - Total	< 0.0005	mg/l	0.0005	6020B	16 Nov 21 13:21	MDE
Vanadium - Total	0.0084	mg/l	0.0020	6020B	16 Nov 21 13:21	MDE
Antimony - Dissolved	< 0.001	mg/l	0.0010	6020B	16 Nov 21 14:31	MDE
Arsenic - Dissolved	< 0.002	mg/l	0.0020	6020B	16 Nov 21 14:31	MDE
Barium - Dissolved	0.0298	mg/l	0.0020	6020B	16 Nov 21 14:31	MDE
Beryllium - Dissolved	< 0.0005	mg/l	0.0005	6020B	16 Nov 21 16:48	MDE
Cadmium - Dissolved	< 0.0005	mg/l	0.0005	6020B	16 Nov 21 14:31	MDE
Chromium - Dissolved	< 0.01 @	mg/l	0.0020	6020B	29 Nov 21 11:36	MDE
Cobalt - Dissolved	< 0.002	mg/l	0.0020	6020B	16 Nov 21 14:31	MDE
Copper - Dissolved	0.0042	mg/l	0.0020	6020B	29 Nov 21 11:36	MDE
Lead - Dissolved	0.0043	mg/l	0.0005	6020B	16 Nov 21 14:31	MDE
Manganese - Dissolved	0.0044	mg/l	0.0020	6020B	16 Nov 21 14:31	MDE
Molybdenum - Dissolved	0.0021	mg/l	0.0020	6020B	29 Nov 21 11:36	MDE
Nickel - Dissolved	< 0.01 @	mg/l	0.0020	6020B	29 Nov 21 11:36	MDE

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CERTIFICATION: ND # ND-00016

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Barry Botnen
UND-Energy & Environmental
15 N. 23rd St.
Grand Forks ND 58201

Report Date: 7 Dec 21
Lab Number: 21-W4442
Work Order #: 82-3150
Account #: 007033
Date Sampled: 10 Nov 21 10:00
Date Received: 11 Nov 21 7:18
Sampled By: Client

Project Name: North Dakota Carbon Safe
Sample Description: NDCS-W468

Temp at Receipt: 1.2C ROI

	As Received Result		Method RL	Method Reference	Date Analyzed	Analyst
Selenium - Dissolved	< 0.005	mg/l	0.0050	6020B	16 Nov 21 14:31	MDE
Silver - Dissolved	< 0.0005	mg/l	0.0005	6020B	29 Nov 21 11:36	MDE
Thallium - Dissolved	< 0.0005	mg/l	0.0005	6020B	16 Nov 21 14:31	MDE
Vanadium - Dissolved	0.0102	mg/l	0.0020	6020B	16 Nov 21 14:31	MDE

* Holding time exceeded

Approved by:

Claudette K. Carroll

Claudette K. Carroll, Laboratory Manager, Bismarck, ND

RL = Method Reporting Limit

The reporting limit was elevated for any analyte requiring a dilution as coded below:

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Barry Botnen
UND-Energy & Environmental
15 N. 23rd St.
Grand Forks ND 58201

Report Date: 7 Dec 21
Lab Number: 21-W4443
Work Order #: 82-3150
Account #: 007033
Date Sampled: 10 Nov 21 14:30
Date Received: 11 Nov 21 7:18
Sampled By: Client

Project Name: North Dakota Carbon Safe
Sample Description: NDCS-W424

Temp at Receipt: 1.2C ROI

	As Received Result		Method RL	Method Reference	Date Analyzed	Analyst
Metal Digestion				EPA 200.2	11 Nov 21	RAA
pH	* 8.3	units	N/A	SM4500-H+-B-11	11 Nov 21 18:00	RAA
Conductivity (EC)	2422	umhos/cm	N/A	SM2510B-11	11 Nov 21 18:00	RAA
Total Alkalinity	1250	mg/l CaCO3	20	SM2320B-11	11 Nov 21 18:00	RAA
Phenolphthalein Alk	< 20	mg/l CaCO3	20	SM2320B-11	11 Nov 21 18:00	RAA
Bicarbonate	1250	mg/l CaCO3	20	SM2320B-11	11 Nov 21 18:00	RAA
Carbonate	< 20	mg/l CaCO3	20	SM2320B-11	11 Nov 21 18:00	RAA
Hydroxide	< 20	mg/l CaCO3	20	SM2320B-11	11 Nov 21 18:00	RAA
Tot Dis Solids(Summation)	1500	mg/l	12.5	SM1030-F	19 Nov 21 15:13	Calculated
Cation Summation	26.8	meq/L	NA	SM1030-F	16 Nov 21 12:36	Calculated
Anion Summation	29.1	meq/L	NA	SM1030-F	19 Nov 21 15:13	Calculated
Percent Error	-4.10	%	NA	SM1030-F	19 Nov 21 15:13	Calculated
Bromide	1.03	mg/l	0.100	EPA 300.0	16 Nov 21 0:53	RMV
Total Organic Carbon	3.4	mg/l	0.5	SM5310C-11	16 Nov 21 23:56	NAS
Dissolved Organic Carbon	3.5	mg/l	0.5	SM5310C-96	16 Nov 21 23:56	NAS
Fluoride	0.83	mg/l	0.10	SM4500-F-C	11 Nov 21 18:00	RAA
Sulfate	< 5	mg/l	5.00	ASTM D516-11	19 Nov 21 15:13	SD
Chloride	144	mg/l	2.0	SM4500-Cl-E-11	17 Nov 21 13:30	SD
Nitrate-Nitrite as N	< 0.2	mg/l	0.20	EPA 353.2	18 Nov 21 15:33	SD
Nitrite as N	< 0.2	mg/l	0.20	EPA 353.2	11 Nov 21 15:01	SD
Phosphorus as P - Total	0.31	mg/l	0.20	EPA 365.1	19 Nov 21 9:35	SD
Phosphorus as P-Dissolved	0.20	mg/l	0.20	EPA 365.1	19 Nov 21 10:05	SD
Mercury - Total	< 0.0002	mg/l	0.0002	EPA 245.1	18 Nov 21 12:33	MDE
Mercury - Dissolved	< 0.0002	mg/l	0.0002	EPA 245.1	18 Nov 21 14:00	MDE
Total Dissolved Solids	1560	mg/l	10	USGS I1750-85	12 Nov 21 9:25	RAA

RL = Method Reporting Limit

The reporting limit was elevated for any analyte requiring a dilution as coded below:

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! = Due to sample quantity + = Due to internal standard response

CERTIFICATION: ND # ND-00016

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Barry Botnen
UND-Energy & Environmental
15 N. 23rd St.
Grand Forks ND 58201

Report Date: 7 Dec 21
Lab Number: 21-W4443
Work Order #: 82-3150
Account #: 007033
Date Sampled: 10 Nov 21 14:30
Date Received: 11 Nov 21 7:18
Sampled By: Client

Project Name: North Dakota Carbon Safe
Sample Description: NDCS-W424

Temp at Receipt: 1.2C ROI

	As Received Result		Method RL	Method Reference	Date Analyzed	Analyst
Calcium - Total	3.3	mg/l	1.0	6010D	16 Nov 21 12:36	MDE
Magnesium - Total	1.6	mg/l	1.0	6010D	16 Nov 21 12:36	MDE
Sodium - Total	600	mg/l	1.0	6010D	16 Nov 21 12:36	MDE
Potassium - Total	2.7	mg/l	1.0	6010D	7 Dec 21 9:07	SZ
Lithium - Total	0.090	mg/l	0.020	6010D	16 Nov 21 9:32	SZ
Aluminum - Total	< 0.1	mg/l	0.10	6010D	12 Nov 21 15:33	MDE
Iron - Total	0.12	mg/l	0.10	6010D	12 Nov 21 15:33	MDE
Silicon - Total	4.44	mg/l	0.10	6010D	16 Nov 21 14:55	SZ
Strontium - Total	0.15	mg/l	0.10	6010D	12 Nov 21 15:33	MDE
Zinc - Total	< 0.05	mg/l	0.05	6010D	12 Nov 21 15:33	MDE
Boron - Total	1.75	mg/l	0.10	6010D	17 Nov 21 12:08	SZ
Calcium - Dissolved	3.3	mg/l	1.0	6010D	16 Nov 21 10:36	MDE
Magnesium - Dissolved	1.6	mg/l	1.0	6010D	16 Nov 21 10:36	MDE
Sodium - Dissolved	607	mg/l	1.0	6010D	16 Nov 21 10:36	MDE
Potassium - Dissolved	3.0	mg/l	1.0	6010D	7 Dec 21 10:07	SZ
Lithium - Dissolved	0.095	mg/l	0.020	6010D	16 Nov 21 11:32	SZ
Aluminum - Dissolved	< 0.1	mg/l	0.10	6010D	15 Nov 21 13:55	MDE
Iron - Dissolved	0.12	mg/l	0.10	6010D	15 Nov 21 13:55	MDE
Silicon - Dissolved	4.64	mg/l	0.10	6010D	16 Nov 21 15:55	SZ
Strontium - Dissolved	0.16	mg/l	0.10	6010D	15 Nov 21 13:55	MDE
Zinc - Dissolved	< 0.05	mg/l	0.05	6010D	15 Nov 21 13:55	MDE
Boron - Dissolved	1.80	mg/l	0.10	6010D	17 Nov 21 14:08	SZ
Antimony - Total	< 0.001	mg/l	0.0010	6020B	16 Nov 21 13:21	MDE
Arsenic - Total	< 0.002	mg/l	0.0020	6020B	16 Nov 21 13:21	MDE
Barium - Total	0.1210	mg/l	0.0020	6020B	16 Nov 21 13:21	MDE

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CERTIFICATION: ND # ND-00016

MVTL

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Barry Botnen
UND-Energy & Environmental
15 N. 23rd St.
Grand Forks ND 58201

Report Date: 7 Dec 21
Lab Number: 21-W4443
Work Order #: 82-3150
Account #: 007033
Date Sampled: 10 Nov 21 14:30
Date Received: 11 Nov 21 7:18
Sampled By: Client

Project Name: North Dakota Carbon Safe
Sample Description: NDCS-W424

Temp at Receipt: 1.2C ROI

	As Received Result		Method RL	Method Reference	Date Analyzed	Analyst
Beryllium - Total	< 0.0005	mg/l	0.0005	6020B	16 Nov 21 13:21	MDE
Cadmium - Total	< 0.0005	mg/l	0.0005	6020B	16 Nov 21 13:21	MDE
Chromium - Total	< 0.002	mg/l	0.0020	6020B	16 Nov 21 13:21	MDE
Cobalt - Total	< 0.002	mg/l	0.0020	6020B	16 Nov 21 13:21	MDE
Copper - Total	0.0155	mg/l	0.0020	6020B	16 Nov 21 13:21	MDE
Lead - Total	< 0.0005	mg/l	0.0005	6020B	16 Nov 21 13:21	MDE
Manganese - Total	0.0211	mg/l	0.0020	6020B	16 Nov 21 13:21	MDE
Molybdenum - Total	< 0.002	mg/l	0.0020	6020B	16 Nov 21 13:21	MDE
Nickel - Total	< 0.002	mg/l	0.0020	6020B	16 Nov 21 13:21	MDE
Selenium - Total	< 0.005	mg/l	0.0050	6020B	16 Nov 21 13:21	MDE
Silver - Total	< 0.0005	mg/l	0.0005	6020B	16 Nov 21 13:21	MDE
Thallium - Total	< 0.0005	mg/l	0.0005	6020B	16 Nov 21 13:21	MDE
Vanadium - Total	< 0.002	mg/l	0.0020	6020B	16 Nov 21 13:21	MDE
Antimony - Dissolved	< 0.001	mg/l	0.0010	6020B	16 Nov 21 14:31	MDE
Arsenic - Dissolved	< 0.002	mg/l	0.0020	6020B	16 Nov 21 14:31	MDE
Barium - Dissolved	0.1230	mg/l	0.0020	6020B	16 Nov 21 14:31	MDE
Beryllium - Dissolved	< 0.0005	mg/l	0.0005	6020B	17 Nov 21 15:06	MDE
Cadmium - Dissolved	< 0.0005	mg/l	0.0005	6020B	16 Nov 21 14:31	MDE
Chromium - Dissolved	< 0.002	mg/l	0.0020	6020B	16 Nov 21 14:31	MDE
Cobalt - Dissolved	< 0.002	mg/l	0.0020	6020B	16 Nov 21 14:31	MDE
Copper - Dissolved	0.0089	mg/l	0.0020	6020B	16 Nov 21 14:31	MDE
Lead - Dissolved	< 0.0005	mg/l	0.0005	6020B	16 Nov 21 14:31	MDE
Manganese - Dissolved	0.0212	mg/l	0.0020	6020B	16 Nov 21 14:31	MDE
Molybdenum - Dissolved	< 0.002	mg/l	0.0020	6020B	16 Nov 21 14:31	MDE
Nickel - Dissolved	< 0.002	mg/l	0.0020	6020B	16 Nov 21 14:31	MDE

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Barry Botnen
UND-Energy & Environmental
15 N. 23rd St.
Grand Forks ND 58201

Report Date: 7 Dec 21
Lab Number: 21-W4443
Work Order #: 82-3150
Account #: 007033
Date Sampled: 10 Nov 21 14:30
Date Received: 11 Nov 21 7:18
Sampled By: Client

Project Name: North Dakota Carbon Safe
Sample Description: NDCS-W424

Temp at Receipt: 1.2C ROI

	As Received Result		Method RL	Method Reference	Date Analyzed	Analyst
Selenium - Dissolved	< 0.005	mg/l	0.0050	6020B	16 Nov 21 14:31	MDE
Silver - Dissolved	< 0.0005	mg/l	0.0005	6020B	17 Nov 21 15:06	MDE
Thallium - Dissolved	< 0.0005	mg/l	0.0005	6020B	16 Nov 21 14:31	MDE
Vanadium - Dissolved	< 0.002	mg/l	0.0020	6020B	16 Nov 21 14:31	MDE

* Holding time exceeded

Approved by:

Claudette K. Carroll

Claudette K. Carroll, Laboratory Manager, Bismarck, ND

RL = Method Reporting Limit

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Page: 1 of 4

Barry Botnen
UND-Energy & Environmental
15 N. 23rd St.
Grand Forks ND 58201

Report Date: 7 Dec 21
Lab Number: 21-W4444
Work Order #: 82-3150
Account #: 007033
Date Sampled: 10 Nov 21 15:30
Date Received: 11 Nov 21 7:18
Sampled By: Client

Project Name: North Dakota Carbon Safe
Sample Description: NDCS-W471

Temp at Receipt: 1.2C ROI

	As Received Result		Method RL	Method Reference	Date Analyzed	Analyst
Metal Digestion				EPA 200.2	11 Nov 21	RAA
pH	* 8.2	units	N/A	SM4500-H+-B-11	11 Nov 21 18:00	RAA
Conductivity (EC)	2535	umhos/cm	N/A	SM2510B-11	11 Nov 21 18:00	RAA
Total Alkalinity	1260	mg/l CaCO3	20	SM2320B-11	11 Nov 21 18:00	RAA
Phenolphthalein Alk	< 20	mg/l CaCO3	20	SM2320B-11	11 Nov 21 18:00	RAA
Bicarbonate	1260	mg/l CaCO3	20	SM2320B-11	11 Nov 21 18:00	RAA
Carbonate	< 20	mg/l CaCO3	20	SM2320B-11	11 Nov 21 18:00	RAA
Hydroxide	< 20	mg/l CaCO3	20	SM2320B-11	11 Nov 21 18:00	RAA
Tot Dis Solids(Summation)	1590	mg/l	12.5	SM1030-F	19 Nov 21 15:38	Calculated
Cation Summation	27.5	meq/L	NA	SM1030-F	2 Dec 21 16:56	Calculated
Anion Summation	30.4	meq/L	NA	SM1030-F	19 Nov 21 15:38	Calculated
Percent Error	-4.95	%	NA	SM1030-F	2 Dec 21 16:56	Calculated
Bromide	1.28	mg/l	0.100	EPA 300.0	16 Nov 21 1:14	RMV
Total Organic Carbon	3.2	mg/l	0.5	SM5310C-11	16 Nov 21 23:56	NAS
Dissolved Organic Carbon	3.1	mg/l	0.5	SM5310C-96	16 Nov 21 23:56	NAS
Fluoride	1.14	mg/l	0.10	SM4500-F-C	11 Nov 21 18:00	RAA
Sulfate	< 5	mg/l	5.00	ASTM D516-11	19 Nov 21 15:38	SD
Chloride	183	mg/l	2.0	SM4500-Cl-E-11	17 Nov 21 13:30	SD
Nitrate-Nitrite as N	< 0.2	mg/l	0.20	EPA 353.2	18 Nov 21 15:33	SD
Nitrite as N	< 0.2	mg/l	0.20	EPA 353.2	11 Nov 21 15:01	SD
Phosphorus as P - Total	0.24	mg/l	0.20	EPA 365.1	19 Nov 21 9:35	SD
Phosphorus as P-Dissolved	0.24	mg/l	0.20	EPA 365.1	19 Nov 21 10:05	SD
Mercury - Total	< 0.0002	mg/l	0.0002	EPA 245.1	18 Nov 21 12:33	MDE
Mercury - Dissolved	< 0.0002	mg/l	0.0002	EPA 245.1	18 Nov 21 14:00	MDE
Total Dissolved Solids	1740	mg/l	10	USGS I1750-85	12 Nov 21 9:25	RAA

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Barry Botnen
UND-Energy & Environmental
15 N. 23rd St.
Grand Forks ND 58201

Report Date: 7 Dec 21
Lab Number: 21-W4444
Work Order #: 82-3150
Account #: 007033
Date Sampled: 10 Nov 21 15:30
Date Received: 11 Nov 21 7:18
Sampled By: Client

Project Name: North Dakota Carbon Safe
Sample Description: NDCS-W471

Temp at Receipt: 1.2C ROI

	As Received Result		Method RL	Method Reference	Date Analyzed	Analyst
Calcium - Total	3.4	mg/l	1.0	6010D	16 Nov 21 12:36	MDE
Magnesium - Total	1.5	mg/l	1.0	6010D	16 Nov 21 12:36	MDE
Sodium - Total	643	mg/l	1.0	6010D	16 Nov 21 12:36	MDE
Potassium - Total	2.9	mg/l	1.0	6010D	16 Nov 21 12:36	MDE
Lithium - Total	0.100	mg/l	0.020	6010D	16 Nov 21 10:32	SZ
Aluminum - Total	< 0.1	mg/l	0.10	6010D	12 Nov 21 15:33	MDE
Iron - Total	< 0.1	mg/l	0.10	6010D	12 Nov 21 15:33	MDE
Silicon - Total	4.83	mg/l	0.10	6010D	16 Nov 21 14:55	SZ
Strontium - Total	0.16	mg/l	0.10	6010D	12 Nov 21 15:33	MDE
Zinc - Total	< 0.05	mg/l	0.05	6010D	12 Nov 21 15:33	MDE
Boron - Total	2.42	mg/l	0.10	6010D	17 Nov 21 12:08	SZ
Calcium - Dissolved	3.3	mg/l	1.0	6010D	16 Nov 21 10:36	MDE
Magnesium - Dissolved	1.4	mg/l	1.0	6010D	16 Nov 21 10:36	MDE
Sodium - Dissolved	624	mg/l	1.0	6010D	16 Nov 21 10:36	MDE
Potassium - Dissolved	3.4	mg/l	1.0	6010D	16 Nov 21 10:36	MDE
Lithium - Dissolved	0.101	mg/l	0.020	6010D	16 Nov 21 12:32	SZ
Aluminum - Dissolved	< 0.1	mg/l	0.10	6010D	15 Nov 21 13:55	MDE
Iron - Dissolved	< 0.1	mg/l	0.10	6010D	2 Dec 21 16:56	SZ
Silicon - Dissolved	4.69	mg/l	0.10	6010D	16 Nov 21 16:55	SZ
Strontium - Dissolved	0.16	mg/l	0.10	6010D	15 Nov 21 13:55	MDE
Zinc - Dissolved	< 0.05	mg/l	0.05	6010D	15 Nov 21 13:55	MDE
Boron - Dissolved	2.36	mg/l	0.10	6010D	17 Nov 21 15:08	SZ
Antimony - Total	< 0.001	mg/l	0.0010	6020B	16 Nov 21 13:21	MDE
Arsenic - Total	< 0.002	mg/l	0.0020	6020B	16 Nov 21 13:21	MDE
Barium - Total	0.1466	mg/l	0.0020	6020B	16 Nov 21 13:21	MDE

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Barry Botnen
UND-Energy & Environmental
15 N. 23rd St.
Grand Forks ND 58201

Report Date: 7 Dec 21
Lab Number: 21-W4444
Work Order #: 82-3150
Account #: 007033
Date Sampled: 10 Nov 21 15:30
Date Received: 11 Nov 21 7:18
Sampled By: Client

Project Name: North Dakota Carbon Safe
Sample Description: NDCS-W471

Temp at Receipt: 1.2C ROI

	As Received Result		Method RL	Method Reference	Date Analyzed	Analyst
Beryllium - Total	< 0.0005	mg/l	0.0005	6020B	16 Nov 21 13:21	MDE
Cadmium - Total	< 0.0005	mg/l	0.0005	6020B	16 Nov 21 13:21	MDE
Chromium - Total	< 0.002	mg/l	0.0020	6020B	16 Nov 21 13:21	MDE
Cobalt - Total	< 0.002	mg/l	0.0020	6020B	16 Nov 21 13:21	MDE
Copper - Total	0.0390	mg/l	0.0020	6020B	16 Nov 21 13:21	MDE
Lead - Total	0.0014	mg/l	0.0005	6020B	16 Nov 21 13:21	MDE
Manganese - Total	0.0112	mg/l	0.0020	6020B	16 Nov 21 13:21	MDE
Molybdenum - Total	< 0.002	mg/l	0.0020	6020B	16 Nov 21 13:21	MDE
Nickel - Total	< 0.002	mg/l	0.0020	6020B	16 Nov 21 13:21	MDE
Selenium - Total	< 0.005	mg/l	0.0050	6020B	16 Nov 21 13:21	MDE
Silver - Total	< 0.0005	mg/l	0.0005	6020B	16 Nov 21 13:21	MDE
Thallium - Total	< 0.0005	mg/l	0.0005	6020B	16 Nov 21 13:21	MDE
Vanadium - Total	< 0.002	mg/l	0.0020	6020B	16 Nov 21 13:21	MDE
Antimony - Dissolved	< 0.001	mg/l	0.0010	6020B	16 Nov 21 14:31	MDE
Arsenic - Dissolved	< 0.002	mg/l	0.0020	6020B	16 Nov 21 14:31	MDE
Barium - Dissolved	0.1431	mg/l	0.0020	6020B	16 Nov 21 14:31	MDE
Beryllium - Dissolved	< 0.0005	mg/l	0.0005	6020B	17 Nov 21 15:06	MDE
Cadmium - Dissolved	< 0.0005	mg/l	0.0005	6020B	16 Nov 21 14:31	MDE
Chromium - Dissolved	< 0.002	mg/l	0.0020	6020B	16 Nov 21 14:31	MDE
Cobalt - Dissolved	< 0.002	mg/l	0.0020	6020B	16 Nov 21 14:31	MDE
Copper - Dissolved	0.0244	mg/l	0.0020	6020B	16 Nov 21 14:31	MDE
Lead - Dissolved	0.0007	mg/l	0.0005	6020B	16 Nov 21 14:31	MDE
Manganese - Dissolved	0.0105	mg/l	0.0020	6020B	16 Nov 21 14:31	MDE
Molybdenum - Dissolved	< 0.002	mg/l	0.0020	6020B	16 Nov 21 14:31	MDE
Nickel - Dissolved	< 0.002	mg/l	0.0020	6020B	16 Nov 21 14:31	MDE

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Barry Botnen
UND-Energy & Environmental
15 N. 23rd St.
Grand Forks ND 58201

Report Date: 7 Dec 21
Lab Number: 21-W4444
Work Order #: 82-3150
Account #: 007033
Date Sampled: 10 Nov 21 15:30
Date Received: 11 Nov 21 7:18
Sampled By: Client

Project Name: North Dakota Carbon Safe
Sample Description: NDCS-W471

Temp at Receipt: 1.2C ROI

	As Received Result		Method RL	Method Reference	Date Analyzed	Analyst
Selenium - Dissolved	< 0.005	mg/l	0.0050	6020B	16 Nov 21 14:31	MDE
Silver - Dissolved	< 0.0005	mg/l	0.0005	6020B	17 Nov 21 15:06	MDE
Thallium - Dissolved	< 0.0005	mg/l	0.0005	6020B	16 Nov 21 14:31	MDE
Vanadium - Dissolved	< 0.002	mg/l	0.0020	6020B	16 Nov 21 14:31	MDE

* Holding time exceeded

Approved by:

Claudette K. Carroll

Claudette K. Carroll, Laboratory Manager, Bismarck, ND

RL = Method Reporting Limit

The reporting limit was elevated for any analyte requiring a dilution as coded below:

@ = Due to sample matrix

! = Due to sample quantity

= Due to concentration of other analytes

+ = Due to internal standard response

CERTIFICATION: ND # ND-00016