


CERTIFICATE OF ANALYSIS

Sample Description	Sample Matrix:	Sample ID
Well sample	Water	TDS170821A1

Parameters	Results	Units
Total Dissolve Solids	1730.0	mg/L TDS

The test results reported relate only to the samples identified in the "Sample ID" section on this Certificate.

Issued by: Ken Kwiatkowski- Lab Director



Sample Description	Sample Matrix:	Sample ID
Well sample	Water	TDS170821A1

Test Method References:

SMoE stands for Standard Methods for the Examination of Water and Wastewater, 22nd Edition.

Test	Horizon Lab Procedure	Method of Reference	Detection Limit	QC Batch	Date of Analysis
Total Dissolved Solids	P115	Determination of Total Dissolved Solids in Water by Gravimetric Method	10mg/L	QC082321	August 23, 2021
Sample Preservation		Samples preserved according to the SMoE Section 1060C	N/A		

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CERTIFICATE OF ANALYSIS

Sample Description	Sample Matrix:	Sample ID
Well Sample	Water	MI2HL170821A1

Parameters	Results	Units
Arsenic	<0.001	mg/L
Barium	0.010	mg/L
Boron	0.200	mg/L
Calcium	182.428	mg/L
Chloride	22.5	mg/L
Conductivity @ 25 °C	2410.00	µS/cm
Fluoride	0.68	mg/L
Hardness	956.594	mgCaCO ₃ /L
Iron	0.513	mg/L
Magnesium	121.678	mg/L
Manganese	0.042	mg/L
Nitrate-Nitrogen	<0.23	mg/L
Nitrite-Nitrogen	<0.015	mg/L
pH	7.40	n/a
Potassium	8.084	mg/L
Sodium	186.705	mg/L
Sulfate	560.0	mg/L
Uranium	0.007	mg/L
Zinc	0.009	mg/L

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Sample Description	Sample Matrix:	Sample ID
Well Sample	Water	MI2HL170821A1

Test Method References:

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Test	Horizon Lab Procedure	Method of Reference	Detection Limit	QC Batch	Date of Analysis
Chloride	P052	Chloride, Mercuric Thiocyanate Method HACH 8113	0.1 mg/L	QC082021CI	August 20, 2021
Conductivity	P050	Conductivity Probe. HACH HQ40d	0.01 µS/cm	QC081721Cond	August 17, 2021
Fluoride	P086	Fluoride by USEPA SPANDNS Method HACH 10225	0.02 mg/L	QC081921F	August 19, 2021
Hardness	P083	Hardness, determined by calculation, according to the SMoE Section 2340B.	0.100mg/L	QCTMW082521AHIT	August 25, 2021
Nitrate-Nitrogen	P053	Nitrate- Nitrogen, Dimethylphenol Method HACH 10206	0.23 mg/L	QC081721NO ₃ N	August 17, 2021
Nitrite-Nitrogen	P054	Nitrite-Nitrogen, Diazotization Method HACH 10207	0.015mg/L	QC081721NO ₂ N	August 17, 2021
pH	P059	pH. HACH HQ40d	Cal. pH 4-10	QC081721pH	August 17, 2021
Sulfates	P084	Sulfate Turbidimetric Method HACH 8051.	5.0 mg/L	QC081921SO ₄	August 19, 2021
Trace Metals	P078	Trace metals and elemental determination by Inductively Coupled Plasma-Mass Spectrometry. EPA 200.8 *Tracemetals, **Calcium, Magnesium, Iron, Potassium, Sodium,*** Mercury	*0.001 mg/L **0.100 mg/L ***0.0001mg/L	QCTMW082521AHIT	August 25, 2021
Sample Preservation		Samples preserved according to the SMoE Section 1060C	N/A	N/A	

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