

Cartier Regional Water Co-op - Headingley

Regional - PWS

ATTN: DAVID EPLER

CRWC - Headingley Regional - PWS

6000 Portage Avenue

Headinglev MB R4H 1E8

Date Received: 16-MAY-23

Report Date: 09-JUN-23 12:54 (MT)

Version: FINAL REV. 2

Client Phone: 204-832-2555

Certificate of Analysis

Lab Work Order #: L2750680

Project P.O. #: NOT SUBMITTED

Job Reference: HEADINGLEY REGIONAL - PWS 89.40

C of C Numbers:

Legal Site Desc: HEADINGLEY REGIONAL - PWS

Other INV COMMENTS: Reissue for W848339; change account from W10477 to W7374

Information:

Comments:

9-JUN-2023 AMENDED REPORT - Email recipients corrected and re-sent

Sheriza Rajack-Ahamed Account Manager

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ANALYTICAL REPORT

L2750680 CONTD....
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Physical Tests (WATER)

· · · / · · · · · · · · · · · · · · · · · · ·							
			ALS ID	L27506	80-1	L27506	80-2
		Sample	ed Date	16-MA	Y-23	16-MA`	Y-23
			ed Time	10:3	80	09:3	0
			mple ID	HEADIN		HEADING	
Analyte	Unit	Guide Limit #1 L	Guide imit #2	REGION RAV		REGION. TREAT	
Colour, True	CU	15	-	45.3		<5.0	
Conductivity	umhos/cm	-	-	848		234	
Hardness (as CaCO3)	mg/L	-	-	384	HTC	85.6	HTC
Langelier Index (4 C)	No Unit	-	-	0.91		-0.40	
Langelier Index (60 C)	No Unit	-	-	1.7		0.37	
pH	pH units	7.00-10.5	j -	8.43		7.96	
Total Dissolved Solids	mg/L	500	-	516		117	
Transmittance, UV (254 nm)	%T/cm	-	-	44.7		97.7	
Turbidity	NTU	-	-	200		0.15	

Federal Guidelines for Canadian Drinking Water Quality (MAR, 2021)

#1: GCDWQ - Aesthetic Objective/Other Value (Jan.2020)

#2: GCDWQ - Maximum Acceptable Concentrations (MACs-Jan.2020)

Anions and Nutrients (WATER)

Allions and Numerics (WAT	LN)				
			ALS ID	L2750680-1	L2750680-2
		Sample	ed Date	16-MAY-23	16-MAY-23
			ed Time	10:30	09:30
		Sar	mple ID	HEADINGLEY	HEADINGLEY
Analyte	Unit	Guide Limit #1 L	Guide imit #2	REGIONAL 1 - RAW	REGIONAL 2 - TREATED
Alkalinity, Total (as CaCO3)	mg/L	-	-	219	54.1
Ammonia, Total (as N)	mg/L	-	-	0.045	0.012
Bicarbonate (HCO3)	mg/L	-	-	253	66.0
Bromide (Br)	mg/L	-	-	0.059	<0.010
Carbonate (CO3)	mg/L	-	-	7.08	<0.60
Chloride (CI)	mg/L	250	-	22.7	3.13
Fluoride (F)	mg/L	-	1.5	0.144	<0.020
Hydroxide (OH)	mg/L	-	-	<0.34	<0.34
Nitrate (as N)	mg/L	-	10	0.338	0.243
Nitrite (as N)	mg/L	-	1	0.0011	<0.0010
Sulfate (SO4)	mg/L	500	-	205	51.1

Federal Guidelines for Canadian Drinking Water Quality (MAR, 2021)

#1: GCDWQ - Aesthetic Objective/Other Value (Jan.2020)

#2: GCDWQ - Maximum Acceptable Concentrations (MACs-Jan.2020)

Organic / Inorganic Carbon (WATER)

organio / morganio oarbon	(****			
		ALS ID	L2750680-1	L2750680-2
		Sampled Date	16-MAY-23	16-MAY-23
		Sampled Time	10:30	09:30
		Sample ID	HEADINGLEY	HEADINGLEY
Analyte	Unit	Guide Guide Limit #1 Limit #2	REGIONAL 1 - RAW	REGIONAL 2 - TREATED
Dissolved Organic Carbon	mg/L		11.4	<0.50
Total Organic Carbon	mg/L		11.0	<0.50

Federal Guidelines for Canadian Drinking Water Quality (MAR, 2021)

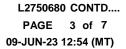
#1: GCDWQ - Aesthetic Objective/Other Value (Jan.2020)

#2: GCDWQ - Maximum Acceptable Concentrations (MACs-Jan.2020)

Detection Limit for result exceeds Guide Limit. Assessment against Guide Limit cannot be made.

Analytical result for this parameter exceeds Guide Limit listed on this report.

^{*} Please refer to the Reference Information section for an explanation of any qualifiers noted.





ANALYTICAL REPORT

Total Metals (WATER)

Total Metals (WATER)					1	1	
			ALS ID	L2750680-1	L2750680-2	L2750680-3	
			led Date	16-MAY-23	16-MAY-23 09:30	16-MAY-23	
			ed Time ample ID	10:30 HEADINGLEY	HEADINGLEY	13:50 HEADINGLEY	
Analyte	Unit	Guide Limit #1	Guide	REGIONAL 1 - RAW	REGIONAL 2 - TREATED	REGIONAL 3 - DISTRIBUTION SFX RES.	
Aluminum (Al)-Total	mg/L	0.1	2.9	3.88	0.0048	<0.0030	
Antimony (Sb)-Total	mg/L	-	0.006	0.00035	<0.00010	<0.00010	
Arsenic (As)-Total	mg/L	-	0.01	0.00780	<0.00010	<0.00010	
Barium (Ba)-Total	mg/L	-	2	0.155	0.00114	0.00110	
Beryllium (Be)-Total	mg/L	-	-	0.00027	<0.00010	<0.00010	
Bismuth (Bi)-Total	mg/L	-	-	0.000081	<0.000050	<0.000050	
Boron (B)-Total	mg/L	-	5	0.111	0.081	0.079	
Cadmium (Cd)-Total	mg/L	-	0.005	0.000143	<0.000050	<0.000050	
Calcium (Ca)-Total	mg/L	-	-	77.4	33.4	38.1	
Cesium (Cs)-Total	mg/L	-	-	0.000687	<0.000010	<0.000010	
Chromium (Cr)-Total	mg/L	-	0.05	0.00622	<0.00010	<0.00010	
Cobalt (Co)-Total	mg/L	-	-	0.00395	<0.00010	<0.00010	
Copper (Cu)-Total	mg/L	1	2	0.0105	0.0207	0.00163	
Iron (Fe)-Total	mg/L	0.3	-	7.29	<0.010	<0.010	
Lead (Pb)-Total	mg/L	-	0.005	0.00427	<0.000050	<0.000050	
Lithium (Li)-Total	mg/L	-	-	0.0572	0.0048	0.0049	
Magnesium (Mg)-Total	mg/L	-	-	46.3	0.546	0.599	
Manganese (Mn)-Total	mg/L	0.02	0.12	0.513	0.00842	0.00411	
Molybdenum (Mo)-Total	mg/L	-	-	0.00308	<0.000050	<0.000050	
Nickel (Ni)-Total	mg/L	-	-	0.0132	<0.00050	<0.00050	
Phosphorus (P)-Total	mg/L	-	-	0.400	<0.050	<0.030	
Potassium (K)-Total	mg/L	-	-	17.3	1.21	1.27	
Rubidium (Rb)-Total	mg/L	-	-	0.0106	0.00025	0.00024	
Selenium (Se)-Total	mg/L	-	0.05	0.000826	<0.000050	<0.000050	
Silicon (Si)-Total	mg/L	-	-	16.1	0.69	0.78	
Silver (Ag)-Total	mg/L	-	-	0.000036	<0.000010	<0.000010	
Sodium (Na)-Total	mg/L	200	-	54.3	11.9	9.46	
Strontium (Sr)-Total	mg/L	-	7	0.293	0.0350	0.0395	
Sulfur (S)-Total	mg/L	-	-			16.7	
Tellurium (Te)-Total	mg/L	-	-	<0.00020	<0.00020	<0.00020	
Thallium (TI)-Total	mg/L	-	-	0.000104	<0.000010	<0.000010	
Thorium (Th)-Total	mg/L	-	-	0.00074	<0.00010	<0.00010	
Tin (Sn)-Total	mg/L	-	-	0.00011	<0.00010	<0.00010	

Federal Guidelines for Canadian Drinking Water Quality (MAR, 2021)

#1: GCDWQ - Aesthetic Objective/Other Value (Jan.2020)
#2: GCDWQ - Maximum Acceptable Concentrations (MACs-Jan.2020)

Detection Limit for result exceeds Guide Limit. Assessment against Guide Limit cannot be made.

Analytical result for this parameter exceeds Guide Limit listed on this report.

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ANALYTICAL REPORT

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Total Metals (WATER)

Total Mictals (WATEN)						
			ALS ID	L2750680-1	L2750680-2	L2750680-3
		Samp	led Date	16-MAY-23	16-MAY-23	16-MAY-23
		Samp	led Time	10:30	09:30	13:50
		Sa	ample ID	HEADINGLEY	HEADINGLEY	HEADINGLEY
Analyte	Unit	Guide Limit #1	Guide Limit #2	REGIONAL 1 - RAW	REGIONAL 2 - TREATED	REGIONAL 3 - DISTRIBUTION - SFX RES.
Titanium (Ti)-Total	mg/L	-	-	0.0725	<0.00030	<0.00030
Tungsten (W)-Total	mg/L	-	-	<0.00010	<0.00010	<0.00010
Uranium (U)-Total	mg/L	-	0.02	0.00389	0.000028	0.000028
Vanadium (V)-Total	mg/L	-	-	0.0159	<0.00050	<0.00050
Zinc (Zn)-Total	mg/L	5	-	0.0305	0.0053	<0.0030
Zirconium (Zr)-Total	mg/L	-	-	0.00133	<0.00020	<0.00020

Federal Guidelines for Canadian Drinking Water Quality (MAR, 2021) #1: GCDWQ - Aesthetic Objective/Other Value (Jan.2020)

#2: GCDWQ - Maximum Acceptable Concentrations (MACs-Jan.2020)

^{*} Please refer to the Reference Information section for an explanation of any qualifiers noted.

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Reference Information

Qualifiers for Individual Parameters Listed:

Qualifier Description

HTC Hardness was calculated from Total Ca and/or Mg concentrations and may be biased high (dissolved Ca/Mg results unavailable).

Methods Listed (if applicable):

ALS Test Code Matrix Test Description Method Reference**

ALK-CO3CO3-CALC-WP Water Alkalinity, Carbonate CALCULATION

The Alkalinity of water is a measure of its acid neutralizing capacity. Alkalinity is imparted by bicarbonate, carbonate and hydroxide components of

water. The fraction of alkalinity contributed by carbonate is calculated and reported as mg CO3 2-/L.

ALK-HCO3HCO3-CALC-

Water

Alkalinity, Bicarbonate

CALCULATION

The Alkalinity of water is a measure of its acid neutralizing capacity. Alkalinity is imparted by bicarbonate, carbonate and hydroxide components of water. The fraction of alkalinity contributed by bicarbonate is calculated and reported as mg HCO3-/L

ALK-OHOH-CALC-WP

Water

Alkalinity, Hydroxide

CALCULATION

The Alkalinity of water is a measure of its acid neutralizing capacity. Alkalinity is imparted by bicarbonate, carbonate and hydroxide components of water. The fraction of alkalinity contributed by hydroxide is calculated and reported as mg OH-/L.

ALK-TITR-WP

Water

Alkalinity, Total (as CaCO3)

APHA 2320B

The Alkalinity of water is a measure of its acid neutralizing capacity. Alkalinity is imparted by bicarbonate, carbonate and hydroxide components of water. Total alkalinity is determined by titration with a strong standard mineral acid to the successive HCO3- and H2CO3 endpoints indicated electrometrically.

BR-L-IC-N-WP Water Bromide in Water by IC (Low Level) EPA 300.1 (mod)-LR

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

C-DOC-HTC-WP

Water

Dissolved Organic Carbon by

APHA 5310 B-WP

Combustion

Filtered (0.45 um) sample is acidified and purged to remove inorganic carbon, then injected into a heated reaction chamber where organic carbon is oxidized to CO2 which is then transported in the carrier gas stream and measured via a non-dispersive infrared analyzer.

C-TOC-HTC-WP Total Organic Carbon by Combustion APHA 5310 B-WP

Sample is acidified and purged to remove inorganic carbon, then injected into a heated reaction chamber where organic carbon is oxidized to CO2 which is then transported in the carrier gas stream and measured via a non-dispersive infrared analyzer.

CL-L-IC-N-WP Chloride in Water by IC (Low Level)

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

COLOUR-TRUE-WP

Water

Colour, True

APHA 2120C

True Colour is measured spectrophotometrically by comparison to platinum-cobalt standards using the single wavelength method (450 - 465 nm) after filtration of sample through a 0.45 um filter. Colour measurements can be highly pH dependent, and apply to the pH of the sample as received (at time of testing), without pH adjustment. Concurrent measurement of sample pH is recommended.

EC-SCREEN-WP

Water

Conductivity Screen (Internal Use

APHA 2510

Only)

Qualitative analysis of conductivity where required during preparation of other test eg. IC, TDS, TSS, etc

EC-WP Conductivity **APHA 2510B**

Conductivity of an aqueous solution refers to its ability to carry an electric current. Conductance of a solution is measured between two spatially fixed and chemically inert electrodes.

ETL-LANGELIER-4-WP Water Langelier Index 4C Calculated

ETL-LANGELIER-60-WP Water Langelier Index 60C Calculated

F-IC-N-WP Water Fluoride in Water by IC EPA 300.1 (mod)

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

HARDNESS-CALC-WP Water Hardness Calculated **APHA 2340B**

Hardness (also known as Total Hardness) is calculated from the sum of Calcium and Magnesium concentrations, expressed in CaCO3 equivalents. Dissolved Calcium and Magnesium concentrations are preferentially used for the hardness calculation.

IONBALANCE-CALC-WP Water Ion Balance Calculation **APHA 1030E**

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Reference Information

Methods Listed (if applicable):

ALS Test Code Matrix Test Description Method Reference**

Cation Sum, Anion Sum, and Ion Balance (as % difference) are calculated based on guidance from APHA Standard Methods (1030E Checking Correctness of Analysis). Because all aqueous solutions are electrically neutral, the calculated ion balance (% difference of cations minus anions) should be near-zero.

Cation and Anion Sums are the total meq/L concentration of major cations and anions. Dissolved species are used where available. Minor ions are included where data is present. Ion Balance (as % difference) cannot be calculated accurately for waters with very low electrical conductivity (EC), and is reported as "Low EC" where EC < 100 uS/cm (umhos/cm). Ion Balance is calculated as:

Ion Balance (%) = [Cation Sum-Anion Sum] / [Cation Sum+Anion Sum]

MET-T-CCMS-WP Water Total Metals in Water by CRC ICPMS EPA 200.2/6020B (mod.)

Water samples are digested with nitric and hydrochloric acids, and analyzed by CRC ICPMS.

Method Limitation (re: Sulfur): Sulfide and volatile sulfur species may not be recovered by this method.

NH3-COL-WP Water Ammonia by colour APHA 4500 NH3 F

Ammonia in water samples forms indophenol when reacted with hypochlorite and phenol. The intensity is amplified by the addition of sodium nitroprusside and measured colourmetrically.

NO2-L-IC-N-WP Water Nitrite in Water by IC (Low Level) EPA 300.1 (mod)

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

NO3-L-IC-N-WP Water Nitrate in Water by IC (Low Level) EPA 300.1 (mod)

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

PH-WP Water pH APHA 4500H

The pH of a sample is the determination of the activity of the hydrogen ions by potentiometric measurement using a standard hydrogen electrode

and a reference electrode.

SO4-IC-N-WP Water Sulfate in Water by IC EPA 300.1 (mod)

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

TDS-WP Water Total Dissolved Solids (TDS) APHA 2540 SOLIDS C,E

A well-mixed sample is filtered through a glass fiber filter paper. The filtrate is then evaportaed to dryness in a pre-weighed vial and dried at 180 -

2C. The increase in vial weight represents the total dissolved solids.

TURBIDITY-WP Water Turbidity APHA 2130B (modified)

Turbidity in aqueous matrices is determined by the nephelometric method.

UV-%TRANS-WP Water UV Transmittance (Calculated) APHA 5910B

Test method is adapted from APHA Method 5910B. A sample is filtered through a 0.45 um polyethersulfone (PES) filter and its UV Absorbance is measured in a quartz cell at 254 nm. UV Transmittance is calculated from the UV Absorbance result and reported as UV Transmittance per cm.

The analysis is carried out without pH adjustment.

**ALS test methods may incorporate modifications from specified reference methods to improve performance.

Chain of Custody Numbers:

The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

Laboratory Definition Code Laboratory Location

WP ALS ENVIRONMENTAL - WINNIPEG, MANITOBA, CANADA

Additional Information:

INV COMMENTS Reissue for W848339; change account from W10477 to W7374

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Reference Information

GLOSSARY OF REPORT TERMS

Surrogates are compounds that are similar in behaviour to target analyte(s), but that do not normally occur in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery. In reports that display the D.L. column, laboratory objectives for surrogates are listed there.

mg/kg - milligrams per kilogram based on dry weight of sample

mg/kg wwt - milligrams per kilogram based on wet weight of sample

mg/kg lwt - milligrams per kilogram based on lipid-adjusted weight

mg/L - unit of concentration based on volume, parts per million.

< - Less than.

D.L. - The reporting limit.

N/A - Result not available. Refer to qualifier code and definition for explanation.

Test results reported relate only to the samples as received by the laboratory. UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.

Application of guidelines is provided "as is" without warranty of any kind, either expressed or implied, including, but not limited to, fitness for a particular purpose, or non-infringement. ALS assumes no responsibility for errors or omissions in the information. Guideline limits are not adjusted for the hardness, pH or temperature of the sample (the most conservative values are used). Measurement uncertainty is not applied to test results prior to comparison with specified criteria values.



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Report Date: 09-JUN-23

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Client:

Cartier Regional Water Co-op - Headingley Regional - PWS CRWC - Headingley Regional - PWS 6000 Portage Avenue

Headingley MB R4H 1E8

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
ALK-TITR-WP	Water							
Batch R5952178								
WG3784445-5 DUP Alkalinity, Total (as Ca0	CO3)	L2750602-1 205	205		mg/L	0.3	20	17-MAY-23
WG3784445-4 LCS Alkalinity, Total (as CaC	CO3)		100.9		%		85-115	17-MAY-23
WG3784445-1 MB Alkalinity, Total (as CaC	CO3)		<1.0		mg/L		1	17-MAY-23
BR-L-IC-N-WP	Water							
Batch R5952039 WG3784432-2 LCS Bromide (Br)			102.0		%		85-115	16-MAY-23
WG3784432-1 MB Bromide (Br)			<0.010		mg/L		0.01	16-MAY-23
C-DOC-HTC-WP	Water		10.010		9/=		0.0.	10-IVIA 1-23
Batch R5952179								
WG3784480-3 DUP Dissolved Organic Carb		L2750680-1 11.4	12.4		mg/L	8.6	20	17-MAY-23
WG3784480-2 LCS Dissolved Organic Carb	oon		102.9		%		80-120	17-MAY-23
WG3784480-1 MB Dissolved Organic Carb	oon		<0.50		mg/L		0.5	17-MAY-23
WG3784480-4 MS Dissolved Organic Carb	pon	L2750680-2	100.3		%		70-130	17-MAY-23
C-TOC-HTC-WP	Water							
Batch R5952180								
WG3784481-3 DUP Total Organic Carbon		L2750680-1 11.0	11.3		mg/L	3.5	20	17-MAY-23
WG3784481-2 LCS Total Organic Carbon			96.3		%		80-120	17-MAY-23
WG3784481-1 MB Total Organic Carbon			<0.50		mg/L		0.5	17-MAY-23
WG3784481-4 MS Total Organic Carbon		L2750680-2	97.2		%		70-130	17-MAY-23
CL-L-IC-N-WP	Water							
Batch R5952039								
WG3784432-3 DUP Chloride (CI)		L2750660-1 40.5	40.1		mg/L	0.8	20	16-MAY-23
WG3784432-2 LCS								



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Client: Cartier Regional Water Co-op - Headingley Regional - PWS

CRWC - Headingley Regional - PWS 6000 Portage Avenue

Headingley MB R4H 1E8

Test		Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
CL-L-IC-N-WP		Water							
	952039								
WG3784432-2 Chloride (CI)	LCS			99.0		%		90-110	16-MAY-23
WG3784432-1 Chloride (Cl)	MB			<0.10		mg/L		0.1	16-MAY-23
WG3784432-4 Chloride (CI)	MS		L2750660-1	101.9		%		75-125	16-MAY-23
COLOUR-TRUE-WF	•	Water							
Batch R59	951981								
WG3784444-3 Colour, True	DUP		L2750660-6 46.5	44.1		CU	5.3	20	17-MAY-23
WG3784444-2 Colour, True	LCS			100.3		%		85-115	17-MAY-23
WG3784444-1 Colour, True	МВ			<5.0		CU		5	17-MAY-23
EC-WP		Water		10.0				·	17-WA1-23
	952178	Water							
WG3784445-5	DUP		L2750602-1						
Conductivity			684	682		umhos/cm	0.3	10	17-MAY-23
WG3784445-3 Conductivity	LCS			101.9		%		90-110	17-MAY-23
WG3784445-1 Conductivity	MB			<1.0		umhos/cm		1	17-MAY-23
F-IC-N-WP		Water							
Batch R59	952039								
WG3784432-2 Fluoride (F)	LCS			98.8		%		90-110	16-MAY-23
WG3784432-1 Fluoride (F)	MB			<0.020		mg/L		0.02	16-MAY-23
MET-T-CCMS-WP		Water							
Batch R59	952338								
WG3784451-4 Aluminum (Al)-T	DUP		WG3784451-3 <0.0030	<0.0030	RPD-NA	mg/L	N/A	20	17-MAY-23
Antimony (Sb)-T	otal		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	17-MAY-23
Arsenic (As)-Tot	al		0.00073	0.00073		mg/L	1.0	20	17-MAY-23
Barium (Ba)-Tota	al		0.0148	0.0146		mg/L	1.4	20	17-MAY-23
Beryllium (Be)-T	otal		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	17-MAY-23



Workorder: L2750680 Report Date: 09-JUN-23 Page 3 of 11

Client: Cartier Regional Water Co-op - Headingley Regional - PWS

CRWC - Headingley Regional - PWS 6000 Portage Avenue

Headingley MB R4H 1E8

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-CCMS-WP	Water							
Batch R5952338								
WG3784451-4 DUP Bismuth (Bi)-Total		WG3784451-3 < 0.000050	<0.000050	RPD-NA	mg/L	N/A	20	17-MAY-23
Boron (B)-Total		0.011	0.010	RPD-NA	mg/L	3.6	20	17-MAY-23 17-MAY-23
Cadmium (Cd)-Total		<0.0000050	<0.0000050	RPD-NA	mg/L	3.0 N/A	20	17-MAY-23
Calcium (Ca)-Total		20.9	21.0	RPD-NA	mg/L	0.9	20	17-MAY-23
Cesium (Cs)-Total		<0.00010	<0.000010	RPD-NA	mg/L	0.9 N/A	20	17-MAY-23
Chromium (Cr)-Total		<0.00010	<0.00010	RPD-NA RPD-NA	mg/L			-
Cobalt (Co)-Total		<0.00010	<0.00010		mg/L	N/A	20	17-MAY-23
Copper (Cu)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	17-MAY-23
Iron (Fe)-Total		0.048	0.048	RPD-NA	mg/L	N/A	20	17-MAY-23
Lead (Pb)-Total		<0.00050	<0.000050	RPD-NA	mg/L	0.7 N/A	20 20	17-MAY-23
Lithium (Li)-Total		0.0025	0.0025	RPD-NA	mg/L			17-MAY-23
Magnesium (Mg)-Total		6.70	6.62		mg/L	1.0 1.2	20 20	17-MAY-23
Manganese (Mn)-Total		0.00385	0.00373		mg/L	3.0	20	17-MAY-23 17-MAY-23
Molybdenum (Mo)-Total		0.00305	0.00373		mg/L	1.1	20	17-MAY-23
Nickel (Ni)-Total		<0.00050	<0.00050	RPD-NA	mg/L	N/A	20	17-MAY-23
Potassium (K)-Total		1.22	1.20	KPD-NA	mg/L	1.4	20	17-MAY-23
Phosphorus (P)-Total		<0.030	<0.030	RPD-NA	mg/L	1.4 N/A	20	17-MAY-23
Rubidium (Rb)-Total		0.00162	0.00162	KFD-NA	mg/L	0.2	20	17-MAY-23
Selenium (Se)-Total		<0.00050	0.000053	RPD-NA	mg/L	N/A	20	17-MAY-23
Silicon (Si)-Total		1.36	1.38	KFD-NA	mg/L	1.3	20	17-MAY-23
Silver (Ag)-Total		<0.00010	<0.000010	RPD-NA	mg/L	N/A	20	17-MAY-23
Sodium (Na)-Total		2.31	2.29	IXI D-IVA	mg/L	0.8	20	17-MAY-23
Strontium (Sr)-Total		0.0369	0.0367		mg/L	0.4	20	17-MAY-23
Sulfur (S)-Total		2.18	2.30		mg/L	5.3	20	17-MAY-23
Tellurium (Te)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	17-MAY-23
Thallium (TI)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	17-MAY-23
Thorium (Th)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	17-MAY-23
Titanium (Ti)-Total		<0.00030	<0.00030	RPD-NA	mg/L	N/A	20	17-MAY-23
Tungsten (W)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	17-MAY-23
Uranium (U)-Total		0.000050	0.000052	NED-INA	mg/L	3.7	20	17-MAY-23
Vanadium (V)-Total		<0.00050	<0.00052	RPD-NA	mg/L	3.7 N/A	20	
Zinc (Zn)-Total		<0.0030	<0.0030	RPD-NA	mg/L	N/A	20	17-MAY-23
Zirconium (Zr)-Total		<0.0030	<0.00020	IVI D-INW	mg/L	IN/PA	20	17-MAY-23
211001110111 (21) 1 0tal		₹0.00020	\U.UUUZU		mg/ L			17-MAY-23



Workorder: L2750680 Report Date: 09-JUN-23 Page 4 of 11

Client: Cartier Regional Water Co-op - Headingley Regional - PWS

CRWC - Headingley Regional - PWS 6000 Portage Avenue

Headingley MB R4H 1E8

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-CCMS-WP	Water							
Batch R5952338								
WG3784451-4 DUP		WG3784451-3			/I			
Zirconium (Zr)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	17-MAY-23
WG3784451-2 LCS Aluminum (Al)-Total			106.9		%		80-120	17-MAY-23
Antimony (Sb)-Total			101.0		%		80-120	17-MAY-23
Arsenic (As)-Total			102.5		%		80-120	17-MAY-23
Barium (Ba)-Total			99.2		%		80-120	17-MAY-23
Beryllium (Be)-Total			107.6		%		80-120	17-MAY-23
Bismuth (Bi)-Total			100.6		%		80-120	17-MAY-23
Boron (B)-Total			103.1		%		80-120	17-MAY-23
Cadmium (Cd)-Total			100.2		%		80-120	17-MAY-23
Calcium (Ca)-Total			99.7		%		80-120	17-MAY-23
Cesium (Cs)-Total			99.1		%		80-120	17-MAY-23
Chromium (Cr)-Total			102.6		%		80-120	17-MAY-23
Cobalt (Co)-Total			100.0		%		80-120	17-MAY-23
Copper (Cu)-Total			102.2		%		80-120	17-MAY-23
Iron (Fe)-Total			89.6		%		80-120	17-MAY-23
Lead (Pb)-Total			99.2		%		80-120	17-MAY-23
Lithium (Li)-Total			104.8		%		80-120	17-MAY-23
Magnesium (Mg)-Total			117.0		%		80-120	17-MAY-23
Manganese (Mn)-Total			103.4		%		80-120	17-MAY-23
Molybdenum (Mo)-Total			103.1		%		80-120	17-MAY-23
Nickel (Ni)-Total			101.6		%		80-120	17-MAY-23
Potassium (K)-Total			103.6		%		80-120	17-MAY-23
Phosphorus (P)-Total			106.4		%		80-120	17-MAY-23
Rubidium (Rb)-Total			109.9		%		80-120	17-MAY-23
Selenium (Se)-Total			96.2		%		80-120	17-MAY-23
Silicon (Si)-Total			103.3		%		80-120	17-MAY-23
Silver (Ag)-Total			90.7		%		80-120	17-MAY-23
Sodium (Na)-Total			105.4		%		80-120	17-MAY-23
Strontium (Sr)-Total			97.5		%		80-120	17-MAY-23
Sulfur (S)-Total			97.3		%		80-120	17-MAY-23
Tellurium (Te)-Total			93.3		%		80-120	17-MAY-23
Thallium (TI)-Total			98.8		%		80-120	17-MAY-23
Thorium (Th)-Total			97.7		%		80-120	17-MAY-23



Workorder: L2750680 Report Date: 09-JUN-23 Page 5 of 11

Client: Cartier Regional Water Co-op - Headingley Regional - PWS

CRWC - Headingley Regional - PWS 6000 Portage Avenue

Headingley MB R4H 1E8

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-CCMS-WP	Water							
Batch R5952338								
WG3784451-2 LCS Titanium (Ti)-Total			100.3		%		80-120	17-MAY-23
Tungsten (W)-Total			95.4		%		80-120	17-MAY-23
Uranium (U)-Total			97.8		%		80-120	17-MAY-23
Vanadium (V)-Total			104.3		%		80-120	17-MAY-23
Zinc (Zn)-Total			99.8		%		80-120	17-MAY-23
Zirconium (Zr)-Total			95.0		%		80-120	17-MAY-23
WG3784451-1 MB								
Aluminum (Al)-Total			<0.0030		mg/L		0.003	17-MAY-23
Antimony (Sb)-Total			<0.00010		mg/L		0.0001	17-MAY-23
Arsenic (As)-Total			<0.00010		mg/L		0.0001	17-MAY-23
Barium (Ba)-Total			<0.00010		mg/L		0.0001	17-MAY-23
Beryllium (Be)-Total			<0.00010		mg/L		0.0001	17-MAY-23
Bismuth (Bi)-Total			<0.00005	0	mg/L		0.00005	17-MAY-23
Boron (B)-Total			<0.010		mg/L		0.01	17-MAY-23
Cadmium (Cd)-Total			<0.00000	50	mg/L		0.000005	17-MAY-23
Calcium (Ca)-Total			<0.050		mg/L		0.05	17-MAY-23
Cesium (Cs)-Total			<0.00001	0	mg/L		0.00001	17-MAY-23
Chromium (Cr)-Total			<0.00010		mg/L		0.0001	17-MAY-23
Cobalt (Co)-Total			<0.00010		mg/L		0.0001	17-MAY-23
Copper (Cu)-Total			<0.00050		mg/L		0.0005	17-MAY-23
Iron (Fe)-Total			<0.010		mg/L		0.01	17-MAY-23
Lead (Pb)-Total			<0.00005	0	mg/L		0.00005	17-MAY-23
Lithium (Li)-Total			<0.0010		mg/L		0.001	17-MAY-23
Magnesium (Mg)-Total			<0.0050		mg/L		0.005	17-MAY-23
Manganese (Mn)-Total			<0.00010		mg/L		0.0001	17-MAY-23
Molybdenum (Mo)-Total			<0.00005	0	mg/L		0.00005	17-MAY-23
Nickel (Ni)-Total			<0.00050		mg/L		0.0005	17-MAY-23
Potassium (K)-Total			< 0.050		mg/L		0.05	17-MAY-23
Phosphorus (P)-Total			< 0.030		mg/L		0.03	17-MAY-23
Rubidium (Rb)-Total			<0.00020		mg/L		0.0002	17-MAY-23
Selenium (Se)-Total			<0.00005	0	mg/L		0.00005	17-MAY-23
Silicon (Si)-Total			<0.10		mg/L		0.1	17-MAY-23
Silver (Ag)-Total			<0.00001	0	mg/L		0.00001	17-MAY-23
Sodium (Na)-Total			<0.050		mg/L		0.05	17-MAY-23



Workorder: L2750680 Report Date: 09-JUN-23 Page 6 of 11

Client: Cartier Regional Water Co-op - Headingley Regional - PWS

CRWC - Headingley Regional - PWS 6000 Portage Avenue

Headingley MB R4H 1E8

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-CCMS-WP	Water							
Batch R5952338 WG3784451-1 MB							0.0000	
Strontium (Sr)-Total			<0.00020		mg/L		0.0002	17-MAY-23
Sulfur (S)-Total			<0.50		mg/L		0.5	17-MAY-23
Tellurium (Te)-Total			<0.00020		mg/L		0.0002	17-MAY-23
Thallium (TI)-Total			<0.000010	1	mg/L		0.00001	17-MAY-23
Thorium (Th)-Total			<0.00010		mg/L		0.0001	17-MAY-23
Titanium (Ti)-Total			<0.00030		mg/L		0.0003	17-MAY-23
Tungsten (W)-Total			<0.00010		mg/L		0.0001	17-MAY-23
Uranium (U)-Total			<0.000010		mg/L		0.00001	17-MAY-23
Vanadium (V)-Total			<0.00050		mg/L		0.0005	17-MAY-23
Zinc (Zn)-Total			<0.0030		mg/L		0.003	17-MAY-23
Zirconium (Zr)-Total			<0.00020		mg/L		0.0002	17-MAY-23
WG3784451-5 MS Aluminum (Al)-Total		WG3784451-3	126.9		%		70-130	17-MAY-23
Antimony (Sb)-Total			113.1		%		70-130	17-MAY-23
Arsenic (As)-Total			127.8		%		70-130	17-MAY-23
Barium (Ba)-Total			125.9		%		70-130	17-MAY-23
Beryllium (Be)-Total			125.2		%		70-130	17-MAY-23
Bismuth (Bi)-Total			128.7		%		70-130	17-MAY-23
Boron (B)-Total			117.4		%		70-130	17-MAY-23
Cadmium (Cd)-Total			128.2		%		70-130	17-MAY-23
Calcium (Ca)-Total			N/A	MS-B	%		-	17-MAY-23
Cesium (Cs)-Total			122.9		%		70-130	17-MAY-23
Chromium (Cr)-Total			129.2		%		70-130	17-MAY-23
Cobalt (Co)-Total			127.7		%		70-130	17-MAY-23
Copper (Cu)-Total			125.7		%		70-130	17-MAY-23
Iron (Fe)-Total			119.2		%		70-130	17-MAY-23
Lead (Pb)-Total			125.0		%		70-130	17-MAY-23
Lithium (Li)-Total			121.6		%		70-130	17-MAY-23
Magnesium (Mg)-Total			N/A	MS-B	%		-	17-MAY-23
Manganese (Mn)-Total			126.4		%		70-130	17-MAY-23
Molybdenum (Mo)-Total			110.5		%		70-130	17-MAY-23
Nickel (Ni)-Total			124.6		%		70-130	17-MAY-23
Potassium (K)-Total			134.0	MES	%		70-130	17-MAY-23
Phosphorus (P)-Total			132.5	MES	%		70-130	17-MAY-23



Workorder: L2750680 Report Date: 09-JUN-23 Page 7 of 11

Client: Cartier Regional Water Co-op - Headingley Regional - PWS

CRWC - Headingley Regional - PWS 6000 Portage Avenue

Headingley MB R4H 1E8

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-CCMS-WP	Water							
Batch R5952338								
WG3784451-5 MS		WG3784451-3		MEO	0/		70.400	.=
Rubidium (Rb)-Total Selenium (Se)-Total			131.8 126.3	MES	%		70-130	17-MAY-23
Silicon (Si)-Total			120.3		%		70-130	17-MAY-23
			110.2		%		70-130	17-MAY-23
Silver (Ag)-Total			N/A	MC D	%		70-130	17-MAY-23
Sodium (Na)-Total Strontium (Sr)-Total			N/A N/A	MS-B	%		-	17-MAY-23
` ,			116.7	MS-B	%		-	17-MAY-23
Sulfur (S)-Total			108.0				70-130	17-MAY-23
Tellurium (Te)-Total					%		70-130	17-MAY-23
Thallium (TI)-Total Thorium (Th)-Total			121.9 128.8		%		70-130	17-MAY-23
` ,			128.8		%		70-130	17-MAY-23
Titanium (Ti)-Total							70-130	17-MAY-23
Tungsten (W)-Total			108.6		%		70-130	17-MAY-23
Uranium (U)-Total			123.3				70-130	17-MAY-23
Vanadium (V)-Total			129.1		%		70-130	17-MAY-23
Zinc (Zn)-Total			120.7		%		70-130	17-MAY-23
Zirconium (Zr)-Total			111.4		%		70-130	17-MAY-23
NH3-COL-WP	Water							
Batch R5951996								
WG3784450-3 DUP Ammonia, Total (as N)		L2750659-2 <0.010	<0.010	RPD-NA	mg/L	N/A	20	16-MAY-23
WG3784450-2 LCS		10.010	10.010	INI D-INA	9/ =	14/74	20	10-IVIA 1-25
Ammonia, Total (as N)			96.0		%		85-115	16-MAY-23
WG3784450-1 MB								
Ammonia, Total (as N)			<0.010		mg/L		0.01	16-MAY-23
WG3784450-4 MS		L2750659-2						
Ammonia, Total (as N)			94.3		%		75-125	16-MAY-23
NO2-L-IC-N-WP	Water							
Batch R5952039								
WG3784432-3 DUP		L2750660-1	0.0000					
Nitrite (as N)		0.0033	0.0033		mg/L	1.4	20	16-MAY-23
WG3784432-2 LCS Nitrite (as N)			101.3		%		90-110	16-MAY-23
WG3784432-1 MB Nitrite (as N)			<0.0010		mg/L		0.001	16-MAY-23
WG3784432-4 MS		L2750660-1						



Workorder: L2750680

Report Date: 09-JUN-23

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Client:

Cartier Regional Water Co-op - Headingley Regional - PWS CRWC - Headingley Regional - PWS 6000 Portage Avenue

Headingley MB R4H 1E8

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
NO2-L-IC-N-WP	Water							
Batch R5952039 WG3784432-4 MS Nitrite (as N)		L2750660-1	105.2		%		75-125	16-MAY-23
NO3-L-IC-N-WP	Water							
Batch R5952039 WG3784432-3 DUP Nitrate (as N)		L2750660-1 0.214	0.215		mg/L	0.5	20	16-MAY-23
WG3784432-2 LCS Nitrate (as N)			100.6		%		90-110	16-MAY-23
WG3784432-1 MB Nitrate (as N)			<0.0050		mg/L		0.005	16-MAY-23
WG3784432-4 MS Nitrate (as N)		L2750660-1	105.2		%		75-125	16-MAY-23
PH-WP	Water							
Batch R5952178 WG3784445-5 DUP pH		L2750602-1 8.39	8.41	J	pH units	0.02	0.2	17-MAY-23
WG3784445-2 LCS pH			7.02		pH units		6.9-7.1	17-MAY-23
SO4-IC-N-WP	Water							
Batch R5952039 WG3784432-3 DUP Sulfate (SO4)		L2750660-1 303	303		mg/L	0.1	20	16-MAY-23
WG3784432-2 LCS Sulfate (SO4)			100.8		%		90-110	16-MAY-23
WG3784432-1 MB Sulfate (SO4)			<0.30		mg/L		0.3	16-MAY-23
WG3784432-4 MS Sulfate (SO4)		L2750660-1	N/A	MS-B	%		-	16-MAY-23
TDS-WP	Water							
Batch R5952557 WG3784490-3 DUP Total Dissolved Solids		L2750652-1 79	82		mg/L	3.7	20	18-MAY-23
WG3784490-2 LCS Total Dissolved Solids			94.6		%		85-115	18-MAY-23
WG3784490-1 MB Total Dissolved Solids			<4.0		mg/L		4	18-MAY-23



Workorder: L2750680

Report Date: 09-JUN-23

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Client:

Cartier Regional Water Co-op - Headingley Regional - PWS

CRWC - Headingley Regional - PWS 6000 Portage Avenue

Headingley MB R4H 1E8

Test		Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
TURBIDITY-WP		Water							
Batch I	R5952396								
WG3784543-3 Turbidity	B DUP		L2750680-1 200	202		NTU	1.0	15	18-MAY-23
WG3784543-2 Turbidity	LCS			94.0		%		85-115	18-MAY-23
WG3784543- 1 Turbidity	МВ			<0.10		NTU		0.1	18-MAY-23
UV-%TRANS-WF	•	Water							
Batch I	R5952060								
WG3784464-3 Transmittanc	_	nm)	L2750680-1 44.7	45.7		%T/cm	2.3	20	17-MAY-23
WG3784464-1 Transmittance		nm)	BLANK	100.0		%		99.5-100.5	17-MAY-23
WG3784464-2 Transmittanc		nm)		96.6		%		85-115	17-MAY-23

Workorder: L2750680 Report Date: 09-JUN-23

Client: Cartier Regional Water Co-op - Headingley Regional - PWS

CRWC - Headingley Regional - PWS 6000 Portage Avenue

Headingley MB R4H 1E8

Contact: DAVID EPLER

Legend:

imit ALS Control Limit (Data Quality Objectives)

DUP Duplicate

RPD Relative Percent Difference

N/A Not Available

LCS Laboratory Control Sample SRM Standard Reference Material

MS Matrix Spike

MSD Matrix Spike Duplicate

ADE Average Desorption Efficiency

MB Method Blank

IRM Internal Reference Material
 CRM Certified Reference Material
 CCV Continuing Calibration Verification
 CVS Calibration Verification Standard
 LCSD Laboratory Control Sample Duplicate

Sample Parameter Qualifier Definitions:

Qualifier	Description
J	Duplicate results and limits are expressed in terms of absolute difference.
MES	Data Quality Objective was marginally exceeded (by < 10% absolute) for < 10% of analytes in a Multi-Element Scan / Multi-Parameter Scan (considered acceptable as per OMOE & CCME).
MS-B	Matrix Spike recovery could not be accurately calculated due to high analyte background in sample.
RPD-NA	Relative Percent Difference Not Available due to result(s) being less than detection limit.

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Workorder: L2750680 Report Date: 09-JUN-23

Client: Cartier Regional Water Co-op - Headingley Regional - PWS

CRWC - Headingley Regional - PWS 6000 Portage Avenue

Headingley MB R4H 1E8

Contact: DAVID EPLER

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Hold Time Exceedances:

	Sample						
ALS Product Description	ID	Sampling Date	Date Processed	Rec. HT	Actual HT	Units	Qualifier
Physical Tests							
рН							
	1	16-MAY-23 10:30	17-MAY-23 07:27	0.25	21	hours	EHTR-FM
	2	16-MAY-23 09:30	17-MAY-23 07:27	0.25	22	hours	EHTR-FM

Legend & Qualifier Definitions:

EHTR-FM: Exceeded ALS recommended hold time prior to sample receipt. Field Measurement recommended.

EHTR: Exceeded ALS recommended hold time prior to sample receipt.

EHTL: Exceeded ALS recommended hold time prior to analysis. Sample was received less than 24 hours prior to expiry.

EHT: Exceeded ALS recommended hold time prior to analysis.

Rec. HT: ALS recommended hold time (see units).

Notes*:

Where actual sampling date is not provided to ALS, the date (& time) of receipt is used for calculation purposes. Where actual sampling time is not provided to ALS, the earlier of 12 noon on the sampling date or the time (& date) of receipt is used for calculation purposes. Samples for L2750680 were received on 16-MAY-23 14:21.

ALS recommended hold times may vary by province. They are assigned to meet known provincial and/or federal government requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by the US EPA, APHA Standard Methods, or Environment Canada (where available). For more information, please contact ALS.

The ALS Quality Control Report is provided to ALS clients upon request. ALS includes comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against predetermined data quality objectives to provide confidence in the accuracy of associated test results.

Please note that this report may contain QC results from anonymous Sample Duplicates and Matrix Spikes that do not originate from this Work Order.



Environment Climate and Parks Office of Drinking Water 1007 Century Street, Winningg, Manitoba.

Chain of Custody (COC) **Manitoba Drinking Water Systems**

Regular Servi



L2750680-COFC

Unless otherv 3 Day, rush / priority Canada R3H 0W4 Email PDF copy to: Report to Owner (email PDF): Report to Operator (email PDF): DWO: Amanda Fewings Contact: David Epler Contact: Chris Fulsher DWO Address: 14 Fultz Boulevard, Winnipeg, MB R3Y0L6 Address: 6000 Portage Ave. Headingley, MB R4H 1E8 Address: 6000 Portage Avenue, Headingley, MB R4H 1E8 DWO Phone: (204) 795-9614 (204) 832-2555 Phone: Phone: cfulsher@crwc.ca: headinglevwtp@crwc.ca; DWO Fmail: amanda.fewings@gov.mb.ca Fmail: headinglevwtp@crwc.ca; Email: Joern.Muenster@gov.mb.ca; Additional Email: Tyler.Foxton2@gov.mb.ca tyler.foxton2@gov.mb.ca; dvaillant@crwc.ca Melanie.Betsill@gov.mb.ca;

If an update in Owner or Operator contact information is required, please contact your Drinking Water Officer **Client / Project Information:** Agency Code: 382 Report Type: EMS (Lab-MWS) Project: DWO-C Account: Lab: HEADINGLEY REGIONAL - PWS Operation Name: Operation Code: 89.40 **Expected Sample Time:** May-2023 Operation ID: 57047 Parae Jebsen Sampled by:

Please record Free & Total Chlorine residuals for Distribution By-product Sampling DO NOT COPY or RE-USE this form. Sample Number are unique to the Office of Drinking Water and provided by Drinking Water Officer. MB-CH-PWS-V2013 MB-MET-T-CCMS Sample Free Total Chlorine Chlorine Sample Date Time Sample | Sample Station

Sample Sample Identification Matrix Type (mg/L) (mg/L) dd-mmm-yyyy hh:mm Number Number 16-NW-2023 10:20am 2305AF5008 MB05MJD481 Headingley Regional 1 - Raw 1:38 16-MOV-2023 9:30am Х 10 2305AF5009 MB05MID482 Headingley Regional 2 - Treated RES. TNOMING 15-MAY-2023 Headingley Regional 3 - Distribution - SFX 1.47 1:500m 2305AF5010 MB05MJD483

Failure to comple	ete all portions of this for	m may delay analys	is.	Sample Matrix:	6-Raw Water, 9-D	Distributed Water, 10-Treat	ted Water
Please fill in this	form LEGIBLY.			Sample Type:	1-Grab Sample		
By the use of this	form the user acknowled	ges and agrees witl	h the Terms and Conditions	as specified by the	Laboratory.		
For ALL other tes	ting, please use Laborator	ry specific forms.					
		Date & Time	May 1/2023	Validated By (lab u	se only):	Date & Time:	
	mygum		May 16/2023 62:00 m	Sample Condition (lab use only)			
Received By:	V V	Date & Time:	1	Tomporature	Samples Received	I in Good Condition?	Y/N
(lab use only)		(lab use only)	MAY 1 6 2023	15.8			1 / IN