

2025 Annual Groundwater Monitoring Report Keremeos Transfer Station (PR-15278)

860 El Rancho Drive, Keremeos, BC



Prepared By:
Ecoscape Environmental Consultants Ltd.

Prepared For:
Regional District of Okanagan - Similkameen

March 24, 2026

2025 ANNUAL GROUNDWATER MONITORING REPORT

KEREMEOS TRANSFER STATION (PR-15278)

Prepared For:

Regional District of Okanagan - Similkameen
101 Martin Street
Penticton, BC
V2A 5J9

Prepared By:

Ecoscape Environmental Consultants Ltd.
2-2030 Matrix Crescent
Kelowna, B.C.
V1V 0G5



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TABLE OF CONTENTS

Acronyms and Abbreviations.....	iii
1.0 Introduction.....	4
1.1. Background.....	4
2.0 Objective and Work Scope	4
3.0 Site Description.....	5
3.1. Climate and Biogeoclimatic Zones	6
3.2. Topography, Drainage and Nearby Watercourses.....	6
3.3. Regional And Local Geology and Hydrogeology	7
4.0 Regulatory Framework.....	8
4.1. Operational Certificate and Landfill Criteria	8
4.2. Applicable Guidelines and Standards.....	9
5.0 Groundwater Monitoring Program	11
5.1. Recent Changes to the Monitoring Network	11
5.2. Current Monitoring Well Network.....	11
5.3. Groundwater Sampling Methodology	13
6.0 Monitoring Program Results.....	14
6.1. Site Observations	14
6.2. Water Levels and Inferred Groundwater Flow Direction	14
6.3. 2025 Analytical Results Relative to Applicable Standards and Guidelines	15
6.3.1 Background Groundwater Quality.....	17
6.3.2 Downgradient Groundwater Quality.....	17
6.4. Water Quality Trend Analysis.....	17
6.4.1 Background Well - 960 Keremeos Rd. (DW-960).....	20
6.4.2 MW24-03	21
6.4.3 848 El Rancho Rd. (DW-848).....	22
6.4.4 MW20-01 and MW20-02.....	23
6.4.5 900 Keremeos Rd. (IW-900).....	24
6.4.6 BH-99.....	25
7.0 Piper Diagram	26
8.0 Conceptual Model and Water Quality Discussion.....	27
9.0 Quality Assurance/Quality Control	28
10.0 Conclusions.....	30
11.0 Recommendations	31
12.0 Limitations.....	32
13.0 Closure	33
References	34

LIST OF FIGURES

- FIGURE 1: Site Location
- FIGURE 2: Groundwater Sampling Locations
- FIGURE 3: Depth to Water Time Series Plot
- FIGURE 4: Chloride and Electrical Conductivity Time Series Plot
- FIGURE 5: Sodium Time Series Plot
- FIGURE 6: Nitrate and Sulphate Time Series Plot
- FIGURE 7: Alkalinity and Calcium Time Series Plot
- FIGURE 8: Selenium Time Series Plot
- FIGURE 9: Piper Plot

LIST OF APPENDICES

- APPENDIX A: General Terms and Conditions
- APPENDIX B: Operational Certificate
- APPENDIX C: Well Logs
- APPENDIX D: Historical Water Quality Data
- APPENDIX E: Laboratory Certificates of Analysis

ACRONYMS AND ABBREVIATIONS

AO	Aesthetic Objective
AW	Freshwater Aquatic Life
BCAWQG	BC Approved Water Quality Guidelines
BCGS	BC Geological Survey
BCWWQG	BC Working Water Quality Guidelines
CALA	Canadian Association for Laboratory Accreditation
CARO	Caro Analytical Services, Kelowna, BC
COD	Chemical Oxygen Demand
CSR	BC Contaminated Sites Regulation
DO	Dissolved Oxygen
DW	Drinking Water
EC	Electrical Conductivity
EMA	Environmental Management Act
ENV	BC Ministry of Environment and Parks
GCDWQ	Guidelines for Canadian Drinking Water Quality
IW	Irrigation Water
LW	Livestock Watering
m asl	Meters Above Sea Level
mbgs	Meters Below Ground Surface
mbtoc	Meters Below Top of Casing
mg/L	Milligrams per Litre
MAC	Maximum Acceptable Concentration
N	Nitrogen
OC	Operational Certificate
ORP	Oxidation-reduction Potential
QA/QC	Quality Assurance/Quality Control
RDOS	Regional District of Okanagan-Similkameen
SHA	Sperling Hansen and Associates
STN ID	Climate Station ID
SDWQG	Source Drinking Water Quality Guidelines
TDS	Total Dissolved Solids
WRA	Water Resource Atlas
Ecoscape	Ecoscape Environmental Consultants Ltd.
KTS	Keremeos Transfer Station
CaulWell	CaulWell Engineering and Geoscience Ltd.
BCWQG	BC Approved and Working Water Quality Guidelines
HDPE	High-Density Polyethylene

1.0 INTRODUCTION

Ecoscape Environmental Consultants Ltd. (Ecoscape) has been retained by the Regional District of Okanagan - Similkameen (the Client) to review groundwater quality data collected at and near the Keremeos Transfer Station (the Site, Figure 1) and to prepare this Annual Environmental Monitoring Report per the Site's BC Ministry of Environment and Parks (ENV) Operational Certificate (PR-15278) monitoring and reporting requirements.

This report presents a summary and analysis of groundwater monitoring data collected by Regional District of Okanagan-Similkameen (RDOS) personnel from January 1 to December 31, 2025, and includes a discussion of the applicable regulatory context, field procedures, quality assurance/quality control measures, and recommendations for future Site monitoring. General terms and conditions applicable to this report are attached as Appendix A.

1.1. Background

The Keremeos Transfer Station (KTS) has operated as a transfer station since 2007 and provides solid waste disposal and recycling services to businesses, institutions, and residents from the Village of Keremeos, Cawston, Hedley, and Olalla. The KTS has not been an active landfill since June 2007.

The Site operates under Operation Certificate PR- 15278 (the OC) issued by the Ministry of Environment, Lands, and Parks (now BC ENV) issued on January 8, 2015 and most recently amended on February 12, 2020. The OC has not been amended since then. A copy of the OC is provided in Appendix B.

2.0 OBJECTIVE AND WORK SCOPE

The objective of this work program was to fulfill the annual monitoring and reporting requirements outlined in the OC by evaluating spatial and temporal trends in groundwater quality and identifying locations where water quality exceeds applicable guidelines and standards.

Key water quality questions answered in this report are:

- Does groundwater quality meet applicable guidelines and standards beyond the Site boundary?
- Does groundwater quality near the Site vary spatially between sample locations and temporally between seasons and years as a result of historical landfilling at the Site, and if so, what are the variances?
- If spatial and temporal trends in groundwater chemistry exist, do these trends suggest adverse effects, and is this linked to permitted landfill operations?

In meeting these objectives and answering these questions, Ecoscape and RDOS undertook the following tasks:

- Collected representative groundwater samples from select monitoring locations on and near the Site (Figure 2) on a tri-annual basis, as summarized in Section 5;
- Submitted groundwater samples for analyses to Caro Analytical Services (CARO), which is accredited by the Canadian Association for Laboratory Accreditation (CALA);
- Entered groundwater quality data into a database (tabulated) and compared to applicable guidelines and standards to determine if exceedances were observed;
- Analyzed temporal and spatial groundwater quality trends to evaluate the potential for landfill leachate impacts on water quality; and
- Prepared this annual groundwater monitoring report.

3.0 SITE DESCRIPTION

The Site is situated approximately 1 km north of Keremeos at the north end of El Rancho Drive (Figure 1). The Site includes an approximately 8 ha parcel owned by the RDOS. A Site description is provided in Table 1.

Table 1. Site Description	
Topic	Details
Civic Address	860 El Rancho Drive, Keremeos, BC
Legal Description	Similkameen Div of Yale Land District, UCL in the vicinity of DL 2821 (NE Corner), for Transfer Station for Refuse Disposal Purposes, Lease/Permit/Licence # 345360
Site Owner	Province of British Columbia
Latitude and Longitude (of Site centre)	49° 13' 12" N and 119° 49' 58" W
Approximate Site Area	8.1 ha (former landfill footprint is approx. 2.2 ha at the east end of the Site)
Current Land Use	Transfer Station
Site Elevation	Approximately 460 to 570 m above sea level

The Site is surrounded by undeveloped land to the north and west, a single-family residence to the south, and orchards with residences to the east.

Agricultural activities (e.g., pesticide and herbicide use) at nearby properties carry the potential to release deleterious substances to the environment, resulting in groundwater contamination. This potential has been considered when evaluating groundwater chemistry at and downgradient of the Site.

3.1. Climate and Biogeoclimatic Zones

The Site is located within the Okanagan Very Dry Hot Bunchgrass Variant (BGxh1) biogeoclimatic zone. The BG zone generally has a continental climate characterized by warm, dry summers, and moderately cool winters with little snowfall (Meidinger and Pojar, 1991).

Climate normal data from Environment Canada was used to complete this assessment. Based on data collected from the Keremeos station (Climate Station ID 1124112) between 1981 and 2010, the average annual total precipitation (rain and snow) was 325.4 mm with an average rainfall of 68.9 mm, suggesting the Site climate is relatively dry. The highest precipitation typically occurred between May and July (as rain), and again in November to January (as snow). The daily average temperatures for July and August (the warmest months) and December (the coldest month) were 20.9 °C and -2.8 °C, respectively.

It is important to note, however, that most climate models for the BC Interior indicate that seasonal precipitation and temperature patterns will likely shift from the above-referenced “normals”, which are based on data collected over two decades ago. Specifically, we can expect to see warmer and drier summers, coupled with earlier spring freshet, while winter seasons will experience increased precipitation falling as rain as opposed to snow, particularly in low-elevation areas.

3.2. Topography, Drainage and Nearby Watercourses

The Site is situated along the north side of the Similkameen Valley, at the junction with the Keremeos Creek Valley. Both valleys were originally eroded by rivers and subsequently modified and infilled by glacial activity. The valley morphologies are typical of glacial valleys comprising a relatively flat valley bottom flanked by steep bedrock walls.

The Site sits atop a terrace at the toe of a steep, west-dipping bedrock slope. The Site slopes southeast from a topographic high of approximately 570 m above sea level (masl) at the northwest to 460 masl along the east Site boundary.

Surface drainage at the Site is expected to mimic topography with flow towards the south-southeast. The nearby surrounding area generally slopes south and east from the surrounding highlands towards the Similkameen River, which is situated approximately 2 km south and downslope of the Site (Figures 1 and 2). Keremeos Creek is situated approximately 750 m cross-gradient of the Site and flows south into the Similkameen River. The Similkameen River flows southeast into the Okanagan River.

Previous water balance studies (SHA, 2006) have demonstrated that there is little potential for leachate generation at the Site due to high evapotranspiration compared to precipitation.

There are currently no formalized stormwater control systems on the Site, and no surface waterbodies flow onto, occur on, or exit the Site.

3.3. Regional And Local Geology and Hydrogeology

The BC Geological Survey (BCGS) maintains a province-wide repository of bedrock geological maps. In its current edition, bedrock geology is amalgamated from original maps at scales ranging from 1:250,000 to 1:50,000 (Cui et al. 2017). These scales are low resolution, and as such, Site geology may be different than BCGS mapping. According to BC Geological Survey mapping, bedrock beneath the Site comprises Permian to Triassic-aged siliceous argillite, siliciclastic rock, and chert of the Shoemaker Formation (Cui et. al, 2017). Bedrock outcrops upslope of the Site, is fairly shallow beneath the Site, and deepens towards the valley bottom. Nearby wells logs indicate that bedrock is around 45 to 50 m below ground surface (mbgs) downslope of the Site.

Bedrock in the area is overlain by post-glacial sand and gravel deposits, colluvium, some clay interbeds, and till. Test pits previously completed by Sperling Hansen and Associates (SHA) indicated that near-surface soils beneath the Site comprise sand and gravel mixed with colluvium. Overburden beneath the Site is generally unsaturated; however, groundwater may be intermittently perched atop the bedrock surface, particularly following heavy precipitation events.

The BC ENV's Water Resources Atlas (WRA) indicated the Site is situated immediately west and upslope of ENV-mapped Aquifer 259. Aquifer 259 was mapped as an unconfined sand and gravel aquifer spanning the Similkameen River fluvial deposits from Princeton to the US border. The aquifer was classified as highly productive and highly vulnerable to surface sources of contamination at the time of mapping (ENV, 2026). Groundwater flow in the aquifer presumably follows the Similkameen River but may be subparallel to it beneath steeper, upland areas along the aquifer's perimeter. The aquifer is likely recharged by direct precipitation, stream losses, and flow from surrounding upland areas, in which rainfall and snowmelt infiltrates bedrock, migrates downward, and then flows laterally through bedrock fractures into the aquifer.

Aquifer 935 was mapped immediately northeast of the Site, originating north of Ollala and extending south into Aquifer 259. Aquifer 935 was classified as a partially confined sand and gravel aquifer, overlain in some areas by till and glaciolacustrine deposits, and was inferred to be hydraulically connected to Aquifer 259. Groundwater flow in this aquifer was inferred to be south, with some groundwater flow components towards Keremeos Creek, assuming flows are topographically driven. The aquifer was categorized as highly productive and moderately vulnerable to surface sources of contamination when mapped (ENV, 2026).

Groundwater flow patterns near the Site are discussed in more detail in Section 6.2.

4.0 REGULATORY FRAMEWORK

4.1. Operational Certificate and Landfill Criteria

The Site currently operates under OC 15278 issued by the BC ENV under the provisions of the *Environmental Management Act* (EMA).

Sections 2.4 and 3.0 of the OC require the following with respect to monitoring and reporting:

- Groundwater Quality Monitoring Program - sampling and monitoring shall be carried out in accordance with the procedures listed in Section 2.4 of the OC;
- Inspection and Maintenance – the Site must be inspected annually and maintained in accordance with the approved Closure Plan (SHA, 2006);
- Vegetation Monitoring – vegetation on and near the Site must be inspected annually to determine if any adverse environmental impacts are occurring and take appropriate remedial actions if impacts are identified; and,
- Changes to Monitoring and Sampling Program – the director can require changes to the monitoring program if deemed necessary for the protection of the receiving environment, which may include additional monitoring and/or sampling of environmental media.

The OC also requires RDOS to submit an annual monitoring report completed by a qualified professional documenting any effect of leachate discharge on the quality of the receiving environment using appropriate statistical and graphical analysis. Trend analyses, as well as an evaluation of the impacts of leachate discharges on the receiving environment, must be included in the report.

This assessment follows guidance provided in the BC ENV *Landfill Criteria for Municipal Solid Waste* (the Landfill Criteria) (2016), which indicates the following standards and guidelines are typically applicable to water quality assessments at current and historical landfill sites:

- The *Contaminated Sites Regulation* (CSR) Schedule 3.2 Generic Numerical Water Standards;
- The BC Approved and Working Water Quality Guidelines; and
- Other water quality criteria for parameters not addressed by the preceding guidelines and standards.

As a minimum, the appropriate water quality criteria must be satisfied at and beyond the landfill site boundary, or 150 m from the landfill footprint, whichever is closer. More stringent requirements may be set by the director. Existing and potential future groundwater uses within 1 km of the landfill footprint are to be considered when establishing applicable guidelines and standards.

The monitoring program outlined in this report was developed based on Site-specific hydrogeological reports, available monitoring well data, and input from RDOS staff to meet the intent of the Landfill Criteria.

4.2. Applicable Guidelines and Standards

The *Contaminated Sites Regulation* (CSR) is the primary regulatory document that currently describes the EMA's requirements for contaminated sites management in BC. The CSR first came into effect in 1997 and was amended most recently in October 2025. Schedule 3.2 of the CSR provides numerical standards for various contaminant concentrations in water for the following uses: aquatic life (AW), irrigation (IW), livestock watering (LW), and drinking water (DW).

BC ENV recognizes that background groundwater concentrations of some inorganic parameters exceed the above-listed numerical standards in some regions throughout BC. As such, the BC ENV established *Protocol 9 – Establishing Local Background Concentrations in Groundwater* (2023), which lists regional background groundwater concentrations for select inorganic substances for three regions in British Columbia. Concentrations of a water quality parameter in a groundwater sample that exceed applicable numerical water quality standards but are below a background concentration at the site are not considered contaminated under the CSR. BC ENV-established background concentrations cannot be applied to the Site, as it falls outside of the geographic boundaries of regions included in Protocol 9; however, the province-wide background cobalt concentration of 0.02 mg/L has been applied to this assessment.

The *BC Approved and Working Water Quality Guidelines* (collectively referred to as the BCWQGs) were developed by the province for the protection of aquatic life, agriculture, wildlife, recreation, and drinking water sources.

The *Guidelines for Canadian Drinking Water Quality* Maximum Acceptable Concentrations (MAC) (health-based guideline) and Aesthetic Objectives and Operational Guidelines (AO & O) (based on aesthetic considerations) were developed by the Federal government for the protection of potable water sources, such as the nearby domestic wells, similar to the *BC Source Drinking Water Quality Guidelines* (SDWQG) developed by the province.

For the protection of nearby groundwater users, and potential irrigation and livestock watering users in the area, the following numerical standards and guidelines were applied to the groundwater quality data:

Drinking Water:

- *Guidelines for Canadian Drinking Water Quality* - Maximum Acceptable Concentrations (GCDWQ MACs)
- *Guidelines for Canadian Drinking Water Quality* - Aesthetic Objectives and Operational Guidelines (GCDWQ AO & O)

- BC *Source Drinking Water Quality Guidelines* - Maximum Acceptable Concentrations (SDWQG MAC)
- BC *Source Drinking Water Quality Guidelines* - Aesthetic Objectives (SDWQG AO)
- BC CSR Generic Numerical Water Standards for Drinking Water (CSR DW)

Irrigation Water:

- BC *Approved Water Quality Guidelines* for Irrigation (BCAWQG I)
- BC *Working Water Quality Guidelines* for Irrigation (BCWWQG I)
- BC CSR Generic Numerical Water Standards for Irrigation (CSR IW)

Livestock Watering:

- BC *Approved Water Quality Guidelines* for Livestock (BCAWQG L)
- BC *Working Water Quality Guidelines* for Livestock (BCWWQG L)
- BC CSR Generic Numerical Water Standards for Livestock (CSR LW)

Guidelines and standards for the protection of freshwater aquatic life were not considered applicable based on the inferred absence of downgradient surface waterbodies within 1 km of the Site.

With respect to the drinking water guidelines, groundwater with one or more parameters exceeding the health-based MACs is considered not potable. In samples where parameters are found to exceed only AO & Os, the water is deemed potable, but treatment may be desired to address taste, colour, or odour concerns.

5.0 GROUNDWATER MONITORING PROGRAM

5.1. Recent Changes to the Monitoring Network

In 2024, Ecoscape observed the drilling and construction of a new onsite monitoring well MW24-03, completed by Ground Source Drilling Ltd. (Ground Source). This monitoring well was installed near the south Site boundary to monitor potential offsite migration of leachate-impacted groundwater to the south (Figure 2).

Ecoscape collected soil samples at regular intervals and logged subsurface soil characteristics. Gravel with varying sand content was observed to 20 mbgs. A silt layer was encountered from approximately 20 to 23.5 mbgs, transitioning to sand to a drilled depth of 60 mbgs. The well was screened in saturated, medium brown fine sand from 55.6 mbgs to 58.5 mbgs, likely completed in provincially mapped Aquifer 259. Static water level was reported at 53.81 mbgs shortly after the well was completed.

The monitoring well was constructed with a 50 mm (2") inner diameter (ID) flush-threaded Schedule 40 PVC riser, followed by a 50 mm ID No. 10 slot PVC screen. The well screen was sealed at the bottom using a threaded cap and the riser was sealed at the top with a lockable J-plug cap. Silica sand was placed around and above the screened interval to form a filter pack around the well screen. A bentonite seal was placed above the silica sand to the ground surface. The well was completed with a monument protective casing.

A copy of the well log is attached in Appendix C.

5.2. Current Monitoring Well Network

The current monitoring network consists of one (1) onsite well: MW24-03, and six (6) offsite groundwater wells: domestic wells DW-960 and DW-848, irrigation well IW-900, and monitoring wells BH-99, MW20-01, and MW20-02.

Table 2 below summarizes the monitoring network, and monitoring locations are shown on Figure 2.

Table 2: Summary of Keremeos Transfer Station Monitoring Network					
Monitoring Well ID	Location	Rationale	Well Depth (mbtoc)	Top of Casing Elevation (masl)	Screened Lithology
MW24-03	The southeastern boundary of the Site, hydraulically downgradient of the Site	Monitor potential offsite migration of leachate impacts to the south	59.3	466.85 ¹	Sand
DW-960	960 Keremeos Bypass Rd. approximately 300 m northeast and hydraulically upgradient of Site	Provide background groundwater chemistry for the area.	Unknown	457.46 ¹	Unknown, but presumably sand.
DW-848	848 El Rancho Rd., 50 m south and downgradient of the Site.	Domestic well used to monitor potential offsite leachate impacts to the south.	57.9	459.34 ¹	Sand
IW-900	900 Keremeos Bypass Rd., approximately 200 m east and cross-gradient of the Site	Irrigation well used to monitor potential offsite leachate impacts to the east	Unknown	Not surveyed	Unknown
BH-99	900 Keremeos Bypass Rd., approximately 150 m east and cross-gradient of the Site.	Monitoring well used to monitor potential offsite leachate impacts to the east	45.0	454.65 ¹	Sand and Gravel
MW20-01	Offsite and cross-gradient, near the southeast Site corner boundary.	Monitoring well used to monitor potential offsite leachate impacts to the southeast	49.7	459.17 ¹	Sand
MW20-02	Offsite and cross-gradient, near the east Site boundary.	Monitoring well used to monitor potential offsite leachate impacts to the east	53.6	463.60 ¹	Sand

Notes:

M btoC = meters below top of casing

1 = Elevations of the top of casing were surveyed by Allterra Land Surveying in 2023 or 2024.

5.3. Groundwater Sampling Methodology

Groundwater quality monitoring and sampling were conducted by the RDOS' Environmental Technicians.

RDOS personnel collected groundwater quality samples in general accordance with BC ENV's *British Columbia Field Sampling Manual* (2013) and BC ENV *Technical Guidance on Contaminated Sites 8* (ENV 2021), and the sampling program generally meets the intent of the OC.

Well conditions and accessibility of sample locations were documented during each sampling event. RDOS personnel also observed vegetation near each sampling location for signs of abnormal stress (e.g., discolouration or mortality) or abundance potentially linked to landfill leachate, and for signs of liquid flowing from or along the site surface, which could indicate leachate breakout.

RDOS personnel completed the following procedures when collecting groundwater quality samples:

- Measured static water level off a permanent marking on the top of each well riser using a decontaminated electric water level meter (for monitoring wells only);
- Purged monitoring wells, where applicable, until temperature, pH, dissolved oxygen (DO), oxidation-reduction potential (ORP), total dissolved solids (TDS), turbidity, and electrical conductivity (EC) readings were stabilized (+/-10%);
 - Typically purged three (3) to five (5) well volumes from each well, unless the well was purged dry. Wells purged dry were left to recover to half its pre-purging level prior to sampling;
- Purged domestic and irrigation wells for 5 to 10 minutes, until sediment-free water was encountered and field parameters stabilized;
- Recorded the above-listed field parameters in a notebook;
- Noted visual and olfactory water observations, including sheen, colour, turbidity and odour;
- Collected groundwater samples from monitoring wells using or Waterra™ Hydrolift II pump connected to dedicated high-density polyethylene (HDPE) Waterra™ tubing outfitted with an inertia foot valve;
- Collected groundwater samples from domestic and irrigation wells via a tap located as close to each well as possible, and prior to any on-site water treatment;
- Collected samples directly into clean, new laboratory-supplied containers, and field filtered (0.45 µm) and preserved them as required for each analytical parameter; and,
- Stored sample bottles in ice-chilled coolers for transport to CARO for chemical analysis.

RDOS personnel followed proper chain-of-custody procedures during sample transport and ensured regular communication was maintained with CARO as necessary.

Field results, including water level elevations and field-measured parameters, were tabulated by RDOS staff and uploaded to the Wireless Water database.

Laboratory results were sent directly by CARO to the database manager Wireless Water, where laboratory data is merged with field data for long-term data storage and analysis.

6.0 MONITORING PROGRAM RESULTS

The 2025 Site observations, water level measurements, groundwater quality exceedances, and water quality trends are discussed in this section. The 2024 and historical water quality results are tabularized in Appendix D. Laboratory certificates of analysis are attached in Appendix E.

6.1. Site Observations

All well locations were readily accessible, in good condition, and generally available for sampling in 2025.

RDOS staff did not observe signs of stressed vegetation, leachate breakout or ponding water at or near any of the monitoring locations during the 2025 sampling events.

6.2. Water Levels and Inferred Groundwater Flow Direction

RDOS personnel measured groundwater levels in monitoring wells BH-99, MW20-01, MW20-02 and MW24-03 on April 10 and 22, July 21, and October 28, 2025. The water level monitoring results are tabularized in Appendix D.

Measured groundwater depths were consistent with previous years, ranging from 40.77 mbtoc (BH-99 in April 2025) to 54.914 mbtoc (MW24-03 in November 2025). Groundwater levels were generally highest (shallowest) in April, following freshet, and lowest in November, fluctuating anywhere from 1.16 m (MW24-03) to 1.44 m (BH-99) over the 2025 monitoring period.

Allterra Land Surveying measured monitoring well elevations with a vertical accuracy of ± 0.01 m in July 2023 and May 2024 to support groundwater elevation and flow direction assessments near the Site. Throughout 2025, groundwater elevations were highest at BH-99 and lowest at MW20-01 and MW24-03, indicating a southern groundwater flow direction with an estimated hydraulic gradient of 0.004 m/m to 0.005 m/m. Groundwater elevation data from spring, summer, and fall monitoring events showed minimal seasonal variation, suggesting little to no change in the inferred groundwater flow direction and gradient. Figure 2 presents the measured groundwater elevations and inferred flow direction for July 2025.

Groundwater elevations beneath the Site have not yet been determined.

Historical water level fluctuations over time were plotted in Figure 3. Water levels show signs of seasonal fluctuations and long-term shifts in all four monitoring wells. Water levels in BH-99 became increasingly shallow between 2008 and 2020 but have since trended deeper. Water levels in MW20-01, MW20-02, and MW24-03 have been declining since they were installed, with levels generally 2 m deeper by November 2025 than at the start of 2020.

6.3. 2025 Analytical Results Relative to Applicable Standards and Guidelines

RDOS personnel collected groundwater samples on April 10 and 22, July 21 and 22, and October 28, 2025. During each sampling event, personnel collected samples from wells with sufficient groundwater for sampling and submitted them to Caro in Kelowna, BC for chemical analysis of the following parameters:

- Alkalinity;
- Anions (bromide, chloride, fluoride, nitrate, nitrite, ammonia, and sulphate);
- Chemical Oxygen Demand (COD);
- Electrical conductivity and pH;
- Dissolved and Total Metals; and,
- Total coliforms and *E.coli* (domestic and irrigation wells, annually)

In addition, RDOS personnel recorded depth to water, pH, temperature, DO, ORP, conductivity, turbidity, and total dissolved solids (TDS) in the field.

Groundwater chemistry results from 2025 are provided in detail in Appendix D following the text, with exceedances from the triannual sampling events summarized in Table 3 below.

Table 3: Summary of 2025 Water Quality Exceedances		
Sampling Location	Guideline	Exceedances
848 El Rancho Rd.	GCDWQ AO & O	Total dissolved solids [F]
	BCWWQG I	Conductivity [F], Conductivity, Total dissolved solids [F]
	CSR DW	Lithium (dissolved), Lithium (total)
900 Keremeos Bypass Rd.	GCDWQ AO & O	pH [F]
	BCAWQG L	pH [F]
	BCAWQG I	pH [F]
960 Keremeos Bypass Rd.	GCDWQ AO & O	Total dissolved solids [F]
	BCWWQG L	Total dissolved solids [F]
	BCWWQG I	Total dissolved solids [F]
BH-99	GCDWQ AO & O	pH [F], Total dissolved solids [F]
	BCAWQG L	pH [F]
	BCAWQG I	pH [F]
	BCWWQG I	Conductivity [F], Conductivity, Total dissolved solids [F]
MW20-01	GCDWQ AO & O	Total dissolved solids [F]
	BCAWQG I	Selenium (dissolved)
	BCWWQG I	Conductivity [F], Conductivity, Total dissolved solids [F]
	BC SDWQG MAC	Selenium (dissolved)
	CSR DW	Selenium (dissolved)
MW20-02	GCDWQ AO & O	Iron (total), pH [F], Total dissolved solids [F]
	BCAWQG L	pH [F]
	BCAWQG I	pH [F], Selenium (dissolved), Selenium (total)
	BCWWQG I	Conductivity [F], Conductivity, Total dissolved solids [F]
	BC SDWQG MAC	Selenium (dissolved), Selenium (total)
	BC SDWQG AO	Iron (total)
	CSR DW	Selenium (dissolved), Selenium (total)
MW24-03	GCDWQ AO & O	Total dissolved solids [F]
	BCWWQG I	Conductivity [F], Conductivity, Total dissolved solids [F]
	CSR DW	Lithium (dissolved), Lithium (total)

Notes: [F] = Field Result(s)

6.3.1 Background Groundwater Quality

Concentrations of all parameters analyzed by the laboratory were below applicable guidelines and standards in samples collected from background well DW-960 during all three sampling events, except for field-measured TDS during the April 2025 sampling event. Based on our review of the remaining historical data, it appears that a transcription error occurred when recording the TDS concentration (i.e., the concentration was likely 354.2 mg/L instead of 3,542 mg/L).

6.3.2 Downgradient Groundwater Quality

Key landfill-leachate indicator parameters conductivity and TDS exceeded aesthetic guidelines/standards in one or more samples collected from cross- to downgradient wells DW-848, BH-99, MW20-01, MW20-02, and MW24-03. Lithium also exceeded the CSR DW standard in samples collected from DW-848 and MW24-03, while selenium exceeded the CSR DW and BC SDWQG MAC in samples from MW20-01 and MW20-02.

It is important to note, however, that per BC ENV Protocol 9, the background groundwater concentrations for lithium and selenium in the Thompson-Okanagan Region (the nearest ENV region to the Site) are 0.096 mg/L and 0.12 mg/L, respectively. This regional background concentration is over 5 times the lithium concentrations and nearly 10 times the selenium concentrations identified in groundwater at DW-848 and MW24-03, and MW20-01 and MW20-02, respectively. The surficial geology and depositional history of areas used to develop the region's background concentrations are similar to those beneath and near the Site. Furthermore, municipal solid waste types containing lithium are typically food, pharmaceuticals, electronics, and batteries with the latter two being the dominant potential contributors. None of these waste types would be expected at the Site in any appreciable amount, particularly given the absence of any local industry processing electronics or batteries. Given all this, it is likely that elevated lithium and selenium concentrations exceeding BC CSR DW are naturally occurring in the area. However, it is also possible that leachate interactions with the receiving environment may have artificially released and mobilized lithium and selenium from native soils and bedrock into groundwater.

6.4. Water Quality Trend Analysis

Analyses of spatial and temporal trends in landfill leachate indicator parameter concentrations at the Site are discussed in this section.

Landfill leachate indicator parameters are those which are typically present at concentrations above natural, background concentrations in leachate-impacted groundwater. The chemical composition of landfill leachate-impacted groundwater can vary, and largely depends on waste composition, climatic conditions, and the age and degradation rate of the solid waste (Bulc 2006); however, indicator parameters generally

include, but are not limited to, alkalinity, chloride, electrical conductivity, sulphate, sodium, ammonia, iron, manganese, and heavy metals boron, cadmium, chromium, copper, nickel and zinc (Christensen et al., 2001). Furthermore, calcium and hardness are often elevated at the leading edge of a leachate-impacted groundwater plume, a phenomenon sometimes referred to as a hardness halo (Griffen et al., 1976), as a result of ion exchange between calcium and/or magnesium ions bound to sediments and various cations present in the leachate.

Ecoscape plotted time-series graphs of select leachate indicator parameters, displaying changes in concentration over time between 2006 and 2025. These are shown in Figures 3 through 8 as follows:

- Chloride (Figure 4)
 - Chloride concentrations are typically elevated in leachate due to degradation of food waste and paper products; however, chloride also naturally occurs in groundwater and may come from external sources such as road salt, industrial processes, wastewater effluent disposal to ground, and agricultural activity. Chloride is often found at the leading edge of a landfill leachate plume because it is conservative (non-reactive) in the environment and is thus useful in evaluating the plume's extent.
- Electrical Conductivity (Figure 4)
 - Electrical conductivity is useful in monitoring landfill leachate impacts because it is a measure of the total dissolved minerals within groundwater, which are often elevated near landfill sites.
- Total and Dissolved Sodium (Figure 5)
 - Sodium is often the dominant cation in leachate; however, various geochemical processes, including dissolution, precipitation, and cation exchange may affect concentrations during groundwater transport. Like chloride, sodium also naturally occurs in groundwater, and may also come from external sources such as road salt, industrial processes, residential water softener use, and agricultural activity.
- Nitrate (Figure 6)
 - Garden and food waste and biosolids contribute to organic nitrogen within the landfill mass. Over time, waste decomposition can deplete oxygen, resulting in anaerobic conditions favourable for ammonification, during which heterotrophic bacteria convert organic nitrogen to ammonia. When ammonia in groundwater encounters appropriate aerobic conditions, microorganisms oxidize ammonium to nitrate (i.e., nitrification), with nitrite as an intermediary product. Other common anthropogenic sources of nitrate include wastewater disposal to ground, agricultural activities, industrial processes, and mining (blast residuals from explosives).
- Sulphate (Figure 6)

- Sulphate is often generated in landfill leachate during the decomposition of organic matter and soluble waste.
- Total Alkalinity and Dissolved Calcium (Figure 7)
 - Calcium and alkalinity are often elevated at the leading edge of a leachate-impacted groundwater plume, a phenomenon sometimes referred to as a hardness halo (Griffen et al., 1976), as a result of ion exchange between calcium and/or magnesium ions bound to sediments and various cations present in the leachate.
- Dissolved selenium
 - Selenium is not typically a primary contaminant of concern in groundwater downgradient of municipal solid waste landfills, but given recent increasing trends and exceedances observed in MW20-01 and MW20-02, it was included in this trend analysis.

Groundwater quality data from 2009 to 2025, along with descriptive statistics (mean, maximum, minimum, standard deviation, etc.), are tabulated in Appendix D.

Trend observations at each sample location are discussed below.

6.4.1 Background Well - 960 Keremeos Rd. (DW-960)

Domestic well DW-960 is situated hydraulically cross- to upgradient of the Site and is considered representative of background groundwater chemistry in the area. Leachate indicator parameter concentrations have generally remained low and stable since 2006, except for chloride, which has slightly increased over time, similar to trends observed at other locations.

The following trends were observed in samples collected from DW-960 since 2006:

- Chloride – gradually increased from 8.0 mg/L in January 2006 to a historical maximum concentration of 15.3 mg/L in May 2022, concentrations have been stable but variable, fluctuating between 13 to 15 mg/L from 2022 to 2025. Chloride concentrations have been similar to those at 900 Keremeos Rd. since 2006, and lower than those in BH-99, MW20-02, MW24-03, and 848 El Rancho Rd.
- Conductivity - stable and lowest values across all monitoring locations, averaging around 530 $\mu\text{S}/\text{cm}$ since the well was first monitored in 2006. Conductivity ranged from 549 to 556 $\mu\text{S}/\text{cm}$ in 2025.
- Total and Dissolved Sodium - stable and lowest among all monitoring locations, typically around 13 mg/L (dissolved). Dissolved concentrations ranged from 13.2 to 13.3 mg/L in 2025, while total concentrations were measured at 12.5 mg/L in May 2025.
- Nitrate - stable and the lowest concentrations across all monitoring locations, fluctuating between 0.56 mg/L and 0.75 mg/L in 2025.
- Sulphate - stable and lowest concentrations across all monitoring locations, ranging from 65 mg/L to 75 mg/L in 2025.
- Dissolved Calcium – variable, but stable around 75 mg/L except for a spike to 92.5 mg/L in June 2021. Concentrations were lowest across all monitoring locations in 2025, ranging from 75 mg/L to 78 mg/L.
- Total Alkalinity - stable and lowest concentrations across all monitoring locations, generally around 200 mg/L. Concentrations measured in 2025 were slightly below average ranging from 177 mg/L to 199 mg/L.
- Dissolved selenium – stable and low, at approximately 0.002 to 0.003 mg/L since 2006.

6.4.2 MW24-03

Monitoring well MW24-03, located onsite and downgradient of the former landfill, showed the highest concentrations of leachate indicator parameters within the monitoring network in 2025. However, apart from lithium concentrations exceeding the CSR DW standard of 0.008 mg/L, conductivity exceeding the BCAWQG I guideline of 700 $\mu\text{S}/\text{cm}$, and TDS exceeding both the GCDWQ AO and BCAWQG I guidelines of 500 mg/L, parameter concentrations remained below applicable standards and guidelines in 2025.

As this monitoring well has only been sampled since 2024, there is insufficient data to determine whether observed changes reflect emerging long-term trends or are simply the result of seasonal or year-to-year variability. However, some long-term trends may be emerging, as noted below.

The following observations were made for samples collected from MW24-03 in 2025:

- Chloride - elevated above background. Concentrations were the highest across all monitoring locations, hovering around 25 mg/L in 2025, which is relatively low compared to other landfill sites within the RDOS.
- Conductivity – elevated above background. Values were the highest across all monitoring locations, ranging from 1,180 $\mu\text{S}/\text{cm}$ to 1,350 $\mu\text{S}/\text{cm}$ in 2025.
- Total and Dissolved Sodium - elevated above background. Concentrations of dissolved sodium were the highest across all monitoring locations, with an average of 36.5 mg/L in 2025.
- Nitrate - elevated above background. Concentrations were among the highest across all monitoring locations with an average of 5.8 mg/L in 2025. Concentrations appear to be increasing over time.
- Sulphate - elevated above background. Concentrations were the highest across all monitoring locations with an average of 295 mg/L in 2025.
- Dissolved Calcium – elevated above background and variable, but remained well below applicable guidelines (1000 mg/L). Average concentration over the 2025 monitoring period was 132 mg/L.
- Total Alkalinity - elevated above background. Concentrations were the highest across all monitoring locations with an average of 384 mg/L in 2025.
- Dissolved selenium – elevated above background and increasing, reaching a historical maximum of 0.0094 mg/L in October 2025.

6.4.3 848 El Rancho Rd. (DW-848)

Domestic well DW-848, situated near and downgradient of the Site, continued to show the highest offsite concentrations of leachate indicator parameters within the monitoring network. In 2025, all parameter concentrations remained below applicable drinking water standards and guidelines, except for lithium which exceeded the CSR DW standard of 0.008 mg/L, and TDS, which exceeded the GCDWQ AO guideline of 500 mg/L. The following trends were observed in samples collected from DW-848 since 2006:

- Chloride - elevated above background. Concentrations have generally increased from a minimum concentration of 7.2 mg/L in August 2006 to 24 mg/L in October 2025, with an intermittent spike to 33.1 mg/L in November 2018. Concentrations have remained well below the 250 mg/L drinking water standards/guidelines.
- Conductivity – values have been quite elevated compared to remaining monitoring locations, generally fluctuating between 1,000 to 1,200 µS/cm since monitoring first began; however, like chloride, values appear to be increasing in recent years, reaching 1,230 µS/cm in 2025.
- Total and Dissolved Sodium - concentrations have been variable but stable in recent years, and consistently elevated above those measured at most other monitoring locations. Dissolved sodium concentrations ranged from 33 mg/L to 35 mg/L in 2025.
- Nitrate - elevated above all other monitoring locations since 2014, except MW24-03. Concentrations have steadily increased from 1.1 mg/L in 2009 to a historical maximum concentration of 5.92 mg/L in April 2023. Concentrations remained elevated in 2025, ranging from 4.5 mg/L to 5.8 mg/L.
- Sulphate - concentrations have been variable but stable at around 240 mg/L, and generally 100 mg/L higher than those measured at most other monitoring locations. A maximum concentration of 469 mg/L was measured in November 2018, which is slightly below the 500 mg/L drinking water guidelines and standards. Concentrations ranged from 221 mg/L to 262 mg/L in 2025.
- Dissolved Calcium – elevated above background and variable, but stable, remaining well below applicable guidelines. Concentrations have remained around 100 mg/L to 120 mg/L since monitoring began, with minimum and maximum concentrations of 76.5 mg/L (2012) and 176.0 mg/L (2018), respectively. Concentrations in 2025 were consistent with previous years, fluctuating between 104 mg/L and 118 mg/L.
- Total Alkalinity - elevated above background and variable, but stable with minimum and maximum concentrations of 319 mg/L (July 2024) and 504 mg/L (November 2018), respectively. Concentrations ranged from 325 mg/L to 354 mg/L in 2025.
- Dissolved selenium – elevated above background and variable, ranging from 0.004 to 0.007 mg/L in recent years.

6.4.4 MW20-01 and MW20-02

Monitoring wells MW20-01 and MW20-02 were installed in 2020 to better understand potential offsite leachate impacts near the Site boundary. These wells have since shown signs of low-level leachate impacts. Concentrations and trends in both wells have been similar and are therefore discussed in tandem. It is worth noting that selenium concentrations exceeded the CSR DW standard of 0.01 mg/L at both locations in 2025 for the first time since monitoring began.

The following trends were observed in samples from MW20-01 and MW20-02 since 2020:

- Chloride - concentrations were historically near background but have been increasing, reaching approximately 24 mg/L in MW20-02 in 2025.
- Conductivity – generally elevated above background and increasing over time at both locations. Since historical minimum values of 529 µS/cm in April 2020 (MW20-01) and 667 µS/cm in April 2021 (MW20-02), conductivity has been elevated when compared to other monitoring locations apart from domestic well 848 El Rancho Rd and MW24-03. In 2025, conductivity ranged from 775 µS/cm to 953 µS/cm in MW20-01 and from 872 µS/cm to 1,030 µS/cm in MW20-02.
- Dissolved Sodium - concentrations have been elevated compared to all other monitoring locations except for 848 El Rancho Rd and MW24-03, but generally stable between 20 and 30 mg/L. Dissolved sodium concentrations in 2025 ranged from 21 mg/L to 26 mg/L at MW20-01, and 22 mg/L to 25 mg/L at MW20-02.
- Nitrate – elevated above background and generally appears to be increasing at both locations over time. Concentrations increased from 0.885 mg/L (MW20-01) and 0.668 mg/L (MW20-02) in 2020 to historical maximum values of 6.74 mg/L (MW20-01) and 3.46 mg/L (MW20-02) in 2025.
- Sulphate - concentrations have been elevated above background and increasing since 2020, reaching historical maximums of 180 mg/L (MW20-01) and 206 mg/L (MW20-02).
- Dissolved Calcium – elevated above background. Concentrations have been increasing since 2020, and were generally elevated compared to remaining monitoring locations. In 2025, concentrations ranged from 112 mg/L to 136 mg/L at MW20-01, and 121 mg/L to 147 mg/L at MW20-02.
- Total Alkalinity – elevated above background, and variable, fluctuating between 200 mg/L and 350 mg/L since 2020.
- Dissolved selenium – elevated above background and increasing, reaching historical maximums of 0.0109 mg/L (MW20-01) and 0.0105 mg/L (MW20-02).

6.4.5 900 Keremeos Rd. (IW-900)

Irrigation well IW-900 is situated cross- to downgradient of the Site and is typically sampled once or twice a year.

The following trends were observed in samples collected from IW-900:

- Chloride – relatively low, but increasing since 2006. Despite the increasing trend, concentrations throughout the monitoring network have generally remained lowest in samples from IW-900. Concentrations were most recently measured at 13.8 mg/L in July 2025.
- Conductivity – slightly elevated above background, but stable at around 600 $\mu\text{S}/\text{cm}$ and consistently below the BCWWQG irrigation water guideline of 700 $\mu\text{S}/\text{cm}$. Conductivity was measured at 602 $\mu\text{S}/\text{cm}$ in July 2025.
- Total and Dissolved Sodium – slightly elevated above background. Concentrations of dissolved sodium have been relatively stable around 16 mg/L, with a slight increase from 14.6 mg/L in 2019 to 19.1 mg/L in 2021 before decreasing to approximately 16 mg/L to 17 mg/L in 2022 through 2025. Concentrations of total sodium have been slightly more variable but stable, fluctuating between approximately 14 and 20 mg/L since 2010.
- Nitrate – near or slightly elevated above background, but stable around 1 mg/L. Concentrations were slightly below normal in 2024 and 2025, ranging from 0.58 to 0.78 mg/L.
- Sulphate – low and stable concentrations, slightly above background, at around 80 mg/L since monitoring began. Concentrations were measured at 79.9 mg/L in July 2025.
- Dissolved Calcium – slightly elevated above background. Concentrations have been variable but stable, fluctuating between approximately 75 mg/L and 100 mg/L. Dissolved calcium concentrations were 91 mg/L in the July 2025 sample.
- Total Alkalinity - slightly elevated above background. Concentrations were historically variable but stable, generally measured between 200 mg/L and 250 mg/L; however, concentrations may be decreasing in recent years, reaching a historical low of 196 mg/L in July 2025.
- Dissolved selenium – slightly elevated above background, but low and stable, generally fluctuating between 0.002 mg/L and 0.003 mg/L.

6.4.6 BH-99

Monitoring well BH-99 was installed cross- to downgradient of the Site and has shown signs of low-level leachate impacts since monitoring began in 2006.

The following trends were observed in samples collected from BH-99:

- Chloride – near background but generally trending upwards since 2006. Concentrations in 2025 ranged from 14 mg/L to 18 mg/L.
- Conductivity – elevated above background but stable between 700 and 800 $\mu\text{S}/\text{cm}$. Conductivity values fluctuated between 681 $\mu\text{S}/\text{cm}$ and 786 $\mu\text{S}/\text{cm}$ in 2025.
- Dissolved Sodium – elevated above background. Concentrations have been historically variable, but stable, fluctuating between approximately 15 mg/L and 25 mg/L. Concentrations in 2025 ranged from 17 mg/L to 21 mg/L.
- Nitrate - elevated above background. While historically variable, concentrations have stabilized in recent years, generally ranging between 1 mg/L and 2.5 mg/L. In 2025, nitrate increased to 3 mg/L - the highest concentration recorded at this location since 2016 - which may indicate the potential onset of an increasing trend.
- Sulphate – slightly elevated above background, but stable around 95 mg/L to 100 mg/L. Concentrations were slightly higher than normal in 2025, ranging from 88 mg/L to 121 mg/L.
- Dissolved Calcium – elevated above background. Like most parameters, dissolved calcium concentrations have been variable but stable, historically fluctuating between approximately 75 mg/L and 120 mg/L. Concentrations ranged from 96 mg/L to 113 mg/L in 2025.
- Total Alkalinity – elevated above background but stable, historically fluctuating between approximately 250 mg/L and 300 mg/L. Concentrations ranged from 232 mg/L to 283 mg/L in 2025.
- Dissolved selenium – elevated above background, and potentially decreasing, with concentrations generally falling between 0.002 mg/L and 0.004 mg/L in recent years.

7.0 PIPER DIAGRAM

A Piper diagram can be a useful tool for characterizing groundwater chemistry and serves as a visual aid in differentiating between distinct water chemistry signatures and how these compare across monitoring locations. A Piper diagram shows relative percent of anions and cations in two ternary plots, which are then projected onto a central diamond plot. The major ions include Na^+ , Ca^+ , Mg^+ , K^+ , HCO_3^- , CO_3^{2-} , SO_4^{2-} and Cl^- , which account for the vast majority of total dissolved solids present in natural groundwater. The central diamond plot is where monitoring locations can be visually grouped into distinct hydrogeochemical categories commonly referred to as facies. We produced a Piper plot using the average results from the 2023, 2024 and 2025 sampling data and present it in Figure 9.

Samples from all monitored locations plotted as magnesium bicarbonate type, which likely indicates that the wells are completed within the same hydrogeological regime. Both monitoring well DW-848 and MW24-03 plotted slightly higher up the diamond and away from the remaining wells. This may be due to one or more of the following factors:

- Groundwater in DW-848 and MW24-03 may be experiencing anthropogenic impacts not affecting other monitoring locations (e.g., septic effluent, agricultural land use, road salt impacts).
- DW-848 and MW24-03 are likely screened closer to bedrock compared to other well locations and may be influenced by highly mineralized bedrock groundwater.
- Landfill leachate-impacted groundwater is flowing from the former landfill area into the DW-848 and MW24-03 wells.

MW20-02 also plotted further away from the background well than in previous years, possibly indicating the emergence of leachate or other anthropogenic impacts at this location. The remaining wells plotted very close to the background well, which indicates these wells are likely not affected by landfill leachate.

8.0 CONCEPTUAL MODEL AND WATER QUALITY DISCUSSION

The Site and nearby downgradient area are underlain by what is inferred to be the lateral terminus of unconfined sand and gravel Aquifer 259. This aquifer is perched on bedrock and is relatively deep (greater than approximately 40 m below ground surface) in the vicinity of the Site, with a thick sequence of unsaturated granular sediments overlying the water table.

Aquifer 259 is presumably recharged by direct infiltration of precipitation, stream losses, and downgradient flow through higher-elevation bedrock fractures. Based on measured groundwater elevations, groundwater near the Site is expected to primarily flow south-southwest towards MW24-03 and DMW-848, although groundwater chemistry in monitoring wells MW20-01, MW20-02, and BH-99 indicates that seasonal or intermittent flow to the east may also occur. Groundwater flow within deeper aquifers is generally less influenced by local surface topography and more driven by regional topography. In this case, the south-sloping nature of the Keremeos Creek Valley appears to have a stronger influence on groundwater flow than inferred eastward flows from neighbouring bedrock slopes.

High evapotranspiration rates compared to precipitation in the Keremeos area appear to have prohibited surface water infiltration into the underlying waste mass, thus limiting leachate generation beneath the Site. Leachate indicator parameters have been elevated above background in groundwater samples collected from on-site monitoring well MW24-03 and the domestic well at 848 El Rancho Road (DW-848), and to a lesser extent MW20-01, MW20-02, and BH-99. However, concentrations are generally low compared to applicable water quality guidelines and standards.

Concentrations of several parameters have varied over time, potentially reflecting seasonal or inter-annual groundwater fluctuations and precipitation patterns (e.g., wetter versus drier years). Chloride concentrations have gradually increased at all monitoring locations, including the background well, which may indicate broader regional influences rather than a site-specific source. Similarly, conductivity values have shown gradual increases in MW20-01 and MW20-02.

Nitrate concentrations in DW-848 remain elevated and are trending toward the 10 mg/L drinking water guideline. Nitrate concentrations are also increasing in MW24-03, MW20-01, and MW20-02, with recent concentrations exceeding 6 mg/L in MW24-03 and MW20-01. Conductivity is similarly elevated above background and may be increasing at these locations. Selenium exceeded the CSR DW standard for the first time in samples from MW20-01 and MW20-02 in 2025. Overall, these elevated concentrations are likely related to landfill leachate, although additional contributing factors could include a poorly sited, designed, and operated septic system at the 848 El Rancho Drive property, influences

from highly mineralized bedrock groundwater, and/or cumulative agricultural-related impacts.

Samples from DW-848, MW20-01, MW20-02 and M24-03 exceeded the GCDWQ AO of 500 mg/L for TDS and the BWWQG of 700 $\mu\text{S}/\text{cm}$ for conductivity during one or more monitoring event.

Consistent with previous years, multiple sample locations, including DW-848, exceeded the CSR DW standard for lithium, which is often naturally elevated in the BC Interior.

In general, the deep depth to groundwater, natural attenuation processes occurring within the thick unsaturated granular sediments beneath the Site, and evapotranspiration rates that exceed precipitation appear to limit both the generation and downgradient transport of leachate-impacted groundwater. The recent increases in nitrate concentrations are not uncommon at closed landfill sites and may reflect gradual changes in groundwater geochemistry following landfill stabilization. As landfills age and the supply of biodegradable organic matter declines, groundwater conditions can shift from reducing to more oxidizing, under which nitrogen is more likely to occur as nitrate. Nitrate concentrations should therefore continue to be monitored closely in future monitoring events.

9.0 QUALITY ASSURANCE/QUALITY CONTROL

A standardized Quality Assurance/Quality Control (QA/QC) program was implemented to ensure representative samples were collected and that representative analytical data were reported by the laboratory. The following procedures were performed as part of the QA/QC program:

- Calibrated field instruments during each field event;
- Recorded field notes during all stages of the field programs;
- Donned clean, new nitrile gloves at each sampling location;
- Collected samples using dedicated tubing to preclude cross-contamination;
- Cleaned non-dedicated sampling equipment (e.g., electric water level) by washing with an Alconox™ (or equivalent)/potable water mixture before initial use and between uses to minimize the potential for cross-contamination; and,
- Submitted a field blank for laboratory analysis.

A field blank was collected on October 28, 2025. Field blanks are exposed to the same atmosphere and site conditions as the remaining water quality samples, and are used to assess whether contamination may have occurred from atmospheric conditions during field sampling. The sample was analyzed for general parameters, nutrients, and dissolved metals. All analyzed parameters were below their respective laboratory detection limits

in indicating that atmospheric conditions were not expected to affect water quality results.

A triplicate sample was collected from MW24-03 in November 2024. The replicate sample analysis ensured laboratory quality control as well as reproducibility of field sampling procedures.

The reproducibility of field sampling techniques was quantified by a parameter referred to as the relative standard deviation (RSD). RSD is calculated using the following formula:

$$RSD = \frac{s}{x} * 100\%$$

Where: RSD = relative standard deviation

s = standard deviation of triplicate samples

x = mean of triplicate samples

RSD values greater than 20% generally suggest further review is required. However, analytical error generally increases near the method reporting limit (MRL); therefore, the RSD calculation was not applied unless the concentration of samples was greater than 5 times the reported detection limit.

As summarized in Appendix D, RSD values were less than 20% or were not calculable (due to concentrations less than 5 times the detection limit) for the triplicate samples collected from MW24-03, suggesting that the sample and triplicate results are reproducible and reliable.

Samples submitted to CARO are subject to five laboratory QA/QC procedures (i.e., method blanks, laboratory control samples, lab duplicates, surrogate recoveries, and reference materials), which are documented in the laboratory certificates of analysis provided in Appendix E.

10.0 CONCLUSIONS

In accordance with the OC requirements, RDOS personnel conducted groundwater sampling events in the spring, summer, and fall of 2025. The samples were analyzed for parameters intended to illustrate potential groundwater effects from historical permitted landfilling activities. Based on the sampling and analytical program findings, the following conclusions are made:

- Groundwater quality results collected in 2025 indicate that deep depth to groundwater in the local sand and gravel aquifer, presumed natural attenuation processes in thick unsaturated granular sediments beneath the Site, and excess evapotranspiration above precipitation in the Keremeos area appear to be limiting the generation and offsite transport of leachate-impacted groundwater; however, recently increasing nitrate concentrations should be carefully monitored.
- Leachate indicator parameter concentrations have been elevated in samples collected from the on-site monitoring well MW24-03, the domestic well at 848 El Rancho Rd. (DW-848), and to a lesser degree MW20-01, MW20-02 and BH-99 compared to background well DW-960; however, concentrations are generally low when compared to applicable water quality guidelines and standards. Importantly, chloride, which is a conservative ion typically indicative of leachate impacts, remains near background throughout the monitoring network. As such, elevated parameters in wells downgradient of background well DW-960 could be partially attributable to other anthropogenic activities in the area, including residential wastewater dispersal systems and/or agricultural practices.
- Some parameter concentrations were variable over time, possibly associated with seasonal and/or annual (e.g., wet years vs. dry years) groundwater fluctuations and precipitation patterns.
- Nitrate is notably elevated in DW-848, MW24-03, and MW20-01 and is showing an increasing trend in these wells towards the 10 mg/L drinking water guideline/standard. Conductivity has also been quite elevated at these locations compared to remaining monitored locations. Elevated concentrations at this well are likely landfill leachate-related, but may also be attributable to a poorly sited, designed, and operated septic system at the 848 El Rancho Drive property, influences from highly mineralized bedrock groundwater, and/or cumulative agricultural-related impacts.

11.0 RECOMMENDATIONS

Based on the 2025 results and conclusions of the annual monitoring program, we respectfully provide the following recommendations:

- Continue monitoring and sampling the seven (7) existing wells within the monitoring network because leachate indicator parameters remain elevated at some locations downgradient of the landfill. Sampling should occur on a tri-annual basis to evaluate seasonal water quality trends and impacts over time.
- Continue providing water quality results to sampled domestic and irrigation well owners and maintain regular communication with them. Given the potential landfill leachate to affect downgradient groundwater quality, it is recommended that well owners conduct their own sampling throughout the year. Ecoscape can instruct well owners on proper well sampling techniques and provide instructions for sample submission to the laboratory.
- It is also highly recommended that homeowners regularly shock chlorinate their wells (at least once per year) to mitigate bacteriological contamination. Concentrations of all elevated parameters can be reduced to below GCDWQ using in-home water quality treatment systems, and if necessary, a specialist in residential water treatment can be retained to design systems appropriate for each well's water chemistry, noting that well water quality is the well owner's responsibility;
- Approach the owners of the DW-960 and IW-900 wells to assess whether groundwater level measurements can be collected from their wells, as this will allow for a better understanding of groundwater flow patterns in the area; and
- Work with BC ENV to establish appropriate notification measures for potential offsite migration of leachate-impacted groundwater.
- Continue working with the ENV towards Site closure.

12.0 LIMITATIONS

This report has been prepared by Ecoscape Environmental Consultants Ltd. (Ecoscape) for Regional District of Okanagan - Similkameen (the Client) and is intended for the sole and exclusive use of the Client. With the exception of the Client, copying or distribution of this report or use of or reliance on the information contained herein, in whole or in part, is not permitted without the express written permission of Ecoscape.

Nothing in this report is intended to constitute or provide a legal opinion. Revisions to the regulatory standards referred to in this report may be expected over time. As a result, modifications to the findings, conclusions and recommendations in this report may be necessary.

This report has been prepared for specific application to the Site, based on Client requests, and Site conditions present at the time work for the report was completed. The conclusions provided herein are based on the specific areas investigated on the Site by soil and groundwater sampling, and analytical testing of selected soil samples and groundwater samples and cannot be extrapolated extensively away from sample locations. Ecoscape does not warranty information from third-party sources used in this report.

If additional information becomes available that is inconsistent with the information provided herein or suggests that the potential for environmental concern may be present, Ecoscape should be contacted to reassess the conclusions provided in this report.

13.0 CLOSURE

We trust that this report satisfies your present requirements. Should you have any questions or comments, please contact the undersigned at your convenience.

Respectfully Submitted

Ecoscape Environmental Consultants Ltd.,

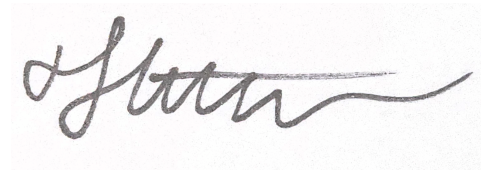
Written by:



2026-03-24

Mike Schutten, M.A.Sc., P.Geo.
Hydrogeologist
Direct Line: 778-940-1964

Reviewed by:



Jacob Whitehouse, B.Sc., R.P.Bio
Environmental Scientist
Direct Line: 778-940-1964

Attachments: Figures

Appendices

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FIGURES

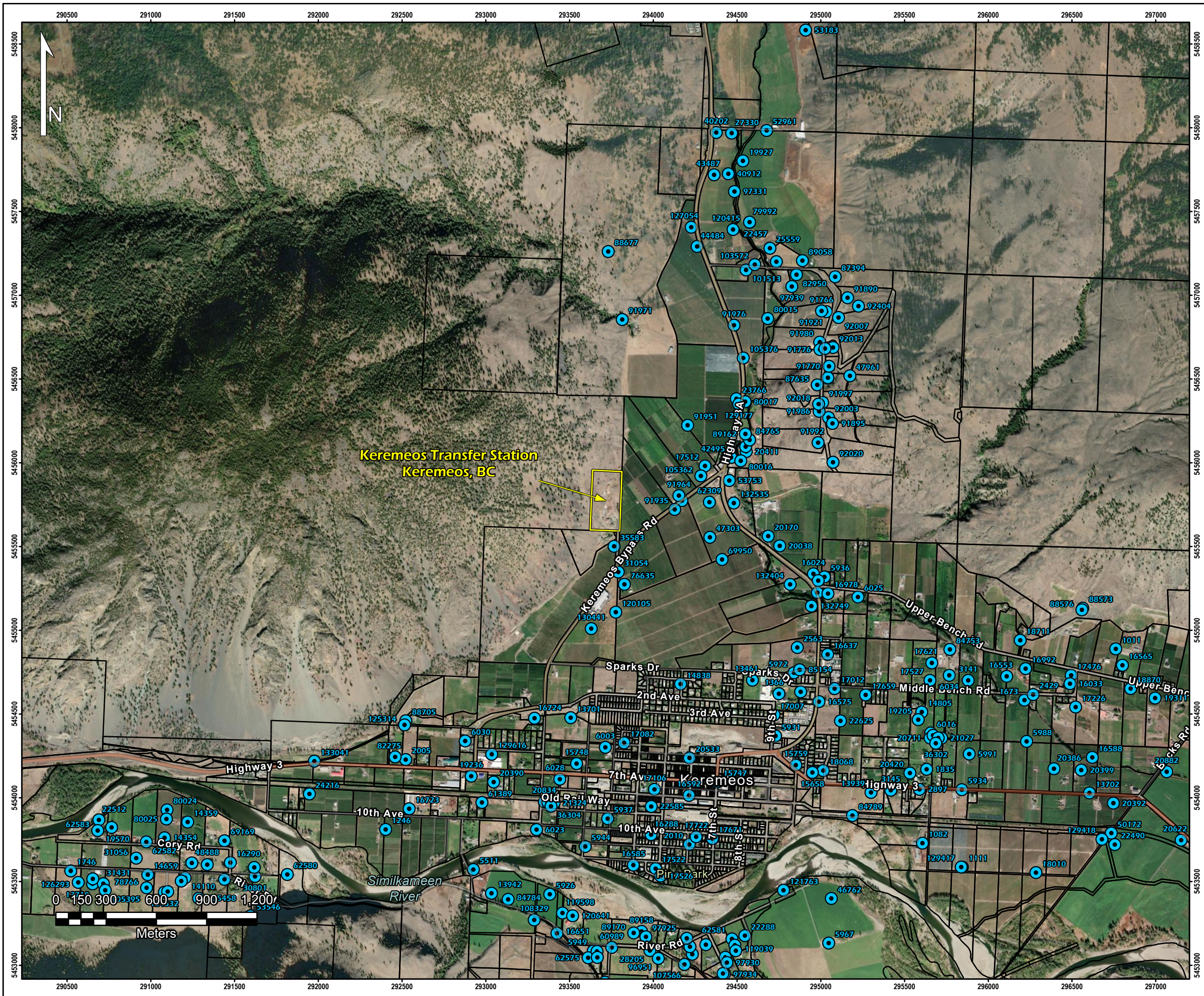


FIGURE 1
Site Location

Project:

Annual Environmental Monitoring Report

Location:

RDOS

Project No.:

22-4504

Prepared for:

RDOS

Prepared by:

Ecoscape Environmental Consultants Ltd.
Mike Schutten, M.A.Sc., P.Geo

Coordinate System:

NAD83-UTM Zone 11

Imagery:

ESRI World Imagery

Map Date:

March 4, 2026

LEGEND

Site

ENV-Mapped Well (WTN)

Cadastre

Regional Location of Site

DISCLAIMER
The data displayed is for conceptual purposes only and should not be interpreted as a legal survey or for legal purposes. If discrepancies are found between the data portrayed in this report and that of a legal survey, the legal survey will supersede any data presented herein.



FIGURE 2
Site Plan and Groundwater Sampling Locations

Project: Annual Environmental Monitoring Report
Location: RDOS
Project No.: 22-4504
Prepared for: RDOS
Prepared by: Ecoscape Environmental Consultants Ltd.
Mike Schutten, M.A.Sc., P.Geo.
Coordinate System: NAD83-UTM Zone 11
Imagery: ESRI World Imagery
Map Date: March 4, 2026

- LEGEND**
- Monitoring Well (GW Elev. July 21, 2025 [masl])
 - Sampled Domestic Well
 - BC Well Database (WTN)
 - Inferred GW Flow Direction (July 21, 2025)
 - Approx. Limit of Waste
 - Approximate Site Boundary
 - Cadastre

DISCLAIMER
The data displayed is for conceptual purposes only and should not be interpreted as a legal survey or for legal purposes. If discrepancies are found between the data portrayed in this report and that of a legal survey, the legal survey will supersede any data presented herein.



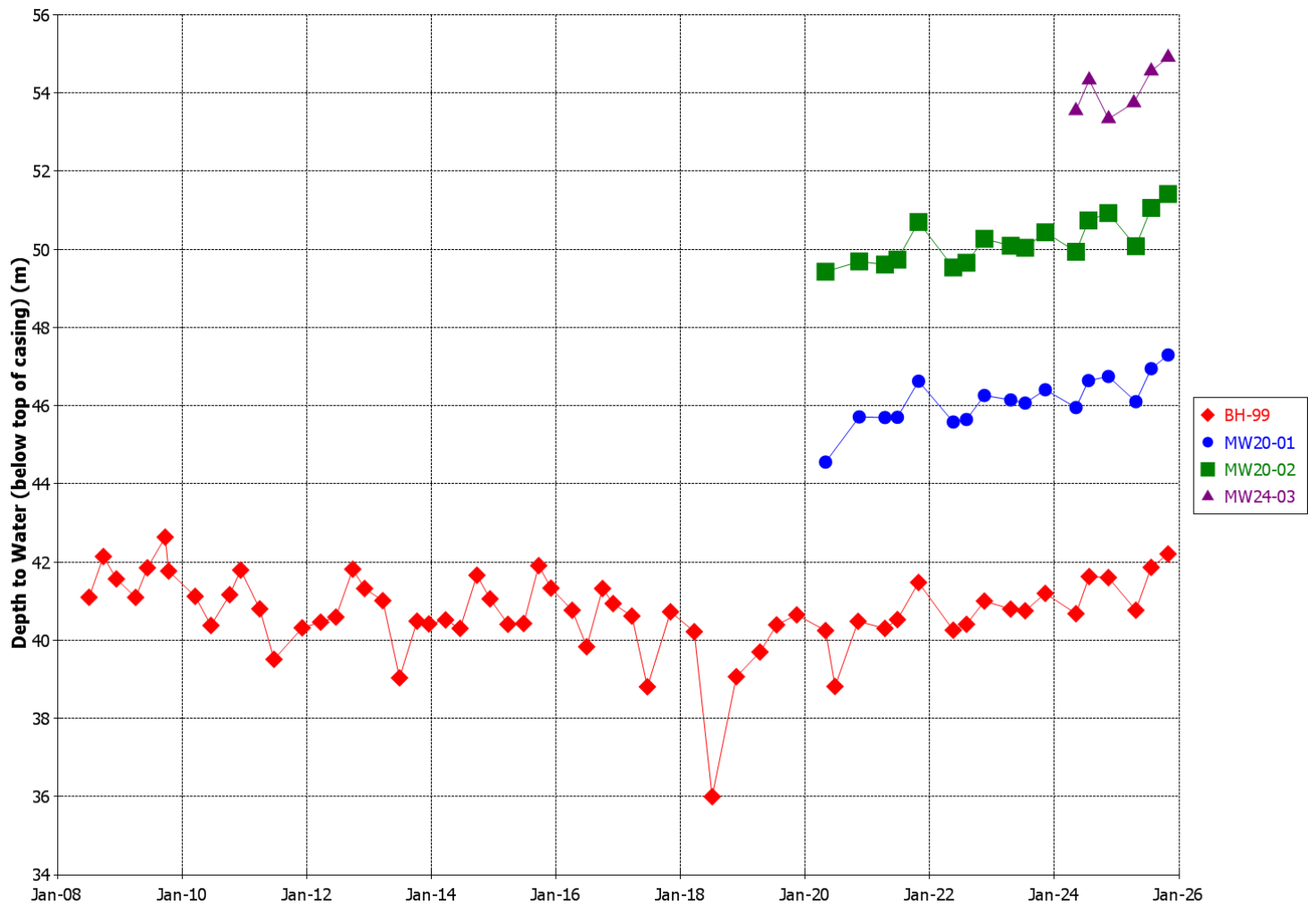


Figure 3: Depth to Water Times Series Plot

Project: 2025 Annual Environmental Monitoring Report

Client: RDOS

Location: Keremeos Transfer Station

File No: 22-4504

Date: January 14, 2026

Dwn by: MPS

Ckd by: MPS

Scale: N/A



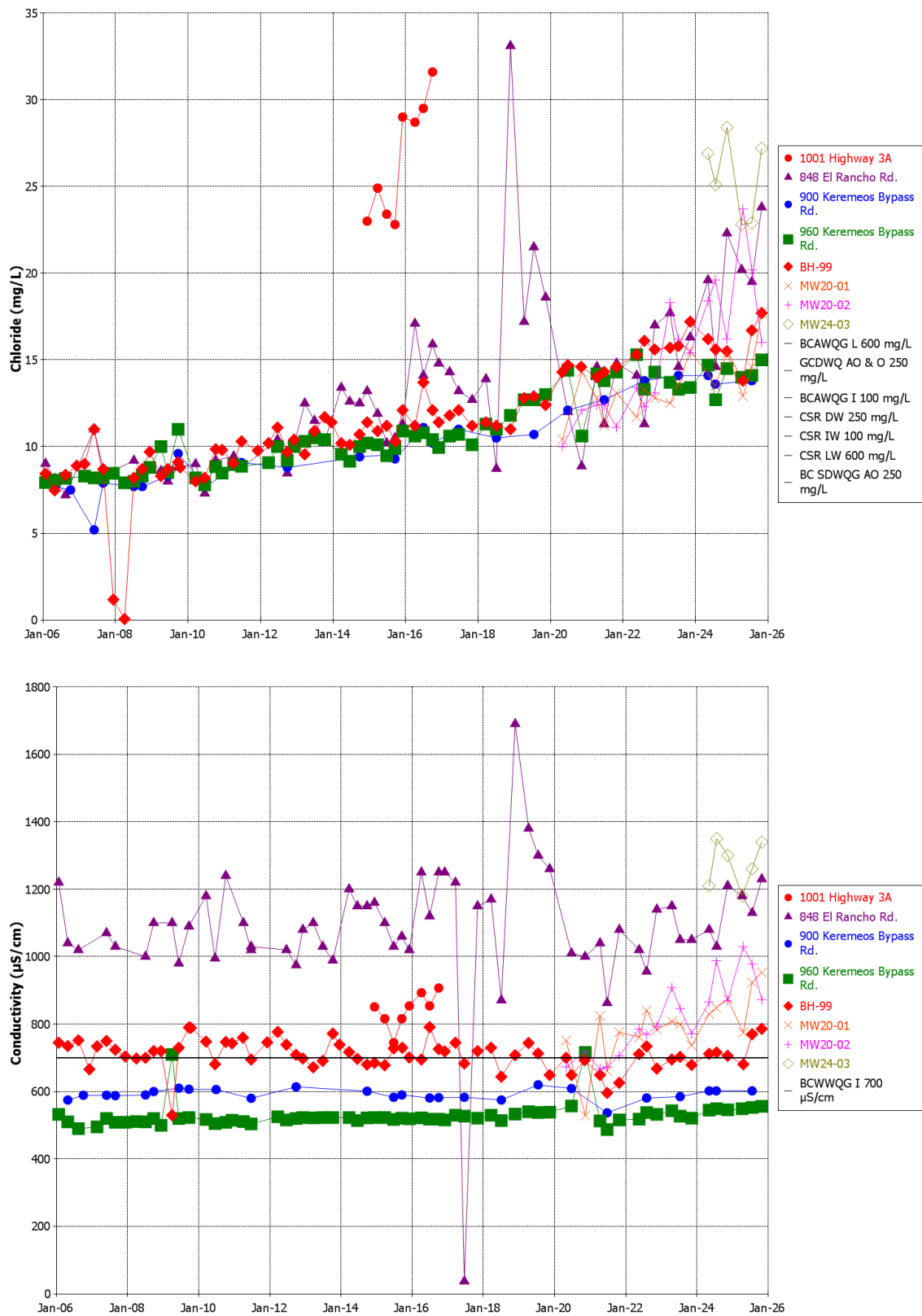


Figure 4: Chloride (Top) and Conductivity (Bottom) in Groundwater Time Series Plot



Project: 2025 Annual Environmental Monitoring Report

Client: RDOS

Location: Keremeos Transfer Station

File No: 22-4504

Date: January 14, 2026

Dwn by: MPS

Ckd by: MPS

Scale: N/A

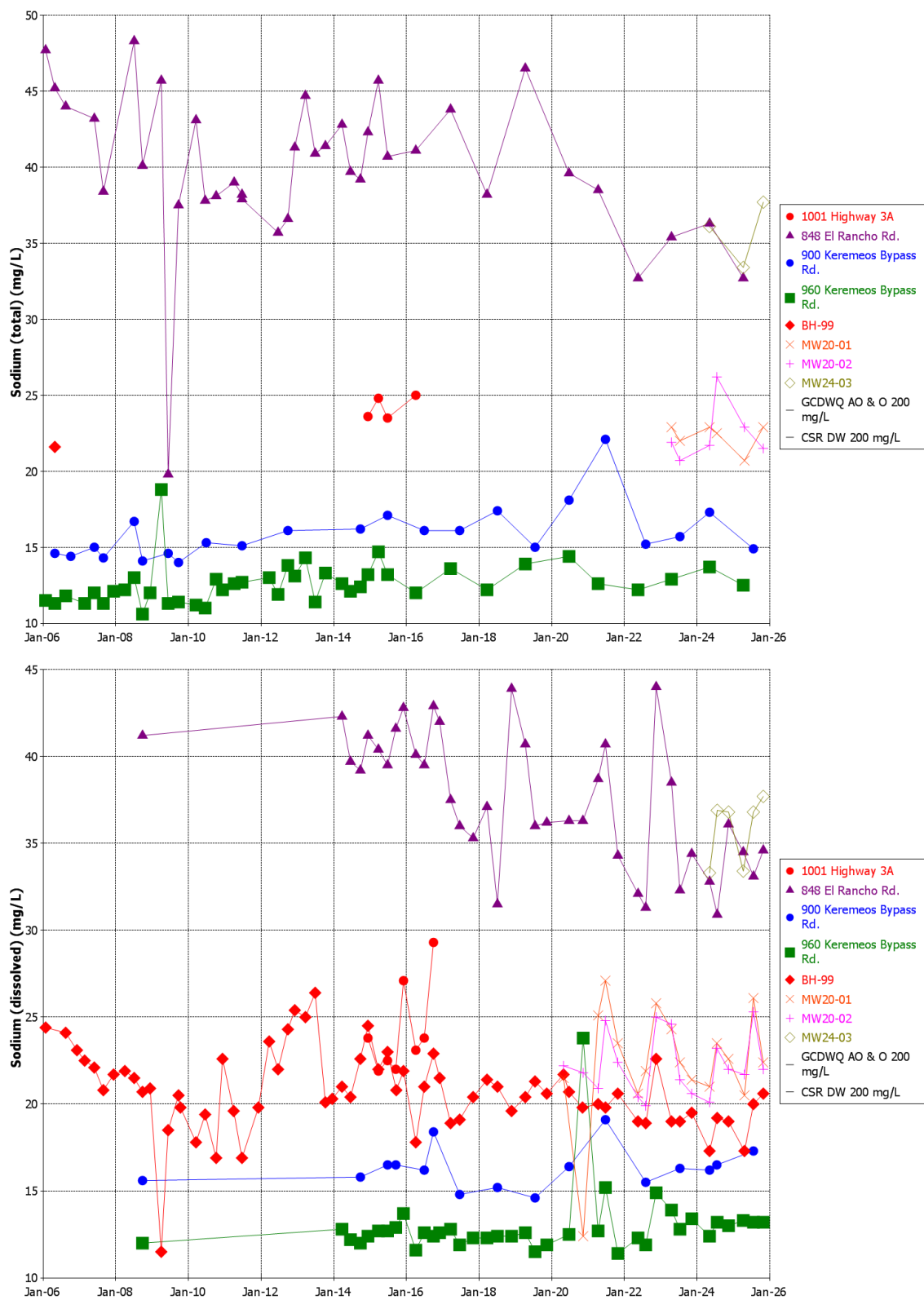


Figure 5: Total (Top) and Dissolved Sodium (Bottom) in Groundwater Time Series Plot

Project: 2025 Annual Environmental Monitoring Report

Client: RDOS

Location: Keremeos Transfer Station

File No: 22-4504

Date: January 14, 2026

Dwn by: MPS

Ckd by: MPS

Scale: N/A



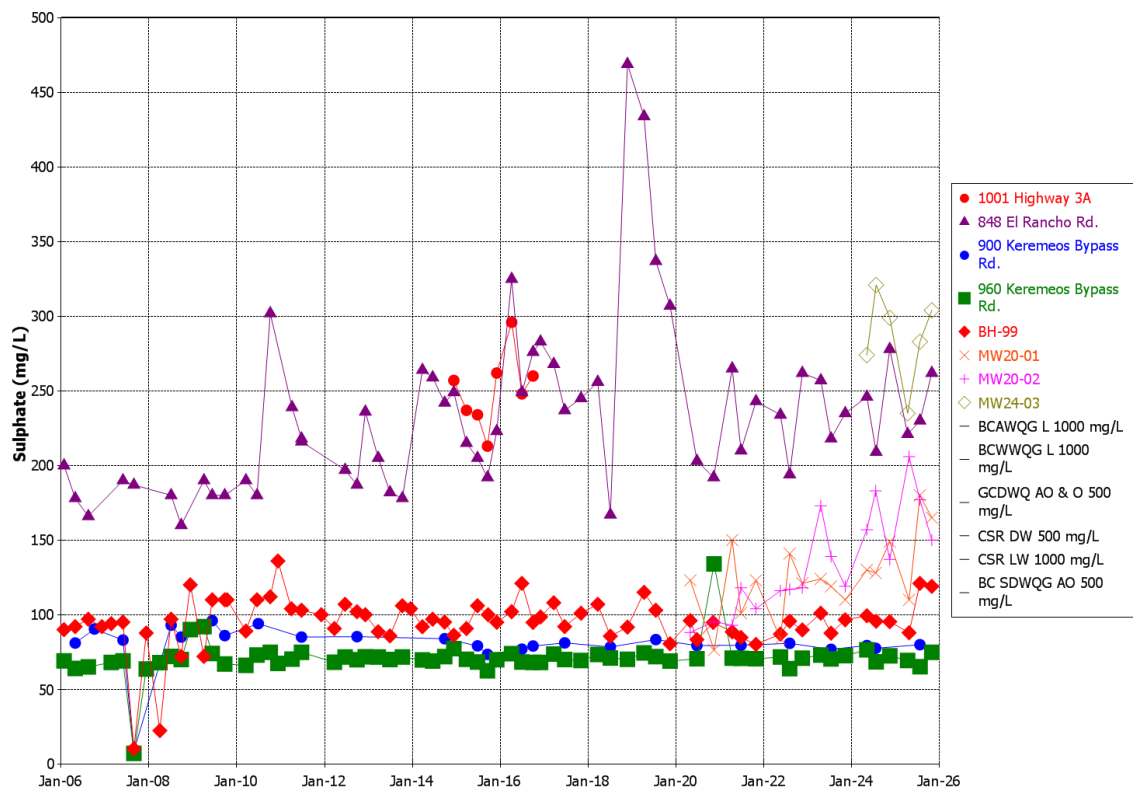
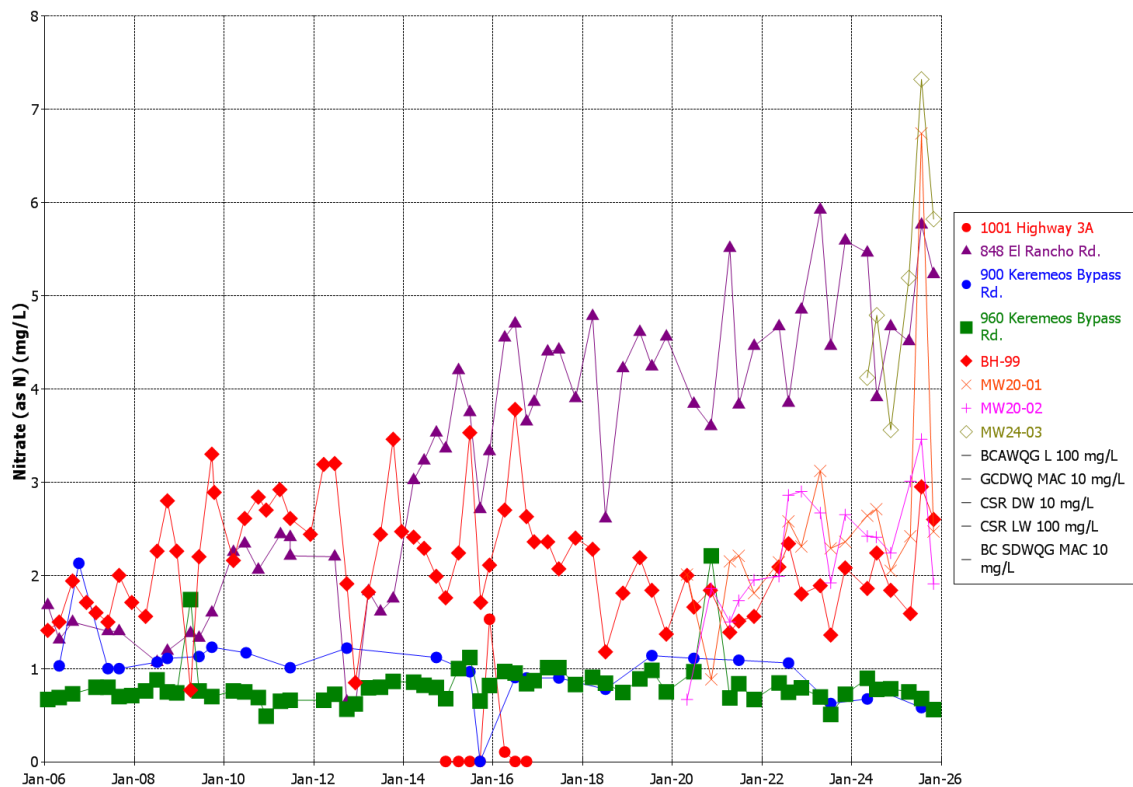


Figure 6: Nitrate (Top) and Sulfate (Bottom) in Groundwater Time Series Plot

Project: 2025 Annual Environmental Monitoring Report

Client: RDOS

Location: Keremeos Transfer Station

File No: 22-4504

Date: January 14, 2026

Dwn by: MPS

Ckd by: MPS

Scale: N/A



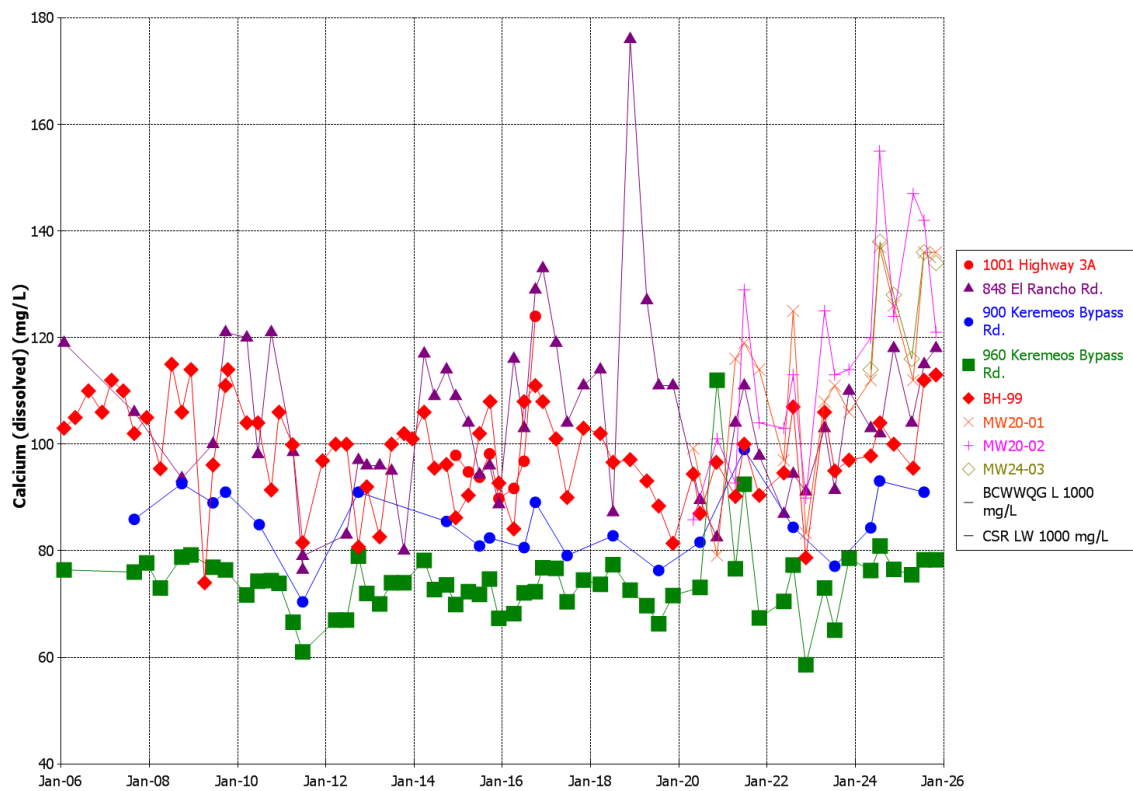
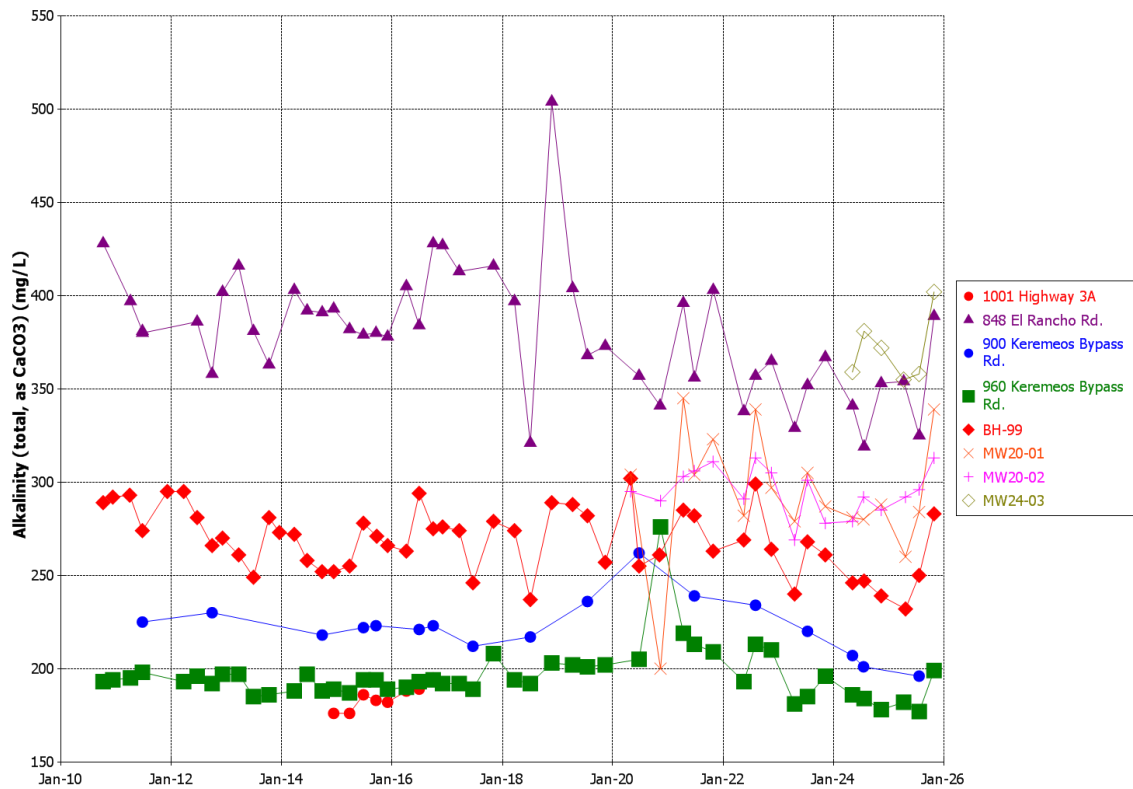


Figure 7: Total Alkalinity (Top) and Calcium (Bottom) in Groundwater Time Series Plot

Project: 2025 Annual Environmental Monitoring Report

Client: RDOS

Location: Keremeos Transfer Station

File No: 22-4504

Date: January 14, 2026

Dwn by: MPS

Ckd by: MPS

Scale: N/A



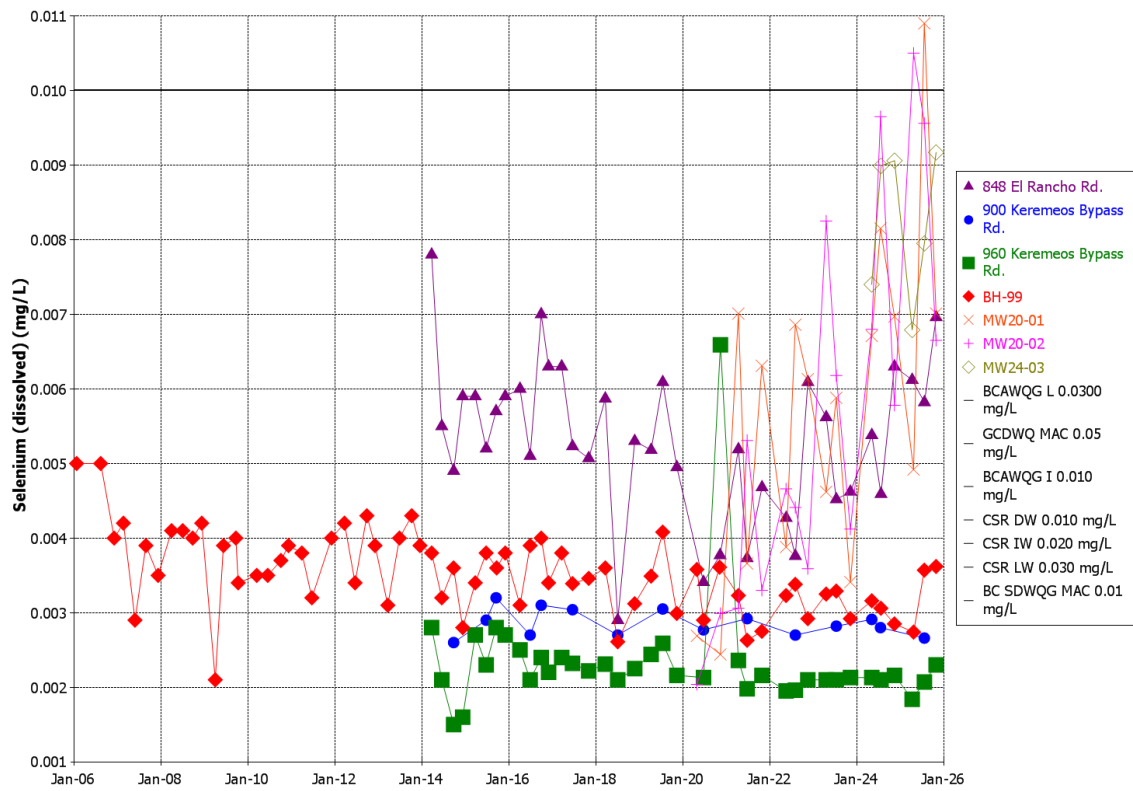


Figure 8: Selenium in Groundwater Time Series Plot

Project: 2025 Annual Environmental Monitoring Report

Client: RDOS

Location: Keremeos Transfer Station

File No: 22-4504

Date: January 14, 2026

Dwn by: MPS

Ckd by: MPS

Scale: N/A



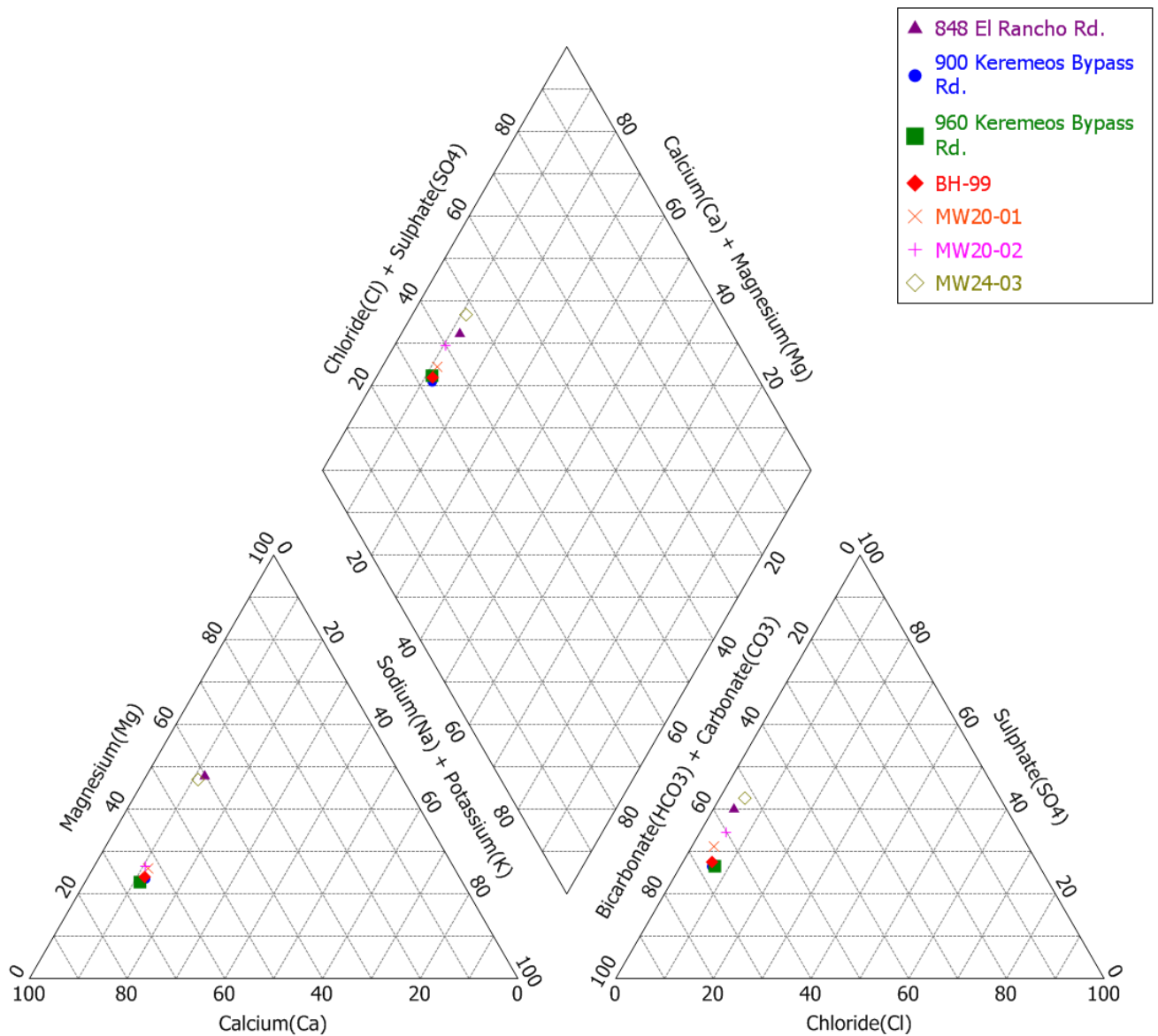


Figure 9: Piper Diagram of Average Water Quality Results from 2023 to 2025



Project: 2025 Annual Environmental Monitoring Report

Client: RDOS

Location: Keremeos Transfer Station

File No: 22-4504

Date: January 14, 2026

Dwn by: MPS

Ckd by: MPS

Scale: N/A

APPENDIX A: General Terms and Conditions

GENERAL CONDITIONS

This report applies and is subject to these "General Conditions".

1.0 Use of Report

This report concerns a specific site and a specific scope of work, and is therefore not applicable to any other sites or any other developments not referred to in the report. Any deviation from the specific site or scope or work would require a supplementary investigation and assessment.

Conclusions and recommendations contained in this report are solely intended for the use of Ecoscape's client. Ecoscape bears no responsibility for the accuracy of information, the analysis of data or recommendations contained or referenced in this report when the report is utilized by or relied upon by any party other than Ecoscape's client, unless otherwise authorized in writing by Ecoscape. Any unauthorized application of this report is at the discretion and sole risk of its user.

This report is subject to copyright, and therefore shall not be reproduced in part or in whole without prior written consent by Ecoscape. Additional copies of this report may be available upon request, if required, and will be supplied after receipt of payment for expenses associated with report production.

2.0 Limitations of Report

This report was derived solely from the conditions that were present on site during Ecoscape's investigation. The client, and any other parties making use of this report with the express written consent of the Ecoscape and the client, are aware that conditions affecting the environmental condition of the site can vary both temporally and spatially, and that the conclusions and recommendations included in this report are temporally sensitive.

The client, and any other parties making use of this report with the express written consent of the Ecoscape and the client, are also aware that conclusions and recommendations included within this report emanate from limited observations and information, and that both on-site and off-site conditions may vary, which in turn could affect the conclusions and recommendations that were made.

The client is aware that Ecoscape is not qualified to, nor is it making any recommendations in terms of purchase, sale, investment or development of the subject property, as such decisions are the sole responsibility of the client.

2.1 Information Provided to Ecoscape by Others

During the extent of the preparation and work carried out in this report, Ecoscape may have relied upon information

provided by parties other than the client. While Ecoscape strives to validate the accuracy of such information when instructed to do so by the client, Ecoscape accepts no responsibility for the validity of such information which may affect the report.

3.0 Limitation of Liability

The client acknowledges that property containing hazardous wastes and contaminants poses a high risk of claims brought by third parties stemming from the presence of those materials. Accounting for these risks, and in consideration of Ecoscape providing the requested services, the client agrees that Ecoscape's liability to the client, with respect to any issues relating to hazardous wastes or contaminants located on the subject property shall be limited to the following:

(1) With respect to any claims brought against Ecoscape by the client arising out of the provision or failure to provide services hereunder shall be limited to the amount of fees paid by the client to Ecoscape under this Agreement, whether the action is based on breach of contract or tort;

(2) With respect to claims brought by third parties arising out of the presence of contaminants or hazardous wastes on the subject property, the client agrees to indemnify, defend and hold harmless Ecoscape from and against any and all claim or claims, action or actions, demands, damages, penalties, fines, losses, costs and expenses of every nature and kind whatsoever, including solicitor-client costs, arising or alleged to arise either in whole or part out of services provided by Ecoscape, whether the claim be brought against Ecoscape for breach of contract or tort.

4.0 Disclosure of Information by Client

The client agrees to fully cooperate with Ecoscape with respect to the provision of all available information on the past, current, or proposed conditions on the site, including historical information respecting the use of the site. The client acknowledges that in order for Ecoscape to properly provide the service, Ecoscape is relying on full disclosure and accuracy of any such information. Ecoscape does not accept any responsibility for conclusions drawn from erroneous, invalid, or inaccurate data provided to us by another party and used in the preparation of this report.

5.0 Standard of Care

Services performed by Ecoscape for this report have been completed in a manner consistent with the level of skill ordinarily exercised by members of the profession currently practicing under similar conditions in the jurisdiction in which the services are provided. Professional judgement has been applied in developing the conclusions and/or recommendations made in this report. No warranty or guarantee, express or implied, is made concerning the

results, comments, recommendations, or any other portion of this report.

6.0 Notification of Authorities

The client acknowledges that in certain instances the discovery of hazardous materials, contaminants or conditions and materials may require that regulatory agencies and other parties be informed and the client agrees that notification to such parties or persons as required may be done by Ecoscape in its reasonably exercised discretion. Further, Ecoscape reserves the right to notify Provincial agencies when rare or endangered flora or fauna are observed, whether the species classifications are identified as such at the local, Provincial, or Federal levels of government.

7.0 Ownership of Instruments of Professional Service

The client acknowledges that all reports, plans, and data generated by Ecoscape during the performance of the work and other documents prepared by Ecoscape are considered its professional work product and shall remain the copyright property of Ecoscape.

8.0 Interpretation of the Report

8.1 Soil Description

Soils, rocks and geological units have been identified and logged using commonly accepted methods in professional geoscience practice; however, soil, rock and geological unit classification and identification are subject to the observers' and Report author's judgement. As such, Ecoscape does not warrant or guarantee the exactness of the insitu subsurface conditions described in this Report.

8.2 Test Pit and Borehole Logs

Test pit and borehole logs are an interpretive record of field observations and in some cases laboratory testing of select samples. It is not uncommon for sample recovery to be incomplete, even when using normal sampling procedures. Soil, rock and geological units described on the logs are based on interpretation of available data, and may therefore vary from actual insitu subsurface conditions.

8.3 Geological Cross-sections

Geological cross-sections were constructed based on information provided in test pit and borehole logs, topographic information, and information available online. Stratigraphy between logged locations were inferred based on hydrogeological and geological principles; however, actual geology and stratigraphy may vary from that drawn on our cross-sections.

8.4 Hydrogeological Conditions

Groundwater conditions described in the report and shown on borehole and test pit logs are a record of observed

conditions at the time of their measurement. Groundwater conditions may vary between tested locations, and are affected by natural seasonal fluctuations. Groundwater conditions can also be affected by anthropogenic activities.

9.0 Alternate Report Format

Where Ecoscape submits both an electronic file and hard copy versions of reports, drawings and other project-related documents and deliverables (collectively termed Ecoscape's instruments of professional service), the client agrees that only the signed and sealed hard copy versions shall be considered final and legally binding. The hard copy versions submitted by Ecoscape shall be the original documents for record and working purposes, and, in the event of a dispute or discrepancies, the hard copy versions shall govern over the electronic versions. Furthermore, the client agrees and waives all future right to dispute that the original hard copy signed version archived by Ecoscape shall be deemed to be the overall original for the Project.

The client agrees that both electronic file and hard copy versions of Ecoscape's instruments of professional service shall not, under any circumstances, no matter who owns or uses them, be altered by any party other than Ecoscape. The client warrants that Ecoscape's instruments of professional service will be used only and exactly as submitted by Ecoscape.

The client recognizes and agrees that electronic files submitted by Ecoscape have been prepared and submitted using specific software and hardware systems. Ecoscape makes no representation about the compatibility of these files with the client's current or future software and hardware systems.

APPENDIX B: Operational Certificate



January 8, 2015

Tracking Number: 93
Authorization Number: 15278

REGISTERED MAIL

Regional District Okanagan Similkameen
101 Martin Street
Penticton, BC V2A 5J9

Re: Operational Certificate 15278 – Keremeos Landfill (closed)

Enclosed is Operational Certificate 15278 issued under the provisions of the *Environmental Management Act*. This Operational Certificate supercedes Permit PR-03291 which is cancelled in accordance with Section 24(10) of the *Environmental Management Act*. Your attention is respectfully directed to the terms and conditions outlined in the operational certificate. An annual fee will be determined according to the Permit Fees Regulation.

This operational certificate does not authorize entry upon, crossing over, or use for any purpose of private or Crown lands or works, unless and except as authorized by the owner of such lands or works. The responsibility for obtaining such authority rests with the operational certificate holder. It is also the responsibility of the Regional District of Okanagan Similkameen to ensure that all activities conducted under this authorization are carried out with regard to the rights of third parties, and comply with other applicable legislation that may be in force.

This decision may be appealed to the Environmental Appeal Board in accordance with Part 8 of the *Environmental Management Act*. An appeal must be delivered within 30 days from the date that notice of this decision is given. For further information, please contact the Environmental Appeal Board at (250) 387-3464.

.../2

Administration of this operational certificate will be carried out by staff from the Southern Interior Region - Okanagan. Plans, data and reports pertinent to the operational certificate are to be submitted to the Director, Environmental Protection, at Ministry of Environment, Regional Operations, Southern Interior Region - Okanagan, 102 Industrial Pl., Penticton, BC V2A 7C8.

Yours truly,

A handwritten signature in black ink, appearing to read 'Carol Danyluk', with a stylized, cursive script.

Carol Danyluk, P.Eng.
for Director, *Environmental Management Act*
Southern Interior Region - Okanagan

Enclosure

cc: Environment Canada



MINISTRY OF
ENVIRONMENT

OPERATIONAL CERTIFICATE

15278

Under the Provisions of the *Environmental Management Act*

REGIONAL DISTRICT OKANAGAN SIMILKAMEEN

**101 MARTIN STREET
PENTICTON, BC V2A 5J9**

is authorized to manage municipal solid waste and recyclable material from the Regional District of Okanagan Similkameen and environs and to manage a closed landfill at the Keremeos closed landfill located near Keremeos, British Columbia, subject to the conditions listed below. Contravention of any of these conditions is a violation of the *Environmental Management Act* and may result in prosecution.

Definitions:

"Director" means the Director or a person delegated to act on behalf of the Director, as defined in the *Environmental Management Act*.

1. AUTHORIZED DISCHARGES

1.1 Authorized Source

This section applies to the discharge of refuse from a closed landfill located near Keremeos. The site reference number for this discharge is E212366.

- 1.1.1 This is a closed landfill, hence no waste is to be deposited at this landfill. It is acknowledged that a portion of the closed landfill is being used as a transfer station, for the temporary storage and sorting of municipal solid waste and shipping of the waste to authorized disposal and recycling facilities. There is no discharge to the environment from this transfer station. As a result of the temporary storage of this municipal waste, there should be no discharge of contaminants to the environment.

Date issued: January 8, 2015

Carol Danyluk, P.Eng.
for Director, *Environmental Management Act*
Southern Interior Region - Okanagan

- 1.1.2 The authorized works are a closed landfill and related appurtenances approximately located as shown on the location map.
- 1.1.3 The location of the approximate area of discharge is District Lot 2821, Similkameen Division Yale District, Portion NE Corner, Refuse Disposal Site License No. 338138, Similkameen Division Yale District.

2. **GENERAL REQUIREMENTS**

2.1 **Emergency Procedures**

The Regional District of Okanagan Similkameen (Regional District) must inspect the authorized works regularly and maintain them in good working order. In the event of an emergency or condition beyond the control of the Regional District which prevents effective operation of the authorized works or leads to unauthorized discharge, the Regional District must comply with all applicable statutory requirements, immediately notify the Director, Environmental Protection, and take appropriate remedial action for the prevention or mitigation of pollution. The Director may reduce or suspend operations to protect the environment until the authorized works have been restored and/or corrective steps have been taken to prevent unauthorized discharges.

2.2 **Closure Plan**

- 2.2.1 The Regional District must submit a Closure Plan prepared by a suitably qualified professional for approval of the Director by June 1, 2017.
- 2.2.2 The Closure Plan must meet or surpass the requirements for a closed sanitary landfill as described in the BC Landfill Criteria for Municipal Solid Waste unless otherwise approved by the Director in writing. As a minimum, the updated plan must address the following topics to the satisfaction of the Director:
- Anticipated total waste volumes and tonnage, and life of the landfill (ie: closure date);
 - A topographic plan showing the final elevation contours of the landfill and surface water diversion and drainage controls;
 - Design of the final cover including the thickness and permeability of barrier layers and drainage layers, and information on topsoil, vegetative cover and erosion prevention controls;

Date issued: January 8, 2015



Carol Danyluk, P.Eng.
for Director, *Environmental Management Act*
Southern Interior Region - Okanagan

- Procedures for notifying the public about the closure and about alternative waste disposal facilities;
- Rodent and nuisance wildlife control procedures;
- Proposed end use of the property after closure;
- A determination of the contaminating lifespan of the landfill based on most recent environmental monitoring information and modeling techniques. The contaminating lifespan means the period of time during which the landfilled waste has the potential to produce environmental contamination such as leachate and/or landfill gas, and shall be a minimum of 25 years following installation of the final cover;
- A plan and implementation schedule for monitoring groundwater, surface water and landfill gas (if required), erosion and settlement for the contaminating lifespan of the landfill;
- If required, a plan and accompanying design and implementation schedule for the collection, storage and treatment/use of landfill gas for the contaminating lifespan of the landfill;
- A plan and implementation schedule for operation of any required pollution abatement engineering works such as leachate collection and treatment systems, for the contaminating lifespan of the landfill;
- An estimated cost, updated annually, to carry out closure and post closure activities for the contaminating lifespan of the landfill;
- A screening plan, ie: vegetative or berm; and
- Any other site specific concerns as identified by the Director.

2.2.3 The closure works, as outlined in the approved **Closure Plan**, must be completed by June 30, 2019. A certification by a Professional Engineer attesting that all closure works have been completed in accordance with the Closure Plan is to be submitted to the Director by no later than August 31, 2019.

2.2.4 Written authorization from the Director must be obtained prior to implementing any changes to the approved plan. Based on any information obtained in connection with this facility, the Director may require revision of, or addition to, the closure plan. Acknowledgement of the **Closure Plan** is for the purpose of administration of the Operation Certificate and only implies that the works specified therein would meet the appropriate guidelines, criteria or standards.

2.2.5 The closed landfill is to be managed in accordance with the approved **Closure Plan**.

Date issued: January 8, 2015



Carol Danyluk, P.Eng.
for Director, *Environmental Management Act*
Southern Interior Region - Okanagan

- 2.2.6 Should there be an inconsistency between this Operational Certificate and the **Closure Plan**; the Operational Certificate must take precedence.

2.3 **Qualified Professionals**

- 2.3.1 All information, including plans, drawings, assessments, investigations, surveys, programs and reports, must be certified by a qualified professional. As-built plans and drawings of the facilities and works must be certified by a qualified professional.
- 2.3.2 Personnel must be trained to industry standards and at least one employee of the Regional District must be trained and certified as a Manager of Landfill Operations or a British Columbia Qualified Landfill Operator by the Solid Waste Association of North America or equivalent.

2.4 **Groundwater Quality Monitoring Program**

- 2.4.1 The closed landfill must be managed such that both groundwater and surface water quality at or beyond the landfill property boundary meets the latest British Columbia Water Quality Guidelines (Criteria) and A Compendium of Working Water Quality Guidelines for British Columbia: the latest edition.
- 2.4.2 If results of groundwater or surface monitoring indicate any exceedance of the above-noted water quality criteria, the Director may require additional leachate management measures including improvement/modification of the works.

2.5 **Landfill Gas Management**

Landfill gas at this closed landfill must be managed in accordance with the Landfill Gas Management Regulation (391/2008).

2.6 **Quality Assurance**

The Regional District is required to follow the terms and conditions of the Environmental Data Quality Assurance Regulation, for any environmental monitoring and sampling included in the approved Closure Plan.

Date issued: January 8, 2015



Carol Danyluk, P.Eng.
for Director, *Environmental Management Act*
Southern Interior Region - Okanagan

2.7 **Litter Control**

Litter is to be controlled by maintaining cover and instituting a regular site surveillance program and access control to prevent unauthorized access.

2.8 **Surface Water Diversion**

Surface water diversion works must be constructed and maintained to prevent surface water from entering or leaving closed areas of the landfill. Water that has contacted the refuse must not be discharged to the environment without approval of the Director.

2.9 **Management of Salvage, Recyclable and Compostable Materials**

For the transfer station, areas may be set aside at the closed landfill site for the collection and storage of recyclable materials, and for on-site composting of selected materials. These facilities must be designed and operated in a manner acceptable to the Director to prevent the discharge of leachate and control vectors, and minimize nuisance conditions such as odours.

3.0 **Receipt of Hydrocarbon Contaminated Soil for Closure Purposes**

The deposit of hydrocarbon contaminated soils below the Hazardous Waste Regulation criteria is authorized at this landfill subject to the following conditions:

- The permittee is authorized to receive petroleum hydrocarbon contaminated soil at this landfill.
- In accordance with the Hazardous Waste Regulation, the permittee is not authorized to receive soils which are classified as “hazardous waste”, with the exception of those soils less than the standards specified in section 41.1 of the Hazardous Waste Regulation.
- The permittee must bio-remediate and/or otherwise treat the soil until such time as the soil meets the Contaminated Sites Regulation “Urban Park (PL)” standards as set out in “Column III” of Schedules 4 and 5; or, if after treating to the maximum practical extent and subject to approval from the Director, the permittee may blend the soil, provided that risks to human health and the environment have been identified and mitigated, in accordance with a Risk Assessment and Risk Management Plan

Date issued: January 8, 2015



Carol Danyluk, P.Eng.
for Director, *Environmental Management Act*
Southern Interior Region - Okanagan

prepared, reviewed and approved by a suitably qualified professional. The permittee shall submit this Risk Assessment and Risk Management Plan to the Director prior to blending.

- The permittee shall submit to the Director an Operations Report detailing the bio-remediation and/or other treatment method including the use of liners to contain run-off, how off gases will be mitigated to protect human health and the environment; and proposed quality assurance and sampling plan to meet the Urban Park soil standard. This operations report shall be prepared, reviewed and approved by a suitably qualified professional. The permittee shall submit this Operations Report to the Director for approval, prior to commencement of treatment.
- The permittee may use the treated soil for final cover to close this landfill. A plan for final cover, including risk mitigation, shall be prepared by a suitably qualified professional, and submitted to the Director for approval, prior to undertaking closure.

3. **MONITORING AND REPORTING REQUIREMENTS**

3.1 **Inspection and Maintenance**

The closed landfill and related appurtenances must be inspected annually and maintained in accordance with the approved ***Closure Plan***.

3.2 **Vegetation Monitoring**

Inspect vegetation during the growing season in the vicinity of the landfill at least once per year to determine if any adverse environmental impacts are occurring and take appropriate remedial actions.

3.3 **Changes to Sampling and Monitoring Program**

The Director may change the monitoring program if he/she believes it is necessary for the protection of the receiving environment. The changes may include additional monitoring and/or sampling of environmental media and the preparation and submission of related reports.

Date issued: January 8, 2015



Carol Danyluk, P.Eng.
for Director, *Environmental Management Act*
Southern Interior Region - Okanagan

3.4 **Format of Submission**

Monitoring and/or reporting information must be submitted in an electronic format that is suitable for review by the public and/or other government agencies and is satisfactory to the Director.

3.5 **Annual Report**

An annual operations and monitoring report is to be submitted to the Director by April 30th of each year. The report must include, but not limited to, the following information:

- Inspection and maintenance records;
- Monitoring data compilation, interpretation and trend analysis prepared by a Qualified Professional regarding landfill gas, vegetation, leachate and water quality;
- Water quality monitoring report is also to include a review of groundwater elevations, flow direction and a comparison of tested parameters with the latest British Columbia Water Quality Guidelines (Criteria) and A Compendium of Working Water Quality guidelines for British Columbia: the latest Edition;
- Amounts of leachate collected, treated and disposed, if applicable;
- Any changes in the authorized/closure works, plans and specifications;
- Amount of landfill gas collected and its disposition, if applicable;
- Review of the closure plan and associated estimated costs, including an update of the schedule of reserve funds or security to be collected to cover cost of closure and maintenance of the closed site and any required works for the duration of the contaminating lifespan of the landfill and a contingency for remediation;
- Monitoring data must be submitted in an electronic format satisfactory to the Director. All monitoring data must be entered into the Environmental Monitoring System (EMS) electronically within sixty days of the end of a calendar year for the year's monitoring. Electronic Data Transfer information is available at: http://www.env.gov.bc.ca/epd/ems_edt.html and further information is available at: http://www.env.gov.bc.ca/air/wamr/labsys/ems_wr/index.html; and
- Any other data relevant to this Operational Certificate.

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Southern Interior Region - Okanagan

3.7 **Buildings and Structures**

The construction of buildings and other structures on landfills containing putrescible wastes is not recommended for a minimum period of 25 years after closure due to concerns about combustible gas and excessive settlement. Such activity will only be considered and /or authorized after an investigation and report by qualified persons. The report is to be submitted for authorization to the Director prior to initiating construction activities.

3.8 **Operation of Gas Recovery and Management System**

Where landfill gas recovery and management is required, operation of the system should be considered an integral part of overall landfill management. The system should be planned for from the early design stage of the landfill and arrangements made for its operation for the duration of the contaminating lifespan of the landfill after closure.

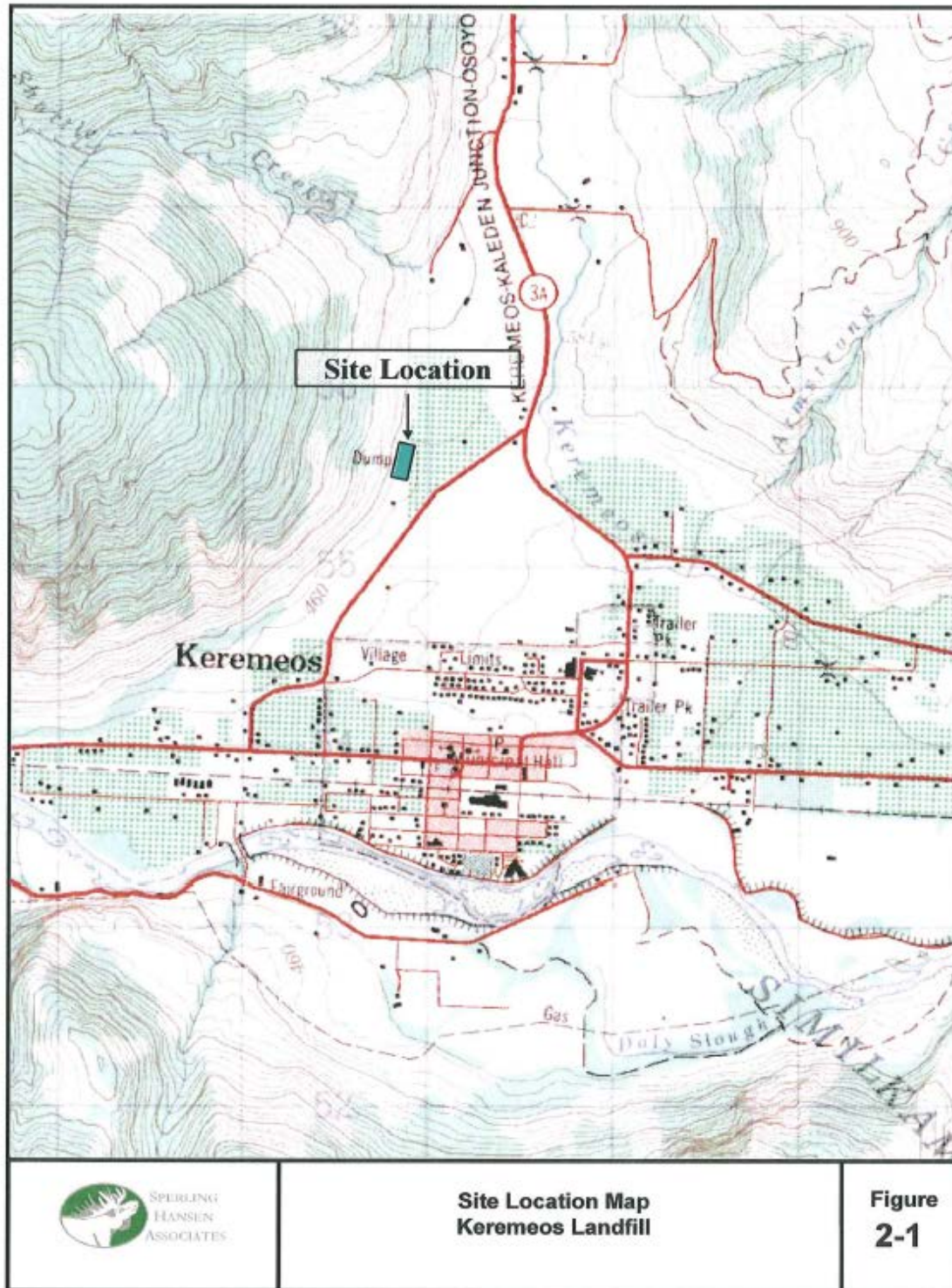
3.9 **Operation of Other Control Systems**

Operation of other environmental control systems for leachate and run-off as well as monitoring of leachate, groundwater and surface water must be continued during the entire post closure period (contaminating lifespan) unless the early suspension of such operations or monitoring is authorized by the Director.

Date issued: January 8, 2015



Carol Danyluk, P.Eng.
for Director, *Environmental Management Act*
Southern Interior Region - Okanagan



Date issued: January 8, 2015

Carol Danyluk, P.Eng.
for Director, *Environmental Management Act*
Southern Interior Region - Okanagan



February 12, 2020

Authorization Number: 15278

VIA EMAIL: sfenske@rdos.bc.ca

Shane Fenske

Engineering Technologist
Regional District of Okanagan Similkameen
101 Martin Street, Penticton, BC V2A 5J9

Dear Mr. Shane Fenske:

**Re: *Environmental Management Act* amendment of Operational Certificate (OC) 15278 -
Regional District Of Okanagan Similkamnen (RDOS) Keremeos Landfill**

Pursuant to Section 28(3) of the Environmental Management Act and further to your application dated April 10, 2019, clause 2.2.3 of Operational Certificate (OC) 15278 is hereby amended to state as follows:

The closure works, as outlined in the approved Closure Plan, must be completed no later than June 30, 2022. A certification by a Professional Engineer attesting that all closure works have been completed in accordance with the Closure Plan must be submitted to the Director no later than August 31, 2022.

This amendment is by letter and a complete revised authorization document is not being issued at this time. Please attach this letter to the existing OC document. This amendment will be incorporated into the main body of the OC 15278 during the next amendment.

Your attention is respectfully directed to the conditions of the OC. All other terms and conditions of the OC remain in full force.

This decision may be appealed to the Environmental Appeal Board in accordance with Part 8 of the *Environmental Management Act*. An appeal must be delivered within 30 days from the date that notice of this decision is given. For further information, please contact the Environmental Appeal Board at (250) 387-3464.

Please advise if you have questions regarding the above conditions.

Yours truly,

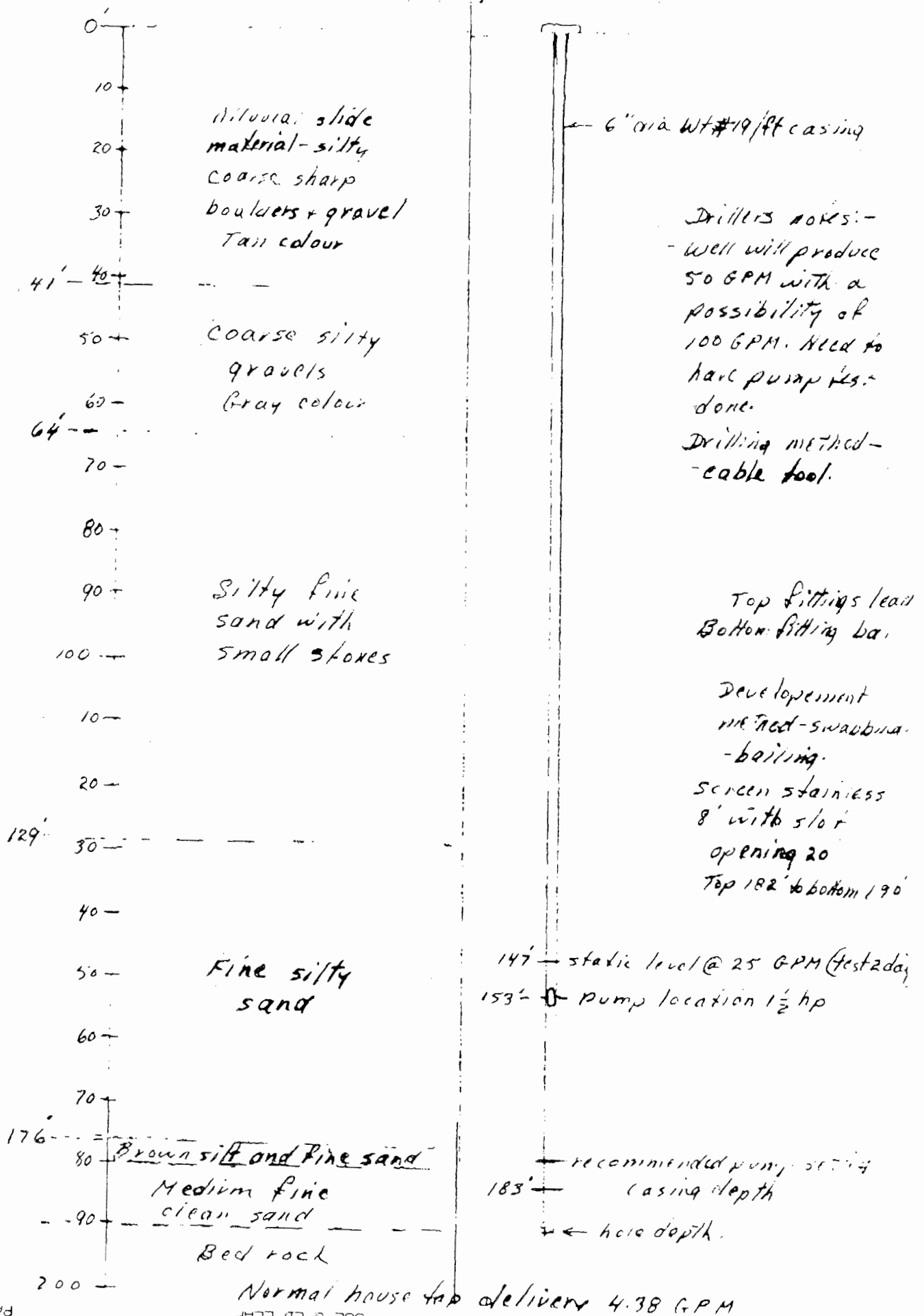
Luc Lachance, P.Eng.
For Director,
Environmental Management Act

APPENDIX C: Well Logs

BOREHOLE LOG		Borehole: BH99-01		Project Num: PRJ98043		
 SPEARLING HANSEN ASSOCIATES		Client: Regional District of Okanagan-Similkameen		Date: 14-Jan-99		
		Project: Monitoring Well Installation Program		Logged By: Bruce MacKenzie		
		Site: Keremeos Landfill				
Depth	Graphic Log			Completion Details		
	From (m)	To (m)	Description	From (m)	To (m)	Description
	0.00	4.00	brown SAND and gravel moist, medium compact	0.00	32.50	Native Backfill
5 m	4.00	5.00	brown CLAY, sandy moist			Blanks
	5.00	7.00	brown SAND and gravel moist			
	7.00	8.00	brown CLAY, sandy moist			
	8.00	12.00	brown SAND and gravel damp			
10 m						
	12.00	17.00	medium brown SAND, some gravel subround to round damp			
15 m						
	17.00	21.00	fine brown SAND loose, damp			
20 m						
	21.00	22.00	medium brown SAND, trace gravel loose, moist			
	22.00	23.00	medium brown SAND, some gravel loose, damp			
	23.00	25.00	coarse brown SAND and gravel loose, moist			
25 m						
	25.00	28.00	medium brown SAND some rounded gravel loose, moist			
	28.00	29.00	medium brown SAND and rounded gravel damp			
30 m						
	29.00	32.50	fine brown SAND, trace gravel loose, damp			
	32.50	33.00	coarse brown SAND, some gravel, loose, damp	32.50	34.00	
	33.00	39.00	fine to medium brown SAND, gravelly loose, moist	34.00	44.00	
35 m						
	39.00	42.00	fine to medium brown SAND, gravelly loose, wet			
40 m						
	42.00	45.00	medium brown SAND and gravel rounded to sub-rounded loose, saturated			
						Screen
45 m				44.00	45.00	
			END OF BOREHOLE @ 45.0 m	Slough		
Borehole Location: Approximately 100m east of the middle of the landfill downgradient in adjacent cherry orchard.						
Notes:						

MR & MRS E LEAF
BOX 147
KEREMEOS BC
VOX 1N0

Soil Description + Well



Monitoring Well: MW20-01

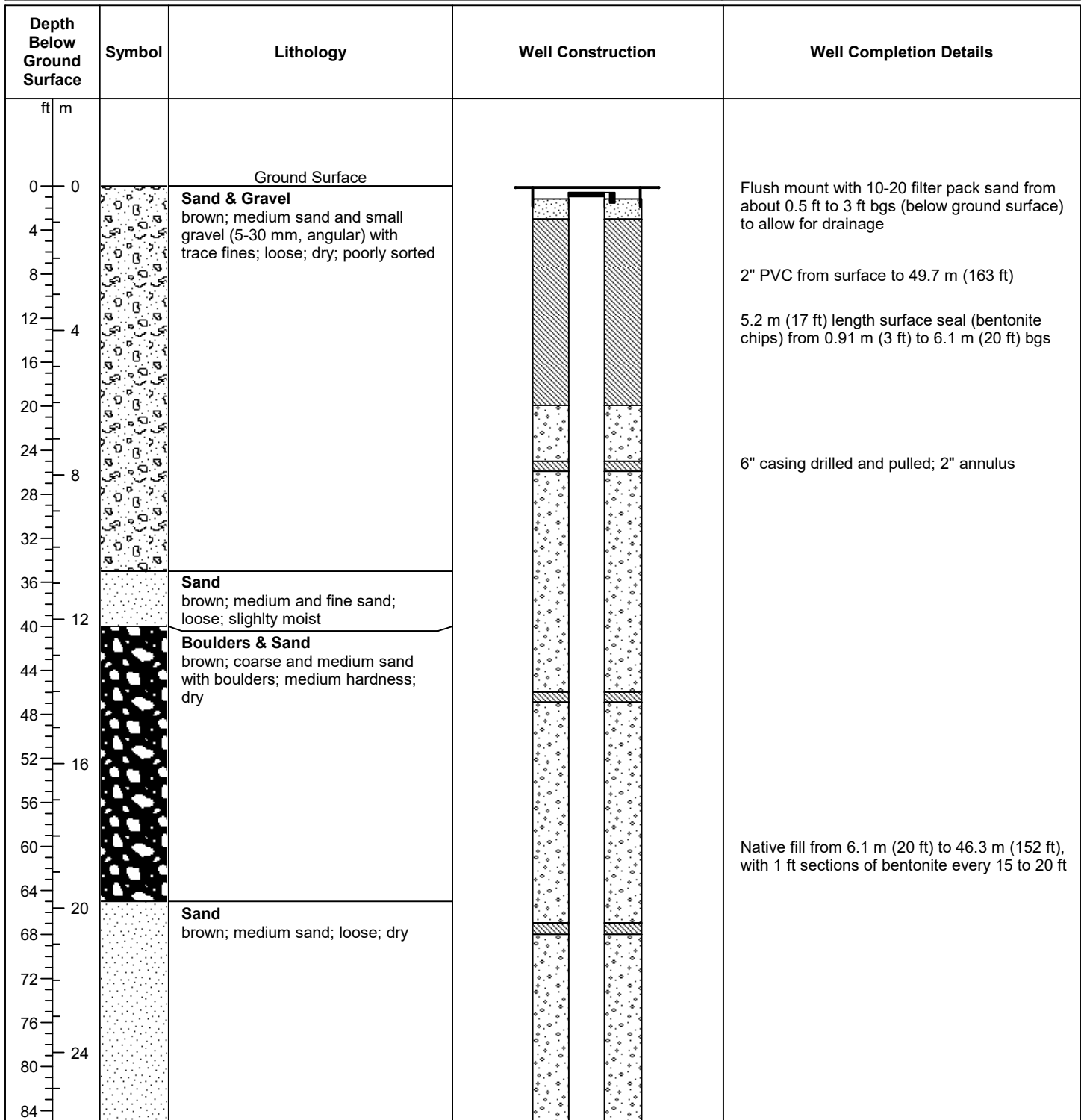
Client: RDOS

Project: KTS Drilling for Closure

WPID: 37363

Location: Keremeos Transfer Station

Project Number: 18-037-10



Coordinates: 11 U 293800 m E 5455576 m N

Drilling Contractor: Robbins Ltd.

Checked By: BRM

Stabilized Water Level: 44.56 m (146 ft) March 25, 2020

Drilling Method: Dual air rotary

Drawn By: LM

Ground Elevation: 460 m

Date of Completion: March 12, 2020

Logged By: LM

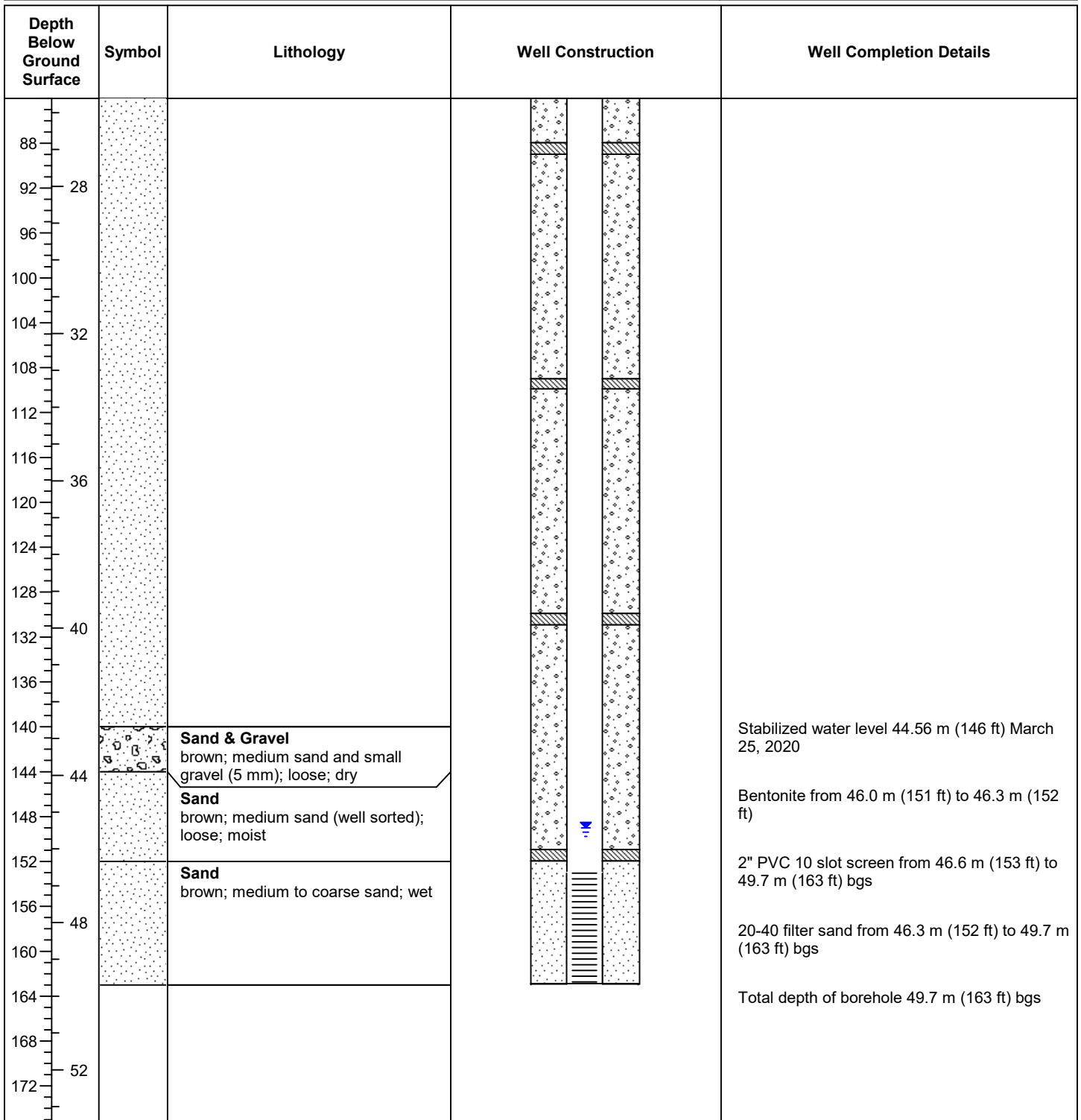
Well Depth: 49.7 m (163 ft)

Total Borehole Depth: 49.7 m (163 ft)

Page: 1 of 2

Monitoring Well: MW20-01
 Project: KTS Drilling for Closure
 Location: Keremeos Transfer Station

Client: RDOS
 WPID: 37363
 Project Number: 18-037-10



Coordinates: 11 U 293800 m E 5455576 m N

Stabilized Water Level: 44.56 m (146 ft) March 25, 2020

Ground Elevation: 460 m

Well Depth: 49.7 m (163 ft)

Drilling Contractor: Robbins Ltd.

Drilling Method: Dual air rotary

Date of Completion: March 12, 2020

Total Borehole Depth: 49.7 m (163 ft)

Checked By: BRM

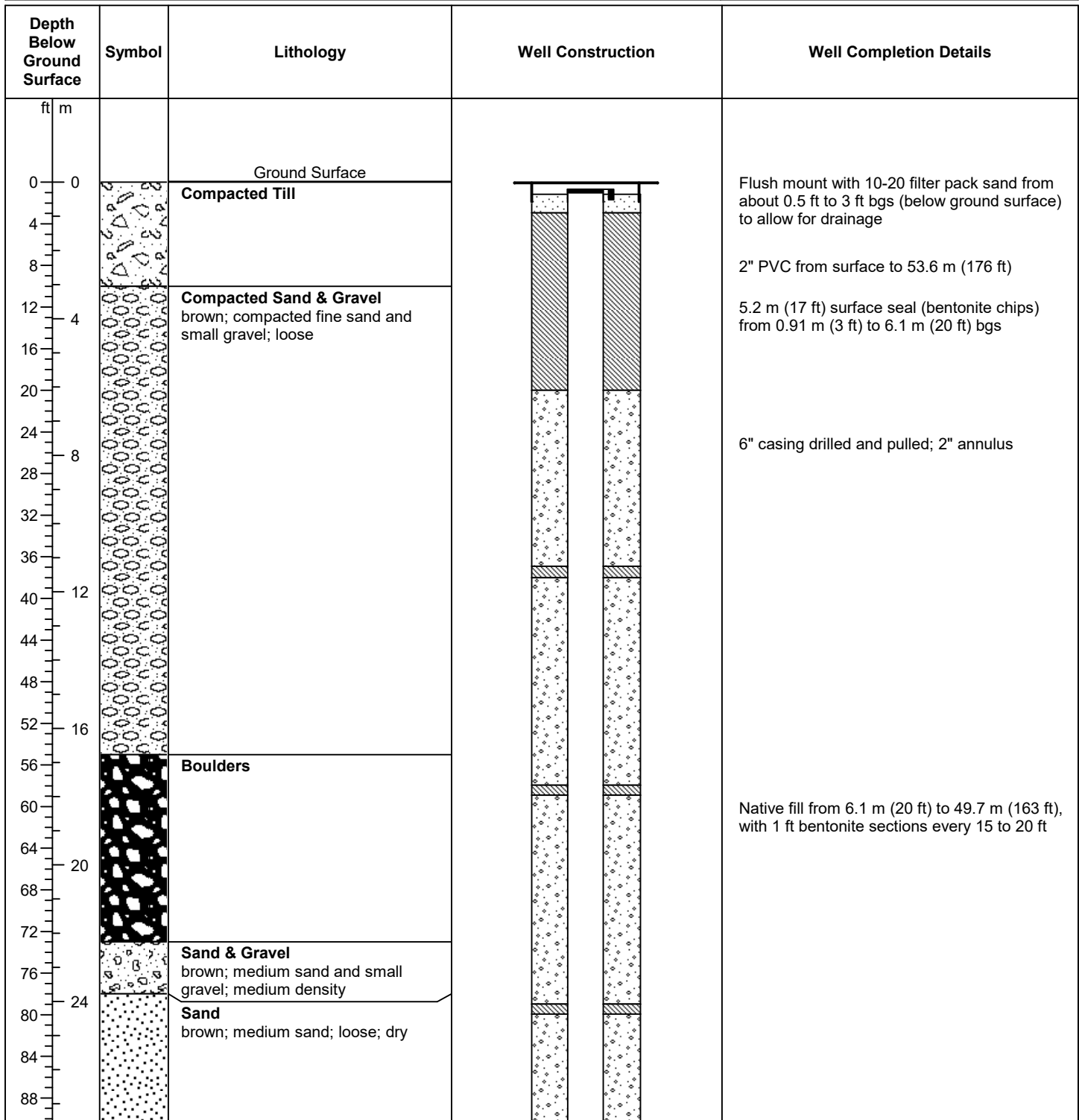
Drawn By: LM

Logged By: LM

Page: 2 of 2

Monitoring Well: MW20-02
 Project: KTS Drilling for Closure
 Location: Keremeos Transfer Station

Client: RDOS
 WPID: 37364
 Project Number: 18-037-10



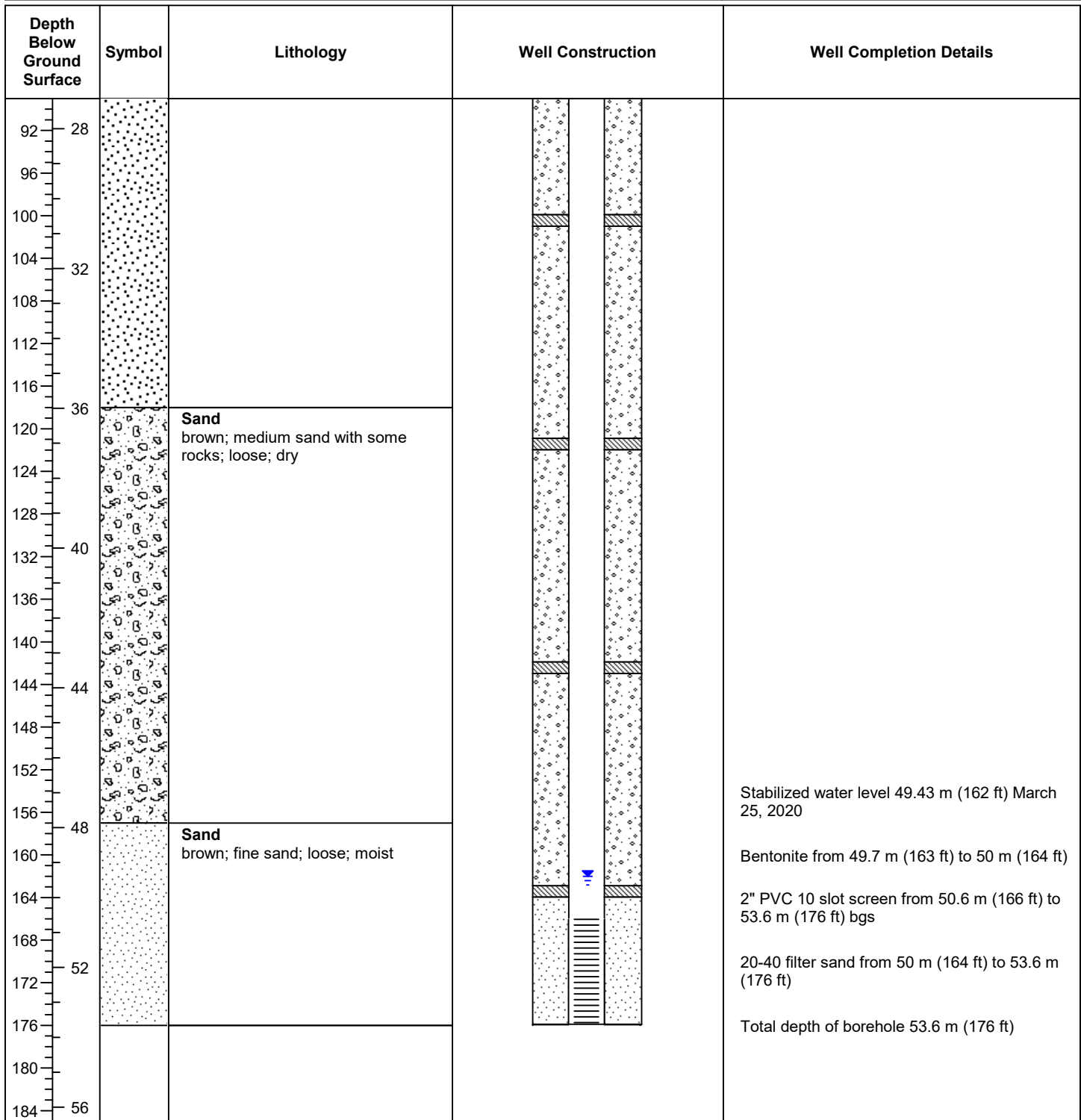
Coordinates: 11 U 293810 m E 5455684 m N
 Stabilized Water Level: 49.43 m (162 ft) March 25, 2020
 Ground Elevation: 466 m
 Well Depth: 53.6 m (176 ft)

Drilling Contractor: Robbins Ltd.
 Drilling Method: Dual air rotary
 Date of Completion: March 18, 2020
 Total Borehole Depth: 53.6 m (176 ft)

Checked By: BRM
 Drawn By: LM
 Logged By: Driller
 Page: 1 of 2

Monitoring Well: MW20-02
 Project: KTS Drilling for Closure
 Location: Keremeos Transfer Station

Client: RDOS
 WPID: 37364
 Project Number: 18-037-10



Coordinates: 11 U 293810 m E 5455684 m N
 Stabilized Water Level: 49.43 m (162 ft) March 25, 2020
 Ground Elevation: 466 m
 Well Depth: 53.6 m (176 ft)

Drilling Contractor: Robbins Ltd.
 Drilling Method: Dual air rotary
 Date of Completion: March 18, 2020
 Total Borehole Depth: 53.6 m (176 ft)

Checked By: BRM
 Drawn By: LM
 Logged By: Driller
 Page: 2 of 2

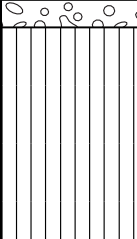
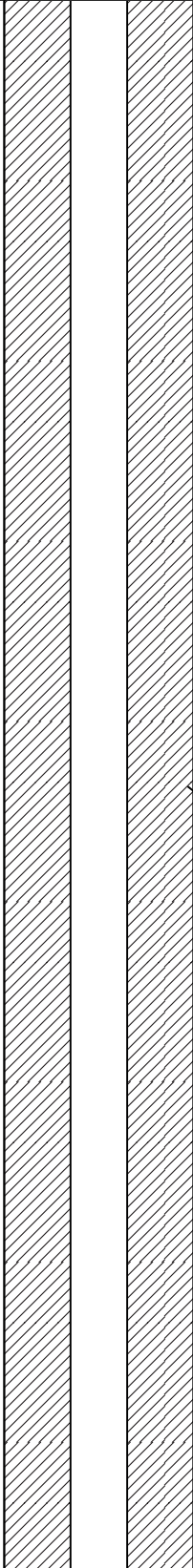
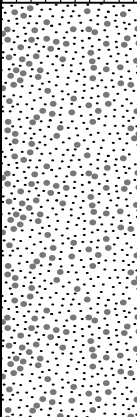
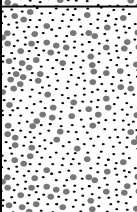
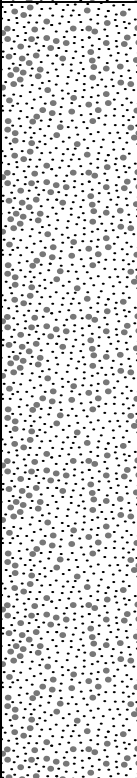


MONITORING WELL LOG MW24-03

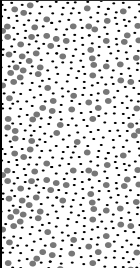
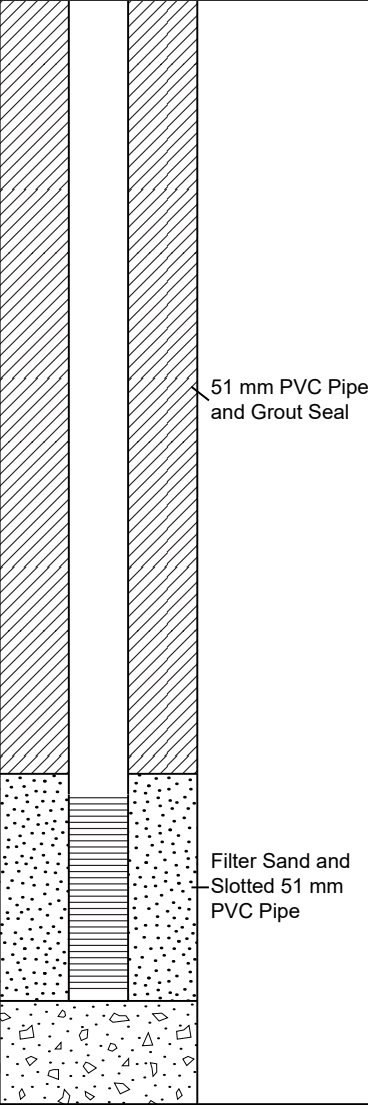
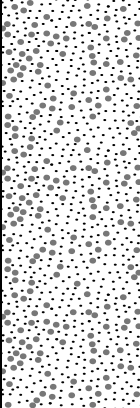
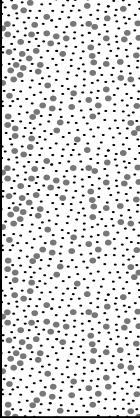
PROJECT NUMBER 22-4504.02	DRILLING DATE 18 April 2024	LOGGED BY DW
PROJECT NAME Monitoring Well Install	CONTRACTOR Ground Source Drilling Ltd.	CHECKED BY MPS
CLIENT RDOS	EQUIPMENT MODEL Track-mounted	
LOCATION 860 El Rancho Drive, Keremeos; Keremeos Transfer Station	BORING METHOD ODEX	

COMMENTS m = metres; G = grab sample

Depth (m)	Soil Description	Graphic Log	Sample ID	Sample Type	Water Level	Well Diagram
1	Dry, light brown GRAVEL, some sand, no staining, no odours.					Stick-up Monument
2	Dry, light brown SAND, some gravel, no staining, no odours.		(2.1)	G		
3						51 mm PVC Pipe and Grout Seal
4						
5			(5.2)	G		
6	Dry, med grey GRAVEL, some sand, no staining, no odours.					
7						
8			(8.2)	G		
9						
10	Dry, light brown GRAVEL, some sand, no staining, no odours.					
11			(11.3)	G		
12						
13			(14.3)	G		
14	Dry, light brown boulders, no staining, no odours.					
15	Dry, light brown GRAVEL, some sand, no staining, no odours.					
16			(17.4)	G		
17						
18						
19						
20						

Depth (m)	Soil Description	Graphic Log	Sample ID	Sample Type	Water Level	Well Diagram
20	Moist, light brown SILT, no staining, no odours.		(20.4)	G		
21						
22						
23	Dry, medium brown coarse SAND, no staining, no odours.		(23.5)	G		
24						
25						
26						
27	Moist, medium brown fine SAND, no staining, no odours.		(26.5)	G		
28						
29						
30			(29.6)	G		
31	Moist, light brown fine SAND, no staining, no odours.					
32						
33			(32.6)	G		
34						
35						
36			(35.7)	G		
37						
38						
39			(38.7)	G		
40						
41						
42			(41.8)	G		
43						

MONITORING WELL LOG MW24-03

Depth (m)	Soil Description	Graphic Log	Sample ID	Sample Type	Water Level	Well Diagram
44	Cobble seam at 45.7 to 46.3 mbgs.					
45			(44.8)	G		
46						
47	Moist, light brown fine SAND, no staining, no odours.					
48			(47.9)	G		
49						
50	Wet, medium brown fine SAND, no staining, no odours.					
51			(50.9)	G		
52						
53						
54			(53.9)	G		
55	End of Borehole at 60.04 mbgs due to refusal. Static Water Level (17 Jan 2024) = 53.81 mbgs					
56						
57			(57.0)	G		
58						
59			(60.0)	G		
60						
61						
62						
63						
64						
65						
66						
67						

APPENDIX D: Historical Water Quality Data

Water Quality Results

Keremeos Transfer Station

													Sampling Location	1001 Highway 3A	1001 Highway 3A	1001 Highway 3A	1001 Highway 3A	1001 Highway 3A	1001 Highway 3A	1001 Highway 3A	848 El Rancho Rd.	848 El Rancho Rd.	848 El Rancho Rd.	848 El Rancho Rd.	848 El Rancho Rd.	
													Date Sampled	10-Dec-14	25-Mar-15	25-Jun-15	16-Sep-15	02-Dec-15	04-Apr-16	28-Jun-16	29-Sep-16	25-Jan-06	25-Jan-06	28-Apr-06	15-Aug-06	15-Aug-06
													Lab Sample ID	4120699-01	5031682-03	5061942-01	5091369-01	5120272-04	6040230-01	6062437-01	6092239-01	1716890	1716892	1843639	1977612	1977613
													Sample Type	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Duplicate	Normal	Normal	Duplicate
Analyte	Unit	Guideline											CSR DW													
		GCDWQ MAC	GCDWQ AO & O	BCAWQG L	BCWWQG L	BCAWQG I	BCWWQG I	BCSDWQG MAC	BCSDWQG AQ	CSR IW	CSR LW															
Hardness (as CaCO3), dissolved	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	413	385	393	403	425	410	418	536	578					
Hardness (as CaCO3), from total Ca/Mg	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	466	414	408								503	503		
pH		NG	NG	5.0 - 9.5 ^{3.15}	NG	5.0 - 9.5 ^{5.14}	NG	NG	NG	NG	NG	NG	7.82	7.88	7.76	7.82	7.99	7.84	7.87	7.86	7.21	7.21	7.42	7.18	7.15	
Sulphate	mg/L	NG	NG	1000	1000 ^{4.4}	NG	NG	NG	500	NG	NG	1000	500 ^{11.10}	257	237	234	213	262	296	248	260	200	200	178	166	
Microbiological																										
Total coliforms (counts)	CFU/100 mL	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	150	<1			<1						<1			
Total coliforms (MPN)	MPN/100 mL	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG														
E. coli (counts)	CFU/100 mL	NG	NG	200 ^{3.16}	NG	385 ^{5.15}	NG	10 ^{7.3}	NG	NG	NG	NG	<1	<1			<1						<1			
E. coli (MPN)	MPN/100 mL	NG	NG	200 ^{3.17}	NG	385 ^{5.16}	NG	10 ^{7.4}	NG	NG	NG	NG														
Heterotrophic plate count (counts)	CFU/mL	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG														
Heterotrophic plate count (MPN)	MPN/mL	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG											<1			
Nutrients																										
Ammonia (total, as N)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	0.251	0.229	0.228	0.238	0.226	0.278	0.223	0.211	<0.05	<0.05	<0.05	<0.002	<0.002	
Nitrate (as N)	mg/L	NG	NG	100 ^{3.18}	NG	NG	NG	10	NG	NG	100 ^{10.3}	10 ^{11.11}	<0.010	<0.010	<0.010	<0.010	1.53	0.106	<0.010	<0.010	1.68	1.7	1.31	1.5	1.51	
Nitrate + Nitrite (as N)	mg/L	NG	NG	100 ^{3.19}	NG	NG	NG	NG	NG	NG	100 ^{10.4}	10 ^{11.12}	<0.010	<0.010	<0.010	<0.020	1.53	0.106	<0.020	<0.020						
Nitrate + Nitrite (as N) (calculated)	mg/L	NG	NG	100 ^{3.20}	NG	NG	NG	NG	NG	NG	100 ^{10.5}	10 ^{11.13}	<0.010	<0.010	<0.010	<0.010	1.53	0.106	<0.010	<0.010	1.68	1.7	1.31	1.5	1.51	
Nitrite (as N)	mg/L	NG	NG	10 ^{3.21}	NG	NG	NG	1.0	NG	NG	10.000	1	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.03	<0.03	<0.03	<0.3	<0.03	
Total nitrogen	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	0.256	0.274	0.312									1.51	1.53	
Total kjeldahl nitrogen	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	0.26	0.27	0.31						<0.05	<0.05	1.04	<0.06	<0.06	
Phosphorus (dissolved, by ICPMS/ICPOES)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	N ^{8.1}	NG	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02						
Phosphorus (total, by ICPMS/ICPOES)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	N ^{8.2}	NG	<0.020	<0.020	<0.02	<0.02	<0.02	<0.02	<0.02		0.007	0.006	0.007	<0.02	<0.02	
Potassium (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	1.59	1.42	1.56	1.37	1.83	1.54	1.59	1.99						
Potassium (total)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	1.52	1.54	1.59			1.63			4.7	4.7	4.8	4.3	4.3	
Total Metals																										
Aluminum (total)	mg/L	NG	NG	5 ^{5.22}	NG	5 ^{5.17}	NG	9.5	NG	NG	NG	9.50 ^{11.14}	<0.005	0.008	<0.005			0.013			<0.005	<0.005	<0.005	<0.005	<0.005	
Antimony (total)	mg/L	NG	NG	NG	NG	NG	NG	0.006	NG	NG	NG	0.006	0.0001	<0.0001	0.0002			<0.0001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002		
Arsenic (total)	mg/L	NG	NG	0.025 ^{3.23}	NG	0.100 ^{5.18}	NG	0.01	NG	NG	NG	0.010	0.0021	0.0025	0.0022			0.0019	0.0015	0.0014	0.0018	0.0016	0.0014	0.0014		
Barium (total)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	1.000	0.019	0.017	0.017			0.016	0.075	0.076	0.068	0.062	0.063	0.063		
Beryllium (total)	mg/L	NG	NG	NG	0.100	NG	0.100	NG	NG	NG	NG	0.008	<0.0001	<0.0001	<0.0001			<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001		
Bismuth (total)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	<0.0001	<0.0001	<0.0001			<0.0001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005			
Boron (total)	mg/L	NG	NG	5	NG	0.5 ^{5.19}	NG	5.0	NG	NG	NG	5.000	0.059	0.059	0.047			0.057	0.056	0.052	0.056	0.056	0.056			
Cadmium (total)	mg/L	NG	NG	NG	0.080 ^{4.5}	NG	0.0051 ^{6.8}	0.005	NG	NG	NG	0.005	<0.00001	<0.00001	<0.00001			<0.00001	0.00003	0.00004	0.00003	0.00003	0.00003			
Calcium (total)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	118	95.1	97.4			101	117	120	106	99.2	102			
Chromium (total)	mg/L	NG	NG	NG	0.050 ^{4.8}	NG	0.0049 ^{6.9}	0.05	NG	NG	NG	0.050 ^{11.15}	<0.0005	<0.0005	<0.0005			0.0006	0.0032	0.0034	0.0039	0.0045	0.0035			
Cobalt (total)	mg/L	NG	NG	NG	1	NG	0.050 ^{5.10}	0.01	NG	NG	NG	0.001 ^{11.16}	0.00006	0.00010	0.00007			0.00011	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001			
Copper (total)	mg/L	NG	NG	0.300	NG	0.200 ^{5.20}	NG	2.0 ^{7.5}	1.0	NG	NG	1.500 ^{11.17}	0.0112	0.0139	0.0093			0.0089	0.005	0.006	0.014	0.002	0.002			
Iron (total)	mg/L	NG	NG	NG	NG	NG	NG	NG	0.3	NG	NG	6.500 ^{11.18}	0.55	0.54	0.45				<0.1	0.1	0.5	0.4	<0.1			
Lead (total)	mg/L	NG	NG	0.100	NG	0.200 ^{5.21}	NG	0.005	NG	NG	NG	0.010	0.0002	0.0002	0.0003			0.0003	0.0002	0.0002	0.001	0.0009	0.0009			
Lithium (total)	mg/L	NG	NG	NG	NG	NG	0.75 ^{6.11}	NG	NG	NG	NG	0.008	0.0197	0.0174	0.0154			0.0199	0.016	0.017	0.015	0.016	0.016			
Magnesium (total)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	41.4	42.9				39.9	68.6	70.2	55.8	57.2				
Manganese (total)	mg/L	NG	NG	NG	NG	NG	0.200	0.12	0.02	NG	NG	1.500 ^{11.19}	0.0348	0.0323	0.0310				<0.005	<0.005	0.006	<0.005	<0.005			
Mercury (total)	mg/L	NG	NG	0.0030	NG	0.0020	NG	0.001	NG	NG	NG	0.001	<0.00002	<0.00005	<0.00002			<0.00002	<0.00003	<0.00003	<0.00002	<0.00002	<0.00002			
Molybdenum (total)	mg/L	NG	NG	0.016 ^{3.24}	NG	0.01 ^{5.22}	NG	0.088	NG	NG	NG	0.250	0.0026	0.0026	0.0026			0.0023	0.002	0.002	0.002	0.002	0.002			
Nickel (total)	mg/L	NG	NG	NG	1	NG	0.200	0.08	NG	NG	NG	0.080	0.0005	0.0003	0.0003			0.0004	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005			
Selenium (total)	mg/L	NG	NG	0.0300 ^{3.25}	NG	0.010 ^{5.23}	NG	0.01	NG	NG	NG	0.010	<0.0005	<0.0005	<0.0005			<0.0005	0.0067	0.0066	0.0046	0.0045	0.0046			
Silicon (total, as Si)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	10.1	10.6	9.4			9.5	11.4	11.8	10.4	8.73	10.4			
Silver (total)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	0.020	<0.00005	<0.00005	<0.00005			<0.00005	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001			
Sodium (total)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	200 ^{11.20}	23.6	24.8	23.5			25.0	47.7	49.5	45.2	44	44.2			
Strontium (total)	mg/L	NG	NG	NG	NG	NG	NG	7.0	NG	NG	NG	2.500	4.94	4.73	4.32			4.96	1.27	1.3	1.09	1.04	1.04			
Sulphur (total)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	85	83	73			84	74.2	74.5	60.8	54.4	55.1			
Tellurium (total)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	<0.0002	<0.0002	<0.0002			<0.0002	<0.01	<0.01	<0.01	<0.01	<0.01			
Thallium (total)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	<0.00002	<0.00002	<0.00002			<0.00002	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005			
Thorium (total)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	<0.0001	<0.0001	<0.0001			<0.0001	<0.01	<0.01	<0.01	<0.01	<0.01			
Tin (total)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	2.500	<0.0002	<0.0002	<0.0002			<0.0002	<0.001	<0.001	<0.001	<0.001	<0.001			
Titanium (total)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	<0.005	<0.005	<0.005			<0.005		0.004	0.0044	0.0017	0.0024	0.0024		
Tungsten (total)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	0.003														
Uranium (total)	mg/L	NG	NG	NG	0.200	NG	0.010	0.02	NG	NG	NG	0.020	0.00008	0.00009	0.00010			0.00013			0.0055	0.0055	0.0047	0.0045	0.0046	
Vanadium (total)	mg/L	NG	NG	NG	0.100	NG	0.100	NG	NG	NG	NG	0.020	<0.001	<0.001	<0.001			0.0016	<0.001	0.0017	0.002	0.0018	0.0018			
Zinc (total)	mg/L	NG	NG	2.000	NG	1.000 ^{5.24}	NG	3.0	5.0	NG	NG</															



Keremeos Transfer Station
Water Quality Results

Sampling Location													848 El Rancho Rd.	848 El Rancho Rd.	848 El Rancho Rd.	848 El Rancho Rd.	848 El Rancho Rd.	848 El Rancho Rd.	848 El Rancho Rd.	848 El Rancho Rd.	848 El Rancho Rd.	848 El Rancho Rd.	848 El Rancho Rd.	848 El Rancho Rd.	848 El Rancho Rd.	848 El Rancho Rd.	
Date Sampled													30-May-07	29-Aug-07	03-Jul-08	25-Sep-08	25-Sep-08	02-Apr-09	10-Jun-09	22-Sep-09	17-Mar-10	17-Jun-10	06-Oct-10	05-Apr-11	23-Jun-11		
Lab Sample ID													2306679	2430580	K52864	L83613	L83614	O32909	P22265	Q90767	T28798	U88618	K0J0245-01	K1D0169-01	K1F1034-01		
Sample Type													Normal	Normal	Normal	Normal	Duplicate	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal		
Analyte	Unit	Guideline											Date Sampled	Lab Sample ID	Sample Type												
		GCDWQ MAC	GCDWQ AO & O	BCAWQG L	BCWWQG L	BCAWQG I	BCWWQG I	BC SDWQG MAC	BC SDWQG AO	CSR IW	CSR LW	CSR DW															
Field Results																											
Conductivity	µS/cm	NG	NG	NG	NG	NG	700 ^{6.1}	NG	NG	NG	NG	NG				1038	1083			1101	998	1071	1149	1013	1101	1019	964
Depth to Water (below top of casing)	m	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG															
Oxidation reduction potential	mV	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG				148.7	125.3			127.4	96.2	113.4	115.3	115.8	212.1	38.7	55.5
Dissolved oxygen	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG				5.48	4.9			6.62	6.13	6.35	6.02	6.55	7.51	5.73	5.75
pH		NG	NG	5.0 - 9.5 ^{3.1}	NG	5.0 - 9.5 ^{5.1}	NG	NG	NG	NG	NG	NG				6.25	7.13			6.78	6.98	6.92	6.91	7.03	9.68	7.07	6.92
Salinity		NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG															
Total dissolved solids	mg/L	NG	NG	NG	1000 ^{4.1}	NG	500 ^{6.2}	NG	NG	NG	NG	NG				674	704			716	649	693	747	658	716	663	627
Temperature	°C	NG	NG	N ^{3.2}	NG	N ^{5.2}	NG	NG	15	NG	NG	NG				12.83	12.82			11.4	12.37	12.82	11.45	12.36	12.43	11.35	13.42
Turbidity	NTU	NG	NG	N ^{3.3}	NG	N ^{5.3}	NG	N ^{7.1}	NG	NG	NG	NG				0.82	0.34			0.55	0.48	0.52	3.49		0.57	0.92	0.62
Volume Purged	L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG															
Lab Results																											
Dissolved Metals																											
Aluminum (dissolved)	mg/L	NG	NG	5 ^{3.4}	NG	5 ^{5.4}	NG	9.5	NG	5.000	5.000	9.500 ^{11.1}															
Antimony (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	0.006	NG	NG	NG	0.006															
Arsenic (dissolved)	mg/L	NG	NG	0.025 ^{3.5}	NG	0.100 ^{5.5}	NG	0.01	NG	0.100	0.025	0.010															
Barium (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	1.000															
Beryllium (dissolved)	mg/L	NG	NG	NG	0.100	NG	0.100	NG	NG	0.100	0.100	0.008															
Bismuth (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG															
Boron (dissolved)	mg/L	NG	NG	5 ^{3.6}	NG	0.5 ^{5.6}	NG	5.0	NG	0.500 ^{9.1}	5.000	5.000															
Cadmium (dissolved)	mg/L	NG	NG	NG	0.080 ^{4.2}	NG	0.0051 ^{9.3}	0.005	NG	0.005	0.080	0.005															
Calcium (dissolved)	mg/L	NG	NG	NG	1000	NG	NG	NG	NG	NG	1000	NG		106		93.6	123		100	121	120.000	98.100	121	98.5	79		
Chromium (dissolved)	mg/L	NG	NG	NG	0.050 ^{4.3}	NG	0.0049 ^{9.4}	0.05	NG	0.005 ^{9.2}	0.050 ^{10.1}	0.050 ^{11.2}															
Cobalt (dissolved)	mg/L	NG	NG	NG	1	NG	0.050 ^{6.5}	0.001	NG	0.050	1.000	0.001 ^{11.3}															
Copper (dissolved)	mg/L	NG	NG	0.300 ^{3.7}	NG	0.200 ^{5.7}	NG	2.0 ^{7.2}	1.0	0.200	0.300	1.500 ^{11.4}															
Iron (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	NG	0.3	5.000 ^{9.3}	NG	6.500 ^{11.5}															
Lead (dissolved)	mg/L	NG	NG	0.100 ^{3.8}	NG	0.200 ^{5.8}	NG	0.005	NG	0.200	0.100	0.010															
Lithium (dissolved)	mg/L	NG	NG	NG	NG	NG	0.75 ^{6.6}	NG	NG	2.500 ^{9.4}	5.000	0.008															
Magnesium (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG		62.2		62.1	67.3		60.7	66.4	69.100	63.600	76.5	69.4	65.7		
Manganese (dissolved)	mg/L	NG	NG	NG	NG	NG	0.200	0.12	0.02	0.200 ^{9.5}	NG	1.500 ^{11.6}															
Mercury (dissolved)	mg/L	NG	NG	0.0030 ^{3.9}	NG	0.0020 ^{5.9}	NG	0.001	NG	0.001	0.002	0.001															
Molybdenum (dissolved)	mg/L	NG	NG	0.016 ^{3.10}	NG	0.01 ^{5.10}	NG	0.088	NG	0.010 ^{9.6}	0.050	0.250															
Nickel (dissolved)	mg/L	NG	NG	NG	1	NG	0.200	0.08	NG	0.200	1.000	0.080															
Selenium (dissolved)	mg/L	NG	NG	0.0300 ^{3.11}	NG	0.010 ^{5.11}	NG	0.01	NG	0.020 ^{9.7}	0.030	0.010															
Silicon (dissolved, as Si)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG															
Silver (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	0.020															
Sodium (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	200 ^{11.7}			41.2	44.3											
Strontium (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	7.0	NG	NG	NG	2.500															
Sulphur (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG				69	73										
Tellurium (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG															
Thallium (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG															
Thorium (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG															
Tin (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	2.500															
Titanium (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG															
Tungsten (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	0.003															
Uranium (dissolved)	mg/L	NG	NG	NG	0.200	NG	0.010	0.02	NG	0.010	0.200	0.020															
Vanadium (dissolved)	mg/L	NG	NG	NG	0.100	NG	0.100	NG	NG	0.100	0.100	0.020															
Zinc (dissolved)	mg/L	NG	NG	2,000 ^{3.12}	NG	1,000 ^{5.12}	NG	3.0	5.0	1,000 ^{9.8}	2,000	3,000 ^{11.8}															
Zirconium (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG															
General																											
Bicarbonate alkalinity (as HCO3)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG															
Carbonate alkalinity (as CO3)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG															
Hydroxide alkalinity (as OH)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG															
Alkalinity (bicarbonate, as CaCO3)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG															
Alkalinity (carbonate, as CaCO3)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG											428	397	380		
Alkalinity (hydroxide, as CaCO3)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG											<1.0	<1.0	<1.0		
Alkalinity (phenolphthalein, as CaCO3)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG											<1.0	<1.0	<1.0		
Alkalinity (total, as CaCO3																											



Keremeos Transfer Station
Water Quality Results

Sampling Location													848 El Rancho Rd.	848 El Rancho Rd.	848 El Rancho Rd.	848 El Rancho Rd.	848 El Rancho Rd.	848 El Rancho Rd.	848 El Rancho Rd.	848 El Rancho Rd.	848 El Rancho Rd.	848 El Rancho Rd.	848 El Rancho Rd.	848 El Rancho Rd.	848 El Rancho Rd.	848 El Rancho Rd.		
Date Sampled Lab Sample ID Sample Type													30-May-07 2306679 Normal	29-Aug-07 2430580 Normal	03-Jul-08 K52864 Normal	25-Sep-08 L83613 Normal	25-Sep-08 L83614 Duplicate	02-Apr-09 O32909 Normal	10-Jun-09 P22265 Normal	22-Sep-09 Q90767 Normal	17-Mar-10 T28798 Normal	17-Jun-10 U88618 Normal	06-Oct-10 K0J0245-01 Normal	05-Apr-11 K1D0169-01 Normal	23-Jun-11 K1F1034-01 Normal			
Analyte	Unit	Guideline											CSR DW															
		GCDWQ MAC	GCDWQ AO & O	BCAWQG L	BCWWQG L	BCAWQG I	BCWWQG I	BC SDWQG MAC	BC SDWQG AO	CSR IW	CSR LW																	
Hardness (as CaCO3), dissolved	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG																
Hardness (as CaCO3), from total Ca/Mg	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	528			602			617					616	549	505		
pH		NG	NG	5.0 - 9.5 ^{3.15}	NG	5.0 - 9.5 ^{5.14}	NG	NG	NG	NG	NG	NG	7.69	7.58	7.7	8.1	8.1	8.1	8.1	7.9	7.9	8.3	7.74	7.86	7.84			
Sulphate	mg/L	NG	NG	1000	1000 ^{4.4}	NG	NG	NG	500	NG	1000	500 ^{11.10}	190	187	180	160	170	190	180	180	190	180	302	239	216			
Microbiological																												
Total coliforms (counts)	CFU/100 mL	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG		<1		<1		<1			<1				40			
Total coliforms (MPN)	MPN/100 mL	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG																
E. coli (counts)	CFU/100 mL	NG	NG	200 ^{3.16}	NG	385 ^{5.15}	NG	10 ^{7.3}	NG	NG	NG	NG		<1		<1		<1			<1				<1			
E. coli (MPN)	MPN/100 mL	NG	NG	200 ^{3.17}	NG	385 ^{5.16}	NG	10 ^{7.4}	NG	NG	NG	NG																
Heterotrophic plate count (counts)	CFU/mL	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG									4							
Heterotrophic plate count (MPN)	MPN/mL	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG						<1										
Nutrients																												
Ammonia (total, as N)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	0.008	<0.01	<0.005	<0.005	<0.005	0.008	<0.005	0.013	<0.005	0.026	0.03	<0.02	<0.02			
Nitrate (as N)	mg/L	NG	NG	100 ^{3.18}	NG	NG	NG	10	NG	NG	100 ^{10.3}	10 ^{11.11}	1.4	1.4	1.07	1.19	1.19	1.38	1.33	1.6	2.25	2.34	2.06	2.44	2.21			
Nitrate + Nitrite (as N)	mg/L	NG	NG	100 ^{3.19}	NG	NG	NG	NG	NG	NG	100 ^{10.4}	10 ^{11.12}			1.07	1.19	1.19	1.38	1.33	1.6	2.25	2.34	2.06	2.44	2.21			
Nitrate + Nitrite (as N) (calculated)	mg/L	NG	NG	100 ^{3.20}	NG	NG	NG	NG	NG	NG	100 ^{10.5}	10 ^{11.13}	1.4	1.4	1.07	1.19	1.19	1.38	1.33	1.6	2.25	2.34	2.06	2.44	2.21			
Nitrite (as N)	mg/L	NG	NG	10 ^{3.21}	NG	NG	NG	1.0	NG	NG	10.000	1	<0.05	<0.05	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.01			
Total nitrogen	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG			1.15	1.23	1.2	1.28	1.41	1.7	2.15	2.39	2.22	2.6	2.35			
Total kjeldahl nitrogen	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	<0.06	<0.06	0.09	0.05	<0.02	<0.02	0.07	0.11	<0.04	0.05	0.16	0.16	0.14			
Phosphorus (dissolved, by ICPMS/ICPOES)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	N ^{8.1}	NG			1.15	1.23	1.2	1.28	1.41	1.7	2.15	2.39	2.22	2.6	2.35			
Phosphorus (total, by ICPMS/ICPOES)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	N ^{8.2}	NG	<0.02	<0.02	0.016	0.017	0.016					0.02	<0.02	<0.02				
Potassium (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG				4.49	4.83											
Potassium (total)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	4.5	4.2	5.13	4.45	4.31	4.98	2.21	4.32	4.88	4.43	4.93	4.21	4			
Total Metals																												
Aluminum (total)	mg/L	NG	NG	5 ^{3.22}	NG	5 ^{5.17}	NG	9.5	NG	NG	NG	9.500 ^{11.14}	<0.01	<0.005	0.009	0.002	0.004	0.003	0.005	0.003	0.004	<0.003	<0.005	<0.005	<0.005			
Antimony (total)	mg/L	NG	NG	NG	NG	NG	NG	0.006	NG	NG	NG	0.006	<0.0004	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.0002	0.0001	0.0003			
Arsenic (total)	mg/L	NG	NG	0.025 ^{3.23}	NG	0.100 ^{5.18}	NG	0.01	NG	NG	NG	0.010	0.001	0.0014	0.0013	0.0013	0.0014	0.0006	0.0012	0.0015	0.0012	0.0014	0.0012	0.0012	<0.0005			
Barium (total)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	1.000	0.065	0.064	0.064	0.062	0.059	0.073	0.064	0.065	0.077	0.061	0.0814	0.066	0.061			
Beryllium (total)	mg/L	NG	NG	NG	0.100	NG	0.100	NG	NG	NG	NG	0.008	<0.0002	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001			
Bismuth (total)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	<0.001	<0.0005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.0001	<0.0001	<0.0001			
Boron (total)	mg/L	NG	NG	5	NG	0.5 ^{5.19}	NG	5.0	NG	NG	NG	5.000	0.071	0.053	<0.050	<0.050	<0.050	0.056	0.050	0.051	0.057	<0.050	0.051	0.049	0.056			
Cadmium (total)	mg/L	NG	NG	NG	0.080 ^{4.5}	NG	0.0051 ^{5.8}	0.005	NG	NG	NG	0.005	<0.00002	0.00003	0.00003	0.00003	0.00004	0.00004	0.00002	0.00004	0.00007	0.00007	0.00003	0.00005	0.00003			
Calcium (total)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	108	101	124	113	110	124	54.4	111	132	110	114	103	89.9			
Chromium (total)	mg/L	NG	NG	NG	0.050 ^{4.6}	NG	0.0049 ^{5.9}	0.05	NG	NG	NG	0.050 ^{11.15}	0.0034	0.0035	0.003	0.003	0.003	0.003	0.001	0.003	0.003	0.003	0.0051	0.0034	0.0033			
Cobalt (total)	mg/L	NG	NG	NG	1	NG	0.050 ^{6.10}	0.001	NG	NG	NG	0.001 ^{11.16}	<0.0002	<0.0001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.0002	<0.00005	<0.00005			
Copper (total)	mg/L	NG	NG	0.300	NG	0.200 ^{5.20}	NG	2.0 ^{7.5}	1.0	NG	NG	1.500 ^{11.17}	0.009	0.003	0.0045	0.0041	0.0043	0.0045	0.0014	0.0033	0.0052	0.0027	0.0053	0.0038	0.0024			
Iron (total)	mg/L	NG	NG	NG	NG	NG	NG	NG	0.3	NG	NG	6.500 ^{11.18}	0.5	<0.1	0.156	0.099	0.082	0.106	<0.005	0.038	0.173	0.072	0.23	0.03	0.02			
Lead (total)	mg/L	NG	NG	0.100	NG	0.200 ^{5.21}	NG	0.005	NG	NG	NG	0.010	0.0003	0.0008	0.0006	0.0002	<0.0002	0.0002	<0.0002	<0.0002	0.0003	<0.0002	0.0002	0.0001	0.0001			
Lithium (total)	mg/L	NG	NG	NG	NG	NG	0.75 ^{6.11}	NG	NG	NG	NG	0.008	0.02	0.017									0.0207	0.0142	0.0146			
Magnesium (total)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	62.9	57.1	71	65.1	62.9	74.6	32.2	62	76.1	66.1	80.3	71.1	68.1			
Manganese (total)	mg/L	NG	NG	NG	NG	NG	0.200	0.12	0.02	NG	NG	1.500 ^{11.19}	<0.01	<0.005	0.004	0.002	0.002	0.002	<0.001	0.001	0.001	0.001	0.0015	0.0009	0.0014			
Mercury (total)	mg/L	NG	NG	0.0030	NG	0.0020	NG	0.001	NG	NG	NG	0.001	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	0.00003	0.00002	<0.00002	<0.00002	<0.00002	<0.00005	<0.00002	<0.00002			
Molybdenum (total)	mg/L	NG	NG	0.016 ^{3.24}	NG	0.1 ^{5.22}	NG	0.088	NG	NG	NG	0.250	0.002	0.002	0.003	0.003	0.002	0.003	0.003	0.003	0.003	0.003	0.0026	0.0025	0.0028			
Nickel (total)	mg/L	NG	NG	NG	1	NG	0.200	0.08	NG	NG	NG	0.080	<0.0010	<0.0005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.004	<0.001	0.0036	0.0005	0.0003			

Keremeos Transfer Station
Water Quality Results

Sampling Location													848 El Rancho Rd. 23-Jun-11 K1F1040-01 Normal	848 El Rancho Rd. 28-Jun-11 K1F1207-01 Normal	848 El Rancho Rd. 28-Jun-11 K1F1209-01 Duplicate	848 El Rancho Rd. 01-Sep-11 K10055-01 Normal	848 El Rancho Rd. 19-Jun-12 2061078-01 Normal	848 El Rancho Rd. 26-Sep-12 2091472-01 Normal	848 El Rancho Rd. 04-Dec-12 2120170-01 Normal	848 El Rancho Rd. 21-Mar-13 3031071-01 Normal	848 El Rancho Rd. 27-Jun-13 3061699-01 Normal	848 El Rancho Rd. 08-Oct-13 3100587-01 Normal	848 El Rancho Rd. 24-Mar-14 4031254-01 Normal	848 El Rancho Rd. 17-Jun-14 4061153-01 Normal	848 El Rancho Rd. 25-Sep-14 4091890-01 Normal		
Date Sampled Lab Sample ID Sample Type																											
Analyte	Unit	Guideline																									
		GCDWQ MAC	GCDWQ AO & O	BCAWQG L	BCWWQG L	BCAWQG I	BCWWQG I	BC SDWQG MAC	BC SDWQG AO	CSR IW	CSR LW	CSR DW															
Field Results																											
Conductivity	µS/cm	NG	NG	NG	NG	NG	700 ^{6.1}	NG	NG	NG	NG	NG	964					965	938	987	1014	1040	977	1222	1187	1179	
Depth to Water (below top of casing)	m	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG															
Oxidation reduction potential	mV	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	55.5					104.6	71.5	127.1	89.0	238.4	70.5	98.1	122.4	206.5	
Dissolved oxygen	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	5.75					7.58	6.54	6.17	7.08	7.51	6.58	6.42	5.14	6.12	
pH		NG	NG	NG	5.0 - 9.5 ^{3.1}	NG	5.0 - 9.5 ^{5.1}	NG	NG	NG	NG	NG	6.92					6.89	7.28	6.83	7.24	7.13	7.17	7.19	7.15	7.23	
Salinity		NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG															
Total dissolved solids	mg/L	NG	NG	NG	1000 ^{4.1}	NG	500 ^{6.2}	NG	NG	NG	NG	NG	627					627	610	642	659	676.0	637.0	793.0	773.5	767.0	
Temperature	°C	NG	NG	NG	N ^{3.2}	NG	N ^{5.2}	NG	NG	15	NG	NG	13.42					12.03	12.37	11.67	11.27	12.2	12.3	11.3	12.1	12.2	
Turbidity	NTU	NG	NG	NG	N ^{3.3}	NG	N ^{5.3}	NG	N ^{7.1}	NG	NG	NG	0.62					0.81	1.05	1.14	1.06	2.68	4.73	7.27	0.73	0.84	
Volume Purged	L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG															
Lab Results																											
Dissolved Metals																											
Aluminum (dissolved)	mg/L	NG	NG	5 ^{3.4}	NG	5 ^{5.4}	NG	9.5	NG	5.000	5.000	9.500 ^{11.1}												<0.005	<0.005	<0.005	
Antimony (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	0.006	NG	NG	NG	0.006												0.0004	0.0003	0.0002	
Arsenic (dissolved)	mg/L	NG	NG	0.025 ^{3.5}	NG	0.100 ^{5.5}	NG	0.01	NG	0.100	0.025	0.010												0.0011	0.0011	0.0012	
Barium (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	1.000												0.071	0.061	0.060	
Beryllium (dissolved)	mg/L	NG	NG	NG	0.100	NG	0.100	NG	NG	0.100	0.100	0.008												<0.0001	<0.0001	<0.0001	
Bismuth (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG												<0.0001	<0.0001	<0.0001	
Boron (dissolved)	mg/L	NG	NG	5 ^{3.6}	NG	0.5 ^{5.6}	NG	5.0	NG	0.500 ^{9.1}	5.000	5.000												0.055	0.045	0.046	
Cadmium (dissolved)	mg/L	NG	NG	NG	0.080 ^{4.2}	NG	0.0051 ^{9.3}	0.005	NG	0.005	0.080	0.005												0.00004	0.00004	0.00004	
Calcium (dissolved)	mg/L	NG	NG	NG	1000	NG	NG	NG	NG	NG	1000	NG	76.4					83	97	96	96	95	80	117	109	114	
Chromium (dissolved)	mg/L	NG	NG	NG	0.050 ^{4.3}	NG	0.0049 ^{5.4}	0.05	NG	0.005 ^{9.2}	0.050 ^{10.1}	0.050 ^{11.2}												0.0035	0.0034	0.0038	
Cobalt (dissolved)	mg/L	NG	NG	NG	1	NG	0.050 ^{6.5}	0.001	NG	0.050	1.000	0.001 ^{11.3}												<0.00005	<0.00005	<0.00005	
Copper (dissolved)	mg/L	NG	NG	0.300 ^{3.7}	NG	0.200 ^{5.7}	NG	2.0 ^{7.2}	1.0	0.200	0.300	1.500 ^{11.4}												0.0137	0.0029	0.0029	
Iron (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	NG	0.3	5.000 ^{9.3}	NG	6.500 ^{11.5}												0.021	0.013	0.010	
Lead (dissolved)	mg/L	NG	NG	0.100 ^{3.8}	NG	0.200 ^{5.8}	NG	0.005	NG	0.200	0.100	0.010												0.0003	<0.0001	0.0001	
Lithium (dissolved)	mg/L	NG	NG	NG	NG	NG	0.75 ^{6.6}	NG	NG	2.500 ^{9.4}	5.000	0.008												0.00164	0.0140	0.0155	
Magnesium (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	64.4					63.4	67.3	73.1	77.6	74.7	61.9	85.9	78.1	75.2	
Manganese (dissolved)	mg/L	NG	NG	NG	NG	NG	0.200	0.12	0.02	0.200 ^{9.5}	NG	1.500 ^{11.6}												0.0018	0.0007	0.0006	
Mercury (dissolved)	mg/L	NG	NG	0.0030 ^{3.9}	NG	0.0020 ^{5.9}	NG	0.001	NG	0.001	0.002	0.001												<0.00002	<0.00002	<0.00002	
Molybdenum (dissolved)	mg/L	NG	NG	0.016 ^{3.10}	NG	0.01 ^{5.10}	NG	0.088	NG	0.010 ^{9.6}	0.050	0.250												0.0028	0.0029	0.0031	
Nickel (dissolved)	mg/L	NG	NG	NG	1	NG	0.200	0.08	NG	0.200	1.000	0.080												0.0007	<0.0002	<0.0002	
Selenium (dissolved)	mg/L	NG	NG	0.0300 ^{3.11}	NG	0.010 ^{5.11}	NG	0.01	NG	0.020 ^{9.7}	0.030	0.010												0.0078	0.0055	0.0049	
Silicon (dissolved, as Si)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG												11.0	10.6	9.9	
Silver (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	0.020												<0.00005	<0.00005	<0.00005	
Sodium (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	200 ^{11.7}												42.3	39.7	39.2	
Strontium (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	7.0	NG	NG	NG	2.500												1.23	1.16	1.14	
Sulphur (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG												90	80	78	
Tellurium (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG												<0.0002	<0.0002	<0.0002	
Thallium (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG												<0.00002	<0.00002	<0.00002	
Thorium (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG												<0.0001	<0.0001	<0.0001	
Tin (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	2.500												<0.0002	<0.0002	<0.0002	
Titanium (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG												<0.005	<0.005	<0.005	
Tungsten (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	0.003															
Uranium (dissolved)	mg/L	NG	NG	NG	0.200	NG	0.010	0.02	NG	0.010	0.200	0.020															
Vanadium (dissolved)	mg/L	NG	NG	NG	0.100	NG	0.100	NG	NG	0.100	0.100	0.020													0.00642	0.00562	0.00584
Zinc (dissolved)	mg/L	NG	NG	2.000 ^{3.12}	NG	1.000 ^{5.12}	NG	3.0	5.0	1.000 ^{9.8}	2.000	3.000 ^{11.8}												0.001	0.002	0.001	
Zirconium (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG												0.023	<0.004	0.006	
																								<0.0001	<0.0001</		

Keremeos Transfer Station

Sampling Location														848 El Rancho Rd.	848 El Rancho Rd.	848 El Rancho Rd.	848 El Rancho Rd.	848 El Rancho Rd.	848 El Rancho Rd.	848 El Rancho Rd.	848 El Rancho Rd.	848 El Rancho Rd.	848 El Rancho Rd.	848 El Rancho Rd.	848 El Rancho Rd.	848 El Rancho Rd.	848 El Rancho Rd.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
Date Sampled Lab Sample ID Sample Type														K1F1040-01 Normal	28-Jun-11 K1F1207-01 Normal	28-Jun-11 K1F1209-01 Duplicate	01-Sep-11 K1I0055-01 Normal	19-Jun-12 2061078-01 Normal	26-Sep-12 2091472-01 Normal	04-Oct-12 2120170-01 Normal	21-Mar-13 3031071-01 Normal	27-Jun-13 3061699-01 Normal	08-Oct-13 3100587-01 Normal	24-Mar-14 4031254-01 Normal	17-Jun-14 4061153-01 Normal	25-Sep-14 4091890-01 Normal																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
Analyte	Unit	Guideline												CSR LW	CSR DW																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							



Keremeos Transfer Station
Water Quality Results

Sampling Location													848 El Rancho Rd. 10-Dec-14 4120699-02 Normal	848 El Rancho Rd. 25-Mar-15 5031682-01 Normal	848 El Rancho Rd. 25-Jun-15 5061984-01 Normal	848 El Rancho Rd. 16-Sep-15 5091412-01 Normal	848 El Rancho Rd. 02-Dec-15 5120272-06 Normal	848 El Rancho Rd. 04-Apr-16 6040225-01 Normal	848 El Rancho Rd. 28-Jun-16 6062443-01 Normal	848 El Rancho Rd. 29-Sep-16 6092235-01 Normal	848 El Rancho Rd. 30-Nov-16 6120048-01 Normal	848 El Rancho Rd. 20-Mar-17 7031414-01 Normal	848 El Rancho Rd. 19-Jun-17 7061772-01 Normal	848 El Rancho Rd. 02-Nov-17 7110388-04 Normal	848 El Rancho Rd. 21-Mar-18 8031760-01 Normal		
Analyte	Unit	Guideline											Date Sampled	Lab Sample ID	Sample Type												
		GCDWQ MAC	GCDWQ AO & O	BCAWQG L	BCWWQG L	BCAWQG I	BCWWQG I	BC SDWQG MAC	BC SDWQG AO	CSR IW	CSR LW	CSR DW															
Field Results																											
Conductivity	µS/cm	NG	NG	NG	NG	NG	700 ^{6.1}	NG	NG	NG	NG	NG	1146	1105	1039	1051	1049		1132	1250	1246	1191	1111	1152	1165		
Depth to Water (below top of casing)	m	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG															
Oxidation reduction potential	mV	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	137.4	150.6	108.5	146.6	98.2		146.1	101.8	284.6	219.8	165.6	153.9	107.1		
Dissolved oxygen	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	6.74	6.82	6.64	6.32	6.78		6.61	6.04	6.62	6.41	6.72	6.97	7.03		
pH		NG	NG	5.0 - 9.5 ^{3.1}	NG	5.0 - 9.5 ^{5.1}	NG	NG	NG	NG	NG	NG	7.19	7.16	7.18	7.17	7.17		7.13	7.12	7.10	7.08	7.11	7.14	7.05		
Salinity		NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG															
Total dissolved solids	mg/L	NG	NG	NG	1000 ^{4.1}	NG	500 ^{6.2}	NG	NG	NG	NG	NG	741.0	715.0	676.0	682.5	682.5		734.5	812.5	812.5	773.5	721.5	747.5	760.5		
Temperature	°C	NG	NG	NG	N ^{3.2}	NG	N ^{5.2}	NG	NG	15	NG	NG	11.7	11.5	12.9	12.8	11.8		12.9	12.4	12.0	11.5	12.2	12.1	11.4		
Turbidity	NTU	NG	NG	NG	N ^{3.3}	NG	N ^{5.3}	NG	N ^{7.1}	NG	NG	NG	1.84	0.68	0.69	1.26	0.22		0.32	0.25	0.77	0.66	0.64	0.91	1.69		
Volume Purged	L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG															
Lab Results																											
Dissolved Metals																											
Aluminum (dissolved)	mg/L	NG	NG	5 ^{3.4}	NG	5 ^{5.4}	NG	9.5	NG	5.000	5.000	9.500 ^{11.1}	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0050	<0.0050	<0.0050	<0.0050		
Antimony (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	0.006	NG	NG	NG	0.006	0.0001	0.0002	0.0001	0.0002	<0.0001	<0.0001	<0.0001	0.0001	0.0001	0.0001	0.00011	<0.00020	<0.00020		
Arsenic (dissolved)	mg/L	NG	NG	0.025 ^{3.5}	NG	0.100 ^{5.5}	NG	0.01	NG	0.100	0.025	0.010	0.0012	0.0011	0.0012	0.0012	0.0012	0.0010	0.0012	0.0013	0.0011	0.0012	0.00117	0.00113	0.00118		
Barium (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	1.000	0.064	0.062	0.051	0.061	0.065	0.068	0.056	0.074	0.075	0.068	0.0611	0.0594	0.0611		
Beryllium (dissolved)	mg/L	NG	NG	NG	0.100	NG	0.100	NG	NG	0.100	0.100	0.008	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.00010	<0.00010	<0.00010		
Bismuth (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.00010	<0.00010	<0.00010		
Boron (dissolved)	mg/L	NG	NG	5 ^{3.6}	NG	0.5 ^{5.6}	NG	5.0	NG	0.500 ^{9.1}	5.000	5.000	0.059	0.059	0.055	0.057	0.040	0.053	0.043	0.048	0.048	0.055	0.0508	0.0425	0.0473		
Cadmium (dissolved)	mg/L	NG	NG	NG	0.080 ^{4.2}	NG	0.0051 ^{9.3}	0.005	NG	0.005	0.080	0.005	0.00004	0.00003	0.00003	0.00002	0.00003	0.00004	0.00003	0.00004	0.00004	0.00003	0.000033	0.000032	0.000024		
Calcium (dissolved)	mg/L	NG	NG	NG	1000	NG	NG	NG	NG	NG	1000	NG	109	104	94.3	96.0	88.7	116	103	129	133	119	104	111	114		
Chromium (dissolved)	mg/L	NG	NG	NG	0.050 ^{4.3}	NG	0.0049 ^{5.4}	0.05	NG	0.005 ^{9.2}	0.050 ^{10.1}	0.050 ^{11.2}	0.0038	0.0037	0.0034	0.0040	0.0038	0.0026	0.0031	0.0030	0.0022	0.0034	0.00311	0.00357	0.00311		
Cobalt (dissolved)	mg/L	NG	NG	NG	1	NG	0.050 ^{6.5}	0.001	NG	0.050	1.000	0.001 ^{11.3}	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	0.00007	<0.00005	<0.00005	<0.00005	<0.00010	<0.00010	<0.00010	<0.00010		
Copper (dissolved)	mg/L	NG	NG	0.300 ^{3.7}	NG	0.200 ^{5.7}	NG	2.0 ^{7.2}	1.0	0.200	0.300	1.500 ^{11.4}	0.0037	0.0099	0.0064	0.0040	0.0020	0.0036	0.0015	0.0017	0.0017	0.0025	0.00199	0.00152	0.00128		
Iron (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	NG	0.3	5.000 ^{9.3}	NG	6.500 ^{11.5}	0.018	0.024	<0.010	0.011	0.025	0.030	<0.010	0.012	0.017	0.024	0.011	0.017	0.028		
Lead (dissolved)	mg/L	NG	NG	0.100 ^{3.8}	NG	0.200 ^{5.8}	NG	0.005	NG	0.200	0.100	0.010	0.0002	0.0002	0.0002	0.0002	<0.0001	0.0001	<0.0001	<0.0001	0.0001	<0.0001	<0.00010	<0.00020	<0.00020		
Lithium (dissolved)	mg/L	NG	NG	NG	NG	NG	0.75 ^{6.6}	NG	NG	2.500 ^{5.4}	5.000	0.008	0.0148	0.0154	0.0131	0.0148	0.0098	0.0149	0.0136	0.0164	0.0157	0.0155	0.0152	0.0141	0.0147		
Magnesium (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	79.9	71.5	70.5	71.8	76.0	84.7	77.2	86.1	86.9	77.0	70.7	68.3	72.8		
Manganese (dissolved)	mg/L	NG	NG	NG	NG	NG	0.200	0.12	0.02	0.200 ^{5.5}	NG	1.500 ^{11.6}	0.0011	0.0015	0.0011	0.0011	0.0015	0.0024	0.0007	0.0010	0.0014	0.0016	0.00155	0.00141			
Mercury (dissolved)	mg/L	NG	NG	0.0030 ^{3.9}	NG	0.0020 ^{5.9}	NG	0.001	NG	0.001	0.002	0.001	<0.00002	<0.000005	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.000020	<0.000010	<0.000010	<0.000010		
Molybdenum (dissolved)	mg/L	NG	NG	0.016 ^{3.10}	NG	0.01 ^{3.10}	NG	0.088	NG	0.010 ^{9.6}	0.050	0.250	0.0032	0.0033	0.0031	0.0034	0.0035	0.0030	0.0030	0.0030	0.0039	0.0030	0.00300	0.00297	0.00277		
Nickel (dissolved)	mg/L	NG	NG	NG	1	NG	0.200	0.08	NG	0.200	1.000	0.080	0.0006	0.0006	0.0005	0.0002	0.0006	0.0007	0.0007	0.0007	0.0008	0.0008	0.00074	0.00070	<0.00040		
Selenium (dissolved)	mg/L	NG	NG	0.0300 ^{3.11}	NG	0.010 ^{5.11}	NG	0.01	NG	0.020 ^{9.7}	0.030	0.010	0.0059	0.0059	0.0052	0.0057	0.0059	0.0060	0.0051	0.0070	0.0063	0.00523	0.00507	0.00587			
Silicon (dissolved, as Si)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	12.8	11.9	11.3	12.0	11.6	11.5	9.5	11.9	11.5	11.9	11.8	10.4	11.2		
Silver (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	0.020	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.000050	<0.000050	<0.000050	<0.000050		
Sodium (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	200 ^{11.7}	41.2	40.4	39.5	41.6	42.8	40.1	39.5	42.9	42.0	37.5	36.0	35.3	37.1		
Strontium (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	7.0	NG	NG	NG	2.500	1.20	1.12	1.00	1.09	1.02	1.25	1.08	1.34	1.35	1.22	1.14	1.10	1.17		
Sulphur (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG															

Keremeos Transfer Station
Water Quality Results

Sampling Location													848 El Rancho Rd.	848 El Rancho Rd.	848 El Rancho Rd.	848 El Rancho Rd.	848 El Rancho Rd.	848 El Rancho Rd.	848 El Rancho Rd.	848 El Rancho Rd.	848 El Rancho Rd.	848 El Rancho Rd.	848 El Rancho Rd.	848 El Rancho Rd.	848 El Rancho Rd.	848 El Rancho Rd.
Date Sampled													10-Dec-14	25-Mar-15	25-Jun-15	16-Sep-15	02-Dec-15	04-Apr-16	28-Jun-16	29-Sep-16	30-Nov-16	20-Mar-17	19-Jun-17	02-Nov-17	21-Mar-18	
Lab Sample ID													4120699-02	5031682-01	5061984-01	5091412-01	5120272-06	6040225-01	6062443-01	6092235-01	6120048-01	7031414-01	7061772-01	7110388-04	8031760-01	
Sample Type													Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	
Analyte	Unit	Guideline											CSR DW													
		GCDWQ MAC	GCDWQ AO & O	BCAWQG L	BCWWQG L	BCAWQG I	BCWWQG I	BC SDWQG MAC	BC SDWQG AO	CSR IW	CSR LW															
Hardness (as CaCO3), dissolved	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	601	554	526	535	534	638	574	676	689	614	552	559	585	
Hardness (as CaCO3), from total Ca/Mg	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	647	604	541											
pH		NG	NG	5.0 - 9.5 ^{3.15}	NG	5.0 - 9.5 ^{5.14}	NG	NG	NG	NG	NG	NG	7.83	7.80	7.74	7.78	7.81	7.80	7.79	7.79	7.71	7.78	7.24	7.75	7.86	
Sulphate	mg/L	NG	NG	1000	1000 ^{4.4}	NG	NG	NG	500	NG	1000	500 ^{11.10}	249	215	205	192	223	325	249	276	283	268	237	245	256	
Microbiological																										
Total coliforms (counts)	CFU/100 mL	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	<1	<1			<1				<1			<1		
Total coliforms (MPN)	MPN/100 mL	NG	NG	NG	NG	NG ^{5.15}	NG	NG	NG	NG	NG	NG														
E. coli (counts)	CFU/100 mL	NG	NG	200 ^{3.16}	NG	385 ^{5.15}	NG	10 ^{7.3}	NG	NG	NG	NG	<1	<1			<1				<1			<1		
E. coli (MPN)	MPN/100 mL	NG	NG	200 ^{3.17}	NG	385 ^{5.16}	NG	10 ^{7.4}	NG	NG	NG	NG														
Heterotrophic plate count (counts)	CFU/mL	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG														
Heterotrophic plate count (MPN)	MPN/mL	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG														
Nutrients																										
Ammonia (total, as N)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	<0.020	0.023	<0.020	<0.020	<0.020	<0.020	0.027	0.025	0.043	<0.020	0.032	0.031		
Nitrate (as N)	mg/L	NG	NG	100 ^{3.18}	NG	NG	NG	10	NG	NG	100 ^{10.3}	10 ^{11.11}	3.36	4.20	3.75	2.71	3.33	4.55	4.70	3.65	3.86	4.40	4.42	3.90	4.78	
Nitrate + Nitrite (as N)	mg/L	NG	NG	100 ^{3.19}	NG	NG	NG	NG	NG	NG	100 ^{10.4}	10 ^{11.12}	3.36	4.20	3.75	2.71	3.33	4.55	4.70	3.65	3.86	4.4	4.42	3.90	4.78	
Nitrate + Nitrite (as N) (calculated)	mg/L	NG	NG	100 ^{3.20}	NG	NG	NG	NG	NG	NG	100 ^{10.5}	10 ^{11.13}	3.36	4.20	3.75	2.71	3.33	4.55	4.70	3.65	3.86	4.40	4.42	3.90	4.78	
Nitrite (as N)	mg/L	NG	NG	10 ^{3.21}	NG	NG	NG	1.0	NG	NG	10.000	1	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	
Total nitrogen	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	3.46	4.31	3.94											
Total kjeldahl nitrogen	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	0.10	0.11	0.19											
Phosphorus (dissolved, by ICPMS/ICPOES)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	N ^{8.1}	NG	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.050	<0.050	<0.050		
Phosphorus (total, by ICPMS/ICPOES)	mg/L	NG	NG	NG	NG	NG	NG	N ^{8.2}	NG	NG	NG	NG	0.024	<0.020	<0.02			<0.02			<0.02			<0.050		
Potassium (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	4.57	4.31	4.26	4.60	4.61	4.48	4.50	4.98	4.99	4.74	4.38	4.18	4.38	
Potassium (total)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	4.80	4.59	4.28			4.53				5.03			4.28	
Total Metals																										
Aluminum (total)	mg/L	NG	NG	5 ^{3.22}	NG	5 ^{5.17}	NG	9.5	NG	NG	NG	9.500 ^{11.14}	<0.005	<0.005	<0.005			<0.005			<0.005				0.0067	
Antimony (total)	mg/L	NG	NG	NG	NG	NG	NG	0.006	NG	NG	NG	0.006	0.0005	0.0002	0.0002			<0.0001			0.0001			<0.00020		
Arsenic (total)	mg/L	NG	NG	0.025 ^{3.23}	NG	0.100 ^{5.18}	NG	0.01	NG	NG	NG	0.010	0.0013	0.0013	0.0013			0.0011			0.0015			0.00138		
Barium (total)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	1.000	0.074	0.063	0.054			0.069			0.079			0.0691		
Beryllium (total)	mg/L	NG	NG	NG	0.100	NG	0.100	NG	NG	NG	NG	0.008	<0.0001	<0.0001	<0.0001			<0.0001			<0.0001			<0.00010		
Bismuth (total)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	<0.0001	<0.0001	<0.0001			<0.0001			<0.0001			<0.00010		
Boron (total)	mg/L	NG	NG	5	NG	0.5 ^{5.19}	NG	5.0	NG	NG	NG	5.000	0.060	0.076	0.055			0.058			0.058			0.0496		
Cadmium (total)	mg/L	NG	NG	NG	0.080 ^{4.5}	NG	0.0051 ^{5.8}	0.005	NG	NG	NG	0.005	0.00004	0.00005	0.00003			0.00004			0.00004			0.000035		
Calcium (total)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	124	103	97.9			131			122			117		
Chromium (total)	mg/L	NG	NG	NG	0.050 ^{4.6}	NG	0.0049 ^{8.9}	0.05	NG	NG	NG	0.050 ^{11.15}	0.0040	0.0033	0.0037			0.0029			0.0038			0.00350		
Cobalt (total)	mg/L	NG	NG	NG	1	NG	0.050 ^{6.10}	0.001	NG	NG	NG	0.001 ^{11.16}	<0.00005	<0.00005	<0.00005			<0.00005			<0.00005			<0.00010		
Copper (total)	mg/L	NG	NG	0.300	NG	0.200 ^{5.20}	NG	2.0 ^{7.5}	1.0	NG	NG	1.500 ^{11.17}	0.0038	0.0133	0.0056			0.0036			0.0031			0.00437		
Iron (total)	mg/L	NG	NG	NG	NG	NG	NG	NG	0.3	NG	NG	6.500 ^{11.18}	0.05	0.11	0.07			0.11			0.16			0.265		
Lead (total)	mg/L	NG	NG	0.100	NG	0.200 ^{5.21}	NG	0.005	NG	NG	NG	0.010	0.0002	0.0003	0.0002			0.0001			0.0001			<0.00020		
Lithium (total)	mg/L	NG	NG	NG	NG	NG	0.75 ^{6.11}	NG	NG	NG	NG	0.008	0.0167	0.0149	0.0136			0.0155			0.0163			0.0170		
Magnesium (total)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	81.8	84.0	72.0			85.9			88.7			75.0		
Manganese (total)	mg/L	NG	NG	NG	NG	NG	0.200	0.12	0.02	NG	NG	1.500 ^{11.19}	0.0011	0.0026	0.0016			0.0032			0.0023			0.00608		
Mercury (total)	mg/L	NG	NG	0.0030	NG	0.0020	NG	0.001	NG	NG	NG	0.001	<0.00002	<0.000005	<0.00002			<0.00002			<0.00002			<0.000010		
Molybdenum (total)	mg/L	NG	NG	0.016 ^{3.24}	NG	0.01 ^{5.22}	NG	0.088	NG	NG	NG	0.250	0.0034	0.0034	0.0038			0.0030			0.0035			0.00300		
Nickel (total)	mg/L	NG	NG	NG	1	NG	0.200	0.08	NG	NG	NG	0.080	0.0007	0.0006	0.0005			0.0007			0.0009			0.00090		
Selenium (total)	mg/L	NG	NG	0.0300 ^{3.25}	NG	0.010 ^{5.23}	NG	0.01	NG	NG	NG	0.010	0.0069	0.0062	0.0056			0.0065			0.0065			0.00627		
Silicon (total, as Si)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	12.8	13.0	11.3			11.1			12.9			11.9		
Silver (total)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	0.020	<0.00005	<0.00005	<0.00005											

Keremeos Transfer Station
Water Quality Results

													Sampling Location					848 El Rancho Rd. 04-Jul-18 8070394-03 Normal	848 El Rancho Rd. 23-Jun-18 8111948-02 Normal	848 El Rancho Rd. 10-Apr-19 9041131-01 Normal	848 El Rancho Rd. 17-Jul-19 9071916-02 Normal	848 El Rancho Rd. 12-Nov-19 N001627-02 Normal	848 El Rancho Rd. 12-Nov-19 N001627-03 Duplicate	848 El Rancho Rd. 12-Nov-19 N001627-04 Duplicate	848 El Rancho Rd. 23-Jun-20 0062445-01 Normal	848 El Rancho Rd. 09-Nov-20 20K1136-01 Normal	848 El Rancho Rd. 09-Nov-20 20K1136-02 Duplicate	848 El Rancho Rd. 09-Nov-20 20K1136-03 Duplicate	848 El Rancho Rd. 12-Apr-21 21D1235-01 Normal	848 El Rancho Rd. 24-Jun-21 21F3506-01 Normal	
													Date Sampled	Lab Sample ID	Sample Type																
Analyte	Unit	Guideline											CSR DW																		
		OCDDWQ MAC	GCDWQ AO & O	BCAWQG L	BCWWQG L	BCAWQG I	BCWWQG I	BC SDWQG MAC	BC SDWQG AO	CSR IW	CSR LW																				
Field Results																															
Conductivity	µS/cm	NG	NG	NG	NG	NG	700 ^{6.1}	NG	NG	NG	NG	NG	902	1706	1381	1309	1267			1030	965				1136	1010					
Depth to Water (below top of casing)	m	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG																			
Oxidation reduction potential	mV	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	100.9	144.0	106.3	141.1	155.2			80.4	50.4				56.7	77.4					
Dissolved oxygen	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	6.92	6.62	7.74	8.23	6.54			6.78	6.48				6.87	6.47					
pH		NG	NG	5.0 - 9.5 ^{3.1}	NG	5.0 - 9.5 ^{5.1}	NG	NG	NG	NG	NG	NG	7.19	7.12	6.98	7.03	7.07			7.27	7.23				7.20	7.23					
Salinity		NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG																			
Total dissolved solids	mg/L	NG	NG	NG	1000 ^{4.1}	NG	500 ^{6.2}	NG	NG	NG	NG	NG	585.0	1111.5	897.0	851.5	825.5			669.5	630.5				741.0	656.5					
Temperature	°C	NG	NG	NG	N ^{3.2}	NG	N ^{5.2}	NG	NG	15	NG	NG	12.5	11.8	11.6	12.4	12.0			12.6	12.0				11.8	12.5					
Turbidity	NTU	NG	NG	NG	N ^{3.3}	NG	N ^{5.3}	NG	N ^{7.1}	NG	NG	NG	0.50	1.33	6.62	0.85	0.18			0.77	3.24				0.43	1.00					
Volume Purged	L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG																			
Lab Results																															
Dissolved Metals																															
Aluminum (dissolved)	mg/L	NG	NG	5 ^{3.4}	NG	5 ^{5.4}	NG	9.5	NG	5.000	5.000	9.500 ^{11.1}	<0.0050	<0.0050	<0.0050	0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0082					
Antimony (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	0.006	NG	NG	NG	0.006	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020						
Arsenic (dissolved)	mg/L	NG	NG	0.025 ^{3.5}	NG	0.100 ^{5.5}	NG	0.01	NG	0.100	0.025	0.010	0.00131	0.00133	0.00108	0.00104	0.00113	0.00109	0.00114	0.00098	0.00116	0.00180	0.00164	0.00083	0.00146						
Barium (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	1.000	0.0493	0.0919	0.0798	0.0749	0.0708	0.0701	0.0712	0.0567	0.0437	0.0433	0.0424	0.0629	0.0540						
Beryllium (dissolved)	mg/L	NG	NG	NG	0.100	NG	0.100	NG	NG	0.100	0.100	0.008	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010						
Bismuth (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010						
Boron (dissolved)	mg/L	NG	NG	5 ^{3.6}	NG	0.5 ^{5.6}	NG	5.0	NG	0.500 ^{9.1}	5.000	5.000	0.0400	0.0527	0.0662	0.0514	0.0391	0.0413	0.0433	0.0517	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500						
Cadmium (dissolved)	mg/L	NG	NG	NG	0.080 ^{4.2}	NG	0.0051 ^{9.3}	0.005	NG	0.005	0.080	0.005	0.000025	0.000063	0.000052	0.000050	0.000036	0.000041	0.000034	0.000027	0.000040	<0.000010	0.000028	0.000019	0.000025						
Calcium (dissolved)	mg/L	NG	NG	NG	1000	NG	NG	NG	NG	NG	1000	NG	87.2	176	127	111	111	110	111	89.5	82.5	82.3	86.1	104	111						
Chromium (dissolved)	mg/L	NG	NG	NG	0.050 ^{4.3}	NG	0.0049 ^{5.4}	0.05	NG	0.005 ^{9.2}	0.050 ^{10.1}	0.050 ^{11.2}	0.00395	0.00286	0.00340	0.00407	0.00426	0.00409	0.00412	0.00300	0.00352	0.00353	0.00378	0.00354	0.00423						
Cobalt (dissolved)	mg/L	NG	NG	NG	1	NG	0.050 ^{6.5}	0.001	NG	0.050	1.000	0.001 ^{11.3}	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010						
Copper (dissolved)	mg/L	NG	NG	0.300 ^{3.7}	NG	0.200 ^{5.7}	NG	2.0 ^{7.2}	1.0	0.200	0.300	1.500 ^{11.4}	0.00142	0.00202	0.00238	0.00189	0.00237	0.00241	0.00239	0.00524	0.00367	0.0216	0.00344	0.00168	0.00153						
Iron (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	NG	0.3	5.000 ^{9.3}	NG	6.500 ^{11.5}	0.016	0.037	0.062	0.022	0.030	0.029	0.029	0.019	0.013	0.014	0.016	0.030	<0.010						
Lead (dissolved)	mg/L	NG	NG	0.100 ^{3.8}	NG	0.200 ^{5.8}	NG	0.005	NG	0.200	0.100	0.010	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	0.00146	<0.00020	<0.00020	<0.00020	<0.00020						
Lithium (dissolved)	mg/L	NG	NG	NG	NG	NG	0.75 ^{6.6}	NG	NG	2.500 ^{9.4}	5.000	0.008	0.0113	0.0180	0.0178	0.0157	0.0143	0.0146	0.0145	0.0152	0.0161	0.0160	0.0165	0.0157	0.0177						
Magnesium (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	53.9	116	91.2	82.8	82.1	82.2	82.7	65.4	64.6	65.0	69.9	76.8	77.1						
Manganese (dissolved)	mg/L	NG	NG	NG	NG	NG	0.200	0.12	0.02	0.200 ^{9.5}	NG	1.500 ^{11.6}	0.00139	0.00199	0.00439	0.00201	0.00202	0.00190	0.00197	0.00274	0.00112	0.00099	0.00099	0.00176	0.00091						
Mercury (dissolved)	mg/L	NG	NG	0.0030 ^{3.9}	NG	0.0020 ^{5.9}	NG	0.001	NG	0.001	0.002	0.001	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010						
Molybdenum (dissolved)	mg/L	NG	NG	0.016 ^{3.10}	NG	0.01 ^{5.10}	NG	0.088	NG	0.010 ^{9.8}	0.050	0.250	0.00331	0.00281	0.00277	0.00294	0.00267	0.00266	0.00271	0.00299	0.00271	0.00265	0.00246	0.00319	0.00333						
Nickel (dissolved)	mg/L	NG	NG	NG	1	NG	0.200	0.08	NG	0.200	1.000	0.080	0.00056	0.00237	0.00144	0.00162	0.00170	0.00166	0.00102	0.00095	0.00068	0.00097	0.00411	0.00108							
Selenium (dissolved)	mg/L	NG	NG	0.0300 ^{3.11}	NG	0.010 ^{5.11}	NG	0.01	NG	0.020 ^{9.7}	0.030	0.010	0.00290	0.00530	0.00518	0.00609	0.00495	0.00494	0.00468	0.00341	0.00377	0.00398	0.00354	0.00519	0.00373						
Silicon (dissolved, as Si)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	11.1	12.9	11.3	12.2	13.1	13.1	13.0	10.7	12.7	12.5	13.6	12.1	12.3						
Silver (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	0.020	<0.000050	<0.000050	0.000057	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050							
Sodium (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	200 ^{11.7}	31.5	43.9	40.7	36.0	36.2	36.5	36.6	36.3	36.3	36.9	38.9	38.7	40.7						
Strontium (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	7.0	NG	NG	NG	2.500																			

Keremeos Transfer Station
Water Quality Results

Sampling Location													848 El Rancho Rd.	848 El Rancho Rd.	848 El Rancho Rd.	848 El Rancho Rd.	848 El Rancho Rd.	848 El Rancho Rd.	848 El Rancho Rd.	848 El Rancho Rd.	848 El Rancho Rd.	848 El Rancho Rd.	848 El Rancho Rd.	848 El Rancho Rd.	848 El Rancho Rd.	848 El Rancho Rd.	848 El Rancho Rd.
Date Sampled													04-Jul-18	23-Nov-18	10-Apr-19	17-Jul-19	12-Nov-19	12-Nov-19	12-Nov-19	12-Nov-19	23-Jun-20	09-Nov-20	09-Nov-20	09-Nov-20	09-Nov-20	12-Apr-21	24-Jun-21
Lab Sample ID													8070394-03	8111948-02	9041131-01	9071916-02	N001627-02	N001627-03	N001627-04	0062445-01	20K1136-01	20K1136-02	20K1136-03	20K1136-03	21D1235-01	21F3506-01	
Sample Type													Normal	Normal	Normal	Normal	Normal	Normal	Duplicate	Duplicate	Normal	Normal	Duplicate	Duplicate	Normal	Normal	
Analyte	Unit	Guideline																									
		GCDWQ MAC	GCDWQ AO & O	BCAWQG L	BCWWQG L	BCAWQG I	BCWWQG I	BC SDWQG MAC	BC SDWQG AO	CSR IW	CSR LW	CSR DW															
Hardness (as CaCO3), dissolved	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	440	917	694	619	615	612	618	493	472	473	503	576	594		
Hardness (as CaCO3), from total Ca/Mg	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG															
pH		NG	NG	5.0 - 9.5 ^{3,15}	NG	5.0 - 9.5 ^{5,14}	NG	NG	NG	NG	NG	NG	7.63	7.82	7.89	7.85	7.90	7.85	8.03	7.93	8.08	8.01	8.02	7.85	7.90		
Sulphate	mg/L	NG	NG	1000	1000 ^{4,4}	NG	NG	NG	500	NG	1000	500 ^{11,10}	167	469	434	337	307	312	317	203	192	190	190	265	210		
Microbiological																											
Total coliforms (counts)	CFU/100 mL	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG			<1									<1			
Total coliforms (MPN)	MPN/100 mL	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG							<1.0								
E. coli (counts)	CFU/100 mL	NG	NG	200 ^{3,16}	NG	385 ^{5,15}	NG	10 ^{7,3}	NG	NG	NG	NG			<1									<1			
E. coli (MPN)	MPN/100 mL	NG	NG	200 ^{3,17}	NG	385 ^{5,16}	NG	10 ^{7,4}	NG	NG	NG	NG							<1.0								
Heterotrophic plate count (counts)	CFU/mL	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG															
Heterotrophic plate count (MPN)	MPN/mL	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG															
Nutrients																											
Ammonia (total, as N)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	0.037	0.020	<0.020	0.061	0.075	0.084	0.076	0.120	<0.050	<0.050	<0.050	<0.050	<0.050		
Nitrate (as N)	mg/L	NG	NG	100 ^{3,18}	NG	NG	NG	10	NG	NG	100 ^{10,3}	10 ^{11,11}	2.61	4.22	4.61	4.24	4.56	4.52	4.49	3.84	3.60	3.58	3.53	5.51	3.83		
Nitrate + Nitrite (as N)	mg/L	NG	NG	100 ^{3,19}	NG	NG	NG	NG	NG	NG	100 ^{10,4}	10 ^{11,12}	2.61	4.22	4.61	4.24	4.56	4.52	4.49	3.84	3.60	3.58	3.53	5.51	3.83		
Nitrate + Nitrite (as N) (calculated)	mg/L	NG	NG	100 ^{3,20}	NG	NG	NG	NG	NG	NG	100 ^{10,5}	10 ^{11,13}	2.61	4.22	4.61	4.24	4.56	4.52	4.49	3.84	3.60	3.58	3.53	5.51	3.83		
Nitrite (as N)	mg/L	NG	NG	10 ^{3,21}	NG	NG	NG	1.0	NG	NG	10.000	1	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010		
Total nitrogen	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG															
Total kjeldahl nitrogen	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG															
Phosphorus (dissolved, by ICPMS/ICPOES)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	N ^{4,1}	NG	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.096	<0.050	<0.050			
Phosphorus (total, by ICPMS/ICPOES)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	N ^{4,2}	NG			<0.050				<0.050				<0.050				
Potassium (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	4.30	5.38	4.52	4.20	4.31	4.30	4.31	3.97	3.84	3.96	4.24	4.31	4.63		
Potassium (total)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG			5.01				3.68					4.31			
Total Metals																											
Aluminum (total)	mg/L	NG	NG	5 ^{3,22}	NG	5 ^{5,17}	NG	9.5	NG	NG	NG	9.500 ^{11,14}			<0.0050				<0.0050					<0.0050			
Antimony (total)	mg/L	NG	NG	NG	NG	NG	NG	0.006	NG	NG	NG	0.006			<0.00020				<0.00020					<0.00020			
Arsenic (total)	mg/L	NG	NG	0.025 ^{3,23}	NG	0.100 ^{5,18}	NG	0.01	NG	NG	NG	0.010			0.00114				0.00108					0.00126			
Barium (total)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	1.000			0.0812				0.0578					0.0642			
Beryllium (total)	mg/L	NG	NG	NG	0.100	NG	0.100	NG	NG	NG	NG	0.008			<0.00010				<0.00010					<0.00010			
Bismuth (total)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG			<0.00010				<0.00010					<0.00010			
Boron (total)	mg/L	NG	NG	5	NG	0.5 ^{5,19}	NG	5.0	NG	NG	NG	5.000			0.0526				0.0537					<0.0500			
Cadmium (total)	mg/L	NG	NG	NG	0.080 ^{4,5}	NG	0.0051 ^{6,8}	0.005	NG	NG	NG	0.005			0.000053				0.000027					0.000038			
Calcium (total)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG			136				92.4					103			
Chromium (total)	mg/L	NG	NG	NG	0.050 ^{4,6}	NG	0.0049 ^{6,9}	0.05	NG	NG	NG	0.050 ^{11,15}			0.00364				0.00311					0.00354			
Cobalt (total)	mg/L	NG	NG	NG	1	NG	0.050 ^{6,10}	0.001	NG	NG	NG	0.001 ^{11,16}			<0.00010				<0.00010					<0.00010			
Copper (total)	mg/L	NG	NG	0.300	NG	0.200 ^{5,20}	NG	2.0 ^{7,5}	1.0	NG	NG	1.500 ^{11,17}			0.00305				0.00429					0.00212			
Iron (total)	mg/L	NG	NG	NG	NG	NG	NG	NG	0.3	NG	NG	6.500 ^{11,18}			0.061				0.083					0.092			
Lead (total)	mg/L	NG	NG	0.100	NG	0.200 ^{5,21}	NG	0.005	NG	NG	NG	0.010			<0.00020				<0.00020					<0.00020			
Lithium (total)	mg/L	NG	NG	NG	NG	NG	0.75 ^{6,11}	NG	NG	NG	NG	0.008			0.0186				0.0146					0.0160			
Magnesium (total)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG			100				67.7					78.3			
Manganese (total)	mg/L	NG	NG	NG	NG	NG	0.200	0.12	0.02	NG	NG	1.500 ^{11,19}			0.00274				0.00362					0.00257			
Mercury (total)	mg/L	NG	NG	0.0030	NG	0.0020	NG	0.001	NG	NG	NG	0.001			<0.000010				<0.000010					<0.000010			
Molybdenum (total)	mg/L	NG	NG	0.016 ^{3,24}	NG	0.01 ^{5,22}	NG	0.088	NG	NG	NG	0.250			0.00280				0.00291					0.00334			
Nickel (total)	mg/L	NG	NG	NG	1	NG	0.200	0.08	NG	NG	NG	0.080			0.00148				0.00100					0.00109			
Selenium (total)	mg/L	NG	NG	0.0300 ^{3,25}	NG	0.010 ^{5,23}	NG	0.01	NG	NG	NG	0.010			0.00513				0.00407					0.00507			
Silicon (total, as Si)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG			11.6				10.3					12.4			
Silver (total)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	0.020			<0.000050				<0.000050					<0.000050			
Sodium (total)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	200 ^{11,20}			46.5				39.6					38.5			
Strontium (total)	mg/L	NG	NG	NG	NG	NG	NG	7.0	NG	NG	NG	2.500			1.53				1.00					1.12			
Sulphur (total)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG			139				75.5					91.3			
Tellurium (total)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG			<0.00050				<0.00050					<			



Keremeos Transfer Station
Water Quality Results

													Sampling Location		848 El Rancho Rd. 27-Oct-21 21J3945-01 Normal	848 El Rancho Rd. 18-May-22 22E2753-01 Normal	848 El Rancho Rd. 03-Aug-22 22H0575-04 Normal	848 El Rancho Rd. 16-Nov-22 22K2135-05 Normal	848 El Rancho Rd. 19-Apr-23 23D2160-01 Normal	848 El Rancho Rd. 13-Jul-23 23G1841-04 Normal	848 El Rancho Rd. 08-Nov-23 23K1346-04 Normal	848 El Rancho Rd. 06-May-24 24E1373-01 Normal	848 El Rancho Rd. 14-May-24 24E2029-01 Normal	848 El Rancho Rd. 22-Jul-24 24G2913-01 Normal	848 El Rancho Rd. 12-Nov-24 24K1649-01 Normal	848 El Rancho Rd. 10-Apr-25 25D1649-01 Normal	848 El Rancho Rd. 22-Jul-25 25G3327-01 Normal		
													Date Sampled	Lab Sample ID	Sample Type														
Analyte	Unit	Guideline											CSR DW																
		GCDWQ MAC	GCDWQ AO & O	BCAWQG L	BCWWQG L	BCAWQG I	BCWWQG I	BC SDWQG MAC	BC SDWQG AO	CSR IW	CSR LW																		
Field Results																													
Conductivity	µS/cm	NG	NG	NG	NG	NG	700 ^{6.1}	NG	NG	NG	NG	NG	1129	1024	986	1149	1146	1057	1080	1096		1001	1184	1162	1112				
Depth to Water (below top of casing)	m	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG																	
Oxidation reduction potential	mV	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	61.4	85.5	97.4	73.3	131.4	103.8	64.7	281.5		282.3	275.5	130.1	197.7				
Dissolved oxygen	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	6.76	7.09	6.69	6.09	6.74	5.88	6.81	6.53		6.30	6.93	6.64	6.95				
pH		NG	NG	5.0 - 9.5 ^{3.1}	NG	5.0 - 9.5 ^{5.1}	NG	NG	NG	NG	NG	NG	7.13	7.29	7.37	7.26	7.21	7.32	7.19	7.34		7.60	7.29	7.41	7.43				
Salinity		NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG																	
Total dissolved solids	mg/L	NG	NG	NG	1000 ^{4.1}	NG	500 ^{6.2}	NG	NG	NG	NG	NG	734.5	663.0	643.5	747.5	747.5	689.0	702.0	715.0		650.0	767.0	754.0	722				
Temperature	°C	NG	NG	N ^{3.2}	NG	N ^{5.2}	NG	NG	15	NG	NG	NG	12.5	12.1	13.4	11.8	11.8	13.0	12.0	11.9		12.7	21.1	11.7	12.7				
Turbidity	NTU	NG	NG	N ^{3.3}	NG	N ^{5.3}	NG	N ^{7.1}	NG	NG	NG	NG	0.43	0.15	0.44	0.61	0.19	0.46	0.26	0.35		0.11	0.06	0.17	0.10				
Volume Purged	L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG																	
Lab Results																													
Dissolved Metals																													
Aluminum (dissolved)	mg/L	NG	NG	5 ^{3.4}	NG	5 ^{5.4}	NG	9.5	NG	5.000	5.000	9.500 ^{11.1}	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050		<0.0050	<0.0050	<0.0050	<0.0050				
Antimony (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	0.006	NG	NG	NG	0.006	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020		<0.00020	<0.00020	<0.00020	<0.00020				
Arsenic (dissolved)	mg/L	NG	NG	0.025 ^{3.5}	NG	0.100 ^{5.5}	NG	0.01	NG	0.100	0.025	0.010	0.00135	0.00113	0.00111	0.00121	0.00118	0.00128	0.00132	0.00125		0.00127	0.00122	0.00123	0.00123				
Barium (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	1.000	0.0532	0.0524	0.0498	0.0611	0.0622	0.0567	0.0608	0.0630		0.0539	0.0662	0.0644	0.0608				
Beryllium (dissolved)	mg/L	NG	NG	NG	0.100	NG	0.100	NG	NG	0.100	0.100	0.008	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010		<0.00010	<0.00010	<0.00010	<0.00010				
Bismuth (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010		<0.00010	<0.00010	<0.00010	<0.00010				
Boron (dissolved)	mg/L	NG	NG	5 ^{3.6}	NG	0.5 ^{5.6}	NG	5.0	NG	0.500 ^{9.1}	5.000	5.000	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500		<0.0500	<0.0500	<0.0500	<0.0500				
Cadmium (dissolved)	mg/L	NG	NG	NG	0.080 ^{4.2}	NG	0.0051 ^{9.3}	0.005	NG	0.005	0.080	0.005	0.000041	0.000028	0.000029	0.000036	0.000029	0.000031	0.000034	0.000033		0.000031	0.000033	0.000036	0.000035				
Calcium (dissolved)	mg/L	NG	NG	NG	1000	NG	NG	NG	NG	NG	1000	NG	97.8	86.9	94.4	91.1	103	91.4	110	103		102	118	104	115				
Chromium (dissolved)	mg/L	NG	NG	NG	0.050 ^{4.3}	NG	0.0049 ^{9.4}	0.05	NG	0.005 ^{9.2}	0.050 ^{10.1}	0.050 ^{11.2}	0.00287	0.00307	0.00291	0.00324	0.00289	0.00273	0.00301	0.00285		0.00270	0.00278	0.00283	0.00268				
Cobalt (dissolved)	mg/L	NG	NG	NG	1	NG	0.050 ^{6.5}	0.001	NG	0.050	1.000	0.001 ^{11.3}	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010		<0.00010	<0.00010	<0.00010	<0.00010				
Copper (dissolved)	mg/L	NG	NG	0.300 ^{3.7}	NG	0.200 ^{5.7}	NG	2.0 ^{7.2}	1.0	0.200	0.300	1.500 ^{11.4}	0.00157	0.00128	0.00101	0.00157	0.00376	0.00145	0.00240	0.00219		0.00134	0.00287	0.00206	0.00327				
Iron (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	NG	0.3	5.000 ^{9.3}	NG	6.500 ^{11.5}	0.017	0.013	<0.010	0.020	0.015	<0.010	<0.010	<0.010		<0.010	<0.010	0.011	<0.010				
Lead (dissolved)	mg/L	NG	NG	0.100 ^{3.8}	NG	0.200 ^{5.8}	NG	0.005	NG	0.200	0.100	0.010	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020		<0.00020	<0.00020	<0.00020	<0.00020				
Lithium (dissolved)	mg/L	NG	NG	NG	NG	NG	0.75 ^{6.6}	NG	NG	2.500 ^{9.4}	5.000	0.008	0.0141	0.0139	0.0133	0.0156	0.0159	0.0136	0.0145	0.0150		0.0134	0.0152	0.0173	0.0158				
Magnesium (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	70.5	61.7	60.0	88.2	82.9	68.9	73.0	76.6		67.5	80.5	83.1	80.6				
Manganese (dissolved)	mg/L	NG	NG	NG	NG	NG	0.200	0.12	0.02	0.200 ^{9.5}	NG	1.500 ^{11.6}	0.00321	0.00120	0.00083	0.00274	0.00151	0.00047	0.00064	0.00063		0.00048	0.00070	0.00094	0.00037				
Mercury (dissolved)	mg/L	NG	NG	0.0030 ^{3.9}	NG	0.0020 ^{5.9}	NG	0.001	NG	0.001	0.002	0.001	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010		<0.00010	<0.00010	<0.00010	<0.00010				
Molybdenum (dissolved)	mg/L	NG	NG	0.016 ^{3.10}	NG	0.01 ^{3.10}	NG	0.088	NG	0.010 ^{9.6}	0.050	0.250	0.00299	0.00299	0.00272	0.00309	0.00300	0.00264	0.00304	0.00280		0.00262	0.00290	0.00286	0.00296				
Nickel (dissolved)	mg/L	NG	NG	NG	1	NG	0.200	0.08	NG	0.200	1.000	0.080	0.00101	0.00078	0.00071	0.00085	0.00081	0.00083	0.00093	0.00093		0.00074	0.00114	0.00114	0.00095				
Selenium (dissolved)	mg/L	NG	NG	0.0300 ^{3.11}	NG	0.010 ^{9.11}	NG	0.01	NG	0.020 ^{9.7}	0.030	0.010	0.00468	0.00427	0.00376	0.00609	0.00562	0.00452	0.00462	0.00538		0.00459	0.00630	0.00612	0.00582				
Silicon (dissolved, as Si)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	10.3	9.7	10.8	11.9	11.1	10.8	11.3	11.0		11.2	11.8	11.4	12.9				
Silver (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	0.020	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050		<0.000050	<0.000050	<0.000050	<0.000050				
Sodium (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	200 ^{11.7}	34.3	32.1	31.3	44.0	38.5	32.3	34.4	32.8		30.9	36.1	34.5	33.1				
Strontium (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	7.0	NG	NG	NG	2.500	0.959	1.10	0.978	1.18	1.26	1.16	1.17	1.20		1.03	1.30	1.25	1.15				
Sulphur (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	75.8	69.1	70.2	91.6	86.9	77.1	76.5	82.5		76.3	94.2	83.1	8				

Keremeos Transfer Station
Water Quality Results

Sampling Location													848 El Rancho Rd.	848 El Rancho Rd.	848 El Rancho Rd.	848 El Rancho Rd.	848 El Rancho Rd.	848 El Rancho Rd.	848 El Rancho Rd.	848 El Rancho Rd.	848 El Rancho Rd.	848 El Rancho Rd.	848 El Rancho Rd.	848 El Rancho Rd.	848 El Rancho Rd.	848 El Rancho Rd.	848 El Rancho Rd.	848 El Rancho Rd.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
Date Sampled													27-Oct-21	18-May-22	03-Aug-22	16-Nov-22	19-Apr-23	13-Jul-23	08-Nov-23	06-May-24	14-May-24	22-Jul-24	12-Nov-24	10-Apr-25	22-Jul-25																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
Lab Sample ID													21J3945-01	22E2753-01	22H0575-04	22K2135-05	23D2160-01	23G1841-04	23K1346-04	24E1373-01	24E2029-01	24G2913-01	24K1661-04	25D1649-01	25G3327-01																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
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Keremeos Transfer Station
Water Quality Results

Sampling Location													848 El Rancho Rd.	900 Keremeos Bypass Rd.	900 Keremeos Bypass Rd.	900 Keremeos Bypass Rd.	900 Keremeos Bypass Rd.	900 Keremeos Bypass Rd.	900 Keremeos Bypass Rd.	900 Keremeos Bypass Rd.	900 Keremeos Bypass Rd.	900 Keremeos Bypass Rd.	900 Keremeos Bypass Rd.	900 Keremeos Bypass Rd.	900 Keremeos Bypass Rd.	900 Keremeos Bypass Rd.	900 Keremeos Bypass Rd.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
Date Sampled													28-Oct-25	28-Apr-06	05-Oct-06	30-May-07	29-Aug-07	03-Jul-08	25-Sep-08	10-Jun-09	22-Sep-09	28-Jun-10	23-Jun-11	26-Sep-12	25-Sep-14																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
Lab Sample ID													25J4044-01	1843638	2038324	2306681	2430719	K52863	L83612	P22276	Q90766	V12327	K1F1038-01	2091468-01	4091888-01																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
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Keremeos Transfer Station
Water Quality Results

Sampling Location													848 El Rancho Rd.	900 Keremeos Bypass Rd.	900 Keremeos Bypass Rd.	900 Keremeos Bypass Rd.	900 Keremeos Bypass Rd.	900 Keremeos Bypass Rd.	900 Keremeos Bypass Rd.	900 Keremeos Bypass Rd.	900 Keremeos Bypass Rd.	900 Keremeos Bypass Rd.	900 Keremeos Bypass Rd.	900 Keremeos Bypass Rd.	900 Keremeos Bypass Rd.				
Date Sampled													28-Oct-25	28-Apr-06	05-Oct-06	30-May-07	29-Aug-07	03-Jul-08	25-Sep-08	10-Jun-09	22-Sep-09	28-Jun-10	23-Jun-11	26-Sep-12	25-Sep-14				
Lab Sample ID													25J4044-01	1843638	2038324	2306681	2430719	K52863	L83612	P22276	Q90766	V12327	K1F1038-01	2091468-01	4091888-01				
Sample Type													Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal				
Analyte	Unit	Guideline											Date Sampled	Lab Sample ID	Sample Type														
		GCDWQ MAC	GCDWQ AO & O	BCAWQG L	BCWWQG L	BCAWQG I	BCWWQG I	BC SDWQG MAC	BC SDWQG AO	CSR IW	CSR LW	CSR DW																	
Hardness (as CaCO3), dissolved	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	630				272		271		294		307	298	302	286	250	313	287
Hardness (as CaCO3), from total Ca/Mg	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG					272		271		321					272	268	293	
pH		NG	NG	5.0 - 9.5 ^{3.15}	NG	5.0 - 9.5 ^{5.14}	NG	NG	NG	NG	NG	NG	8.04	7.54	7.45	7.9	7.9	7.9	8.1	8.1	8	7.91	7.94	8.13	7.81				
Sulphate	mg/L	NG	NG	1000	1000 ^{4.4}	NG	NG	NG	500	NG	1000	500 ^{11.10}	262	81	90.4	83	8.6	93	85	96	86	94	85	85.3	83.9				
Microbiological																													
Total coliforms (counts)	CFU/100 mL	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG																	
Total coliforms (MPN)	MPN/100 mL	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG																	
E. coli (counts)	CFU/100 mL	NG	NG	200 ^{3.16}	NG	385 ^{5.15}	NG	10 ^{7.3}	NG	NG	NG	NG																	
E. coli (MPN)	MPN/100 mL	NG	NG	200 ^{3.17}	NG	385 ^{5.16}	NG	10 ^{7.4}	NG	NG	NG	NG																	
Heterotrophic plate count (counts)	CFU/mL	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG																	
Heterotrophic plate count (MPN)	MPN/mL	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG																	
Nutrients																													
Ammonia (total, as N)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	<0.050	<0.05	0.018	0.004	<0.01	<0.005	<0.005	<0.005	<0.005	0.018	<0.02	0.020	<0.020				
Nitrate (as N)	mg/L	NG	NG	100 ^{3.18}	NG	NG	NG	10	NG	NG	100 ^{10.3}	10 ^{11.11}	5.23	1.03	2.13	1	1	1.07	1.11	1.13	1.23	1.17	1.01	1.22	1.12				
Nitrate + Nitrite (as N)	mg/L	NG	NG	100 ^{3.19}	NG	NG	NG	NG	NG	NG	100 ^{10.4}	10 ^{11.12}	5.23					1.07	1.11	1.13	1.23	1.17	1.01	1.22	1.12				
Nitrate + Nitrite (as N) (calculated)	mg/L	NG	NG	100 ^{3.20}	NG	NG	NG	NG	NG	NG	100 ^{10.5}	10 ^{11.13}	5.23	1.03	2.13	1	1	1.07	1.11	1.13	1.23	1.17	1.01	1.22	1.12				
Nitrite (as N)	mg/L	NG	NG	10 ^{3.21}	NG	NG	NG	1.0	NG	NG	10.000	1	<0.010	<0.03	<0.005	<0.05	<0.05	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010	<0.010	<0.010				
Total nitrogen	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG						1.1	1.12	1.21	1.28	1.26	1.01	1.35	1.12				
Total kjeldahl nitrogen	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG					<0.06	<0.06	0.03	<0.02	0.08	0.05	0.14	<0.05					
Phosphorus (dissolved, by ICPMS/ICPOES)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	N ^{8.1}	NG	<0.050																
Phosphorus (total, by ICPMS/ICPOES)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	N ^{8.2}	NG		0.007	0.03	<0.02	<0.02	0.018	0.013				0.03	<0.020	<0.020				
Potassium (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	4.60						3.24										
Potassium (total)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG		3.2	2.9	2.9	2.9	3.4	2.92	3.12	3.05	3.16	2.92	3.16	3.17				
Total Metals																													
Aluminum (total)	mg/L	NG	NG	5 ^{3.22}	NG	5 ^{5.17}	NG	9.5	NG	NG	NG	9.500 ^{11.14}					<0.005	<0.005	<0.01	<0.005	0.004	<0.001	0.004	0.003	<0.003	<0.005	<0.005	<0.005	
Antimony (total)	mg/L	NG	NG	NG	NG	NG	NG	0.006	NG	NG	NG	0.006	<0.0002	<0.0002	<0.0004	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0001	<0.0001				
Arsenic (total)	mg/L	NG	NG	0.025 ^{3.23}	NG	0.100 ^{5.18}	NG	0.01	NG	NG	NG	0.010	0.0016	0.0014	0.002	0.0014	0.0014	0.0014	0.0014	0.0014	0.0015	<0.0005	0.0018	0.0014					
Barium (total)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	1.000	0.035	0.033	0.033	0.035	0.035	0.030	0.036	0.036	0.036	0.036	0.035	0.035					
Beryllium (total)	mg/L	NG	NG	NG	0.100	NG	0.100	NG	NG	NG	NG	0.008	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001				
Bismuth (total)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	<0.0005	<0.0005	<0.001	<0.0005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.0001	<0.0001	<0.0001	<0.0001				
Boron (total)	mg/L	NG	NG	5	NG	0.5 ^{5.19}	NG	5.0	NG	NG	NG	5.000	0.015	0.015	0.027	0.016	<0.050	<0.050	<0.050	<0.050	<0.050	0.018	0.017	0.029					
Cadmium (total)	mg/L	NG	NG	NG	0.080 ^{4.5}	NG	0.0051 ^{9.8}	0.005	NG	NG	NG	0.005	0.00001	<0.00001	<0.00002	<0.00001	0.00002	0.00002	0.00002	0.00003	<0.00001	0.00001	0.00002	0.00002					
Calcium (total)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	88.1	82	81.5	81.9	96.7	84.7	91.3	88.7	91.9	78.6	76.0	86.4					
Chromium (total)	mg/L	NG	NG	NG	0.050 ^{4.6}	NG	0.0049 ^{9.9}	0.05	NG	NG	NG	0.050 ^{11.15}	0.0019	0.0015	0.002	0.0024	0.002	0.002	0.002	0.002	0.002	0.001	0.0025	0.0021	0.0019				
Cobalt (total)	mg/L	NG	NG	NG	1	NG	0.050 ^{6.10}	0.001	NG	NG	NG	0.001 ^{11.16}	<0.0001	<0.0001	<0.0002	<0.0001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.00005	<0.00005	<0.00005	<0.00005				
Copper (total)	mg/L	NG	NG	0.300	NG	0.200 ^{5.20}	NG	2.0 ^{7.5}	1.0	NG	NG	1.500 ^{11.17}	0.002	0.008	<0.002	0.012	0.0014	0.0014	0.0012	0.0006	0.0006	0.0004	0.0044	0.0027					
Iron (total)	mg/L	NG	NG	NG	NG	NG	NG	NG	0.3	NG	NG	6.500 ^{11.18}	<0.1	<0.1	<0.2	<0.1	0.007	0.020	0.007	0.008	<0.005	<0.01	<0.01	<0.01					
Lead (total)	mg/L	NG	NG	0.100	NG	0.200 ^{5.21}	NG	0.005	NG	NG	NG	0.010	0.0007	0.0004	0.001	0.002	0.0007	0.0004	0.0004	0.0004	<0.0002	<0.0002	0.0001	0.0003	0.0002				
Lithium (total)	mg/L	NG	NG	NG	NG	NG	0.75 ^{6.11}	NG	NG	NG	NG	0.008	0.003	0.004	0.004	0.004						0.0036	0.0032	0.0034					
Magnesium (total)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	17	16.5	16	16.7	19.3	17.9	18.7	17.7	19.1	18.3	19.0	18.6					
Manganese (total)	mg/L	NG	NG	NG	NG	NG	0.200	0.12	0.02	NG	NG	1.500 ^{11.19}	<0.005	<0.005	<0.01	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	0.0002	<0.0002	<0.0002					
Mercury (total)	mg/L	NG	NG	0.0030	NG	0.0020	NG	0.001	NG	NG	NG	0.001	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	0.00002	0.00003	<0.00002	<0.00002	<0.00002	<0.00002					
Molybdenum (total)	mg/L	NG	NG	0.016 ^{3.24}	NG	0.01 ^{5.22}	NG	0.088	NG	NG	NG	0.250	0.003	0.003	0.002	0.002	0.003	0.002	0.003	0.002	0.002	0.0025	0.0025	0.0025					
Nickel (total)	mg/L	NG																											

Keremeos Transfer Station

													Sampling Location		900 Kereamas Bypass Rd.	900 Kereamas Bypass Rd.	900 Kereamas Bypass Rd.	900 Kereamas Bypass Rd.	900 Kereamas Bypass Rd.	900 Kereamas Bypass Rd.	900 Kereamas Bypass Rd.	900 Kereamas Bypass Rd.	900 Kereamas Bypass Rd.	900 Kereamas Bypass Rd.	900 Kereamas Bypass Rd.	900 Kereamas Bypass Rd.	900 Kereamas Bypass Rd.	900 Kereamas Bypass Rd.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
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Keremeos Transfer Station
Water Quality Results

Sampling Location													900 Keremeos Bypass Rd. 25-Jun-15 5061976-01 Normal	900 Keremeos Bypass Rd. 16-Sep-15 5091411-01 Normal	900 Keremeos Bypass Rd. 28-Jun-16 6062445-01 Normal	900 Keremeos Bypass Rd. 28-Jun-16 6062446-01	900 Keremeos Bypass Rd. 29-Sep-16 6092236-01 Normal	900 Keremeos Bypass Rd. 19-Jun-17 7061767-01 Normal	900 Keremeos Bypass Rd. 04-Jul-18 8070397-01 Normal	900 Keremeos Bypass Rd. 17-Jul-19 9071918-01 Normal	900 Keremeos Bypass Rd. 23-Jun-20 0062444-01 Normal	900 Keremeos Bypass Rd. 24-Jun-21 21F3487-01 Normal	900 Keremeos Bypass Rd. 03-Aug-22 22H0579-01 Normal	900 Keremeos Bypass Rd. 13-Jul-23 23G1842-01 Normal	900 Keremeos Bypass Rd. 06-May-24 24E1432-01 Normal	
Analyte	Unit	Guideline											Date Sampled	Lab Sample ID	Sample Type											
		GCDWQ MAC	GCDWQ AO & O	BCAWQG L	BCWWQG L	BCAWQG I	BCWWQG I	BC SDWQG MAC	BC SDWQG AO	CSR IW	CSR LW	CSR DW														
Hardness (as CaCO3), dissolved	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	277	279	269		309	266	278	265	280	337	283	270	283	
Hardness (as CaCO3), from total Ca/Mg	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	288											284	295	
pH		NG	NG	5.0 - 9.5 ^{3.15}	NG	5.0 - 9.5 ^{5.14}	NG	NG	NG	NG	NG	NG	7.85	7.90	7.89		7.93	7.97	7.59	7.97	8.03	7.97	8.02	7.95	8.05	
Sulphate	mg/L	NG	NG	1000	1000 ^{4.4}	NG	NG	NG	500	NG	1000	500 ^{11.10}	79.1	73.4	76.9		79.0	81.1	78.4	83.3	79.3	79.5	80.8	76.8	79.3	
Microbiological																										
Total coliforms (counts)	CFU/100 mL	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	<1			<1		<1	<1	<1		<1	<1			
Total coliforms (MPN)	MPN/100 mL	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG									1.0	<1				
E. coli (counts)	CFU/100 mL	NG	NG	200 ^{3.16}	NG	385 ^{5.15}	NG	10 ^{7.3}	NG	NG	NG	NG	<1			<1		<1	<1	<1		<1	<1			
E. coli (MPN)	MPN/100 mL	NG	NG	200 ^{3.17}	NG	385 ^{5.16}	NG	10 ^{7.4}	NG	NG	NG	NG									<1.0	<1				
Heterotrophic plate count (counts)	CFU/mL	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG														
Heterotrophic plate count (MPN)	MPN/mL	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG														
Nutrients																										
Ammonia (total, as N)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	<0.020	<0.020	0.037		0.037	0.021	0.034	0.058	<0.050	<0.050	<0.050	<0.050	<0.050	
Nitrate (as N)	mg/L	NG	NG	100 ^{3.18}	NG	NG	NG	10	NG	NG	100 ^{10.3}	10 ^{11.11}	0.967	<0.010	0.904		0.900	0.900	0.779	1.14	1.11	1.09	1.06	0.626	0.675	
Nitrate + Nitrite (as N)	mg/L	NG	NG	100 ^{3.19}	NG	NG	NG	NG	NG	NG	100 ^{10.4}	10 ^{11.12}	0.967	<0.020	0.904		0.900	0.900	0.779	1.14	1.11	1.09	1.06	0.626	0.675	
Nitrate + Nitrite (as N) (calculated)	mg/L	NG	NG	100 ^{3.20}	NG	NG	NG	NG	NG	NG	100 ^{10.5}	10 ^{11.13}	0.967	<0.010	0.904		0.900	0.900	0.779	1.14	1.11	1.09	1.06	0.626	0.675	
Nitrite (as N)	mg/L	NG	NG	10 ^{3.21}	NG	NG	NG	1.0	NG	NG	10.000	1	<0.010	<0.010	<0.010		<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	
Total nitrogen	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	1.07													
Total kjeldahl nitrogen	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	0.11													
Phosphorus (dissolved, by ICPMS/ICPOES)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	N ^{8.1}	NG	<0.02	<0.02	<0.02		<0.02	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	
Phosphorus (total, by ICPMS/ICPOES)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	N ^{8.2}	NG	<0.02		<0.02		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	
Potassium (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	3.10	3.10	3.11		3.57	3.01	3.31	2.88	3.06	3.61	3.06	3.21	3.17	
Potassium (total)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	3.19		2.64			3.20	3.24	2.97	2.88	3.76	3.02	3.02	3.15	
Total Metals																										
Aluminum (total)	mg/L	NG	NG	5 ^{3.22}	NG	5 ^{5.17}	NG	9.5	NG	NG	NG	9.500 ^{11.14}	<0.005		0.005			<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	
Antimony (total)	mg/L	NG	NG	NG	NG	NG	NG	0.006	NG	NG	NG	0.006	0.0002		<0.0001			0.00011	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	
Arsenic (total)	mg/L	NG	NG	0.025 ^{3.23}	NG	0.100 ^{5.18}	NG	0.01	NG	NG	NG	0.010	0.0014		0.0014			0.00144	0.00154	0.00158	0.00132	0.00101	0.00131	0.00136	0.00134	
Barium (total)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	1.000	0.032		0.031			0.0320	0.0343	0.0394	0.0386	0.0418	0.0345	0.0349	0.0346	
Beryllium (total)	mg/L	NG	NG	NG	0.100	NG	0.100	NG	NG	NG	NG	0.008	<0.0001		<0.0001			<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	
Bismuth (total)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	<0.0001		<0.0001			<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	
Boron (total)	mg/L	NG	NG	5	NG	0.5 ^{5.19}	NG	5.0	NG	NG	NG	5.000	0.021		0.018			0.027	0.0209	0.0209	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	
Cadmium (total)	mg/L	NG	NG	NG	0.080 ^{4.5}	NG	0.0051 ^{6.8}	0.005	NG	NG	NG	0.005	0.00002		0.00002			0.000021	0.000034	0.000019	0.000034	0.000028	0.000013	0.000015	0.000018	
Calcium (total)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	84.3		84.3			81.8	80.6							
Chromium (total)	mg/L	NG	NG	NG	NG	0.050 ^{4.6}	NG	0.0049 ^{6.9}	0.05	NG	NG	NG	0.050 ^{11.15}	0.0019		0.0018		0.00175	0.00189	0.00316	0.00311	0.00243	0.00181	0.00179	0.00195	
Cobalt (total)	mg/L	NG	NG	NG	1	NG	0.050 ^{6.10}	0.001	NG	NG	NG	0.001 ^{11.16}	<0.00005		<0.00005			<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	
Copper (total)	mg/L	NG	NG	0.300	NG	0.200 ^{5.20}	NG	2.0 ^{7.5}	1.0	NG	NG	1.500 ^{11.17}	0.0009		0.0004			0.00093	0.00111	0.00063	0.00061	<0.00040	<0.00040	<0.00040	<0.00040	
Iron (total)	mg/L	NG	NG	NG	NG	NG	NG	NG	0.3	NG	NG	6.500 ^{11.18}	<0.01		<0.01			<0.010	<0.010	0.019	<0.010	<0.010	<0.010	<0.010	<0.010	
Lead (total)	mg/L	NG	NG	0.100	NG	0.200 ^{5.21}	NG	0.005	NG	NG	NG	0.010	<0.0001		<0.0001			<0.00010	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	
Lithium (total)	mg/L	NG	NG	NG	NG	NG	0.75 ^{6.11}	NG	NG	NG	NG	0.008	0.0033		0.0035			0.00375	0.00406	0.00408	0.00369	0.00533	0.00337	0.00356	0.00346	
Magnesium (total)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	18.8		16.0			17.9	19.5	18.5	19.2	23.7	16.9	17.7	18.5	
Manganese (total)	mg/L	NG	NG	NG	NG	NG	0.200	0.12	0.02	NG	NG	1.500 ^{11.19}	<0.0002		0.0009			<0.00020	0.00034	0.00028	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	
Mercury (total)	mg/L	NG	NG	0.0030	NG	0.0020	NG	0.001	NG	NG	NG	0.001	<0.00002		<0.00002			<0.00002	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	
Molybdenum (total)	mg/L	NG	NG	0.016 ^{3.24}	NG	0.01 ^{5.22}	NG	0.088	NG	NG	NG	0.250	0.0025		0.0023			0.00237	0.00236	0.00251	0.00213	0.00233	0.00225	0.00228	0.00222	
Nickel (total)	mg/L	NG	NG	NG	1	NG	0.200	0.08	NG	NG	NG	0.080	<0.0002		0.0002			<0.00020	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	
Selenium (total)	mg/L	NG	NG	0.0300 ^{3.25}	NG	0.010 ^{5.23}	NG	0.01	NG	NG	NG	0.010	0.0031		0.0030			0.00307								

Keremeos Transfer Station
Water Quality Results

Sampling Location													900 Keremeos Bypass Rd.	900 Keremeos Bypass Rd.	900 Keremeos Bypass Rd.	960 Keremeos Bypass Rd.	960 Keremeos Bypass Rd.	960 Keremeos Bypass Rd.	960 Keremeos Bypass Rd.	960 Keremeos Bypass Rd.	960 Keremeos Bypass Rd.	960 Keremeos Bypass Rd.	960 Keremeos Bypass Rd.	960 Keremeos Bypass Rd.	960 Keremeos Bypass Rd.
Date Sampled													14-May-24	18-Jul-24	21-Jul-24	25-Jan-06	28-Apr-06	28-Apr-06	15-Aug-06	22-Feb-07	30-May-07	29-Aug-07	10-Dec-07	01-Apr-08	03-Jul-08
Lab Sample ID													24E2031-01	24G2537-01	25G3083-01	1716893	1843640	1843641	1977614	2171604	2306680	2430783	2535253	2639237	K52862
Sample Type													Normal	Normal	Normal	Normal	Normal	Duplicate	Normal	Normal	Normal	Normal	Normal	Normal	Normal
Analyte	Unit	Guideline											BCSDWQG AO	BCSDWQG AO	CSR IW	CSR LW	CSR DW								
		GCDWQ MAC	GCDWQ AO & O	BCAWQG L	BCWWQG L	BCAWQG I	BCWWQG I	BCSDWQG MAC	BCSDWQG AO	CSR IW	CSR LW	CSR DW													
Field Results																									
Conductivity	µS/cm	NG	NG	NG	NG	NG	700 ^{6.1}	NG	NG	NG	NG	NG													505
Depth to Water (below top of casing)	m	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG													
Oxidation reduction potential	mV	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG													
Dissolved oxygen	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG													
pH		NG	NG	5.0 - 9.5 ^{3.1}	NG	5.0 - 9.5 ^{5.1}	NG	NG	NG	NG	NG	NG													
Salinity		NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG													
Total dissolved solids	mg/L	NG	NG	NG	1000 ^{4.1}	NG	500 ^{6.2}	NG	NG	NG	NG	NG													
Temperature	°C	NG	NG	N ^{3.2}	NG	N ^{5.2}	NG	NG	15	NG	NG	NG													
Turbidity	NTU	NG	NG	N ^{3.3}	NG	N ^{5.3}	NG	N ^{7.1}	NG	NG	NG	NG													
Volume Purged	L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG													
Lab Results																									
Dissolved Metals																									
Aluminum (dissolved)	mg/L	NG	NG	5 ^{3.4}	NG	5 ^{5.4}	NG	9.5	NG	5.000	5.000	9.500 ^{11.1}													
Antimony (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	0.006	NG	NG	NG	0.006													
Arsenic (dissolved)	mg/L	NG	NG	0.025 ^{3.5}	NG	0.100 ^{5.5}	NG	0.01	NG	0.100	0.025	0.010													
Barium (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	1.000													
Beryllium (dissolved)	mg/L	NG	NG	NG	0.100	NG	0.100	NG	NG	0.100	0.100	0.008													
Bismuth (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG													
Boron (dissolved)	mg/L	NG	NG	5 ^{3.6}	NG	0.5 ^{5.6}	NG	5.0	NG	0.500 ^{9.1}	5.000	5.000													
Cadmium (dissolved)	mg/L	NG	NG	NG	0.080 ^{4.2}	NG	0.005 ^{9.3}	0.005	NG	0.005	0.080	0.005													
Calcium (dissolved)	mg/L	NG	NG	NG	1000	NG	NG	NG	NG	NG	1000	NG													
Chromium (dissolved)	mg/L	NG	NG	NG	0.050 ^{4.3}	NG	0.0049 ^{9.4}	0.05	NG	0.005 ^{9.2}	0.050 ^{10.1}	0.050 ^{11.2}													
Cobalt (dissolved)	mg/L	NG	NG	NG	1	NG	0.050 ^{6.5}	0.001	NG	0.050	1.000	0.001 ^{11.3}													
Copper (dissolved)	mg/L	NG	NG	0.300 ^{3.7}	NG	0.200 ^{5.7}	NG	2.0 ^{7.2}	1.0	0.200	0.300	1.500 ^{11.4}													
Iron (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	NG	0.3	5.000 ^{9.3}	NG	6.500 ^{11.5}													
Lead (dissolved)	mg/L	NG	NG	0.100 ^{3.8}	NG	0.200 ^{5.8}	NG	0.005	NG	0.200	0.100	0.010													
Lithium (dissolved)	mg/L	NG	NG	NG	NG	NG	0.75 ^{6.6}	NG	NG	2.500 ^{9.4}	5.000	0.008													
Magnesium (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG													
Manganese (dissolved)	mg/L	NG	NG	NG	NG	NG	0.200	0.12	0.02	0.200 ^{9.5}	NG	1.500 ^{11.6}													
Mercury (dissolved)	mg/L	NG	NG	0.0030 ^{3.9}	NG	0.0020 ^{5.9}	NG	0.001	NG	0.001	0.002	0.001													
Molybdenum (dissolved)	mg/L	NG	NG	0.016 ^{3.10}	NG	0.01 ^{5.10}	NG	0.088	NG	0.010 ^{9.6}	0.050	0.250													
Nickel (dissolved)	mg/L	NG	NG	NG	1	NG	0.200	0.08	NG	0.200	1.000	0.080													
Selenium (dissolved)	mg/L	NG	NG	0.0300 ^{3.11}	NG	0.010 ^{5.11}	NG	0.01	NG	0.020 ^{9.7}	0.030	0.010													
Silicon (dissolved, as Si)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG													
Silver (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	0.020													
Sodium (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	200 ^{11.7}													
Strontium (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	7.0	NG	NG	NG	2.500													
Sulphur (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG													
Tellurium (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG													
Thallium (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG													
Thorium (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG													
Tin (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	2.500													
Titanium (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG													
Tungsten (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	0.003													
Uranium (dissolved)	mg/L	NG	NG	NG	0.200	NG	0.010	0.02	NG	0.010	0.200	0.020													
Vanadium (dissolved)	mg/L	NG	NG	NG	0.100	NG	0.100	NG	NG	0.100	0.100	0.020													
Zinc (dissolved)	mg/L	NG	NG	2.000 ^{9.12}	NG	1.000 ^{5.12}	NG	3.0	5.0	1.000 ^{9.8}	2.000	3.000 ^{11.8}													
Zirconium (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG													
General																									
Bicarbonate alkalinity (as HCO3)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG													
Carbonate alkalinity (as CO3)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG													
Hydroxide alkalinity (as OH)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG													
Alkalinity (bicarbonate, as CaCO3)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG													
Alkalinity (carbonate, as CaCO3)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG													
Alkalinity (hydroxide, as CaCO3)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG													
Alkalinity (phenolphthalein, as CaCO3)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG													
Alkalinity (total, as CaCO3)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG													
Biochemical oxygen demand	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG													
Bromide	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG													
Chemical oxygen demand	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG													
Chloride	mg/L	NG	NG	600 ^{3.13}	NG	100	NG	NG	250	100 ^{9.9}	600	250 ^{11.9}													
Conductivity	µS/cm	NG	NG	NG	NG	NG	700 ^{6.7}	NG	NG	NG	NG	NG													
Fluoride	mg/L	NG	NG	1.5 ^{3.14}	NG	2.0 ^{5.13}	NG	1.5	NG	1.000	1.000 ^{10.2}	1.500													

Water Quality Results



WIRELESS
WATER

Keremeos Transfer Station
Water Quality Results

Sampling Location													960 Keremeos Bypass Rd.	960 Keremeos Bypass Rd.	960 Keremeos Bypass Rd.	960 Keremeos Bypass Rd.	960 Keremeos Bypass Rd.	960 Keremeos Bypass Rd.	960 Keremeos Bypass Rd.	960 Keremeos Bypass Rd.	960 Keremeos Bypass Rd.	960 Keremeos Bypass Rd.	960 Keremeos Bypass Rd.	960 Keremeos Bypass Rd.	960 Keremeos Bypass Rd.
Date Sampled													25-Sep-08	10-Dec-08	02-Apr-09	10-Jun-09	22-Sep-09	17-Mar-10	17-Jun-10	06-Jul-10	06-Oct-10	09-Dec-10	05-Apr-11	23-Jun-11	22-Mar-12
Lab Sample ID													L83615	N12089	O32910	P22270	Q90695	T28795	U88596	V28046	K0J0248-01	K0L0412-01	K1D0158-01	K1F1037-01	K2C0830-01
Sample Type													Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal
Analyte	Unit	Guideline											BCSDWQG L	BCSDWQG AO	CSR IW	CSR LW	CSR DW								
		GCDWQ MAC	GCDWQ AO & O	BCAWQG L	BCWWQG L	BCAWQG I	BCWWQG I	BCSDWQG MAC	BCSDWQG AO	CSR IW	CSR LW	CSR DW													
Field Results																									
Conductivity	µS/cm	NG	NG	NG	NG	NG	700 ^{6.1}	NG	NG	NG	NG	NG	517	517	530	523	515	498	511		454	511	479	482	484
Depth to Water (below top of casing)	m	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG													
Oxidation reduction potential	mV	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	137.2	137.2	164.1	102.1	117.4	153.6	164.1		188.1	137.7	1.7	48.5	232.5
Dissolved oxygen	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	5.22	5.22	5.21	5.44	5.23	5.04	5.35		6.81	4.71	4.54	4.73	5.36
pH		NG	NG	5.0 - 9.5 ^{3.1}	NG	5.0 - 9.5 ^{5.1}	NG	NG	NG	NG	NG	NG	7.49	7.49	7.07	7.28	7.17	7.26	7.36		9.81	7.39	7.51	7.1	6.91
Salinity		NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG													
Total dissolved solids	mg/L	NG	NG	NG	1000 ^{4.1}	NG	500 ^{6.2}	NG	NG	NG	NG	NG	336	336	345	340	334	324	333		295	332	312	313	315
Temperature	°C	NG	NG	N ^{3.2}	NG	N ^{5.2}	NG	NG	15	NG	NG	NG	10.46	10.46	9.9	10.37	10.57	10.03	10.79		10.93	10.08	10.12	10.38	9.98
Turbidity	NTU	NG	NG	N ^{3.3}	NG	N ^{5.3}	NG	N ^{7.1}	NG	NG	NG	NG	0.13	0.13	0.2	0.34	0.53	0.18	0.27		0.22	0.39	0.29	0.23	0.22
Volume Purged	L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG													
Lab Results																									
Dissolved Metals																									
Aluminum (dissolved)	mg/L	NG	NG	5 ^{3.4}	NG	5 ^{5.4}	NG	9.5	NG	5.000	5.000	9.500 ^{11.1}													
Antimony (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	0.006	NG	NG	NG	0.006													
Arsenic (dissolved)	mg/L	NG	NG	0.025 ^{3.5}	NG	0.100 ^{5.5}	NG	0.01	NG	0.100	0.025	0.010													
Barium (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	1.000													
Beryllium (dissolved)	mg/L	NG	NG	NG	0.100	NG	0.100	NG	NG	0.100	0.100	0.008													
Bismuth (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG													
Boron (dissolved)	mg/L	NG	NG	5 ^{3.6}	NG	0.5 ^{5.6}	NG	5.0	NG	0.500 ^{9.1}	5.000	5.000													
Cadmium (dissolved)	mg/L	NG	NG	NG	0.080 ^{4.2}	NG	0.0051 ^{9.3}	0.005	NG	0.005	0.080	0.005													
Calcium (dissolved)	mg/L	NG	NG	NG	1000	NG	NG	NG	NG	NG	1000	NG	78.8	79.2		76.9	76.4	71.700	74.300		74.4	73.9	66.6	61	67
Chromium (dissolved)	mg/L	NG	NG	NG	0.050 ^{4.3}	NG	0.0049 ^{9.4}	0.05	NG	0.005 ^{9.2}	0.050 ^{10.1}	0.050 ^{11.2}													
Cobalt (dissolved)	mg/L	NG	NG	NG	1	NG	0.050 ^{6.5}	0.001	NG	0.050	1.000	0.001 ^{11.3}													
Copper (dissolved)	mg/L	NG	NG	0.300 ^{3.7}	NG	0.200 ^{5.7}	NG	2.0 ^{7.2}	1.0	0.200	0.300	1.500 ^{11.4}													
Iron (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	NG	0.3	5.000 ^{9.3}	NG	6.500 ^{11.5}													
Lead (dissolved)	mg/L	NG	NG	0.100 ^{3.8}	NG	0.200 ^{5.8}	NG	0.005	NG	0.200	0.100	0.010													
Lithium (dissolved)	mg/L	NG	NG	NG	NG	NG	0.75 ^{6.6}	NG	NG	2.500 ^{9.4}	5.000	0.008													
Magnesium (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	14.8	14.5		14.7	14.1	12.600	14.500		11.6	15.2	14.6	14.7	15.4
Manganese (dissolved)	mg/L	NG	NG	NG	NG	NG	0.200	0.12	0.02	0.200 ^{9.5}	NG	1.500 ^{11.6}													
Mercury (dissolved)	mg/L	NG	NG	0.0030 ^{3.9}	NG	0.0020 ^{5.9}	NG	0.001	NG	0.001	0.002	0.001													
Molybdenum (dissolved)	mg/L	NG	NG	0.016 ^{3.10}	NG	0.01 ^{5.10}	NG	0.088	NG	0.010 ^{9.6}	0.050	0.250													
Nickel (dissolved)	mg/L	NG	NG	NG	1	NG	0.200	0.08	NG	0.200	1.000	0.080													
Selenium (dissolved)	mg/L	NG	NG	0.0300 ^{3.11}	NG	0.010 ^{5.11}	NG	0.01	NG	0.020 ^{9.7}	0.030	0.010													
Silicon (dissolved, as Si)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG													
Silver (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	0.020													
Sodium (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	200 ^{11.7}	12												
Strontium (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	7.0	NG	NG	NG	2.500													
Sulphur (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	25												
Tellurium (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG													
Thallium (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG													
Thorium (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG													
Tin (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	2.500													
Titanium (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG													
Tungsten (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	0.003													
Uranium (dissolved)	mg/L	NG	NG	NG	0.200	NG	0.010	0.02	NG	0.010	0.200	0.020													
Vanadium (dissolved)	mg/L	NG	NG	NG	0.100	NG	0.100	NG	NG	0.100	0.100	0.020													
Zinc (dissolved)	mg/L	NG	NG	2,000 ^{3.12}	NG	1,000 ^{5.12}	NG	3.0	5.0	1,000 ^{9.8}	2,000	3,000 ^{11.8}													
Zirconium (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG													
General																									
Bicarbonate alkalinity (as HCO3)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG													
Carbonate alkalinity (as CO3)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG													
Hydroxide alkalinity (as OH)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG													
Alkalinity (bicarbonate, as CaCO3)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG													
Alkalinity (carbonate, as CaCO3)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG									193	194	195	198	193
Alkalinity (hydroxide, as CaCO3)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG									<1.0	<1.0	<1.0	<1.0	<1.0
Alkalinity (phenolphthalein, as CaCO3)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG									<1.0	<1.0	<1.0	<1.0	<1.0
Alkalinity (total, as CaCO3)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG									193	194	195	198	193
Biochemical oxygen demand	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	<10	<10	<10	<10	<10	<10	<10		<10	<10	<10	<10	<10
Bromide	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG									<10	<10	<10	<10	<10
Chemical oxygen demand	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG													
Chloride	mg/L	NG	NG	600 ^{3.13}	NG	100	NG	NG	250	100 ^{9.9}	600	250 ^{11.9}	15	<10	<10	<10	<10	<10	<1						

Keremeos Transfer Station

[illegible]

Keremeos Transfer Station
Water Quality Results

Sampling Location													960 Keremeos Bypass Rd. 19-Jun-12 2061080-01 Normal	960 Keremeos Bypass Rd. 26-Sep-12 2091474-01 Normal	960 Keremeos Bypass Rd. 04-Dec-12 2120173-03 Normal	960 Keremeos Bypass Rd. 04-Dec-12 2120173-01	960 Keremeos Bypass Rd. 21-Mar-13 3031072-01 Normal	960 Keremeos Bypass Rd. 27-Jun-13 3061701-01 Normal	960 Keremeos Bypass Rd. 08-Oct-13 3100588-01 Normal	960 Keremeos Bypass Rd. 24-Mar-14 4031257-01 Normal	960 Keremeos Bypass Rd. 17-Jun-14 4061335-01 Normal	960 Keremeos Bypass Rd. 25-Sep-14 4091896-01 Normal	960 Keremeos Bypass Rd. 10-Dec-14 4120699-03 Normal	960 Keremeos Bypass Rd. 25-Mar-15 5031682-02 Normal	960 Keremeos Bypass Rd. 25-Jun-15 5061989-01 Normal																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
Analyte	Unit	Guideline											Date Sampled	Lab Sample ID	Sample Type																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			

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Water Quality Results

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Analyte	Unit	Guideline											Date Sampled	Lab Sample ID	Sample Type												
		GCDWQ MAC	GCDWQ AO & O	BCAWQG L	BCWWQG L	BCAWQG I	BCWWQG I	BC SDWQG MAC	BC SDWQG AO	CSR IW	CSR LW	CSR DW															
Hardness (as CaCO3), dissolved	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	226	264		245	237	249	245	259	242	243	237	240	241		
Hardness (as CaCO3), from total Ca/Mg	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	244	246		248	244	225	249	256	243	265	292	263	250		
pH		NG	NG	5.0 - 9.5 ^{3.15}	NG	5.0 - 9.5 ^{5.14}	NG	NG	NG	NG	NG	NG	7.88	8.15		7.79	7.94	7.95	7.95	7.88	7.11	7.85	7.94	7.88	7.82		
Sulphate	mg/L	NG	NG	1000	1000 ^{4.4}	NG	NG	NG	500	NG	1000	500 ^{11.10}	71.6	69.8		71.8	71.7	69.9	71.6	69.7	68.9	71.9	77.3	70.1	68.3		
Microbiological																											
Total coliforms (counts)	CFU/100 mL	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	<1					<1	<1	<1	<1	<1	<1	<1	<1		
Total coliforms (MPN)	MPN/100 mL	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG															
E. coli (counts)	CFU/100 mL	NG	NG	200 ^{3.16}	NG	385 ^{5.15}	NG	10 ^{7.3}	NG	NG	NG	NG	<1					<1	<1	<1	<1	<1	<1	<1	<1		
E. coli (MPN)	MPN/100 mL	NG	NG	200 ^{3.17}	NG	385 ^{5.16}	NG	10 ^{7.4}	NG	NG	NG	NG															
Heterotrophic plate count (counts)	CFU/mL	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG															
Heterotrophic plate count (MPN)	MPN/mL	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG															
Nutrients																											
Ammonia (total, as N)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	<0.020	0.020		<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	0.045		
Nitrate (as N)	mg/L	NG	NG	100 ^{3.18}	NG	NG	NG	10	NG	NG	100 ^{10.3}	10 ^{11.11}	0.726	0.565		0.620	0.794	0.801	0.862	0.854	0.822	0.799	0.677	1.00	1.12		
Nitrate + Nitrite (as N)	mg/L	NG	NG	100 ^{3.19}	NG	NG	NG	NG	NG	NG	100 ^{10.4}	10 ^{11.12}	0.726	0.565		0.620	0.794	0.801	0.862	0.854	0.822	0.799	0.677	1.00	1.12		
Nitrate + Nitrite (as N) (calculated)	mg/L	NG	NG	100 ^{3.20}	NG	NG	NG	NG	NG	NG	100 ^{10.5}	10 ^{11.13}	0.726	0.565		0.620	0.794	0.801	0.862	0.854	0.822	0.799	0.677	1.00	1.12		
Nitrite (as N)	mg/L	NG	NG	10 ^{3.21}	NG	NG	NG	1.0	NG	NG	10.000	1	<0.010	<0.010		<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010		
Total nitrogen	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	0.965	0.674		0.855	0.928	0.905	0.961	0.994	0.902	0.894	0.728	1.00	1.20		
Total kjeldahl nitrogen	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	0.24	0.11		0.24	0.13	0.10	0.10	0.14	0.08	0.10	0.05	<0.05	0.09		
Phosphorus (dissolved, by ICPMS/ICPOES)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG								<0.02	<0.02	<0.02	<0.02	<0.02	<0.02		
Phosphorus (total, by ICPMS/ICPOES)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	<0.020	<0.020		<0.020	<0.020	<0.020	<0.020	<0.020	0.022	0.030	<0.020	<0.02			
Potassium (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG								2.79	2.67	2.67	2.69	2.66	2.66		
Potassium (total)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	2.84	3.05						2.73	2.73	2.80	2.73	2.84	2.66		
Total Metals																											
Aluminum (total)	mg/L	NG	NG	5 ^{3.22}	NG	5 ^{5.17}	NG	9.5	NG	NG	NG	9.500 ^{11.14}	0.006	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005		
Antimony (total)	mg/L	NG	NG	NG	NG	NG	NG	0.006	NG	NG	NG	0.006	0.0004	0.0001		0.0001	0.0001	<0.0001	0.0001	0.0001	0.0002	0.0002	0.0004	0.0001	0.0001		
Arsenic (total)	mg/L	NG	NG	0.025 ^{3.23}	NG	0.100 ^{5.18}	NG	0.01	NG	NG	NG	0.010	0.0015	0.0019		0.0013	0.0014	0.0012	0.0013	0.0012	0.0012	0.0014	0.0013	0.0014	0.0013		
Barium (total)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	1.000	0.031	0.029		0.028	0.028	0.025	0.026	0.027	0.024	0.030	0.029	0.029	0.026		
Beryllium (total)	mg/L	NG	NG	NG	0.100	NG	0.100	NG	NG	NG	NG	0.008	<0.0001	<0.0001		<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001		
Bismuth (total)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	<0.0001	<0.0001		<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001		
Boron (total)	mg/L	NG	NG	5	NG	0.5 ^{5.19}	NG	5.0	NG	NG	NG	5.000	0.014	0.016		0.018	0.018	0.024	0.026	0.023	0.022	0.009	0.020	0.030	0.016		
Cadmium (total)	mg/L	NG	NG	NG	0.080 ^{4.5}	NG	0.0051 ^{6.8}	0.005	NG	NG	NG	0.005	0.00001	0.00002		0.00001	0.00002	0.00002	<0.00001	0.00002	0.00001	<0.00001	0.00002	0.00001	0.00001		
Calcium (total)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	72.7	71.0		72.8	71.0	67.4	73.3	76.9	73.5	91.3	76.4	74.9			
Chromium (total)	mg/L	NG	NG	NG	NG	0.050 ^{4.6}	NG	0.0049 ^{6.9}	0.05	NG	NG	0.050 ^{11.15}	0.0012	0.0012		0.0010	0.0007	0.0015	0.0010	0.0010	0.0009	0.0010	0.0008	0.0010	0.0011		
Cobalt (total)	mg/L	NG	NG	NG	1	NG	0.050 ^{6.10}	0.001	NG	NG	NG	0.001 ^{11.16}	<0.00005	<0.00005		<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005		
Copper (total)	mg/L	NG	NG	0.300	NG	0.200 ^{5.20}	NG	2.0 ^{7.5}	1.0	NG	NG	1.500 ^{11.17}	0.0032	0.0040		0.0084	0.0098	0.0017	0.0052	0.0057	0.0033	0.0042	0.0045	0.0037	0.0044		
Iron (total)	mg/L	NG	NG	NG	NG	NG	NG	NG	0.3	NG	NG	6.500 ^{11.18}	<0.01	0.01		0.01	0.03	<0.01	0.01	0.01	<0.01	<0.01	0.02	0.01	<0.01		
Lead (total)	mg/L	NG	NG	0.100	NG	0.200 ^{5.21}	NG	0.005	NG	NG	NG	0.010	0.0001	0.0002		0.0002	0.0003	<0.0001	<0.0001	0.0001	<0.0001	<0.0001	0.0002	<0.0001	0.0001		
Lithium (total)	mg/L	NG	NG	NG	NG	NG	0.75 ^{6.11}	NG	NG	NG	NG	0.008	0.0028	0.0029		0.0030	0.0029	0.0027	0.0030	0.0030	0.0027	0.0035	0.0034	0.0028	0.0026		
Magnesium (total)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	14.9	16.7		16.1	17.1	13.8	15.9	15.4	14.5	14.9	15.4	17.4	15.3		
Manganese (total)	mg/L	NG	NG	NG	NG	NG	0.200	0.12	0.02	NG	NG	1.500 ^{11.19}	0.0004	0.0006		0.0023	0.0016	0.0008	0.0009	0.0008	<0.0002	0.0002	0.0012	0.0005	0.0004		
Mercury (total)	mg/L	NG	NG	0.0030	NG	0.0020	NG	0.001	NG	NG	NG	0.001	<0.00002	<0.00002		<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002		
Molybdenum (total)	mg/L	NG	NG	0.016 ^{3.24}	NG	0.01 ^{5.22}	NG	0.088	NG	NG	NG	0.250	0.0029	0.0028		0.0028	0.0029	0.0026	0.0024	0.0025	0.0026	0.0028	0.0029	0.0030	0.0029		
Nickel (total)	mg/L	NG	NG	1	NG	0.200	0.08	NG	NG	NG	NG	0.080	0.0026	0.0026		0.0024	0.0048	0.0024	0.0036	0.0036	0.0022	0.0009	0.0031	0.0032	0.0020		
Selenium (total)	mg/L	NG	NG	0.0300 ^{3.25}	NG	0.010 ^{5.23}	NG	0.01	NG	NG	NG	0.010	0.0026	0.0029		0.0026	0.0024	0.0020	0.0020	0.0029	0.0022	0.0020	0.0020	0.0026	0.0024		
Silicon (total, as Si)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	9.5	&lt													

Keremeos Transfer Station
Water Quality Results

Sampling Location													960 Keremeos Bypass Rd.	960 Keremeos Bypass Rd.	960 Keremeos Bypass Rd.	960 Keremeos Bypass Rd.	960 Keremeos Bypass Rd.	960 Keremeos Bypass Rd.	960 Keremeos Bypass Rd.	960 Keremeos Bypass Rd.	960 Keremeos Bypass Rd.	960 Keremeos Bypass Rd.	960 Keremeos Bypass Rd.	960 Keremeos Bypass Rd.	960 Keremeos Bypass Rd.	960 Keremeos Bypass Rd.	960 Keremeos Bypass Rd.	960 Keremeos Bypass Rd.	960 Keremeos Bypass Rd.	960 Keremeos Bypass Rd.	960 Keremeos Bypass Rd.	960 Keremeos Bypass Rd.	960 Keremeos Bypass Rd.	960 Keremeos Bypass Rd.	960 Keremeos Bypass Rd.	960 Keremeos Bypass Rd.	960 Keremeos Bypass Rd.	960 Keremeos Bypass Rd.	960 Keremeos Bypass Rd.	960 Keremeos Bypass Rd.	960 Keremeos Bypass Rd.	960 Keremeos Bypass Rd.	960 Keremeos Bypass Rd.	960 Keremeos Bypass Rd.	960 Keremeos Bypass Rd.	960 Keremeos Bypass Rd.	960 Keremeos Bypass Rd.	960 Keremeos Bypass Rd.	960 Keremeos Bypass Rd.	960 Keremeos Bypass Rd.	960 Keremeos Bypass Rd.	960 Keremeos Bypass Rd.	960 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Rd.	960 Keremeos Bypass Rd.	960 Keremeos Bypass Rd.	960 Keremeos Bypass Rd.	960 Keremeos Bypass Rd.	960 Keremeos Bypass Rd.	960 Keremeos Bypass Rd.	960 Keremeos Bypass Rd.	960 Keremeos Bypass Rd.	960 Keremeos Bypass Rd.	960 Keremeos Bypass Rd.	960 Keremeos Bypass Rd.	960 Keremeos Bypass Rd.	960 Keremeos Bypass Rd.	960 Keremeos Bypass Rd.	960 Keremeos Bypass Rd.	960 Keremeos Bypass Rd.	960 Keremeos Bypass Rd.	960 Keremeos Bypass Rd.	960 Keremeos Bypass Rd.	960 Keremeos Bypass Rd.	960 Keremeos Bypass Rd.	960 Keremeos Bypass Rd.	960 Keremeos Bypass Rd.	960 Keremeos Bypass Rd.	960 Keremeos Bypass Rd.	960 Keremeos Bypass Rd.	960 Keremeos Bypass Rd.	960 Keremeos Bypass Rd.	960 Keremeos Bypass Rd.	960 Keremeos Bypass Rd.	960 Keremeos Bypass Rd.	960 Keremeos Bypass Rd.	960 Keremeos Bypass Rd.	960 Keremeos Bypass Rd.	960 Keremeos Bypass Rd.	960 Keremeos Bypass Rd.	960 Keremeos Bypass Rd.	960 Keremeos Bypass Rd.	960 Keremeos Bypass Rd.	960 Keremeos Bypass Rd.	960 Keremeos Bypass Rd.	960 Keremeos Bypass Rd.	960 Keremeos Bypass Rd.	960 Keremeos Bypass Rd.	960 Keremeos Bypass Rd.	960 Keremeos Bypass Rd.	960 Keremeos Bypass Rd.	960 Keremeos Bypass Rd.	960 Keremeos Bypass Rd.	960 Keremeos Bypass Rd.	960 Keremeos Bypass Rd.

Keremeos Transfer Station
Water Quality Results

Sampling Location													960 Keremeos Bypass Rd.	960 Keremeos Bypass Rd.	960 Keremeos Bypass Rd.	960 Keremeos Bypass Rd.	960 Keremeos Bypass Rd.	960 Keremeos Bypass Rd.	960 Keremeos Bypass Rd.	960 Keremeos Bypass Rd.	960 Keremeos Bypass Rd.	960 Keremeos Bypass Rd.	960 Keremeos Bypass Rd.	960 Keremeos Bypass Rd.	960 Keremeos Bypass Rd.	960 Keremeos Bypass Rd.	
Date Sampled													16-Sep-15	02-Dec-15	04-Apr-16	28-Jun-16	29-Sep-16	30-Nov-16	20-Mar-17	19-Jun-17	02-Nov-17	21-Mar-18	04-Jul-18	23-Nov-18	10-Apr-19		
Lab Sample ID													5091410-01	5120272-05	6040228-01	6062444-01	6092234-01	6120050-01	7031415-01	7061775-01	7110388-05	8031761-01	8070394-02	8111948-03	9041132-01		
Sample Type													Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	
Analyte	Unit	Guideline																									
		GCDWQ MAC	GCDWQ AO & O	BCAWQG L	BCWWQG L	BCAWQG I	BCWWQG I	BC SDWQG MAC	BC SDWQG AO	CSR IW	CSR LW	CSR DW															
Hardness (as CaCO3), dissolved	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	248	234	229	242	241	254	254	235	247	245	254	243	237		
Hardness (as CaCO3), from total Ca/Mg	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG															
pH		NG	NG	5.0 - 9.5 ^{3,15}	NG	5.0 - 9.5 ^{5,14}	NG	NG	NG	NG	NG	NG	7.89	7.92	7.90	7.90	7.87	7.86	7.92	8.01	7.82	7.95	7.50	8.02	8.02		
Sulphate	mg/L	NG	NG	1000	1000 ^{4,4}	NG	NG	NG	500	NG	1000	500 ^{11,10}	62.4	69.8	73.9	68.3	68.0	68.0	73.6	69.9	69.3	73.3	71.0	70.1	74.4		
Microbiological																											
Total coliforms (counts)	CFU/100 mL	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG			<1				<1			<1			<1		
Total coliforms (MPN)	MPN/100 mL	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG															
E. coli (counts)	CFU/100 mL	NG	NG	200 ^{3,16}	NG	385 ^{5,15}	NG	10 ^{7,3}	NG	NG	NG	NG			<1				<1			<1			<1		
E. coli (MPN)	MPN/100 mL	NG	NG	200 ^{3,17}	NG	385 ^{5,16}	NG	10 ^{7,4}	NG	NG	NG	NG															
Heterotrophic plate count (counts)	CFU/mL	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG															
Heterotrophic plate count (MPN)	MPN/mL	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG															
Nutrients																											
Ammonia (total, as N)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	<0.020	<0.020	<0.020	<0.020	0.026	<0.020	<0.020	0.021	0.031	0.034	0.022	0.045	<0.020		
Nitrate (as N)	mg/L	NG	NG	100 ^{3,18}	NG	NG	NG	10	NG	NG	100 ^{10,3}	10 ^{11,11}	0.652	0.819	0.970	0.952	0.837	0.872	1.01	1.01	0.829	0.907	0.844	0.744	0.890		
Nitrate + Nitrite (as N)	mg/L	NG	NG	100 ^{3,19}	NG	NG	NG	NG	NG	NG	100 ^{10,4}	10 ^{11,12}	0.652	0.819	0.970	0.952	0.837	0.872	1.01	1.01	0.829	0.907	0.844	0.744	0.890		
Nitrate + Nitrite (as N) (calculated)	mg/L	NG	NG	100 ^{3,20}	NG	NG	NG	NG	NG	NG	100 ^{10,5}	10 ^{11,13}	0.652	0.819	0.970	0.952	0.837	0.872	1.01	1.01	0.829	0.907	0.844	0.744	0.890		
Nitrite (as N)	mg/L	NG	NG	10 ^{3,21}	NG	NG	NG	1.0	NG	NG	10.000	1	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010		
Total nitrogen	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG															
Total kjeldahl nitrogen	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG															
Phosphorus (dissolved, by ICPMS/ICPOES)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	N ^{8,1}	NG	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050		
Phosphorus (total, by ICPMS/ICPOES)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	N ^{8,2}	NG			<0.02	<0.02	<0.02	<0.02	<0.02	<0.050	<0.050	<0.050		<0.050			
Potassium (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	2.67	2.93	2.51	2.72	2.80	2.89	2.89	2.67	2.75	2.61	3.03	2.75	2.50		
Potassium (total)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG			2.57			2.88			2.58				2.80		
Total Metals																											
Aluminum (total)	mg/L	NG	NG	5 ^{3,22}	NG	5 ^{5,17}	NG	9.5	NG	NG	NG	9.500 ^{11,14}			<0.005			<0.005			<0.0050				<0.0050		
Antimony (total)	mg/L	NG	NG	NG	NG	NG	NG	0.006	NG	NG	NG	0.006			<0.0001			<0.0001			<0.00020				<0.00020		
Arsenic (total)	mg/L	NG	NG	0.025 ^{3,23}	NG	0.100 ^{5,18}	NG	0.01	NG	NG	NG	0.010			0.0013			0.0014			0.00128				0.00133		
Barium (total)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	1.000			0.025			0.030			0.0275				0.0291		
Beryllium (total)	mg/L	NG	NG	NG	0.100	NG	0.100	NG	NG	NG	NG	0.008			<0.0001			<0.0001			<0.00010				<0.00010		
Bismuth (total)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG			<0.0001			<0.0001			<0.00010				<0.00010		
Boron (total)	mg/L	NG	NG	5	NG	0.5 ^{5,19}	NG	5.0	NG	NG	NG	5.000			0.019			0.035			0.0200				0.0171		
Cadmium (total)	mg/L	NG	NG	NG	0.080 ^{4,5}	NG	0.0051 ^{6,8}	0.005	NG	NG	NG	0.005			0.00001			0.00001			0.000011				0.000011		
Calcium (total)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG			70.8			74.9			72.7				72.7		
Chromium (total)	mg/L	NG	NG	NG	0.050 ^{4,6}	NG	0.0049 ^{6,9}	0.05	NG	NG	NG	0.050 ^{11,15}			0.0009			0.0013			0.00101				0.00113		
Cobalt (total)	mg/L	NG	NG	NG	1	NG	0.050 ^{6,10}	0.001	NG	NG	NG	0.001 ^{11,16}			<0.00005			<0.00005			<0.00010				<0.00010		
Copper (total)	mg/L	NG	NG	0.300	NG	0.200 ^{5,20}	NG	2.0 ^{7,5}	1.0	NG	NG	1.500 ^{11,17}			0.0048			0.0025			0.00398				0.00596		
Iron (total)	mg/L	NG	NG	NG	NG	NG	NG	NG	0.3	NG	NG	6.500 ^{11,18}			0.01			<0.01			0.013				<0.010		
Lead (total)	mg/L	NG	NG	0.100	NG	0.200 ^{5,21}	NG	0.005	NG	NG	NG	0.010			0.0001			0.0001			<0.00020				<0.00020		
Lithium (total)	mg/L	NG	NG	NG	NG	NG	0.75 ^{6,11}	NG	NG	NG	NG	0.008			0.0028			0.0049			0.00315				0.00326		
Magnesium (total)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG			14.5			16.2			14.8				16.2		
Manganese (total)	mg/L	NG	NG	NG	NG	NG	0.200	0.12	0.02	NG	NG	1.500 ^{11,19}			0.0010			0.0004			0.00059				0.00036		
Mercury (total)	mg/L	NG	NG	0.0030	NG	0.0020	NG	0.001	NG	NG	NG	0.001			<0.00002			<0.00002			<0.000010				<0.000010		
Molybdenum (total)	mg/L	NG	NG	0.016 ^{3,24}	NG	0.01 ^{5,22}	NG	0.088	NG	NG	NG	0.250			0.0026			0.0029			0.00262				0.00261		
Nickel (total)	mg/L	NG	NG	NG	1	NG	0.200	0.08	NG	NG	NG	0.080			0.0025			0.0024			0.00196				0.00146		
Selenium (total)	mg/L	NG	NG	0.0300 ^{3,25}	NG	0.010 ^{5,23}	NG	0.01	NG	NG	NG	0.010			0.0025			0.0024			0.00253				0.00231		
Silicon (total, as Si)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG			9.4			10.4			10.0				9.5		
Silver (total)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	0.020			<0.00005			<0.00005			<0.000050				<0.000050		
Sodium (total)																											

Keremeos Transfer Station

													Sampling Location		960 Keremeos Bypass Rd.	960 Keremeos Bypass Rd.	960 Keremeos Bypass Rd.	960 Keremeos Bypass Rd.	960 Keremeos Bypass Rd.	960 Keremeos Bypass Rd.	960 Keremeos Bypass Rd.	960 Keremeos Bypass Rd.	960 Keremeos Bypass Rd.	960 Keremeos Bypass Rd.	960 Keremeos Bypass Rd.	960 Keremeos Bypass Rd.
													Date Sampled	17-Jul-19	12-Nov-19	23-Jun-20	12-Nov-20	12-Apr-21	24-Jun-21	27-Oct-21	18-May-22	03-Aug-22	16-Nov-22	19-Apr-23	13-Jul-23	09-Nov-23
													Lab Sample ID	9071916-03	N001627-05	0062446-01	20K1492-01	21D1236-01	21F3508-01	21J3945-02	22E2753-02	22H0608-01	22K2135-06	23D2156-01	23G1940-01	23K1417-01
													Sample Type	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal
Analyte	Unit	Guideline																								
		GCDWQ MAC	GCDWQ AO & O	BCAWQG L	BCWWQG L	BCAWQG I	BCWWQG I	BCSDWQG MAC	BCSDWQG AQ	CSR IW	CSR LW	CSR DW														
Field Results																										
Conductivity	µS/cm	NG	NG	NG	NG	NG	700 ^{6.1}	NG	NG	NG	NG	NG	548.6	546.0	553.7	545.5	541.9	545.1	534.8	533.1	533.5	534.0	534.8	531.7	527.6	
Depth to Water (below top of casing)	m	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG														
Oxidation reduction potential	mV	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	140.1	160.7	92.8	54.9	56.9	74.0	75.0	86.5	91.2	75.4	129.5	100.7	65.5	
Dissolved oxygen	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	4.97	4.41	4.71	4.48	4.38	4.33	4.35	4.56	4.65	3.23	3.85	4.22	4.23	
pH	NG	NG	NG	5.0 - 9.5 ^{3.1}	NG	5.0 - 9.5 ^{5.1}	NG	NG	NG	NG	NG	NG	7.29	7.38	7.63	7.30	7.40	7.32	7.27	7.43	7.59	7.58	7.47	7.58	7.44	
Salinity	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG														
Total dissolved solids	mg/L	NG	NG	NG	1000 ^{4.1}	NG	500 ^{6.2}	NG	NG	NG	NG	NG	356.9	354.9	360.1	354.2	352.3	354.2	347.8	346.4	346.4	347.1	347.8	345.8	343.2	
Temperature	°C	NG	NG	NG	N ^{3.2}	NG	N ^{5.2}	NG	NG	15	NG	NG	11.0	10.6	10.9	10.7	10.7	11.0	10.9	10.7	11.4	10.5	10.9	11.1	10.7	
Turbidity	NTU	NG	NG	NG	N ^{3.3}	NG	N ^{5.3}	NG	N ^{7.1}	NG	NG	NG	0.50	0.06	0.30	0.22	0.08	0.44	0.16	0.17	0.12	0.06	0.07	0.06	0.06	
Volume Purged	L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG														
Lab Results																										
Dissolved Metals																										
Aluminum (dissolved)	mg/L	NG	NG	5 ^{3.4}	NG	5 ^{5.4}	NG	9.5	NG	5,000	5,000	9,500 ^{11.1}	0.0052	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	
Antimony (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	0.006	NG	NG	NG	0.006	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	
Arsenic (dissolved)	mg/L	NG	NG	0.025 ^{3.5}	NG	0.100 ^{5.5}	NG	0.01	NG	0.100	0.025	0.010	0.00124	0.00126	0.00120	0.00099	0.00093	0.00150	0.00121	0.00123	0.00119	0.00126	0.00129	0.00122	0.00129	
Barium (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	1.000	0.0295	0.0286	0.0289	0.0494	0.0287	0.0317	0.0242	0.0280	0.0272	0.0281	0.0306	0.0302	0.0301	
Beryllium (dissolved)	mg/L	NG	NG	NG	0.100	NG	0.100	NG	NG	0.100	0.100	0.008	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	
Bismuth (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	
Boron (dissolved)	mg/L	NG	NG	NG	5 ^{3.6}	NG	0.5 ^{5.6}	NG	5.0	NG	0.500 ^{9.1}	5,000	0.0171	0.0177	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	
Cadmium (dissolved)	mg/L	NG	NG	NG	0.080 ^{4.2}	NG	0.0051 ^{6.3}	0.005	NG	0.005	0.005	0.000014	0.000015	0.000013	0.000035	<0.000010	0.000012	<0.000010	0.000015	0.000013	0.000014	0.000017	0.000014	0.000014	0.000014	
Calcium (dissolved)	mg/L	NG	NG	NG	1000	NG	NG	NG	NG	NG	1000	NG	66.3	71.6	73.1	112	76.6	92.5	67.4	70.5	77.3	58.6	73.0	65.1	78.6	
Chromium (dissolved)	mg/L	NG	NG	NG	0.050 ^{4.3}	NG	0.0049 ^{6.4}	0.05	NG	0.005 ^{9.2}	0.005 ^{10.1}	0.050 ^{11.2}	0.00134	0.00139	0.00126	0.00252	0.00128	0.00141	0.00106	0.00118	0.00115	0.00126	0.00113	0.00132	0.00115	
Cobalt (dissolved)	mg/L	NG	NG	NG	1	NG	0.050 ^{6.5}	0.001	NG	0.005	0.050	0.001 ^{11.3}	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	
Copper (dissolved)	mg/L	NG	NG	NG	0.300 ^{3.7}	NG	0.200 ^{5.7}	NG	2.0 ^{7.2}	1.0	0.200	0.300	1.500 ^{11.4}	0.00515	0.00475	0.00547	0.00042	0.00374	0.00422	0.00402	0.00331	0.00432	0.00373	0.00401	0.00357	
Iron (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	0.3	5,000 ^{9.3}	NG	6.500 ^{11.5}	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	
Lead (dissolved)	mg/L	NG	NG	NG	0.100 ^{3.8}	NG	0.200 ^{5.8}	NG	0.005	NG	0.005	0.100	0.010	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	
Lithium (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	0.75 ^{6.6}	NG	NG	2,500 ^{9.4}	5,000	0.008	0.00289	0.00278	0.00306	0.00595	0.00302	0.00424	0.00278	0.00288	0.00298	0.00298	0.00313	0.00300	
Magnesium (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	14.8	14.9	15.4	26.6	15.6	18.8	14.2	14.2	14.6	16.7	16.2	15.4	16.3	
Manganese (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	0.200	0.12	0.02	0.200 ^{9.5}	NG	1,500 ^{11.6}	0.00028	0.00028	<0.00020	0.00021	<0.00020	<0.00020	0.00029	0.00022	<0.00020	<0.00020	0.00024	<0.00020	
Mercury (dissolved)	mg/L	NG	NG	NG	0.0030 ^{3.9}	NG	0.0020 ^{5.9}	NG	0.001	NG	0.001	0.002	0.001	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	
Molybdenum (dissolved)	mg/L	NG	NG	NG	0.016 ^{3.10}	NG	0.01 ^{5.10}	NG	0.0088	NG	0.010 ^{9.6}	0.050	0.0250	0.00284	0.00257	0.00264	0.00244	0.00247	0.00295	0.00265	0.00242	0.00227	0.00253	0.00255	0.00219	
Nickel (dissolved)	mg/L	NG	NG	NG	1	NG	0.200	0.08	NG	0.200	1,000	0.080	0.00149	0.00127	0.00108	0.00043	0.00131	0.00103	0.00095	0.00087	0.00090	0.00099	0.00087	0.00085	0.00085	
Selenium (dissolved)	mg/L	NG	NG	NG	0.0300 ^{3.11}	NG	0.010 ^{5.11}	NG	0.01	NG	0.020 ^{9.7}	0.030	0.010	0.00259	0.00216	0.00213	0.00659	0.00236	0.00198	0.00216	0.00195	0.00196	0.00210	0.00210	0.00210	
Silicon (dissolved, as Si)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	10.4	11.5	9.4	10.1	11.1	11.3	9.1	8.7	9.6	9.5	9.6	9.8	10.0	
Silver (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	0.020	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050		
Sodium (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	200 ^{11.7}	11.5	11.9	12.5	23.8	12.7	15.2	11.4	12.3	14.9	13.9	12.8	13.4	
Strontium (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	NG	7.0	NG	NG	2,500	0.538	0.542	0.550	0.775	0.494	0.582	0.419	0.564	0.475	0.503	0.530	0.533	0.566	
Sulphur (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	25.0	25.8	24.5	50.6	26.1	32.1	20.9	22.3	23.0	22.5	23.8	24.6	24.6	
Tellurium (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050		
Thallium (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020		
Thorium (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010		
Tin (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	2,500	NG	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020		
Titanium (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	
Tungsten (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	0.003	NG	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	
Uranium (dissolved)	mg/L	NG	NG	NG	0.200	NG	0.010	0.02	NG	0.010	0.200	0.020	0.00178	0.00175	0.00167	0.00216	0.00174	0.00178	0.00149	0.00142	0.00160	0.00166	0.00161	0.00159	0.00171	
Vanadium (dissolved)	mg/L	NG	NG	NG	0.100	NG	0.100	NG	NG	0.100	0.020	0.020	0.0011	0.0011	<0.0010	<0.0010	<0.0010	<0.0010	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	
Zinc (dissolved)	mg/L	NG	NG	2,000 ^{3.12}	NG	1,000 ^{5.12}	NG	3.0	5.0	1,000 ^{9.8}	2,000	3,000 ^{11.8}	0.0048	0.0045	0.0043	<0.0040	0.0041	0.0055	0.0050	<0.0040	<0.0040	0.0088	<0.0040	<0.0040	0.0041	
Zirconium (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010									

Keremeos Transfer Station
Water Quality Results

Sampling Location													960 Keremeos Bypass Rd. 17-Jul-19 9071916-03 Normal	960 Keremeos Bypass Rd. 12-Nov-19 N001627-05 Normal	960 Keremeos Bypass Rd. 23-Jun-20 0062446-01 Normal	960 Keremeos Bypass Rd. 12-Nov-20 20K1492-01 Normal	960 Keremeos Bypass Rd. 12-Apr-21 21D1236-01 Normal	960 Keremeos Bypass Rd. 24-Jun-21 21F3508-01 Normal	960 Keremeos Bypass Rd. 27-Oct-21 21J3945-02 Normal	960 Keremeos Bypass Rd. 18-May-22 22E2753-02 Normal	960 Keremeos Bypass Rd. 03-Aug-22 22H0608-01 Normal	960 Keremeos Bypass Rd. 16-Nov-22 22K2135-06 Normal	960 Keremeos Bypass Rd. 19-Apr-23 23D2156-01 Normal	960 Keremeos Bypass Rd. 13-Jul-23 23G1940-01 Normal	960 Keremeos Bypass Rd. 09-Nov-23 23K1417-01 Normal	
Analyte	Unit	Guideline											Date Sampled	Lab Sample ID	Sample Type											
		GCDWQ MAC	GCDWQ AO & O	BCAWQG L	BCWWQG L	BCAWQG I	BCWWQG I	BC SDWQG MAC	BC SDWQG AO	CSR IW	CSR LW	CSR DW														
Hardness (as CaCO3), dissolved	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	227		240	246	388	256	309	227	235	253	215	249	226	264
Hardness (as CaCO3), from total Ca/Mg	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG											251			
pH		NG	NG	5.0 - 9.5 ^{3.15}	NG	5.0 - 9.5 ^{5.14}	NG	NG	NG	NG	NG	NG	7.96	7.95	8.03	7.86	7.91	7.96	7.97	7.14	8.01	7.94	7.77	7.96	7.58	
Sulphate	mg/L	NG	NG	1000	1000 ^{4.4}	NG	NG	NG	NG	500	NG	1000	71.9	68.9	70.5	134	70.8	70.7	70.5	71.6	63.8	70.9	72.9	70.3	72.5	
Microbiological																										
Total coliforms (counts)	CFU/100 mL	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG					<1			<1			<1	<1		
Total coliforms (MPN)	MPN/100 mL	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG			<1.0					<1						
E. coli (counts)	CFU/100 mL	NG	NG	200 ^{3.16}	NG	385 ^{5.15}	NG	10 ^{7.3}	NG	NG	NG	NG					<1			<1			<1	<1		
E. coli (MPN)	MPN/100 mL	NG	NG	200 ^{3.17}	NG	385 ^{5.16}	NG	10 ^{7.4}	NG	NG	NG	NG			<1.0					<1						
Heterotrophic plate count (counts)	CFU/mL	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG														
Heterotrophic plate count (MPN)	MPN/mL	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG														
Nutrients																										
Ammonia (total, as N)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	0.021	0.205	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	
Nitrate (as N)	mg/L	NG	NG	100 ^{3.18}	NG	NG	NG	10	NG	NG	100 ^{10.3}	10 ^{11.11}	0.981	0.751	0.966	2.21	0.685	0.837	0.670	0.846	0.747	0.793	0.696	0.509	0.725	
Nitrate + Nitrite (as N)	mg/L	NG	NG	100 ^{3.19}	NG	NG	NG	NG	NG	NG	100 ^{10.4}	10 ^{11.12}	0.981	0.751	0.966	2.21	0.685	0.837	0.670	0.846	0.747	0.793	0.696	0.509	0.725	
Nitrate + Nitrite (as N) (calculated)	mg/L	NG	NG	100 ^{3.20}	NG	NG	NG	NG	NG	NG	100 ^{10.5}	10 ^{11.13}	0.981	0.751	0.966	2.21	0.685	0.837	0.670	0.846	0.747	0.793	0.696	0.509	0.725	
Nitrite (as N)	mg/L	NG	NG	10 ^{3.21}	NG	NG	NG	1.0	NG	NG	10.000	1	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	
Total nitrogen	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG														
Total kjeldahl nitrogen	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG														
Phosphorus (dissolved, by ICPMS/ICPOES)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	N ^{4.1}	NG	<0.050	<0.050	<0.050	0.074	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050		
Phosphorus (total, by ICPMS/ICPOES)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	N ^{4.2}	NG			<0.050		<0.050		<0.050		<0.050		<0.050			
Potassium (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	2.52	2.65	2.59	3.76	2.76	3.24	2.40	2.57	2.70	2.66	2.79	2.84	2.94	
Potassium (total)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG			2.62		2.78			2.56			2.87			
Total Metals																										
Aluminum (total)	mg/L	NG	NG	5 ^{3.22}	NG	5 ^{5.17}	NG	9.5	NG	NG	NG	9.500 ^{11.14}			<0.0050		0.0053			<0.0050			0.0054			
Antimony (total)	mg/L	NG	NG	NG	NG	NG	NG	0.006	NG	NG	NG	0.006			<0.00020		<0.00020			<0.00020			<0.00020			
Arsenic (total)	mg/L	NG	NG	0.025 ^{3.23}	NG	0.100 ^{5.18}	NG	0.01	NG	NG	NG	0.010			0.00129		0.00137			0.00118			0.00119			
Barium (total)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	1.000			0.0310		0.0306			0.0269			0.0286			
Beryllium (total)	mg/L	NG	NG	NG	0.100	NG	0.100	NG	NG	NG	NG	0.008			<0.00010		<0.00010			<0.00010			<0.00010			
Bismuth (total)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG			<0.00010		<0.00010			<0.00010			<0.00010			
Boron (total)	mg/L	NG	NG	5	NG	0.5 ^{5.19}	NG	5.0	NG	NG	NG	5.000			<0.0500		<0.0500			<0.0500			<0.0500			
Cadmium (total)	mg/L	NG	NG	NG	0.080 ^{4.5}	NG	0.0051 ^{6.8}	0.005	NG	NG	NG	0.005			0.000018		<0.000010			<0.000010			0.000014			
Calcium (total)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG			78.7		75.9			72.4			75.4			
Chromium (total)	mg/L	NG	NG	NG	0.050 ^{4.6}	NG	0.0049 ^{6.9}	0.05	NG	NG	NG	0.050 ^{11.15}			0.00126		0.00136			0.00115			0.00111			
Cobalt (total)	mg/L	NG	NG	NG	1	NG	0.050 ^{5.10}	0.001	NG	NG	NG	0.001 ^{11.16}			<0.00010		<0.00010			<0.00010			<0.00010			
Copper (total)	mg/L	NG	NG	0.300	NG	0.200 ^{5.20}	NG	2.0 ^{7.5}	1.0	NG	NG	1.500 ^{11.17}			0.00566		0.00464			0.00341			0.00482			
Iron (total)	mg/L	NG	NG	NG	NG	NG	NG	NG	0.3	NG	NG	6.500 ^{11.18}			<0.010		<0.010			<0.010			<0.010			
Lead (total)	mg/L	NG	NG	0.100	NG	0.200 ^{5.21}	NG	0.005	NG	NG	NG	0.010			<0.00020		<0.00020			<0.00020			<0.00020			
Lithium (total)	mg/L	NG	NG	NG	NG	NG	0.75 ^{6.11}	NG	NG	NG	NG	0.008			0.00338		0.00305			0.00279			0.00277			
Magnesium (total)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG			16.9		15.8			13.8			15.2			
Manganese (total)	mg/L	NG	NG	NG	NG	NG	0.200	0.12	0.02	NG	NG	1.500 ^{11.19}			<0.00020		0.00055			0.00021			0.00030			
Mercury (total)	mg/L	NG	NG	0.0030	NG	0.0020	NG	0.001	NG	NG	NG	0.001			<0.000010		<0.000010			<0.000010			<0.000010			
Molybdenum (total)	mg/L	NG	NG	0.016 ^{3.24}	NG	0.01 ^{5.22}	NG	0.088	NG	NG	NG	0.250			0.00266		0.00273			0.00258			0.00254			
Nickel (total)	mg/L	NG	NG	NG	1	NG	0.200	0.08	NG	NG	NG	0.080			0.00114		0.00160			0.00089			0.00114			
Selenium (total)	mg/L	NG	NG	0.0300 ^{3.25}	NG	0.010 ^{5.23}	NG	0.01	NG	NG	NG	0.010			0.00252		0.00208			0.00193			0.00207			
Silicon (total, as Si)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG			9.4		11.3			9.1			9.9			
Silver (total)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	0.020			<0.000050		<0.000050			<0.000050			<0.000050			
Sodium (total)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	200 ^{11.20}			14.4		12.6			12.2			12.9			
Strontium (total)	mg/L	NG	NG	NG	NG	NG	NG	7.0	NG	NG	NG	2.500			0.546		0.508			0.536			0.543			
Sulphur (total)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG			26.3		22.9			22.7			25.3			
Tellurium (total)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG			<0.00050		<0.00050			<0.00050						

Keremeos Transfer Station

													Sampling Location		960 Karamenos Bypass Rd.	960 Karamenos Bypass Rd.	960 Karamenos Bypass Rd.	960 Karamenos Bypass Rd.	960 Karamenos Bypass Rd.	960 Karamenos Bypass Rd.	960 Karamenos Bypass Rd.	960 Karamenos Bypass Rd.	BH-99	BH-99	BH-99	BH-99
													Date Sampled	06-May-24	14-May-24	06-Jun-24	22-Jul-24	22-Jul-24	13-Nov-24	10-Apr-25	22-Jul-25	28-Oct-25	25-Jan-06	28-Apr-06	15-Aug-06	06-Dec-06
													Lab Sample ID	24E1371-01	24E2032-01	24F0899-01	24G2880-01	24G2915-01	24K1683-05	25D1647-01	25G3486-01	25J4035-01	1716888	1843631	1977611	2101861
													Sample Type	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal
Analyte	Unit	Guideline											CSR LW	CSR DW												
		GCDWQ MAC	GCDWQ AO & O	BCAWQG L	BCWWQG L	BCAWQG I	BCWWQG I	BC SDWQG MAC	BC SDWQG AQ	CSR IW																
Field Results																										
Conductivity	µS/cm	NG	NG	NG	NG	NG	700 ^{6.1}	NG	NG	NG	NG	NG	NG	523.5		524.0	524.4	212.3	545	543.9						
Depth to Water (below top of casing)	m	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG													
Oxidation reduction potential	mV	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	305.0		263.7	332.4	212.2	201.4	243.2						
Dissolved oxygen	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	4.28		4.09	4.99	3.85	4.82	5.38						
pH		NG	NG	5.0 - 9.5 ^{3.1}	NG	5.0 - 9.5 ^{5.1}	NG	NG	NG	NG	NG	NG	NG	7.61		7.82	7.58	7.87	7.70	7.60						
Salinity		NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG													
Total dissolved solids	mg/L	NG	NG	NG	1000 ^{4.1}	NG	500 ^{6.2}	NG	NG	NG	NG	NG	NG	340.6		340.6	340.6	354.2	354.0	353.6						
Temperature	°C	NG	NG	N ^{3.2}	NG	N ^{5.2}	NG	NG	15	NG	NG	NG	NG	10.8		11.5	10.8	10.6	11.1	11.0						
Turbidity	NTU	NG	NG	N ^{3.3}	NG	N ^{5.3}	NG	N ^{7.1}	NG	NG	NG	NG	NG	0.29		0.10	0.05	0.15	0.07	0.04						
Volume Purged	L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG													
Lab Results																										
Dissolved Metals																										
Aluminum (dissolved)	mg/L	NG	NG	5 ^{3.4}	NG	5 ^{5.4}	NG	9.5	NG	5.000	5.000	9.500 ^{11.1}	<0.0050			<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.005			<0.005	<0.005	
Antimony (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	0.006	NG	NG	NG	0.006	<0.00020			<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.0002			<0.0002	0.0005	
Arsenic (dissolved)	mg/L	NG	NG	0.025 ^{3.5}	NG	0.100 ^{5.5}	NG	0.01	NG	0.100	0.025	0.010	0.00128			0.00123	0.00123	0.00118	0.00122	0.00123	0.0015			0.0013	0.0012	
Barium (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	1.000	0.0308			0.0298	0.0314	0.0304	0.0300	0.0300	0.046			0.044	0.173	
Beryllium (dissolved)	mg/L	NG	NG	NG	0.100	NG	0.100	NG	0.100	NG	0.100	0.008	<0.00010			<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.0001			<0.0001	<0.0001	
Bismuth (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	<0.00010			<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.0005			<0.0005	<0.0005	
Boron (dissolved)	mg/L	NG	NG	5 ^{3.6}	NG	0.5 ^{5.6}	NG	5.0	NG	0.500 ^{9.1}	5.000	5.000	<0.0500			<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	0.022			0.018	0.021	
Cadmium (dissolved)	mg/L	NG	NG	0.080 ^{4.2}	NG	0.0051 ^{6.3}	0.005	NG	0.005	0.000013	0.000014	0.000015	<0.000010			0.000015	0.000011	0.000011	<0.000010	0.000012	0.00003			0.00002	0.00002	
Calcium (dissolved)	mg/L	NG	NG	NG	1000	NG	NG	NG	NG	NG	1000	NG	76.3			80.9	76.5	75.5	78.3	78.3	103	105		110	106	
Chromium (dissolved)	mg/L	NG	NG	NG	0.050 ^{4.3}	NG	0.0049 ^{6.4}	0.05	NG	0.005 ^{10.1}	0.050 ^{11.2}	0.00117	0.00117			0.00110	0.00113	0.00118	0.00116	0.00111	0.0087		0.004	0.003		
Cobalt (dissolved)	mg/L	NG	NG	NG	1	NG	0.0049 ^{5.5}	0.001	NG	0.050	0.050	1.000	<0.00010			<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.0001		<0.0001	<0.0001		
Copper (dissolved)	mg/L	NG	NG	0.300 ^{3.7}	NG	0.200 ^{7.7}	NG	2.0 ^{7.2}	1.0	0.200	0.300	1.500 ^{11.4}	0.00377			0.00403	0.00479	0.00402	0.00354	0.00508	<0.001		<0.001	<0.001		
Iron (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	NG	0.3	5.000 ^{9.3}	NG	6.500 ^{11.5}	<0.010			<0.010	<0.010	<0.010	<0.010	<0.010	<0.01		<0.01	<0.01		
Lead (dissolved)	mg/L	NG	NG	0.100 ^{3.8}	NG	0.200 ^{5.8}	NG	0.005	NG	0.200	0.100	0.010	<0.00020			<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.0001		<0.0001	0.0007		
Lithium (dissolved)	mg/L	NG	NG	NG	NG	NG	0.75 ^{5.6}	NG	NG	2.500 ^{9.4}	5.000	0.008	0.00298			0.00306	0.00291	0.00336	0.00301	0.00298	0.006		0.005	0.005		
Magnesium (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	15.4			15.9	15.6	16.0	16.6	15.4	21.8	23.9	24.3	22.1		
Manganese (dissolved)	mg/L	NG	NG	NG	NG	NG	0.200	0.12	0.02	0.200 ^{9.5}	NG	1.500 ^{11.6}	<0.00020			0.00024	0.00036	<0.00020	<0.00020	0.00022	<0.005		<0.005	<0.005		
Mercury (dissolved)	mg/L	NG	NG	0.0030 ^{3.9}	NG	0.0020 ^{5.9}	NG	0.001	NG	0.001	0.002	0.001	<0.000010			<0.000010	<0.000010	<0.000010	<0.000010	<0.00003	<0.00002		<0.0002	<0.0002		
Molybdenum (dissolved)	mg/L	NG	NG	0.016 ^{3.10}	NG	0.01 ^{5.10}	NG	0.088	NG	0.088	0.010 ^{9.6}	0.050	0.00229			0.00207	0.00235	0.00244	0.00256	0.00232	0.002		0.002	0.002		
Nickel (dissolved)	mg/L	NG	NG	NG	1	NG	0.200	0.08	NG	0.200	0.080	0.0070	0.00070			0.00091	0.00092	0.00091	0.00077	0.00066	<0.0005		<0.0005	<0.0005		
Selenium (dissolved)	mg/L	NG	NG	0.0300 ^{3.11}	NG	0.010 ^{5.11}	NG	0.01	NG	0.030 ^{9.7}	0.030	0.010	0.00213			0.00210	0.00216	0.00184	0.00207	0.00230	0.005		0.005	0.004		
Silicon (dissolved, as Si)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	9.6			10.0	10.4	9.9	9.8	9.5	9.79		10.4	9.93		
Silver (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	0.020	<0.000050			<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.0001		<0.0001	<0.0001		
Sodium (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	200 ^{11.7}	12.3			13.2	13.3	13.2	13.2	13.2	24.1		24.1	23.1		
Strontium (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	7.0	NG	NG	NG	2.500	0.544			0.532	0.555	0.535	0.533	0.591	0.769		0.749	0.668		
Sulphur (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	22.6			24.4	24.4	23.5	24.6	30.4	32.5		32.5	32		
Tellurium (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	<0.00050			<0.00050	<0.00050	<0.00050	<0.00050	<0.00050						
Thallium (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	<0.000020			<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.00005		<0.00005	<0.00005		
Thorium (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	<0.00010			<0.00010	<0.00010	<0.00010	<0.00010	<0.00010						
Tin (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	2.500	<0.00020			<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.001		<0.001	<0.001		
Titanium (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	<0.0050			<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0021		0.0015	0.0029		
Tungsten (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	0.003	<0.0010			<0.0010	<0.0010	<0.0010	<0.0010	<0.0010						
Uranium (dissolved)	mg/L	NG	NG	NG	0.200	NG	0.010	0.02	NG	0.010	0.200	0.020	0.00140			0.00143	0.00139	0.00167	0.00169	0.00167	0.0024		0.0024	0.0022		
Vanadium (dissolved)	mg/L	NG	NG	NG	0.100	NG	0.100	NG	NG	0.100	0.100	0.020	<0.0050			<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0028		0.0057	0.0026		
Zinc (dissolved)	mg/L	NG	NG	2.000 ^{3.12}	NG	1.000 ^{5.12}	NG	3.0	5.0	1.000 ^{9.8}	2.000	3.000 ^{11.8}	<0.0040			<0.0040	0.0046	<0.0040	<0.0040	0.0042	0.008		0.001	0.003		
Zirconium (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	<0.00010			<0.00010	<0.00010	<0.00010	<0.00010	<0.00010						
General																										
Bicarbonate alkalinity (as HCO3)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	227			225	217	222	216	242						
Carbonate alkalinity (as CO3)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	<0.600			<0.600	<0.600	<0.600	<0.600	<0.600						
Hydroxide alkalinity (as OH)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	<0.340			<0.340	<0.340	<0.340	<0.340	<0.340						
Alkalinity (bicarbonate, as CaCO3)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	186			184	178	182	177	199						
Alkalinity (carbonate, as CaCO3)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	<1.0			<1.0	<1.0	<1.0	<1.0	<1.0						
Alkalinity (hydroxide, as CaCO3)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	<1.0			<1.0	<1.0	<1.0	<1.0	<1.0						
Alkalinity (phenolphthalein, as CaCO3)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	<1.0													

Keremeos Transfer Station
Water Quality Results

Sampling Location													960 Keremeos Bypass Rd.	960 Keremeos Bypass Rd.	960 Keremeos Bypass Rd.	960 Keremeos Bypass Rd.	960 Keremeos Bypass Rd.	960 Keremeos Bypass Rd.	960 Keremeos Bypass Rd.	960 Keremeos Bypass Rd.	BH-99	BH-99	BH-99	BH-99	
Date Sampled													06-May-24	14-May-24	06-Jun-24	22-Jul-24	22-Jul-24	13-Nov-24	10-Apr-25	22-Jul-25	28-Oct-25	25-Jan-06	28-Apr-06	15-Aug-06	06-Dec-06
Lab Sample ID													24E1371-01	24E2032-01	24F0899-01	24G2880-01	24G2915-01	24K1683-05	25D1647-01	25G3486-01	25J4035-01	1716888	1843631	1977611	2101861
Sample Type													Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal
Analyte	Unit	Guideline											Date Sampled	Lab Sample ID	Sample Type										
		GCDWQ MAC	GCDWQ AO & O	BCAWQG L	BCWWQG L	BCAWQG I	BCWWQG I	BC SDWQG MAC	BC SDWQG AO	CSR IW	CSR LW	CSR DW													
Hardness (as CaCO3), dissolved	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	254				268	255	255	264	259	346	360	374	357
Hardness (as CaCO3), from total Ca/Mg	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	265						248						
pH		NG	NG	5.0 - 9.5 ^{3,15}	NG	5.0 - 9.5 ^{5,14}	NG	NG	NG	NG	NG	NG	8.01				7.51	7.96	7.95	8.00	7.87	7.12	7.12	7.17	7.19
Sulphate	mg/L	NG	NG	1000	1000 ^{4,4}	NG	NG	NG	500	NG	1000	500 ^{11,10}	76.5				68.4	72.4	69.3	65.1	74.8	90	92	97	92
Microbiological																									
Total coliforms (counts)	CFU/100 mL	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG		1	<1	<1			<1	<1	<1				
Total coliforms (MPN)	MPN/100 mL	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG													
E. coli (counts)	CFU/100 mL	NG	NG	200 ^{3,16}	NG	385 ^{5,15}	NG	10 ^{7,3}	NG	NG	NG	NG		<1	<1	<1			<1	<1	<1				
E. coli (MPN)	MPN/100 mL	NG	NG	200 ^{3,17}	NG	385 ^{5,16}	NG	10 ^{7,4}	NG	NG	NG	NG													
Heterotrophic plate count (counts)	CFU/mL	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG													
Heterotrophic plate count (MPN)	MPN/mL	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG													
Nutrients																									
Ammonia (total, as N)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	<0.050				<0.050	0.064	<0.050	<0.050	<0.050	<0.05	<0.05	<0.002	0.004
Nitrate (as N)	mg/L	NG	NG	100 ^{3,18}	NG	NG	NG	10	NG	NG	100 ^{10,3}	10 ^{11,11}	0.896				0.778	0.783	0.751	0.680	0.561	1.41	1.5	1.94	1.71
Nitrate + Nitrite (as N)	mg/L	NG	NG	100 ^{3,19}	NG	NG	NG	NG	NG	NG	100 ^{10,4}	10 ^{11,12}	0.896				0.778	0.783	0.751	0.680	0.561				
Nitrate + Nitrite (as N) (calculated)	mg/L	NG	NG	100 ^{3,20}	NG	NG	NG	NG	NG	NG	100 ^{10,5}	10 ^{11,13}	0.896				0.778	0.783	0.751	0.680	0.561	1.41	1.5	1.94	1.71
Nitrite (as N)	mg/L	NG	NG	10 ^{3,21}	NG	NG	NG	1.0	NG	NG	10.000	1	<0.010				<0.010	<0.010	<0.010	<0.010	<0.010	<0.03	<0.03	<0.03	<0.03
Total nitrogen	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG												1.96	
Total kjeldahl nitrogen	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG									<0.05	<0.06	<0.06	0.21	
Phosphorus (dissolved, by ICPMS/ICPOES)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	N ^{8,1}	NG	NG	<0.050				<0.050	<0.050	<0.050	<0.050	<0.050	0.005	0.007	<0.02	<0.02
Phosphorus (total, by ICPMS/ICPOES)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	N ^{8,2}	NG	NG	<0.050						<0.050						
Potassium (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	2.84				2.92	2.95	2.86	2.96	2.98	3.7		3.8	3.4
Potassium (total)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	2.93						2.67				3.7		
Total Metals																									
Aluminum (total)	mg/L	NG	NG	5 ^{3,22}	NG	5 ^{5,17}	NG	9.5	NG	NG	NG	9.500 ^{11,14}	<0.0050						<0.0050				<0.01		
Antimony (total)	mg/L	NG	NG	NG	NG	NG	NG	0.006	NG	NG	NG	0.006	<0.00020						<0.00020				<0.0004		
Arsenic (total)	mg/L	NG	NG	0.025 ^{3,23}	NG	0.100 ^{5,18}	NG	0.01	NG	NG	NG	0.010	0.00127						0.00115				0.001		
Barium (total)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	1.000	0.0286										0.046		
Beryllium (total)	mg/L	NG	NG	NG	0.100	NG	0.100	NG	NG	NG	NG	0.008	<0.00010						<0.00010				<0.0002		
Bismuth (total)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	<0.00010						<0.00010				<0.001		
Boron (total)	mg/L	NG	NG	5	NG	0.5 ^{5,19}	NG	5.0	NG	NG	NG	5.000	<0.0500						<0.0500				0.02		
Cadmium (total)	mg/L	NG	NG	NG	0.080 ^{4,5}	NG	0.0051 ^{6,8}	0.005	NG	NG	NG	0.005	0.000013						0.000013				<0.00002		
Calcium (total)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	79.4										106		
Chromium (total)	mg/L	NG	NG	NG	NG	0.050 ^{4,6}	NG	0.0049 ^{6,9}	0.05	NG	NG	0.050 ^{11,15}	0.00118						0.00113				0.0025		
Cobalt (total)	mg/L	NG	NG	NG	1	NG	0.050 ^{6,10}	0.001	NG	NG	NG	0.001 ^{11,16}	<0.00010						<0.00010				<0.0002		
Copper (total)	mg/L	NG	NG	0.300	NG	0.200 ^{5,20}	NG	2.0 ^{7,5}	1.0	NG	NG	1.500 ^{11,17}	0.00366						0.00388				0.004		
Iron (total)	mg/L	NG	NG	NG	NG	NG	NG	NG	0.3	NG	NG	6.500 ^{11,18}	<0.010						<0.010				<0.2		
Lead (total)	mg/L	NG	NG	0.100	NG	0.200 ^{5,21}	NG	0.005	NG	NG	NG	0.010	<0.00020						<0.00020				0.0006		
Lithium (total)	mg/L	NG	NG	NG	NG	NG	0.75 ^{6,11}	NG	NG	NG	NG	0.008	0.00286						0.00269				0.004		
Magnesium (total)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	16.2						14.1				21.9		
Manganese (total)	mg/L	NG	NG	NG	NG	NG	0.200	0.12	0.02	NG	NG	1.500 ^{11,19}	0.00021						<0.00020				<0.01		
Mercury (total)	mg/L	NG	NG	0.0030	NG	0.0020	NG	0.001	NG	NG	NG	0.001	<0.000010						<0.000010						
Molybdenum (total)	mg/L	NG	NG	0.016 ^{3,24}	NG	0.01 ^{5,22}	NG	0.088	NG	NG	NG	0.250	0.00259						0.00243				0.003		
Nickel (total)	mg/L	NG	NG	NG	1	NG	0.200	0.08	NG	NG	NG	0.080	0.00076						0.00082				<0.001		
Selenium (total)	mg/L	NG	NG	0.0300 ^{3,25}	NG	0.010 ^{5,23}	NG	0.01	NG	NG	NG	0.010	0.00210						0.00186				0.0036		
Silicon (total, as Si)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	10.0						9.6				9.53		
Silver (total)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	0.020	<0.000050						<0.000050				<0.0002		
Sodium (total)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	200 ^{11,20}	13.7						12.5				21.6		
Strontium (total)	mg/L	NG	NG	NG	NG	NG	NG	7.0	NG	NG	NG	2.500	0.526						0.535				0.804		
Sulphur (total)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	24.9						22.5				29.9		
Tellurium (total)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	<0.00050						<0.00050						



Keremeos Transfer Station
Water Quality Results

Sampling Location													BH-99	BH-99	BH-99	BH-99	BH-99	BH-99	BH-99	BH-99	BH-99	BH-99	BH-99	BH-99	BH-99						
Date Sampled													22-Feb-07	30-May-07	29-Aug-07	10-Dec-07	01-Apr-08	03-Jul-08	25-Sep-08	10-Dec-08	02-Apr-09	10-Jun-09	22-Sep-09	BH-99	BH-99	BH-99					
Lab Sample ID													2171603	2306678	2430976	2535252	2639236	K52861	L83610	N12090	O32908	P22252	Q90674	S14959	T28797						
Sample Type													Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal					
Analyte	Unit	Guideline																													
		GCDWQ MAC	GCDWQ AO & O	BCAWQG L	BCWWQG L	BCAWQG I	BCWWQG I	BC SDWQG MAC	BC SDWQG AO	CSR IW	CSR LW	CSR DW																			
Field Results																															
Conductivity	µS/cm	NG	NG	NG	NG	NG	700 ^{6.1}	NG	NG	NG	NG	NG						709	729	766	717	741	636	775	719						
Depth to Water (below top of casing)	m	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG						41.1	42.144	41.57	41.098	41.854	42.64	41.772	41.125						
Oxidation reduction potential	mV	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG						225.1	158.1	128.6	230.2	85.5	113.8	61.9	86.1						
Dissolved oxygen	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG						7.13	8.26	7.46	7.16	7.37	8.36	8.68	7.84						
pH		NG	NG	NG	5.0 - 9.5 ^{3.1}	NG	5.0 - 9.5 ^{5.1}	NG	NG	NG	NG	NG						5.99	7.24	6.79	6.82	7.02	7.05	6.76	6.94						
Salinity		NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG													0.35						
Total dissolved solids	mg/L	NG	NG	NG	1000 ^{4.1}	NG	500 ^{6.2}	NG	NG	NG	NG	NG						461	474		466	482	416	504	467						
Temperature	°C	NG	NG	NG	N ^{3.2}	NG	N ^{5.2}	NG	NG	15	NG	NG						12.05	11.05	9.9	10.04	11.1	11.69	9.44	10.35						
Turbidity	NTU	NG	NG	NG	N ^{3.3}	NG	N ^{5.3}	NG	N ^{7.1}	NG	NG	NG						8.34	5.51	54	5.49	1.32	6.21	9.91	8.27						
Volume Purged	L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG						19.2	17.4	27.5	20.8	24.5	43.2	16.2	19.5						
Lab Results																															
Dissolved Metals																															
Aluminum (dissolved)	mg/L	NG	NG	5 ^{3.4}	NG	5 ^{5.4}	NG	9.5	NG	5.000	5.000	9.500 ^{11.1}	<0.005	<0.005	<0.005	<0.005	<0.005	0.040	0.007	0.008	0.001	0.001	<0.003	<0.003	<0.003						
Antimony (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	0.006	NG	NG	NG	0.006	<0.0002	<0.0002	<0.0002	<0.0002	0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005						
Arsenic (dissolved)	mg/L	NG	NG	0.025 ^{3.5}	NG	0.100 ^{5.5}	NG	0.01	NG	0.100	0.025	0.010	0.001	0.001	0.0012	0.0012	0.0012	0.001	0.0011	0.001	0.0012	0.001	0.001	0.0009	0.0009						
Barium (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	1.000	0.048	0.049	0.045	0.048	0.04	0.046	0.046	0.046	0.026	0.040	0.049	0.046	0.043						
Beryllium (dissolved)	mg/L	NG	NG	NG	0.100	NG	0.100	NG	NG	0.100	0.100	0.008	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001						
Bismuth (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001						
Boron (dissolved)	mg/L	NG	NG	5 ^{3.6}	NG	0.5 ^{5.6}	NG	5.0	NG	0.500 ^{9.1}	5.000	5.000	0.018	0.019	0.019	0.019	0.019	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050						
Cadmium (dissolved)	mg/L	NG	NG	NG	0.080 ^{4.2}	NG	0.0051 ^{9.3}	0.005	NG	0.005	0.080	0.005	0.00002	0.00003	0.00003	0.00002	0.00002	0.00003	0.00002	0.00002	0.00002	0.00002	0.00002	0.00003	0.00002						
Calcium (dissolved)	mg/L	NG	NG	NG	1000	NG	NG	NG	NG	NG	1000	NG	112	110	102	105	95.4	115	106	114	74	96.1	111	114	104						
Chromium (dissolved)	mg/L	NG	NG	NG	0.050 ^{4.3}	NG	0.0049 ^{5.4}	0.05	NG	0.005 ^{9.2}	0.050 ^{10.1}	0.050 ^{11.2}	0.0024	0.0024	0.0045	0.0021	0.0041	0.002	0.003	0.002	<0.001	0.002	0.002	0.002	0.002						
Cobalt (dissolved)	mg/L	NG	NG	NG	1	NG	0.050 ^{6.5}	0.001	NG	0.050	1.000	0.001 ^{11.3}	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005						
Copper (dissolved)	mg/L	NG	NG	0.300 ^{3.7}	NG	0.200 ^{5.7}	NG	2.0 ^{7.2}	1.0	0.200	0.300	1.500 ^{11.4}	<0.001	<0.001	<0.001	0.018	<0.001	<0.0002	0.0003	0.0004	0.0031	0.0009	0.0004	0.0002	0.0003						
Iron (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	NG	0.3	5.000 ^{9.3}	NG	6.500 ^{11.5}	<0.01	0.01	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	0.008	<0.005	<0.005						
Lead (dissolved)	mg/L	NG	NG	0.100 ^{3.8}	NG	0.200 ^{5.8}	NG	0.005	NG	0.200	0.100	0.010	<0.0001	<0.0001	0.0007	<0.0001	<0.0001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002						
Lithium (dissolved)	mg/L	NG	NG	NG	NG	NG	0.75 ^{6.6}	NG	NG	2.500 ^{9.4}	5.000	0.008	0.006	0.006	0.005	0.005	0.005						0.005	0.008	<0.005						
Magnesium (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	23.8	24.4	22.9	22.4	22.1	22.9	23	23	14.5	21.1	24.9	23.2	20.4						
Manganese (dissolved)	mg/L	NG	NG	NG	NG	NG	0.200	0.12	0.02	0.200 ^{9.5}	NG	1.500 ^{11.6}	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001						
Mercury (dissolved)	mg/L	NG	NG	0.0030 ^{3.9}	NG	0.0020 ^{5.9}	NG	0.001	NG	0.001	0.002	0.001	<0.00002	<0.00002	<0.00002	<0.00001	<0.00001	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002						
Molybdenum (dissolved)	mg/L	NG	NG	0.016 ^{3.10}	NG	0.01 ^{5.10}	NG	0.088	NG	0.010 ^{9.6}	0.050	0.250	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002						
Nickel (dissolved)	mg/L	NG	NG	NG	1	NG	0.200	0.08	NG	0.200	1.000	0.080	<0.0005	<0.0005	0.0008	<0.0005	<0.0005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001						
Selenium (dissolved)	mg/L	NG	NG	0.0300 ^{3.11}	NG	0.010 ^{5.11}	NG	0.01	NG	0.020 ^{9.7}	0.030	0.010	0.0042	0.0029	0.0039	0.0035	0.0041	0.0041	0.004	0.0042	0.0021	0.0039	0.004	0.0034	0.0035						
Silicon (dissolved, as Si)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	10.4	10.3	9.96	10.1	9.77	8.950	10.700	9.400	9.180	11.700	10.500	9.900	8.640						
Silver (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	0.020	<0.0001	<0.0001	<0.0001	<0.0001	<0.00001	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002						
Sodium (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	200 ^{11.7}	22.5	22.1	20.8	21.7	21.9	21.5	20.7	20.9	11.5	18.5	20.5	19.8	17.8						
Strontium (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	7.0	NG	NG	NG	2.500	0.803	0.8	0.724	0.705	0.725	0.758	0.772	0.790	0.464	0.673	0.769	0.757	0.774						
Sulphur (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	30.3	32.9	30.8	31.8	36.6	39	39	38	25	37	39	36	33						
Tellurium (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG																			
Thallium (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005						

Keremeos Transfer Station
Water Quality Results

Sampling Location													BH-99	BH-99	BH-99	BH-99	BH-99	BH-99	BH-99	BH-99	BH-99	BH-99	BH-99	BH-99														
Date Sampled													22-Feb-07	30-May-07	29-Aug-07	10-Dec-07	01-Apr-08	03-Jul-08	25-Sep-08	10-Dec-08	02-Apr-09	10-Jun-09	22-Sep-09	12-Oct-09	17-Mar-10													
Lab Sample ID													2171603	2306678	2430976	2535252	2639236	K52861	L83610	N12090	O32908	P22252	Q00674	S14959	T28797													
Sample Type													Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal													
Analyte	Unit	Guideline											BC SDWQG MAC	BC SDWQG AO	CSR IW	CSR LW	CSR DW																					
		GCDWQ MAC	GCDWQ AO & O	BCAWQG L	BCWWQG L	BCAWQG I	BCWWQG I	BC SDWQG MAC	BC SDWQG AO	CSR IW	CSR LW	CSR DW																										
Hardness (as CaCO3), dissolved	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	377			348		354		329		383		359		380		245		327		380		379		345	
Hardness (as CaCO3), from total Ca/Mg	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG				374																					
pH		NG	NG	5.0 - 9.5 ^{3,15}	NG	5.0 - 9.5 ^{5,14}	NG	NG	NG	NG	NG	NG	NG	7.37	7.6	7.58	7.56	7.6	7.7	7.9	7.9	8.1	8	7.9	8	7.9												
Sulphate	mg/L	NG	NG	1000	1000 ^{4,4}	NG	NG	NG	NG	500	NG	1000	500 ^{11,10}	94	95	10.1	87.7	22.3	97	72	120	72	110	110	110	89												
Microbiological																																						
Total coliforms (counts)	CFU/100 mL	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG																									
Total coliforms (MPN)	MPN/100 mL	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG																									
E. coli (counts)	CFU/100 mL	NG	NG	200 ^{3,16}	NG	385 ^{5,15}	NG	10 ^{7,3}	NG	NG	NG	NG	NG																									
E. coli (MPN)	MPN/100 mL	NG	NG	200 ^{3,17}	NG	385 ^{5,16}	NG	10 ^{7,4}	NG	NG	NG	NG	NG																									
Heterotrophic plate count (counts)	CFU/mL	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG																									
Heterotrophic plate count (MPN)	MPN/mL	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG																									
Nutrients																																						
Ammonia (total, as N)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	<0.002	0.017	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	0.005	<0.005	0.012	<0.005	<0.005												
Nitrate (as N)	mg/L	NG	NG	100 ^{3,18}	NG	NG	NG	NG	10	NG	NG	100 ^{10,3}	10 ^{11,11}	1.6	1.5	2	1.71	1.56	2.26	2.8	2.26	0.77	2.2	3.3	2.89	2.16												
Nitrate + Nitrite (as N)	mg/L	NG	NG	100 ^{3,19}	NG	NG	NG	NG	NG	NG	NG	100 ^{10,4}	10 ^{11,12}						2.26	2.8	2.26	0.77	2.2	3.3	2.89	2.16												
Nitrate + Nitrite (as N) (calculated)	mg/L	NG	NG	100 ^{3,20}	NG	NG	NG	NG	NG	NG	NG	100 ^{10,5}	10 ^{11,13}	1.6	1.5	2	1.71	1.56	2.26	2.8	2.26	0.77	2.2	3.3	2.89	2.16												
Nitrite (as N)	mg/L	NG	NG	10 ^{3,21}	NG	NG	NG	1.0	NG	NG	10.000	1	<0.05	<0.05	<0.05	<0.02	<0.02	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005													
Total nitrogen	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	<0.06	<0.06	0.22	0.36	0.09	<0.04	<0.2	<0.04	0.79	2.22	3.3	3.2	1.97												
Total kjeldahl nitrogen	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	<0.06	<0.06	0.22	0.36	0.09	<0.04	<0.2	<0.04	0.79	2.22	3.3	3.2	1.97												
Phosphorus (dissolved, by ICPMS/ICPOES)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	N ^{8,1}	NG	<0.02	<0.02	<0.02	<0.02	<0.06	<0.010	<0.010	<0.010	0.03	<0.04	<0.2	0.3	<0.04												
Phosphorus (total, by ICPMS/ICPOES)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	N ^{8,2}	NG	<0.02	<0.02	<0.02	<0.02	<0.06	<0.010	<0.010	<0.010	0.03	<0.04	<0.2	0.3	<0.04												
Potassium (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	3.6	3.7	3.4	3.7	3.5	3.91	3.69	3.78	2.63	3.18	3.61	3.6	3.41												
Potassium (total)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG																									
Total Metals																																						
Aluminum (total)	mg/L	NG	NG	5 ^{3,22}	NG	5 ^{5,17}	NG	9.5	NG	NG	NG	9.500 ^{11,14}																										
Antimony (total)	mg/L	NG	NG	NG	NG	NG	NG	0.006	NG	NG	NG	0.006																										
Arsenic (total)	mg/L	NG	NG	0.025 ^{3,23}	NG	0.100 ^{5,18}	NG	0.01	NG	NG	NG	0.010																										
Barium (total)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	1.000																										
Beryllium (total)	mg/L	NG	NG	NG	0.100	NG	0.100	NG	NG	NG	NG	0.008																										
Bismuth (total)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG																										
Boron (total)	mg/L	NG	NG	5	NG	0.5 ^{5,19}	NG	5.0	NG	NG	NG	5.000																										
Cadmium (total)	mg/L	NG	NG	NG	0.080 ^{4,5}	NG	0.0051 ^{6,8}	0.005	NG	NG	NG	0.005																										
Calcium (total)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG																										
Chromium (total)	mg/L	NG	NG	NG	0.050 ^{4,6}	NG	0.0049 ^{6,9}	0.05	NG	NG	NG	0.050 ^{11,15}																										
Cobalt (total)	mg/L	NG	NG	NG	1	NG	0.050 ^{6,10}	0.001	NG	NG	NG	0.001 ^{11,16}																										
Copper (total)	mg/L	NG	NG	0.300	NG	0.200 ^{5,20}	NG	2.0 ^{7,5}	1.0	NG	NG	1.500 ^{11,17}																										
Iron (total)	mg/L	NG	NG	NG	NG	NG	NG	NG	0.3	NG	NG	6.500 ^{11,18}																										
Lead (total)	mg/L	NG	NG	0.100	NG	0.200 ^{5,21}	NG	0.005	NG	NG	NG	0.010																										
Lithium (total)	mg/L	NG	NG	NG	NG	NG	0.75 ^{6,11}	NG	NG	NG	NG	0.008																										
Magnesium (total)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG																										
Manganese (total)	mg/L	NG	NG	NG	NG	NG	0.200	0.12	0.02	NG	NG	1.500 ^{11,19}																										
Mercury (total)	mg/L	NG	NG	0.0030	NG	0.0020	NG	0.001	NG	NG	NG	0.001																										
Molybdenum (total)	mg/L	NG	NG	0.016 ^{3,24}	NG	0.01 ^{5,22}	NG	0.088	NG	NG	NG	0.250																										
Nickel (total)	mg/L	NG	NG	NG	1	NG	0.200	0.08	NG	NG	NG	0.080																										
Selenium (total)	mg/L	NG	NG	0.0300 ^{3,25}	NG	0.010 ^{5,23}	NG	0.01	NG	NG	NG	0.010																										
Silicon (total, as Si)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG																										
Silver (total)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	0.020																										
Sodium (total)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	200 ^{11,20}																										
Strontium (total)	mg/L	NG	NG	NG	NG	NG	NG	7.0	NG	NG	NG	2.500																										
Sulphur (total)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG																										
Tellurium (total)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG																										
Thallium (total)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG																										
Thorium (total)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG																										
Tin (total)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	2.500																										
Titanium (total)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	</																									



Keremeos Transfer Station
Water Quality Results

Sampling Location													BH-99	BH-99	BH-99	BH-99	BH-99	BH-99	BH-99	BH-99	BH-99	BH-99	BH-99	BH-99	BH-99		
Date Sampled													17-Jun-10	06-Oct-10	09-Dec-10	31-Mar-11	23-Jun-11	05-Dec-11	22-Mar-12	19-Jun-12	26-Sep-12	04-Dec-12	21-Mar-13	27-Jun-13	08-Oct-13		
Lab Sample ID													U88640	K0J0251-02	K0L0410-01	K1D0019-01	K1F1032-01	K1L0154-01	K2C0829-01	2061085-01	2091470-01	2120169-01	3031070-01	3061698-01	3100578-01		
Sample Type													Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal		
Analyte	Unit	Guideline											BC SDWQG MAC	BC SDWQG AO	CSR IW	CSR LW	CSR DW										
		GCDWQ MAC	GCDWQ AO & O	BCAWQG L	BCWWQG L	BCAWQG I	BCWWQG I	BC SDWQG MAC	BC SDWQG AO	CSR IW	CSR LW	CSR DW															
Field Results																											
Conductivity	µS/cm	NG	NG	NG	NG	NG	700 ^{6.1}	NG	NG	NG	NG	NG	725	663	739	691	658	680	725	700	680	635	614	694	778		
Depth to Water (below top of casing)	m	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	40.38	41.166	41.797	40.804	39.513	40.32	40.465	40.595	41.819	41.325	41.015	39.038	40.49		
Oxidation reduction potential	mV	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	152.5	231.8	110.2	101.1	52.3	223.4	233.7	244.9	28.6	189.7	68.4	319.5	94.2		
Dissolved oxygen	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	7.64	8.51	8.97	7.67	8.22	7.63	8.72	8.97	7.77	7.68	7.44	7.88	7.50		
pH		NG	NG	NG	5.0 - 9.5 ^{3.1}	NG	5.0 - 9.5 ^{5.1}	NG	NG	NG	NG	NG	7.12	8.72	7.11	6.99	6.82	7.14	5.91	6.13	7.23	6.91	7.31	7.22	7.10		
Salinity		NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG															
Total dissolved solids	mg/L	NG	NG	NG	1000 ^{4.1}	NG	500 ^{6.2}	NG	NG	NG	NG	NG	471	431	480	449	428	442	471	455	442	413	399	448.5	507.0		
Temperature	°C	NG	NG	NG	N ^{3.2}	NG	N ^{5.2}	NG	NG	15	NG	NG	10.69	10.7	9.91	10.59	10.75	9.55	9.98	10.63	10.50	10.17	10.04	10.5	10.4		
Turbidity	NTU	NG	NG	NG	N ^{3.3}	NG	N ^{5.3}	NG	N ^{7.1}	NG	NG	NG	10.2	11.5	2.95	9.54	5.17	3.88	1.1	2.9	2.89	1.61	2.56	7.73	2.06		
Volume Purged	L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	24	26.4	16.2	21.6	59	32	40	27	21.6	25.6	21.0	44.0	23.4		
Lab Results																											
Dissolved Metals																											
Aluminum (dissolved)	mg/L	NG	NG	5 ^{3.4}	NG	5 ^{5.4}	NG	9.5	NG	5.000	5.000	9.500 ^{11.1}	<0.003	0.005	0.006	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005		
Antimony (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	0.006	NG	NG	NG	0.006	<0.0005	<0.0001	<0.0001	<0.0001	0.0001	<0.0020	0.0009	0.0001	0.0006	0.0002	0.0002	0.0004	0.0002		
Arsenic (dissolved)	mg/L	NG	NG	0.025 ^{3.5}	NG	0.100 ^{5.5}	NG	0.01	NG	0.100	0.025	0.010	0.001	0.0007	0.0013	0.0009	0.0007	0.0008	0.0010	0.0008	0.0011	0.0010	0.0009	0.0011	0.0009		
Barium (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	1.000	0.045	0.047	0.0511	0.0496	0.044	0.044	0.046	0.043	0.045	0.043	0.040	0.041	0.047		
Beryllium (dissolved)	mg/L	NG	NG	NG	0.100	NG	0.100	NG	NG	0.100	0.100	0.008	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001		
Bismuth (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	<0.001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001		
Boron (dissolved)	mg/L	NG	NG	5 ^{3.6}	NG	0.5 ^{5.6}	NG	5.0	NG	0.500 ^{9.1}	5.000	5.000	<0.050	0.017	0.021	0.016	0.009	0.018	0.021	0.019	0.023	0.024	0.023	0.037	0.020		
Cadmium (dissolved)	mg/L	NG	NG	NG	0.080 ^{4.2}	NG	0.0051 ^{9.3}	0.005	NG	0.005	0.080	0.005	0.00004	0.00002	<0.00001	0.00003	0.00002	0.00002	0.00004	0.00003	0.00004	0.00002	0.00003	0.00003	0.00003		
Calcium (dissolved)	mg/L	NG	NG	NG	1000	NG	NG	NG	NG	NG	1000	NG	104	91.4	106	99.9	81.5	96.9	100	100	80.7	92.0	82.6	100	102		
Chromium (dissolved)	mg/L	NG	NG	NG	0.050 ^{4.3}	NG	0.0049 ^{5.4}	0.05	NG	0.005 ^{9.2}	0.050 ^{10.1}	0.050 ^{11.2}	0.002	0.0037	0.0039	0.0026	0.0028	0.0021	0.0022	0.0023	0.0028	0.0025	0.0021	0.0029	0.0019		
Cobalt (dissolved)	mg/L	NG	NG	NG	1	NG	0.050 ^{6.5}	0.001	NG	0.050	1.000	0.001 ^{11.3}	<0.0005	0.00019	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	0.00005	<0.00005	<0.00005	<0.00005			
Copper (dissolved)	mg/L	NG	NG	0.300 ^{3.7}	NG	0.200 ^{5.7}	NG	2.0 ^{7.2}	1.0	0.200	0.300	1.500 ^{11.4}	0.0002	0.0006	0.0005	<0.0002	0.0003	0.0003	0.0004	0.0003	0.0003	0.0008	0.0003	0.0006	0.0002		
Iron (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	NG	0.3	5.000 ^{9.3}	NG	6.500 ^{11.5}	0.006	0.277	0.141	<0.010	<0.01	<0.01	<0.01	<0.01	<0.01	<0.010	<0.010	<0.010	<0.010		
Lead (dissolved)	mg/L	NG	NG	0.100 ^{3.8}	NG	0.200 ^{5.8}	NG	0.005	NG	0.200	0.100	0.010	<0.0002	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001		
Lithium (dissolved)	mg/L	NG	NG	NG	NG	NG	0.75 ^{6.6}	NG	NG	2.500 ^{9.4}	5.000	0.008	<0.005	0.0043	0.0049	0.0052	0.0049	0.0046	0.0049	0.0052	0.0047	0.0049	0.0047	0.0057	0.0049		
Magnesium (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	23	22	27.8	25.4	22.6	24.6	27.5	23.3	22.1	21.9	24.8	25.6			
Manganese (dissolved)	mg/L	NG	NG	NG	NG	NG	0.200	0.12	0.02	0.200 ^{9.5}	NG	1.500 ^{11.6}	<0.001	<0.0002	<0.0002	0.0006	0.0003	<0.0002	<0.0002	<0.0002	0.0012	<0.0002	<0.0002	<0.0002	<0.0002		
Mercury (dissolved)	mg/L	NG	NG	0.0030 ^{3.9}	NG	0.0020 ^{5.9}	NG	0.001	NG	0.001	0.002	0.001	<0.00002	<0.00005	<0.00005	<0.00002	<0.00002	0.00002	0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002		
Molybdenum (dissolved)	mg/L	NG	NG	0.016 ^{3.10}	NG	0.01 ^{5.10}	NG	0.088	NG	0.010 ^{9.6}	0.050	0.250	0.002	0.0015	0.0019	0.0017	0.0017	0.0018	0.0018	0.0019	0.0024	0.0021	0.0023	0.0024	0.0016		
Nickel (dissolved)	mg/L	NG	NG	NG	1	NG	0.200	0.08	NG	0.200	1.000	0.080	<0.001	0.0043	0.0039	0.0004	0.001	0.0005	0.0002	0.0004	0.0004	<0.0002	0.0003	0.0004	0.0004		
Selenium (dissolved)	mg/L	NG	NG	0.0300 ^{3.11}	NG	0.010 ^{5.11}	NG	0.01	NG	0.020 ^{9.7}	0.030	0.010	0.0035	0.0037	0.0039	0.0038	0.0032	0.004	0.0042	0.0034	0.0043	0.0039	0.0031	0.0040	0.0043		
Silicon (dissolved, as Si)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	10.400	3.88	11.1	12.3	9.8	9.5	11.2	10.1	<0.5	10.7	9.4	11.8	10.7		
Silver (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	0.020	<0.00002	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005		
Sodium (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	200 ^{11.7}	19.4	16.9	22.6	19.6	16.9	19.8	23.6	22.0	24.3	25.4	25.0	26.4	20.1		
Strontium (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	7.0	NG	NG	NG	2.500	0.739	0.625	0.728	0.796	0.675	0.755	0.800	0.704	0.715	0.671	0.659	0.714	0.781		
Sulphur (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	36	34	43	32	32	31		34	37	30	31	37	33		
Tellurium (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG		<0.0002	<0.0002	<0.0002	<0.00.										

Keremeos Transfer Station
Water Quality Results

Sampling Location													BH-99	BH-99	BH-99	BH-99	BH-99	BH-99	BH-99	BH-99	BH-99	BH-99	BH-99	BH-99
Date Sampled													17-Jun-10	06-Oct-10	09-Dec-10	31-Mar-11	23-Jun-11	05-Dec-11	22-Mar-12	19-Jun-12	26-Sep-12	04-Dec-12	21-Mar-13	27-Jun-13
Lab Sample ID													U88640	K0J0251-02	K0L0410-01	K1D0019-01	K1F1032-01	K1L0154-01	K2C0829-01	2061085-01	2091470-01	2120169-01	3031070-01	3061698-01
Sample Type													Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal
Analyte	Unit	Guideline																						
		GCDWQ MAC	GCDWQ AO & O	BCAWQG L	BCWWQG L	BCAWQG I	BCWWQG I	BC SDWQG MAC	BC SDWQG AO	CSR IW	CSR LW	CSR DW												
Hardness (as CaCO3), dissolved	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	353	319	378	354	300	343	363	347	297	321	297	352
Hardness (as CaCO3), from total Ca/Mg	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG												
pH		NG	NG	5.0 - 9.5 ^{3,10}	NG	5.0 - 9.5 ^{5,14}	NG	NG	NG	NG	NG	NG	8.1	7.55	7.68	7.6	7.68	7.76	7.84	7.72	8.02	7.43	7.75	7.83
Sulphate	mg/L	NG	NG	1000	1000 ^{1,4}	NG	NG	NG	500	NG	1000	500 ^{11,10}	110	112	136	104	103	100	90.7	107	102	100	88.6	85.8
Microbiological																								
Total coliforms (counts)	CFU/100 mL	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG												
Total coliforms (MPN)	MPN/100 mL	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG												
E. coli (counts)	CFU/100 mL	NG	NG	200 ^{3,16}	NG	385 ^{5,15}	NG	10 ^{7,3}	NG	NG	NG	NG												
E. coli (MPN)	MPN/100 mL	NG	NG	200 ^{3,17}	NG	385 ^{5,16}	NG	10 ^{7,4}	NG	NG	NG	NG												
Heterotrophic plate count (counts)	CFU/mL	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG												
Heterotrophic plate count (MPN)	MPN/mL	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG												
Nutrients																								
Ammonia (total, as N)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	0.019	<0.02	<0.02	<0.02	<0.02	0.01	<0.01	<0.020	0.023	<0.020	<0.020	0.021
Nitrate (as N)	mg/L	NG	NG	100 ^{3,18}	NG	NG	NG	10	NG	NG	100 ^{10,3}	10 ^{11,11}	2.61	2.84	2.7	2.92	2.61	2.44	3.19	3.20	1.91	0.849	1.82	2.44
Nitrate + Nitrite (as N)	mg/L	NG	NG	100 ^{3,19}	NG	NG	NG	NG	NG	NG	100 ^{10,4}	10 ^{11,12}	2.61	2.84	2.7	2.92	2.61	2.44	3.19	3.20	1.91	0.849	1.82	2.44
Nitrate + Nitrite (as N) (calculated)	mg/L	NG	NG	100 ^{3,20}	NG	NG	NG	NG	NG	NG	100 ^{10,5}	10 ^{11,13}	2.61	2.84	2.7	2.92	2.61	2.44	3.19	3.20	1.91	0.849	1.82	2.44
Nitrite (as N)	mg/L	NG	NG	10 ^{3,21}	NG	NG	NG	1.0	NG	NG	10.000	1	<0.005	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.010	<0.010	<0.010	<0.010	<0.010
Total nitrogen	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	2.77	2.97	2.8	3.05	2.76	2.65	3.30	3.30	2.06	0.849	2.00	2.65
Total kjeldahl nitrogen	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	0.16	0.13	0.1	0.14	0.15	0.21	0.10	0.10	0.14	<0.05	0.18	0.20
Phosphorus (dissolved, by IC/PMS/ICPOES)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG		<0.020	<0.020	<0.020	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Phosphorus (total, by IC/PMS/ICPOES)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG												
Potassium (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	3.68	3.39	4.13	3.52	3.29	3.38	3.92	3.49	3.89	3.78	3.80	4.18
Potassium (total)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG												
Total Metals																								
Aluminum (total)	mg/L	NG	NG	5 ^{3,22}	NG	5 ^{5,17}	NG	9.5	NG	NG	NG	9.500 ^{11,14}												
Antimony (total)	mg/L	NG	NG	NG	NG	NG	NG	0.006	NG	NG	NG	0.006												
Arsenic (total)	mg/L	NG	NG	0.025 ^{3,23}	NG	0.100 ^{5,18}	NG	0.01	NG	NG	NG	0.010												
Barium (total)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	1.000												
Beryllium (total)	mg/L	NG	NG	NG	0.100	NG	0.100	NG	NG	NG	NG	0.008												
Bismuth (total)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG												
Boron (total)	mg/L	NG	NG	5	NG	0.5 ^{5,19}	NG	5.0	NG	NG	NG	5.000												
Cadmium (total)	mg/L	NG	NG	NG	0.080 ^{4,8}	NG	0.0051 ^{6,8}	0.005	NG	NG	NG	0.005												
Calcium (total)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG												
Chromium (total)	mg/L	NG	NG	NG	0.050 ^{4,6}	NG	0.0049 ^{6,9}	0.05	NG	NG	NG	0.050 ^{11,15}												
Cobalt (total)	mg/L	NG	NG	NG	1	NG	0.050 ^{6,10}	0.001	NG	NG	NG	0.001 ^{11,16}												
Copper (total)	mg/L	NG	NG	0.300	NG	0.200 ^{5,20}	NG	2.0 ^{7,5}	1.0	NG	NG	1.500 ^{11,17}												
Iron (total)	mg/L	NG	NG	NG	NG	NG	NG	NG	0.3	NG	NG	6.500 ^{11,18}												
Lead (total)	mg/L	NG	NG	0.100	NG	0.200 ^{5,21}	NG	0.005	NG	NG	NG	0.010												
Lithium (total)	mg/L	NG	NG	NG	NG	NG	0.75 ^{6,11}	NG	NG	NG	NG	0.008												
Magnesium (total)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG												
Manganese (total)	mg/L	NG	NG	NG	NG	NG	0.200	0.12	0.02	NG	NG	1.500 ^{11,19}												
Mercury (total)	mg/L	NG	NG	0.0030	NG	0.0020	NG	0.001	NG	NG	NG	0.001												
Molybdenum (total)	mg/L	NG	NG	0.016 ^{3,24}	NG	0.01 ^{5,22}	NG	0.088	NG	NG	NG	0.250												
Nickel (total)	mg/L	NG	NG	NG	1	NG	0.200	0.08	NG	NG	NG	0.080												
Selenium (total)	mg/L	NG	NG	0.0300 ^{3,25}	NG	0.010 ^{5,23}	NG	0.01	NG	NG	NG	0.010												
Silicon (total, as Si)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG												
Silver (total)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	0.020												
Sodium (total)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	200 ^{11,20}												
Strontium (total)	mg/L	NG	NG	NG	NG	NG	NG	7.0	NG	NG	NG	2.500												
Sulphur (total)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG												
Tellurium (total)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG												
Thallium (total)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG												
Thorium (total)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG												
Tin (total)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	2.500												
Titanium (total)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG												
Tungsten (total)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	0.003												
Uranium (total)	mg/L	NG	NG	NG	0.200	NG	0.010	0.02	NG	NG	NG	0.020												
Vanadium (total)	mg/L	NG	NG	NG	0.100	NG	0.100	NG	NG	NG	NG	0.020												
Zinc (total)	mg/L	NG	NG	2.000	NG	1.000 ^{5,24}	NG	3.0	5.0	NG	NG	3.000 ^{11,21}												
Zirconium (total)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG												



Keremeos Transfer Station
Water Quality Results

Sampling Location													BH-99	BH-99	BH-99	BH-99	BH-99	BH-99	BH-99	BH-99	BH-99	BH-99	BH-99	BH-99	BH-99	BH-99	
Date Sampled													16-Dec-13	24-Mar-14	17-Jun-14	24-Sep-14	10-Dec-14	25-Mar-15	25-Jun-15	21-Sep-15	02-Dec-15	02-Dec-15	02-Dec-15	04-Apr-16	28-Jun-16		
Lab Sample ID													3120838-01	4031249-01	4061151-01	4091825-01	4120701-01	5031680-01	5061946-01	5091626-01	5120272-01	5120272-01	5120272-03	6040223-01	6062442-01		
Sample Type													Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Duplicate	Duplicate	Normal	Normal		
Analyte	Unit	Guideline											CSR IW	CSR LW	CSR DW												
		GCDWQ MAC	GCDWQ AO & O	BCAWQG L	BCWWQG L	BCAWQG I	BCWWQG I	BC SDWQG MAC	BC SDWQG AO																		
Field Results																											
Conductivity	µS/cm	NG	NG	NG	NG	NG	700 ^{6.1}	NG	NG	NG	NG	NG	734	736	728	711	676.6	672.6	748	720	692.7	692.7	692.7	693.5	796		
Depth to Water (below top of casing)	m	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	40.42	40.522	40.305	41.665	41.06	40.41	40.43	41.91	41.335	41.335	41.335	40.77	39.835		
Oxidation reduction potential	mV	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	169.1	151.2	191.8	271.4	115.9	291.1	103.1	205.2	154.9	154.9	154.9	84.9	140.9		
Dissolved oxygen	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	7.58	6.62	8.22	8.69	8.57	8.78	8.76	8.79	9.64	9.64	9.64	8.59	8.32		
pH		NG	NG	NG	5.0 - 9.5 ^{3.1}	NG	5.0 - 9.5 ^{5.1}	NG	NG	NG	NG	NG	7.20	7.26	7.20	7.43	7.34	7.21	7.19	7.19	7.26	7.26	7.26	7.23	7.16		
Salinity		NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG															
Total dissolved solids	mg/L	NG	NG	NG	NG	1000 ^{4.1}	NG	500 ^{6.2}	NG	NG	NG	NG	474.5	481.0	474.5	461.5	440.1	437.4	487.5	468.0	450.5	450.5	450.5	451.1	520.0		
Temperature	°C	NG	NG	NG	N ^{3.2}	NG	N ^{5.2}	NG	NG	15	NG	NG	10.0	10.3	11.4	11.0	10.3	10.4	11.4	11.1	9.8	9.8	9.8	10.2	12.1		
Turbidity	NTU	NG	NG	NG	N ^{3.3}	NG	N ^{5.3}	NG	N ^{7.1}	NG	NG	NG	2.48	4.12	2.49	2.74	4.18	2.19	2.10	4.04	1.86	1.86	1.86	1.13	2.10		
Volume Purged	L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	39	23.4	41.6	21.6	20	40	24	27.2	40	40	40	63	44		
Lab Results																											
Dissolved Metals																											
Aluminum (dissolved)	mg/L	NG	NG	5 ^{3.4}	NG	5 ^{5.4}	NG	9.5	NG	5.000	5.000	9.500 ^{11.1}	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005		
Antimony (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	0.006	NG	NG	NG	0.006	<0.0001	0.0004	0.0002	0.0002	0.0005	0.0003	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.0001	<0.0001		
Arsenic (dissolved)	mg/L	NG	NG	0.025 ^{3.5}	NG	0.100 ^{5.5}	NG	0.01	NG	0.100	0.025	0.010	0.0019	0.0009	0.0009	0.0010	0.0010	0.0009	0.0009	0.0010	0.0010	0.0010	0.0010	0.0008	0.0008		
Barium (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	1.000	0.045	0.045	0.039	0.037	0.040	0.040	0.042	0.044	0.047	0.046	0.048	0.035	0.043		
Beryllium (dissolved)	mg/L	NG	NG	NG	NG	0.100	NG	0.100	NG	0.100	0.100	0.008	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001		
Bismuth (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001		
Boron (dissolved)	mg/L	NG	NG	NG	5 ^{3.6}	NG	0.5 ^{5.6}	NG	5.0	NG	0.500 ^{9.1}	5.000	0.021	0.028	0.019	0.018	0.026	0.023	0.021	0.022	0.017	0.017	0.018	0.021	0.018		
Cadmium (dissolved)	mg/L	NG	NG	NG	NG	0.080 ^{4.2}	NG	0.0051 ^{9.3}	0.005	NG	0.005	0.080	0.00002	0.00003	0.00002	0.00002	0.00003	0.00002	0.00003	0.00003	0.00002	0.00003	0.00003	0.00002	0.00003		
Calcium (dissolved)	mg/L	NG	NG	NG	NG	1000	NG	NG	NG	NG	NG	1000	101	106	95.5	96.2	86.2	90.4	102	108	92.7	94.7	94.7	84.1	108		
Chromium (dissolved)	mg/L	NG	NG	NG	NG	0.050 ^{4.3}	NG	0.0049 ^{9.4}	0.05	NG	0.005 ^{9.2}	0.050 ^{10.1}	0.0060	0.0021	0.0022	0.0024	0.0023	0.0021	0.0022	0.0026	0.0024	0.0024	0.0025	0.0019	0.0022		
Cobalt (dissolved)	mg/L	NG	NG	NG	NG	1	NG	0.050 ^{6.5}	0.001	NG	0.050	1.000	0.001 ^{11.3}	0.00008	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005		
Copper (dissolved)	mg/L	NG	NG	NG	0.300 ^{3.7}	NG	0.200 ^{5.7}	NG	2.0 ^{7.2}	1.0	0.200	0.300	1.500 ^{11.4}	0.0004	0.0004	0.0003	<0.0002	0.0002	<0.0002	0.0004	0.0003	0.0005	0.0004	0.0006	<0.0002	0.0004	
Iron (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	0.3	5.000 ^{9.3}	NG	6.500 ^{11.5}	0.120	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010		
Lead (dissolved)	mg/L	NG	NG	NG	0.100 ^{3.8}	NG	0.200 ^{5.8}	NG	0.005	NG	0.200	0.100	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001		
Lithium (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	0.75 ^{6.6}	NG	NG	2.500 ^{9.4}	5.000	0.008	0.0062	0.0053	0.0044	0.0049	0.0043	0.0046	0.0045	0.0042	0.0033	0.0035	0.0035	0.0040	0.0049	
Magnesium (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	24.3	24.3	21.4	21.2	21.2	20.0	24.6	23.2	23.8	24.1	24.4	20.5	27.0		
Manganese (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	0.200	0.12	0.02	0.200 ^{9.5}	NG	1.500 ^{11.6}	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002		
Mercury (dissolved)	mg/L	NG	NG	NG	0.0030 ^{3.9}	NG	0.0020 ^{5.9}	NG	0.001	NG	0.001	0.002	<0.00005	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002		
Molybdenum (dissolved)	mg/L	NG	NG	NG	0.016 ^{3.10}	NG	0.01 ^{5.10}	NG	0.088	NG	0.010 ^{9.6}	0.050	0.0020	0.0022	0.0022	0.0023	0.0024	0.0023	0.0021	0.0024	0.0023	0.0024	0.0023	0.0020	0.0019		
Nickel (dissolved)	mg/L	NG	NG	NG	NG	1	NG	0.200	0.08	NG	0.200	1.000	0.0013	<0.0002	<0.0002	<0.0002	0.0005	0.0003	0.0003	<0.0002	0.0004	0.0003	0.0004	0.0003	0.0005		
Selenium (dissolved)	mg/L	NG	NG	NG	0.0300 ^{3.11}	NG	0.010 ^{5.11}	NG	0.01	NG	0.020 ^{9.7}	0.030	0.010	0.0039	0.0038	0.0032	0.0036	0.0028	0.0034	0.0038	0.0036	0.0038	0.0037	0.0038	0.0031	0.0039	
Silicon (dissolved, as Si)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	10.5	10.0	9.5	10.0	11.5	10.7	10.6	9.9	10.4	10.5	10.7	9.1	8.5		
Silver (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	<0.00005	<0.00005	<0.00005	<0.00005	0.00051	0.00007	<0.00005	<0.00005	0.00021	0.00007	<0.00005	<0.00005	<0.00005		
Sodium (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	200 ^{11.7}	20.3	21.0	20.4	22.6	24.5	22.0	23.0	20.8	21.9	22.1	22.4	17.8	21.0	
Strontium (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	2.500	0.745	0.737	0.679	0.643	0.692	0.670	0.724	0.700	0.686	0.686	0.699	0.612	0.779		
Sulphur (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	33	28	25	30	28	27	35	32	32	34	34	26	37		
Tellurium (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002		
Thallium (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.				

Keremeos Transfer Station

Sampling Location													BH-99	BH-99	BH-99	BH-99	BH-99	BH-99	BH-99	BH-99	BH-99	BH-99	BH-99	BH-99	BH-99		
Date Sampled Lab Sample ID Sample Type													16-Dec-13 3120838-01 Normal	24-Mar-14 4031249-01 Normal	17-Jun-14 4061151-01 Normal	24-Sep-14 4091825-01 Normal	10-Dec-14 4120701-01 Normal	25-Mar-15 5031680-01 Normal	25-Jun-15 5061946-01 Normal	21-Sep-15 5091626-01 Normal	02-Dec-15 5120272-01 Normal	02-Dec-15 5120272-02 Duplicate	02-Dec-15 5120272-03 Duplicate	04-Apr-16 6040223-01 Normal	28-Jun-16 6062442-01 Normal		
Analyte	Unit	Guideline											CSR LW	CSR DW													
		GCDWQ MAC	GCDWQ AO & O	BCAWQG L	BCWWQG L	BCAWQG I	BCWWQG I	BC SDWQG MAC	BC SDWQG AO	CSR IW																	
Hardness (as CaCO3), dissolved	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	352	365	327	328	302	308	357	364	330	335	337	294	381	
Hardness (as CaCO3), from total Ca/Mg	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG														
pH	mg/L	NG	NG	5.0 - 9.5 ^{3,15}	NG	5.0 - 9.5 ^{5,14}	NG	NG	NG	NG	NG	NG	NG	7.69	7.78	7.44	7.84	7.84	7.73	7.49	7.82	7.86	7.84	7.99	7.77	7.76	
Sulphate	mg/L	NG	NG	1000	1000 ^{4,4}	NG	NG	NG	NG	NG	NG	NG	NG	104	91.9	97.0	95.0	86.2	90.7	106	100	94.9	94.0	93.3	102	121	
Microbiological																											
Total coliforms (counts)	CFU/100 mL	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG														
Total coliforms (MPN)	MPN/100 mL	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG														
E. coli (counts)	CFU/100 mL	NG	NG	200 ^{3,16}	NG	385 ^{5,15}	NG	10 ^{7,3}	NG	NG	NG	NG	NG														
E. coli (MPN)	MPN/100 mL	NG	NG	200 ^{3,17}	NG	385 ^{5,16}	NG	10 ^{7,4}	NG	NG	NG	NG	NG														
Heterotrophic plate count (counts)	CFU/mL	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG														
Heterotrophic plate count (MPN)	MPN/mL	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG														
Nutrients																											
Ammonia (total, as N)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	0.023	<0.020	<0.020	<0.020	<0.020	0.020	<0.020	0.077	<0.020	<0.020	<0.020	<0.020	<0.020	
Nitrate (as N)	mg/L	NG	NG	100 ^{3,18}	NG	NG	NG	NG	10	NG	NG	NG	100 ^{10,3}	10 ^{11,11}	2.47	2.41	2.29	1.99	1.76	2.24	3.53	1.71	2.11	2.07	2.04	2.70	3.78
Nitrate + Nitrite (as N)	mg/L	NG	NG	100 ^{3,19}	NG	NG	NG	NG	NG	NG	NG	NG	100 ^{10,4}	10 ^{11,12}	2.47	2.41	2.29	1.99	1.76	2.24	3.53	1.71	2.11	2.07	2.04	2.70	3.78
Nitrate + Nitrite (as N) (calculated)	mg/L	NG	NG	100 ^{3,20}	NG	NG	NG	NG	NG	NG	NG	NG	100 ^{10,5}	10 ^{11,13}	2.47	2.41	2.29	1.99	1.76	2.24	3.53	1.71	2.11	2.07	2.04	2.70	3.78
Nitrite (as N)	mg/L	NG	NG	10 ^{1,21}	NG	NG	NG	NG	1.0	NG	NG	NG	10.000	1	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Total nitrogen	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	2.59	2.59	2.38	2.05	1.90	2.50	3.64	1.88						
Total kjeldahl nitrogen	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	0.12	0.18	0.09	0.06	0.14	0.26	0.11	0.17						
Phosphorus (dissolved, by ICPMS/ICPOES)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	
Phosphorus (total, by ICPMS/ICPOES)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG														
Potassium (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	3.42	3.62	3.53	3.59	3.66	3.33	3.70	3.70	3.80	3.75	3.87	3.26	3.70	
Potassium (total)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG														
Total Metals																											
Aluminum (total)	mg/L	NG	NG	5 ^{3,22}	NG	5 ^{5,17}	NG	9.5	NG	NG	NG	NG	9.500 ^{11,14}														
Antimony (total)	mg/L	NG	NG	NG	NG	NG	NG	0.006	NG	NG	NG	NG	0.006														
Arsenic (total)	mg/L	NG	NG	0.025 ^{3,23}	NG	0.100 ^{5,18}	NG	0.01	NG	NG	NG	NG	0.010														
Barium (total)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	1.000														
Beryllium (total)	mg/L	NG	NG	NG	0.100	NG	0.100	NG	NG	NG	NG	NG	0.008														
Bismuth (total)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG														
Boron (total)	mg/L	NG	NG	5	NG	0.5 ^{5,19}	NG	5.0	NG	NG	NG	NG	5.000														
Cadmium (total)	mg/L	NG	NG	NG	0.080 ^{4,5}	NG	0.0051 ^{6,8}	0.005	NG	NG	NG	NG	0.005														
Calcium (total)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG														
Chromium (total)	mg/L	NG	NG	NG	0.050 ^{4,6}	NG	0.0049 ^{6,9}	0.05	NG	NG	NG	NG	0.050 ^{11,15}														
Cobalt (total)	mg/L	NG	NG	NG	1	NG	0.050 ^{6,10}	0.001	NG	NG	NG	NG	0.001 ^{11,16}														
Copper (total)	mg/L	NG	NG	0.300	NG	0.200 ^{5,20}	NG	2.0 ^{7,5}	1.0	NG	NG	NG	1.500 ^{11,17}														
Iron (total)	mg/L	NG	NG	NG	NG	NG	NG	NG	0.3	NG	NG	NG	6.500 ^{11,18}														
Lead (total)	mg/L	NG	NG	0.100	NG	0.200 ^{5,21}	NG	0.005	NG	NG	NG	NG	0.010														
Lithium (total)	mg/L	NG	NG	NG	NG	NG	0.75 ^{6,11}	NG	NG	NG	NG	NG	0.008														
Magnesium (total)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG														
Manganese (total)	mg/L	NG	NG	NG	NG	NG	0.200	0.12	0.02	NG	NG	NG	1.500 ^{11,19}														
Mercury (total)	mg/L	NG	NG	0.0030	NG	0.0020	NG	0.001	NG	NG	NG	NG	0.001														
Molybdenum (total)	mg/L	NG	NG	0.016 ^{3,24}	NG	0.01 ^{1,22}	NG	0.088	NG	NG	NG	NG	0.250														
Nickel (total)	mg/L	NG	NG	NG	1	NG	0.200	0.08	NG	NG	NG	NG	0.080														
Selenium (total)	mg/L	NG	NG	0.0300 ^{3,25}	NG	0.010 ^{5,23}	NG	0.01	NG	NG	NG	NG	0.010														
Silicon (total, as Si)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG														
Silver (total)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	0.020														
Sodium (total)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	200 ^{11,20}														
Strontium (total)	mg/L	NG	NG	NG	NG	NG	NG	7.0	NG	NG	NG	NG	2.500														
Sulphur (total)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG														
Tellurium (total)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG														
Thallium (total)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG														
Thorium (total)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG														
Tin (total)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	2.500														
Titanium (total)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG														
Tungsten (total)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	0.003														
Uranium (total)	mg/L	NG	NG	NG	0.200	NG	0.010	0.02	NG	NG	NG	NG	0.020														
Vanadium (total)	mg/L	NG	NG	NG	0.100	NG	0.100	NG	NG	NG	NG	NG	0.020														
Zinc (total)	mg/L	NG	NG	2.000	NG	1.000 ^{5,24}	NG	3.0	5.0	NG	NG	NG	3.000 ^{11,21}														
Zirconium (total)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG														



Keremeos Transfer Station
Water Quality Results

Sampling Location													BH-99	BH-99	BH-99	BH-99	BH-99	BH-99	BH-99	BH-99	BH-99	BH-99	BH-99	BH-99	BH-99	
Date Sampled													29-Sep-16	29-Sep-16	29-Sep-16	30-Nov-16	20-Mar-17	19-Jun-17	02-Nov-17	02-Nov-17	02-Nov-17	02-Nov-17	21-Mar-18	04-Jul-18	23-Nov-18	10-Apr-19
Lab Sample ID													6092240-03	6092240-04	6092240-02	6120049-01	7031416-01	7061771-01	7110388-01	7110388-02	7110388-03	8031759-01	8070394-01	8111948-01	9041133-01	
Sample Type													Duplicate	Duplicate	Normal	Normal	Normal	Normal	Normal	Duplicate	Duplicate	Normal	Normal	Normal	Normal	
Analyte	Unit	Guideline											CSR DW	CSR LW	CSR IW	BC SDWQG AO	BC SDWQG MAC	BCWQG L	BCAQWG L	GCDWQ AO & O	GCDWQ MAC	Unit	Analyte			
		BCAQWG I	BCWQG I	BCWQG L	BCAQWG L	BCAQWG I	BCWQG I	BC SDWQG MAC	BC SDWQG AO	CSR IW	CSR LW															
Field Results																										
Conductivity	µS/cm	NG	NG	NG	NG	NG	700 ^{6.1}	NG	NG	NG	NG	NG	722	722	722	722	727	681	726				728	643.4	716	746
Depth to Water (below top of casing)	m	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	41.325	41.325	41.325	40.94	40.62	38.81	40.73				40.22	36.0	39.07	39.7
Oxidation reduction potential	mV	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	172.3	172.3	172.3	328.1	265.4	166.2	183.6				159.8	99.3	168.1	130.7
Dissolved oxygen	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	8.42	8.42	8.42	8.43	8.76	8.14	8.61				8.11	9.32	7.77	8.43
pH		NG	NG	5.0 - 9.5 ^{3.1}	NG	5.0 - 9.5 ^{5.1}	NG	NG	NG	NG	NG	NG	7.30	7.30	7.30	7.24	7.15	7.27	7.15				6.96	7.29	7.18	7.19
Salinity		NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG														
Total dissolved solids	mg/L	NG	NG	NG	1000 ^{4.1}	NG	500 ^{6.2}	NG	NG	NG	NG	NG	468.0	468.0	468.0	468.0	475	442.0	474.5				474.5	417.9	468.0	487.5
Temperature	°C	NG	NG	N ^{3.2}	NG	N ^{5.2}	NG	NG	15	NG	NG	NG	11.5	11.5	11.5	10.1	10.1	11.1	10.2				10.2	11.1	9.9	10.3
Turbidity	NTU	NG	NG	N ^{3.3}	NG	N ^{5.3}	NG	N ^{7.1}	NG	NG	NG	NG	3.48	3.48	3.48	0.90	1.11	10.2	0.94				1.17	3.26	2.66	3.21
Volume Purged	L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	32	32	32	8.8	9.4	13	54				40.8	18.6	64	29.2
Lab Results																										
Dissolved Metals																										
Aluminum (dissolved)	mg/L	NG	NG	5 ^{3.4}	NG	5 ^{5.4}	NG	9.5	NG	5.000	5.000	9.500 ^{11.1}	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0337
Antimony (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	0.006	NG	NG	NG	0.006	0.0001	0.0001	<0.0001	0.0001	<0.0001	0.00012	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Arsenic (dissolved)	mg/L	NG	NG	0.025 ^{3.5}	NG	0.100 ^{5.5}	NG	0.01	NG	0.100	0.025	0.010	0.0010	0.0011	0.0011	0.0010	0.0009	0.00097	0.00094	0.00088	0.00092	0.00093	0.00104	0.00098	0.00097	0.00097
Barium (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	1.000	0.045	0.051	0.049	0.044	0.042	0.0402	0.0420	0.0403	0.0417	0.0434	0.0384	0.0418	0.0453	
Beryllium (dissolved)	mg/L	NG	NG	NG	0.100	NG	0.100	NG	NG	0.100	0.100	0.008	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Bismuth (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	
Boron (dissolved)	mg/L	NG	NG	5 ^{3.6}	NG	0.5 ^{5.6}	NG	5.0	NG	0.500 ^{9.1}	5.000	5.000	0.015	0.026	0.024	0.023	0.024	0.025	0.0191	0.0181	0.0185	0.0284	0.0266	0.0254	0.0249	
Cadmium (dissolved)	mg/L	NG	NG	NG	0.080 ^{4.2}	NG	0.0051 ^{9.3}	0.005	NG	0.005	0.080	0.005	0.00002	0.00003	0.00003	0.00002	0.00003	0.000044	0.000026	0.000022	0.000033	0.000015	0.000023	0.000028	0.000026	
Calcium (dissolved)	mg/L	NG	NG	NG	1000	NG	NG	NG	NG	NG	1000	NG	101	125	111	108	101	90.0	103	98.4	99.8	102	96.6	97.1	93.1	
Chromium (dissolved)	mg/L	NG	NG	NG	0.050 ^{4.3}	NG	0.0049 ^{9.4}	0.05	NG	0.005 ^{9.2}	0.050 ^{10.1}	0.050 ^{11.2}	0.0024	0.0028	0.0027	0.0025	0.0026	0.00248	0.00230	0.00245	0.00254	0.00381	0.00293	0.00260	0.00299	
Cobalt (dissolved)	mg/L	NG	NG	NG	1	NG	0.050 ^{6.5}	0.001	NG	0.050	1.000	0.001 ^{11.3}	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	
Copper (dissolved)	mg/L	NG	NG	0.300 ^{3.7}	NG	0.200 ^{5.7}	NG	2.0 ^{7.2}	1.0	0.200	0.300	1.500 ^{11.4}	0.0003	0.0002	0.0003	0.0004	0.0002	0.00024	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	
Iron (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	NG	0.3	5.000 ^{9.3}	NG	6.500 ^{11.5}	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	
Lead (dissolved)	mg/L	NG	NG	0.100 ^{3.8}	NG	0.200 ^{5.8}	NG	0.005	NG	0.200	0.100	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.00010	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	
Lithium (dissolved)	mg/L	NG	NG	NG	NG	NG	0.75 ^{6.6}	NG	NG	2.500 ^{9.4}	5.000	0.008	0.0045	0.0060	0.0054	0.0048	0.0047	0.00484	0.00490	0.00471	0.00488	0.00495	0.00455	0.00500	0.00575	
Magnesium (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	23.7	28.0	26.6	23.7	21.0	20.4	22.3	21.5	21.9	22.9	19.7	22.1	23.6	
Manganese (dissolved)	mg/L	NG	NG	NG	NG	NG	0.200	0.12	0.02	0.200 ^{9.5}	NG	1.500 ^{11.6}	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	0.00021	
Mercury (dissolved)	mg/L	NG	NG	0.0030 ^{3.9}	NG	0.0020 ^{5.9}	NG	0.001	NG	0.001	0.002	0.001	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	
Molybdenum (dissolved)	mg/L	NG	NG	0.016 ^{3.10}	NG	0.01 ^{5.10}	NG	0.088	NG	0.010 ^{9.6}	0.050	0.250	0.0020	0.0024	0.0022	0.0023	0.0020	0.00211	0.00290	0.00221	0.00214	0.00201	0.00238	0.00207	0.00208	
Nickel (dissolved)	mg/L	NG	NG	NG	1	NG	0.200	0.08	NG	0.200	1.000	0.080	0.0003	0.0004	0.0005	0.0004	0.0005	0.00034	<0.00040	<0.00040	<0.00040	<0.00040	0.00044	0.00058	0.00050	
Selenium (dissolved)	mg/L	NG	NG	0.0300 ^{3.11}	NG	0.010 ^{5.11}	NG	0.01	NG	0.020 ^{9.7}	0.030	0.010	0.0035	0.0043	0.0040	0.0034	0.0038	0.00339	0.00346	0.00349	0.00359	0.00360	0.00261	0.00312	0.00349	
Silicon (dissolved, as Si)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	10.4	11.3	10.8	10.2	10.1	10.3	10.4	9.8	10.2	10.6	10.4	11.3	10.2	
Silver (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	<0.00005	<0.00005	<0.00005	<0.00005	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	
Sodium (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	200 ^{11.7}	20.4	24.1	22.9	21.5	18.9	19.1	20.4	19.5	19.9	21.4	21.0	20.4	
Strontium (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	7.0	NG	NG																

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[illegible]

Keremeos Transfer Station
Water Quality Results

Sampling Location													BH-99	BH-99	BH-99	BH-99	BH-99	BH-99	BH-99	BH-99	BH-99	BH-99	BH-99	BH-99	BH-99
Date Sampled													17-Jul-19	12-Nov-19	29-Apr-20	23-Jun-20	05-Nov-20	12-Apr-21	24-Jun-21	26-Oct-21	18-May-22	03-Aug-22	16-Nov-22	19-Apr-23	13-Jul-23
Lab Sample ID													9071916-01	N001627-01	0042338-01	0062448-01	20K0794-01	21D1230-03	21F3483-03	21J3808-03	22E2755-03	22H0575-03	22K2135-04	23D2240-03	23G1841-03
Sample Type													Normal	Normal		Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal
Analyte	Unit	Guideline																							
		GCDWQ MAC	GCDWQ AO & O	BCAWQG L	BCWWQG L	BCAWQG I	BCWWQG I	BC SDWQG MAC	BC SDWQG AO	CSR IW	CSR LW	CSR DW													
Field Results																									
Conductivity	µS/cm	NG	NG	NG	NG	NG	700 ^{6.1}	NG	NG	NG	NG	NG	743	665.3	729	677.8	685.0	674.2	686	653.1	723	748	667.7	704	707
Depth to Water (below top of casing)	m	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	40.395	40.65	40.25	38.82	40.485	40.305	40.53	41.48	40.260	40.41	41.005	40.80	40.755
Oxidation reduction potential	mV	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	131.8	153.7		82.4	76.4	63.0	72.1	62.4	81.5	95.9	77.2	132.3	101.7
Dissolved oxygen	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	8.54	8.02		8.75	9.22	8.65	7.7	7.28	7.78	8.11	7.34	7.90	8.18
pH		NG	NG	5.0 - 9.5 ^{3.1}	NG	5.0 - 9.5 ^{5.1}	NG	NG	NG	NG	NG	NG	7.11	7.30	8.2	7.37	7.34	7.20	7.23	7.26	7.29	7.37	7.45	7.23	7.58
Salinity		NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG													
Total dissolved solids	mg/L	NG	NG	NG	1000 ^{4.1}	NG	500 ^{6.2}	NG	NG	NG	NG	NG	481.0	432.3		440.7	445.2	438.1	448.5	424.5	468.0	487.5	434.2	455.0	461.5
Temperature	°C	NG	NG	NG	N ^{3.2}	NG	N ^{5.2}	NG	15	NG	NG	NG	10.7	10.1	13.8	10.9	10.1	10.3	10.7	10.3	10.8	11.2	10.0	10.3	11.3
Turbidity	NTU	NG	NG	NG	N ^{3.3}	NG	N ^{5.3}	NG	N ^{7.1}	NG	NG	NG	4.31	1.23		3.22	1.54	1.07	2.13	1.75	1.91	5.23	2.16	0.45	1.56
Volume Purged	L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	25	54		46.5	24	35.1	33	25	52	33	30	61	54
Lab Results																									
Dissolved Metals																									
Aluminum (dissolved)	mg/L	NG	NG	5 ^{3.4}	NG	5 ^{5.4}	NG	9.5	NG	5.000	5.000	9.500 ^{11.1}	0.0109	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Antimony (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	0.006	NG	NG	NG	0.006	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Arsenic (dissolved)	mg/L	NG	NG	0.025 ^{3.5}	NG	0.100 ^{5.5}	NG	0.01	NG	0.100	0.025	0.010	0.00094	0.00101	0.00100	0.00093	0.00108	0.00068	0.00162	0.00094	0.00086	0.00103	0.00093	0.00100	0.00100
Barium (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	1.000	0.0461	0.0410	0.0454	0.0399	0.0401	0.0406	0.0382	0.0358	0.0442	0.0461	0.0394	0.0457	0.0446
Beryllium (dissolved)	mg/L	NG	NG	NG	0.100	NG	0.100	NG	NG	0.100	0.100	0.008	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Bismuth (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Boron (dissolved)	mg/L	NG	NG	5 ^{3.6}	NG	0.5 ^{5.6}	NG	5.0	NG	0.500 ^{9.1}	5.000	5.000	0.0239	0.0199	0.0371	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500
Cadmium (dissolved)	mg/L	NG	NG	NG	0.080 ^{4.2}	NG	0.0051 ^{9.3}	0.005	NG	0.005	0.080	0.005	0.000024	0.000025	0.000032	0.000019	0.000022	<0.000010	0.000019	0.000013	0.000021	0.000028	0.000020	0.000024	0.000025
Calcium (dissolved)	mg/L	NG	NG	NG	1000	NG	NG	NG	NG	NG	1000	NG	88.4	81.4	94.4	87.0	96.6	90.2	100	90.4	94.6	107	78.7	106	95.0
Chromium (dissolved)	mg/L	NG	NG	NG	0.050 ^{4.3}	NG	0.0049 ^{9.4}	0.05	NG	0.005 ^{9.2}	0.050 ^{10.1}	0.050 ^{11.2}	0.00362	0.00349	0.00238	0.00339	0.00258	0.00247	0.00240	0.00250	0.00228	0.00215	0.00286	0.00209	0.00235
Cobalt (dissolved)	mg/L	NG	NG	NG	1	NG	0.050 ^{6.5}	0.001	NG	0.050	1.000	0.001 ^{11.3}	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Copper (dissolved)	mg/L	NG	NG	0.300 ^{3.7}	NG	0.200 ^{5.7}	NG	2.0 ^{7.2}	1.0	0.200	0.300	1.500 ^{11.4}	0.00054	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	0.00047	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040
Iron (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	NG	0.3	5.000 ^{9.3}	NG	6.500 ^{11.5}	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Lead (dissolved)	mg/L	NG	NG	0.100 ^{3.8}	NG	0.200 ^{5.8}	NG	0.005	NG	0.200	0.100	0.010	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Lithium (dissolved)	mg/L	NG	NG	NG	NG	NG	0.75 ^{6.6}	NG	NG	2.500 ^{9.4}	5.000	0.008	0.00512	0.00420	0.00569	0.00510	0.00476	0.00487	0.00495	0.00408	0.00489	0.00523	0.00467	0.00493	0.00466
Magnesium (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	22.4	19.4	24.3	21.3	23.8	21.6	22.2	22.0	21.4	22.6	24.3	22.8	22.5
Manganese (dissolved)	mg/L	NG	NG	NG	NG	NG	0.200	0.12	0.02	0.200 ^{9.5}	NG	1.500 ^{11.6}	0.00032	0.00021	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Mercury (dissolved)	mg/L	NG	NG	0.0030 ^{3.9}	NG	0.0020 ^{5.9}	NG	0.001	NG	0.001	0.002	0.001	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Molybdenum (dissolved)	mg/L	NG	NG	0.016 ^{3.10}	NG	0.01 ^{5.10}	NG	0.088	NG	0.010 ^{9.6}	0.050	0.250	0.00239	0.00231	0.00207	0.00243	0.00234	0.00223	0.00253	0.00233	0.00205	0.00182	0.00241	0.00212	0.00188
Nickel (dissolved)	mg/L	NG	NG	NG	1	NG	0.200	0.08	NG	0.200	1.000	0.080	0.00048	<0.00040	0.00042	<0.00040	0.00043	0.00051	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	0.00043	0.00043
Selenium (dissolved)	mg/L	NG	NG	0.0300 ^{3.11}	NG	0.010 ^{5.11}	NG	0.01	NG	0.020 ^{9.7}	0.030	0.010	0.00408	0.00299	0.00358	0.00290	0.00361	0.00323	0.00283	0.00275	0.00323	0.00338	0.00325	0.00329	0.00329
Silicon (dissolved, as Si)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	11.0	11.9	11.7	9.8	11.2	11.2	11.5	9.9	9.3	10.2	10.2	10.7	10.1
Silver (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	0.020	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	
Sodium (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	200 ^{11.7}	21.3	20.6	21.7	20.7	19.8	20.0	19.8	20.6	19.0	18.9	22.6	19.0	19.0
Strontium (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	NG	7.0	NG	NG	2.500	0.772	0.677	0.784	0.684	0.689	0.642	0.632	0.582	0.764	0.739	0.655	0.783	0.737
Sulphur (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	36.8	31.3	34.8	31.0	32.5	29.1	30.9	29.8	32.5	35.6	30.7	35.4	33.6
Tellurium (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	<0.00050	<0.00050	<0.00050										

Keremeos Transfer Station
Water Quality Results

Sampling Location													BH-99	BH-99	BH-99	BH-99	BH-99	BH-99	BH-99	BH-99	BH-99	BH-99	BH-99
Date Sampled													17-Jul-19	12-Nov-19	29-Apr-20	23-Jun-20	05-Nov-20	12-Apr-21	24-Jun-21	26-Oct-21	18-May-22	03-Aug-22	16-Nov-22
Lab Sample ID													9071916-01	N001627-01	0042338-01	0062448-01	20K0794-01	21D1230-03	21F3483-03	21J3808-03	22E2755-03	22H0575-03	22K2135-04
Sample Type													Normal	Normal		Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal
Analyte	Unit	Guideline																					
		GCDWQ MAC	GCDWQ AO & O	BCAWQG L	BCWWQG L	BCAWQG I	BCWWQG I	BC SDWQG MAC	BC SDWQG AO	CSR IW	CSR LW	CSR DW											
Hardness (as CaCO3), dissolved	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	313	283	336	305	339	315	343	317	325	360	297
Hardness (as CaCO3), from total Ca/Mg	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG											
pH		NG	NG	5.0 - 9.5 ^{3,10}	NG	5.0 - 9.5 ^{5,14}	NG	NG	NG	NG	NG	NG	7.82	7.94	8.10	8.07	8.03	7.83	7.90	7.95	7.34	7.85	8.05
Sulphate	mg/L	NG	NG	1000	1000 ^{1,4}	NG	NG	NG	500	NG	1000	500 ^{11,10}	103	80.5	96.0	83.3	94.8	88.5	84.7	80.1	87.0	95.7	89.8
Microbiological																							
Total coliforms (counts)	CFU/100 mL	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG											
Total coliforms (MPN)	MPN/100 mL	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG											
E. coli (counts)	CFU/100 mL	NG	NG	200 ^{3,16}	NG	385 ^{5,15}	NG	10 ^{7,3}	NG	NG	NG	NG											
E. coli (MPN)	MPN/100 mL	NG	NG	200 ^{3,17}	NG	385 ^{5,16}	NG	10 ^{7,4}	NG	NG	NG	NG											
Heterotrophic plate count (counts)	CFU/mL	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG											
Heterotrophic plate count (MPN)	MPN/mL	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG											
Nutrients																							
Ammonia (total, as N)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	0.076	0.066	<0.050	0.088	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Nitrate (as N)	mg/L	NG	NG	100 ^{3,18}	NG	NG	NG	10	NG	NG	100 ^{10,3}	10 ^{11,11}	1.84	1.37	2.00	1.66	1.84	1.39	1.51	1.56	2.09	2.34	1.80
Nitrate + Nitrite (as N)	mg/L	NG	NG	100 ^{3,19}	NG	NG	NG	NG	NG	NG	100 ^{10,4}	10 ^{11,12}	1.84	1.37	2.00	1.66	1.84	1.39	1.51	1.56	2.09	2.34	1.80
Nitrate + Nitrite (as N) (calculated)	mg/L	NG	NG	100 ^{3,20}	NG	NG	NG	NG	NG	NG	100 ^{10,5}	10 ^{11,13}	1.84	1.37	2.00	1.66	1.84	1.39	1.51	1.56	2.09	2.34	1.80
Nitrite (as N)	mg/L	NG	NG	10 ^{3,21}	NG	NG	NG	1.0	NG	NG	10.000	1	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Total nitrogen	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG											
Total kjeldahl nitrogen	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG											
Phosphorus (dissolved, by ICPMS/ICPOES)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG ^{8,1}	NG	NG	NG	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Phosphorus (total, by ICPMS/ICPOES)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG ^{8,2}	NG	NG	NG											
Potassium (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	3.21	3.32	3.73	3.28	3.59	3.36	3.70	3.62	3.36	3.41	3.29
Potassium (total)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG											
Total Metals																							
Aluminum (total)	mg/L	NG	NG	5 ^{3,22}	NG	5 ^{5,17}	NG	9.5	NG	NG	NG	9.500 ^{11,14}											
Antimony (total)	mg/L	NG	NG	NG	NG	NG	NG	0.006	NG	NG	NG	0.006											
Arsenic (total)	mg/L	NG	NG	0.025 ^{3,23}	NG	0.100 ^{5,18}	NG	0.01	NG	NG	NG	0.010											
Barium (total)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	1.000											
Beryllium (total)	mg/L	NG	NG	NG	0.100	NG	0.100	NG	NG	NG	NG	0.008											
Bismuth (total)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG											
Boron (total)	mg/L	NG	NG	5	NG	0.5 ^{5,19}	NG	5.0	NG	NG	NG	5.000											
Cadmium (total)	mg/L	NG	NG	NG	0.080 ^{4,8}	NG	0.0051 ^{8,8}	0.005	NG	NG	NG	0.005											
Calcium (total)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG			102								
Chromium (total)	mg/L	NG	NG	NG	0.050 ^{4,6}	NG	0.0049 ^{8,9}	0.05	NG	NG	NG	0.050 ^{11,15}											
Cobalt (total)	mg/L	NG	NG	NG	1	NG	0.050 ^{6,10}	0.001	NG	NG	NG	0.001 ^{11,16}											
Copper (total)	mg/L	NG	NG	0.300	NG	0.200 ^{5,20}	NG	2.0 ^{7,5}	1.0	NG	NG	1.500 ^{11,17}											
Iron (total)	mg/L	NG	NG	NG	NG	NG	NG	NG	0.3	NG	NG	6.500 ^{11,18}											
Lead (total)	mg/L	NG	NG	0.100	NG	0.200 ^{5,21}	NG	0.005	NG	NG	NG	0.010											
Lithium (total)	mg/L	NG	NG	NG	NG	NG	0.75 ^{6,11}	NG	NG	NG	NG	0.008											
Magnesium (total)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG			25.8								
Manganese (total)	mg/L	NG	NG	NG	NG	NG	0.200	0.12	0.02	NG	NG	1.500 ^{11,19}											
Mercury (total)	mg/L	NG	NG	0.0030	NG	0.0020	NG	0.001	NG	NG	NG	0.001											
Molybdenum (total)	mg/L	NG	NG	0.016 ^{3,24}	NG	0.01 ^{5,22}	NG	0.088	NG	NG	NG	0.250											
Nickel (total)	mg/L	NG	NG	NG	1	NG	0.200	0.08	NG	NG	NG	0.080											
Selenium (total)	mg/L	NG	NG	0.0300 ^{3,25}	NG	0.010 ^{5,23}	NG	0.01	NG	NG	NG	0.010											
Silicon (total, as Si)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG											
Silver (total)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	0.020											
Sodium (total)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	200 ^{11,20}											
Strontium (total)	mg/L	NG	NG	NG	NG	NG	NG	7.0	NG	NG	NG	2.500											
Sulphur (total)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG											
Tellurium (total)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG											
Thallium (total)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG											
Thorium (total)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG											
Tin (total)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	2.500											
Titanium (total)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG											
Tungsten (total)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	0.003											
Uranium (total)	mg/L	NG	NG	NG	0.200	NG	0.010	0.02	NG	NG	NG	0.020											
Vanadium (total)	mg/L	NG	NG	NG	0.100	NG	0.100	NG	NG	NG	NG	0.020											
Zinc (total)	mg/L	NG	NG	2.000	NG	1.000 ^{5,24}	NG	3.0	5.0	NG	NG	3.000 ^{11,21}											
Zirconium (total)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG											



Keremeos Transfer Station

[illegible]

Keremeos Transfer Station
Water Quality Results

Sampling Location													BH-99	BH-99	BH-99	BH-99	BH-99	BH-99	BH-99	MW20-01	MW20-01	MW20-01	MW20-01	MW20-01	MW20-01		
Date Sampled													08-Nov-23	06-May-24	22-Jul-24	12-Nov-24	22-Apr-25	21-Jul-25	28-Oct-25	29-Apr-20	12-Nov-20	12-Apr-21	24-Jun-21	26-Oct-21	18-May-22		
Lab Sample ID													23K1346-03	24E1366-03	24G2875-01	24K1661-03	25D3017-03	25G3085-03	25J4041-03	0042338-02	20K1496-02	21D1230-01	21F3483-01	21J3808-01	22E2755-01		
Sample Type													Normal	Normal	Normal	Normal	Normal	Normal	Normal		Normal	Normal	Normal	Normal	Normal		
Analyte	Unit	Guideline																									
		GCDWQ MAC	GCDWQ AO & O	BCAWQG L	BCWWQG L	BCAWQG I	BCWWQG I	BC SDWQG MAC	BC SDWQG AO	CSR IW	CSR LW	CSR DW															
Hardness (as CaCO3), dissolved	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	335	334	357	343	322	392	386	350	266	420	419	402	343		
Hardness (as CaCO3), from total Ca/Mg	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG															
pH		NG	NG	5.0 - 9.5 ^{3,15}	NG	5.0 - 9.5 ^{5,14}	NG	NG	NG	NG	NG	NG	7.72	7.67	7.16	7.88	7.94	7.89	7.88	8.00	7.92	7.73	7.88	7.91	7.42		
Sulphate	mg/L	NG	NG	1000	1000 ^{4,4}	NG	NG	NG	500	NG	1000	500 ^{11,10}	96.6	99.3	95.6	95.3	87.9	121	119	123	76.3	150	101	123	83.8		
Microbiological																											
Total coliforms (counts)	CFU/100 mL	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG															
Total coliforms (MPN)	MPN/100 mL	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG															
E. coli (counts)	CFU/100 mL	NG	NG	200 ^{3,16}	NG	385 ^{5,15}	NG	10 ^{7,3}	NG	NG	NG	NG															
E. coli (MPN)	MPN/100 mL	NG	NG	200 ^{3,17}	NG	385 ^{5,16}	NG	10 ^{7,4}	NG	NG	NG	NG															
Heterotrophic plate count (counts)	CFU/mL	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG															
Heterotrophic plate count (MPN)	MPN/mL	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG															
Nutrients																											
Ammonia (total, as N)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.055	0.058			
Nitrate (as N)	mg/L	NG	NG	100 ^{3,18}	NG	NG	NG	10	NG	NG	100 ^{10,3}	10 ^{11,11}	2.08	1.86	2.24	1.84	1.59	2.95	2.60	2.01	0.885	2.15	2.21	1.81	2.14		
Nitrate + Nitrite (as N)	mg/L	NG	NG	100 ^{3,19}	NG	NG	NG	NG	NG	NG	100 ^{10,4}	10 ^{11,12}	2.09	1.86	2.24	1.84	1.59	2.95	2.60	2.01	0.885	2.15	2.21	1.81	2.14		
Nitrate + Nitrite (as N) (calculated)	mg/L	NG	NG	100 ^{3,20}	NG	NG	NG	NG	NG	NG	100 ^{10,5}	10 ^{11,13}	2.09	1.86	2.24	1.84	1.59	2.95	2.60	2.01	0.885	2.15	2.21	1.81	2.14		
Nitrite (as N)	mg/L	NG	NG	10 ^{3,21}	NG	NG	NG	1.0	NG	NG	10.000	1	0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010		
Total nitrogen	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG		1.98													
Total kjeldahl nitrogen	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG		0.116													
Phosphorus (dissolved, by ICPMS/ICPOES)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	N ^{8,1}	NG	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050			
Phosphorus (total, by ICPMS/ICPOES)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	N ^{8,2}	NG															
Potassium (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	3.71	3.35	3.63	3.60	3.33	3.78	3.76	3.81	2.80	3.81	3.94	3.85	3.42		
Potassium (total)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG															
Total Metals																											
Aluminum (total)	mg/L	NG	NG	5 ^{3,22}	NG	5 ^{5,17}	NG	9.5	NG	NG	NG	9.500 ^{11,14}															
Antimony (total)	mg/L	NG	NG	NG	NG	NG	NG	0.006	NG	NG	NG	0.006															
Arsenic (total)	mg/L	NG	NG	0.025 ^{3,23}	NG	0.100 ^{5,18}	NG	0.01	NG	NG	NG	0.010															
Barium (total)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	1.000															
Beryllium (total)	mg/L	NG	NG	NG	0.100	NG	0.100	NG	NG	NG	NG	0.008															
Bismuth (total)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG															
Boron (total)	mg/L	NG	NG	5	NG	0.5 ^{5,19}	NG	5.0	NG	NG	NG	5.000															
Cadmium (total)	mg/L	NG	NG	NG	0.080 ^{4,8}	NG	0.0051 ^{6,8}	0.005	NG	NG	NG	0.005															
Calcium (total)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG							107								
Chromium (total)	mg/L	NG	NG	NG	0.050 ^{4,6}	NG	0.0049 ^{6,9}	0.05	NG	NG	NG	0.050 ^{11,15}															
Cobalt (total)	mg/L	NG	NG	NG	1	NG	0.050 ^{6,10}	0.001	NG	NG	NG	0.001 ^{11,16}															
Copper (total)	mg/L	NG	NG	0.300	NG	0.200 ^{5,20}	NG	2.0 ^{7,5}	1.0	NG	NG	1.500 ^{11,17}															
Iron (total)	mg/L	NG	NG	NG	NG	NG	NG	NG	0.3	NG	NG	6.500 ^{11,18}															
Lead (total)	mg/L	NG	NG	0.100	NG	0.200 ^{5,21}	NG	0.005	NG	NG	NG	0.010															
Lithium (total)	mg/L	NG	NG	NG	NG	NG	0.75 ^{6,11}	NG	NG	NG	NG	0.008															
Magnesium (total)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG							26.1								
Manganese (total)	mg/L	NG	NG	NG	NG	NG	0.200	0.12	0.02	NG	NG	1.500 ^{11,19}															
Mercury (total)	mg/L	NG	NG	0.0030	NG	0.0020	NG	0.001	NG	NG	NG	0.001															
Molybdenum (total)	mg/L	NG	NG	0.016 ^{3,24}	NG	0.01 ^{5,22}	NG	0.088	NG	NG	NG	0.250															
Nickel (total)	mg/L	NG	NG	NG	1	NG	0.200	0.08	NG	NG	NG	0.080															
Selenium (total)	mg/L	NG	NG	0.0300 ^{3,25}	NG	0.010 ^{5,23}	NG	0.01	NG	NG	NG	0.010															
Silicon (total, as Si)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG															
Silver (total)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	0.020															
Sodium (total)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	200 ^{11,20}															
Strontium (total)	mg/L	NG	NG	NG	NG	NG	NG	7.0	NG	NG	NG	2.500															
Sulphur (total)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG															
Tellurium (total)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG															
Thallium (total)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG															
Thorium (total)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG															
Tin (total)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	2.500															
Titanium (total)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG															
Tungsten (total)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	0.003															
Uranium (total)	mg/L	NG	NG	NG	0.200	NG	0.010	0.02	NG	NG	NG	0.020															
Vanadium (total)	mg/L	NG	NG	NG	0.100	NG	0.100	NG	NG	NG	NG	0.020															
Zinc (total)	mg/L	NG	NG	2.000	NG	1.000 ^{5,24}	NG	3.0	5.0	NG	NG	3.000 ^{11,21}															
Zirconium (total)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG															



Keremeos Transfer Station

													Sampling Location		MW20-01	MW20-01	MW20-01	MW20-01	MW20-01	MW20-01	MW20-01	MW20-01	MW20-01	MW20-01	MW20-01	MW20-01	MW20-02	MW20-02
													Date Sampled	03-Aug-22	16-Nov-22	19-Apr-23	13-Jul-23	08-Nov-23	06-May-24	18-Jul-24	12-Nov-24	22-Apr-25	21-Jul-25	28-Oct-25	29-Apr-20	12-Nov-20		
													Lab Sample ID	22H0575-01	22K2135-02	23D2240-01	23G1841-01	23K1346-01	24E1366-01	24G2337-02	24K1661-01	25D3017-01	25G3085-01	25J4041-01	0042338-03	20K1498-01		
													Sample Type	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal		Normal		
Analyte	Unit	Guideline																										
		GCDWQ MAC	GCDWQ AO & O	BCAWQG L	BCWWQG L	BCAQWG I	BCWQWG I	BC.SDWQG MAC	BC.SDWQG AO	CSR IW	CSR LW	CSR DW																
Field Results																												
Conductivity	µS/cm	NG	NG	NG	NG	NG	700 ^{6.1}	NG	NG	NG	NG	NG	876	785	804	816	750	797	841	853	789	905	940	651	736			
Depth to Water (below top of casing)	m	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	45.65	46.265	46.15	46.07	46.41	45.955	46.645	46.75	46.105	46.95	47.3	49.43	49.69			
Oxidation reduction potential	mV	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	100.9	77.7	159.1	108.7	69.5	297.3	277.7	292.8	224.0	180.6	337.1		41.9			
Dissolved oxygen	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	8.13	6.30	8.22	8.57	7.13	9.01	6.93	7.02	7.49	7.80	8.53		4.67			
pH		NG	NG	5.0 - 9.5 ^{3.1}	NG	5.0 - 9.5 ^{5.1}	NG	NG	NG	NG	NG	NG	7.46	7.29	7.29	7.23	7.33	7.33	7.46	7.26	7.31	9.16	7.14	7.9	7.54			
Salinity		NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG																
Total dissolved solids	mg/L	NG	NG	NG	1000 ^{4.1}	NG	500 ^{6.2}	NG	NG	NG	NG	NG	572.0	513.5	520.0	533.0	487.5	520.0	546.0	552.5	513.5	588	611.0		481.0			
Temperature	°C	NG	NG	NG ^{3.2}	NG	N ^{5.2}	NG	NG	15	NG	NG	NG	11.5	10.2	10.7	11.4	12.0	10.9	21.0	1.06	10.9	11.8	10.6		9.8			
Turbidity	NTU	NG	NG	NG ^{3.3}	NG	N ^{5.3}	NG	N ^{7.1}	NG	NG	NG	NG	7.97	11.8	1.02	0.59	1.63	1.75	42.6	0.65	1.11	0.46	0.23		9.8			
Volume Purged	L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	75	30	30	38	20.5	35		24	42	22.0	40		1			
Lab Results																												
Dissolved Metals																												
Aluminum (dissolved)	mg/L	NG	NG	5 ^{3.4}	NG	5 ^{5.4}	NG	9.5	NG	5.000	5.000	9.500 ^{11.1}	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050			
Antimony (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	0.006	NG	NG	NG	0.006	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020			
Arsenic (dissolved)	mg/L	NG	NG	0.025 ^{3.5}	NG	0.100 ^{5.5}	NG	0.01	NG	0.100	0.025	0.010	0.00082	0.00093	0.00094	0.00093	0.00090	0.00094	0.00091	0.00094	0.00096	0.00088	0.00090	0.00166	0.00051			
Barium (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	1.000	0.0557	0.057	0.0524	0.0531	0.0508	0.0527	0.0518	0.0560	0.0482	0.0619	0.0629	0.0450	0.0445			
Beryllium (dissolved)	mg/L	NG	NG	NG	0.100	NG	0.100	NG	NG	0.100	0.100	0.008	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010			
Bismuth (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010			
Boron (dissolved)	mg/L	NG	NG	5 ^{3.6}	NG	0.5 ^{5.6}	NG	5.0	NG	0.500 ^{9.1}	5.000	5.000	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500			
Cadmium (dissolved)	mg/L	NG	NG	NG	0.080 ^{4.2}	NG	0.0051 ^{6.3}	0.005	NG	0.005	0.080	0.005	0.000029	0.000023	0.000024	0.000032	0.000026	0.000031	0.000028	0.000035	0.000025	0.000031	0.000034	0.000011	0.000043			
Calcium (dissolved)	mg/L	NG	NG	NG	1000	NG	NG	NG	NG	NG	1000	NG	125	83.3	108	111	106	112	137	126	112	136	136	85.8	101			
Chromium (dissolved)	mg/L	NG	NG	NG	0.050 ^{4.3}	NG	0.0049 ^{6.4}	0.05	NG	0.005 ^{9.2}	0.050 ^{10.1}	0.050 ^{11.2}	0.00177	0.00267	0.00245	0.00247	0.00263	0.00243	0.00230	0.00252	0.00252	0.00244	0.00218	0.00133	0.00237			
Cobalt (dissolved)	mg/L	NG	NG	NG	1	NG	0.050 ^{6.5}	0.001	NG	0.050	1.000	0.001 ^{11.3}	0.00032	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	9.00120	0.00014			
Copper (dissolved)	mg/L	NG	NG	0.300 ^{3.7}	NG	0.200 ^{5.7}	NG	2.0 ^{7.2}	1.0	0.200	0.300	1.500 ^{11.4}	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040			
Iron (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	NG	0.3	5.000 ^{9.3}	NG	6.500 ^{11.5}	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010			
Lead (dissolved)	mg/L	NG	NG	0.100 ^{3.8}	NG	0.200 ^{5.8}	NG	0.005	NG	0.200	0.100	0.010	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020			
Lithium (dissolved)	mg/L	NG	NG	NG	NG	NG	0.75 ^{6.6}	NG	NG	2.500 ^{9.4}	5.000	0.008	0.00662	0.00622	0.00695	0.00635	0.00631	0.00627	0.00694	0.00681	0.00625	0.00795	0.00686	0.00641	0.00580			
Magnesium (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	28.7	30.2	30.3	29.0	27.3	28.3	33.1	30.8	25.9	35.0	33.2	22.7	25.8			
Manganese (dissolved)	mg/L	NG	NG	NG	NG	NG	0.200	0.12	0.02	0.200 ^{9.5}	NG	1.500 ^{11.6}	0.00960	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	0.00037	<0.00020	<0.00020	<0.00020	<0.00020	0.0688	0.00707			
Mercury (dissolved)	mg/L	NG	NG	0.0030 ^{3.9}	NG	0.0020 ^{5.9}	NG	0.001	NG	0.001	0.002	0.001	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010			
Molybdenum (dissolved)	mg/L	NG	NG	0.016 ^{3.10}	NG	0.01 ^{5.10}	NG	0.088	NG	0.016 ^{9.6}	0.050	0.250	0.00209	0.00241	0.00228	0.00218	0.00226	0.00189	0.00226	0.00208	0.00218	0.00210	0.00194	0.00243	0.00239			
Nickel (dissolved)	mg/L	NG	NG	NG	1	NG	0.200	0.08	NG	0.200	1.000	0.080	0.00050	0.00040	<0.00040	0.00050	0.00041	0.00045	0.00049	0.00054	0.00048	0.00054	0.00068	0.00097	0.00055			
Selenium (dissolved)	mg/L	NG	NG	0.0300 ^{3.11}	NG	0.010 ^{5.11}	NG	0.01	NG	0.020 ^{9.7}	0.030	0.010	0.00686	0.00613	0.00462	0.00588	0.00341	0.00671	0.00815	0.00697	0.00492	0.0109	0.00701	0.00204	0.00299			
Silicon (dissolved, as Si)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	10.1	10.3	10.5	10.1	10.4	9.9	11.5	11.0	11.5	12.4	10.1	11.0	10.5			
Silver (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	0.020	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050			
Sodium (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	200 ^{11.7}	21.9	25.8	24.3	22.4	21.4	21.0	23.5	22.6	20.5	26.1	22.4	22.2	21.8			
Strontium (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	NG	7.0	NG	NG	2.500	0.886	0.793	0.833	0.854	0.790	0.883	0.813	0.941	0.844	0.911	1.05	0.692	0.713			
Sulphur (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	51.4	39.5	42.8	43.5	35.7	42.2	48.9	50.5	41.3	61.5	51.9	32.8	32.3			
Tellurium (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050			
Thallium (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020			
Thorium (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010			
Tin (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	2.500	NG	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020			
Titanium (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050			
Tungsten (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	0.003	NG	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010			
Uranium (dissolved)	mg/L	NG	NG	NG	0.200	NG	0.010	0.02	NG	0.010	0.200	0.020	0.00362	0.00312	0.00321	0.00316	0.00287	0.00274	0.00317	0.00302	0.00284	0.00405	0.00397	0.00250	0.00226			
Vanadium (dissolved)	mg/L	NG	NG	NG	0.100	NG	0.100	NG	NG	0.100	0.100	0.020	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0010	<0.0010			

Keremeos Transfer Station

Sampling Location														MW20-01	MW20-01	MW20-01	MW20-01	MW20-01	MW20-01	MW20-01	MW20-01	MW20-01	MW20-01	MW20-01	MW20-01	MW20-01	MW20-01	MW20-02	MW20-02
Date Sampled														03-Aug-22	16-Nov-22	19-Apr-23	13-Jul-23	08-Nov-23	06-May-24	18-Jul-24	12-Nov-24	22-Apr-25	21-Jul-25	28-Oct-25	29-Apr-20	12-Nov-20			
Lab Sample ID														22H0575-01	22K2135-02	23D2240-01	23G1841-01	23K1346-01	24E1366-01	24G2537-02	24K1661-01	25D3017-01	25G3085-01	25J4041-01	0042338-03	20K1496-01			
Sample Type														Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal			
Analyte	Unit	Guideline												CSR LW	CSR DW														
		GCDWQ MAC	GCDWQ AO & O	BCAWQG L	BCWWQG L	BCAWQG I	BCWWQG I	BC SDWQG MAG	BC SDWQG AQ	CSR IW	CSR LW	CSR DW																	
Hardness (as CaCO3), dissolved	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	430	333	396	398	377	397	478	442	386	483	477	308	360			
Hardness (as CaCO3), from total Ca/Mg	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG				411	378	409	439		397		478					
pH		NG	NG	5.0 - 9.5 ^{3.15}	NG	5.0 - 9.5 ^{5.14}	NG	NG	NG	NG	NG	NG	NG	7.89	7.82	7.76	7.75	8.12	7.89	7.60	7.89	7.76	7.84	7.88	8.11	7.72			
Sulphate	mg/L	NG	NG	1000		1000 ^{4.4}		NG	NG		500		NG	1000	141	121	124	119	110	130	128	149	110	180	165	95.4			
Microbiological																													
Total coliforms (counts)	CFU/100 mL	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG																
Total coliforms (MPN)	MPN/100 mL	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG																
E. coli (counts)	CFU/100 mL	NG	NG	200 ^{3.16}	NG	385 ^{5.15}	NG	10 ^{-7.3}	NG	NG	NG	NG	NG																
E. coli (MPN)	MPN/100 mL	NG	NG	200 ^{3.17}	NG	385 ^{5.16}	NG	10 ^{-7.4}	NG	NG	NG	NG	NG																
Heterotrophic plate count (counts)	CFU/mL	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG																
Heterotrophic plate count (MPN)	MPN/mL	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG																
Nutrients																													
Ammonia (total, as N)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	<0.050	<0.050	0.053	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050				
Nitrate (as N)	mg/L	NG	NG	100 ^{5.18}	NG	NG	NG	10	NG	NG	100 ^{10.3}	10 ^{11.11}	2.58	2.31	3.12	2.29	2.36	2.64	2.71	2.05	2.42	6.74	2.47	0.688	1.86				
Nitrate + Nitrite (as N)	mg/L	NG	NG	100 ^{5.19}	NG	NG	NG	10	NG	NG	100 ^{10.4}	10 ^{11.12}	2.58	2.31	3.12	2.29	2.36	2.64	2.71	2.05	2.42	6.74	2.47	0.712	1.86				
Nitrate + Nitrite (as N) (calculated)	mg/L	NG	NG	100 ^{5.20}	NG	NG	NG	NG	NG	NG	100 ^{10.5}	10 ^{11.13}	2.58	2.31	3.12	2.29	2.36	2.64	2.71	2.05	2.42	6.74	2.47	0.713	1.86				
Nitrite (as N)	mg/L	NG	NG	10 ^{3.21}	NG	NG	NG	1.0	NG	NG	10.000	1	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010				
Total nitrogen	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG					2.75											
Total kjeldahl nitrogen	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG					0.116											
Phosphorus (dissolved, by ICPMS/ICPOES)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	N ^{4.1}	NG	NG	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.055				
Phosphorus (total, by ICPMS/ICPOES)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	N ^{4.2}	NG	NG			<0.050	0.062	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050					
Potassium (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	3.58	3.32	3.58	3.62	3.73	3.54	3.80	3.89	3.52	4.04	4.03	3.62				
Potassium (total)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG			3.72	3.69		3.65	3.81		3.51		3.99					
Total Metals																													
Aluminum (total)	mg/L	NG	NG	5 ^{3.22}	NG	5 ^{5.17}	NG	9.5	NG	NG		9.50 ^{11.14}				0.0262	0.0123		0.0566	0.758		0.0231		<0.0050					
Antimony (total)	mg/L	NG	NG	NG	NG	NG	NG	0.006	NG	NG	NG	0.006	<0.00020	<0.00020	<0.00020			<0.00020	0.00034		<0.00020		<0.00020						
Arsenic (total)	mg/L	NG	NG	0.025 ^{3.23}	NG	0.100 ^{5.18}	NG	0.01	NG	NG	NG	0.010	0.00105	0.00096	0.00096	0.00115	0.00396	0.00096	0.00115	0.00396	0.00096	0.00096	0.00093	0.00093					
Barium (total)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	1.000	0.0523	0.0496	0.0512	0.0616	0.0481	0.0512	0.0616	0.0481	0.0512	0.0616	0.0481	0.0512					
Beryllium (total)	mg/L	NG	NG	NG	0.100	NG	0.100	NG	NG	NG	NG	0.008	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010					
Bismuth (total)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010					
Boron (total)	mg/L	NG	NG	5	NG	0.5 ^{5.19}	NG	5.0	NG	NG	NG	5.000	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500					
Cadmium (total)	mg/L	NG	NG	NG	0.080 ^{4.3}	NG	0.0051 ^{6.8}	0.005	NG	NG	NG	0.005	0.000024	0.000030	0.000030	0.000032	0.000105	0.000032	0.000105	0.000032	0.000105	0.000028	0.000032						
Calcium (total)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	118	104	114	123	112	114	123	112	123	112	137	95.4					
Chromium (total)	mg/L	NG	NG	NG	0.050 ^{4.8}	NG	0.0049 ^{6.9}	0.05	NG	NG	NG	0.050 ^{11.15}	0.00255	0.00254	0.00254	0.00254	0.00439	0.00254	0.00439	0.00254	0.00439	0.00254	0.00439	0.00226					
Cobalt (total)	mg/L	NG	NG	NG	1	NG	0.050 ^{5.10}	0.001	NG	NG	NG	0.001 ^{11.16}	<0.00010	<0.00010	<0.00010	0.00012	0.00138	0.00012	0.00138	0.00012	0.00138	<0.00010	<0.00010	<0.00010					
Copper (total)	mg/L	NG	NG	0.300	NG	0.200 ^{5.20}	NG	2.0 ^{7.5}	1.0	NG	NG	1.500 ^{11.17}	0.00050	0.00046	0.00050	0.00046	0.00078	0.00063	0.00078	0.00063	0.00078	0.00063	0.00078	0.00063					
Iron (total)	mg/L	NG	NG	NG	NG	NG	NG	NG	0.3	NG	NG	6.500 ^{11.18}	0.093	0.046	0.093	0.046	0.226	3.52	0.071	3.52	0.071	3.52	0.071	<0.010					
Lead (total)	mg/L	NG	NG	0.100	NG	0.200 ^{5.21}	NG	0.005	NG	NG	NG	0.010	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020					
Lithium (total)	mg/L	NG	NG	NG	NG	NG	0.75 ^{5.11}	NG	NG	NG	NG	0.008	0.0626	0.00643	0.0626	0.00643	0.00598	0.00740	0.00598	0.00740	0.00598	0.00740	0.00598	0.00740					
Magnesium (total)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	28.1	28.6	28.1	28.6	28.1	28.6	28.1	28.6	28.1	28.6	28.1	28.6	33.1				
Manganese (total)	mg/L	NG	NG	NG	NG	NG	0.200	0.12	0.02	NG	NG	1.500 ^{11.19}	0.00137	0.00068	0.00137	0.00068	0.00291	0.0387	0.00291	0.0387	0.00291	0.0387	0.00291	0.0387					
Mercury (total)	mg/L	NG	NG	0.0030	NG	0.0020	NG	0.001	NG	NG	NG	0.001	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010					
Molybdenum (total)	mg/L	NG	NG	0.016 ^{3.24}	NG	0.01 ^{5.22}	NG	0.088	NG	NG	NG	0.250	0.00254	0.00229	0.00254	0.00229	0.00225	0.00243	0.00225	0.00243	0.00225	0.00243	0.00225	0.00243					
Nickel (total)	mg/L	NG	NG	NG	1	NG	0.200	0.08	NG	NG	NG	0.080	0.00055	0.00053	0.00055	0.00053	0.00058	0.00186	0.00058	0.00186	0.00058	0.00186	0.00058	0.00186					
Selenium (total)	mg/L	NG	NG	0.0300 ^{3.25}	NG	0.010 ^{5.23}	NG	0.01	NG	NG	NG	0.010	0.00462	0.00567	0.00462	0.00567	0.00612	0.00743	0.00612	0.00743	0.00612	0.00743	0.00612	0.00743					
Silicon (total, as Si)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	10.2	10.1	10.2	10.1	10.4	12.6	10.4	12.6	10.4	12.6	10.4	12.6	10.6				
Silver (total)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	0.020	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050					
Sodium (total)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	200 ^{11.20}	22.9	22.0	22.9	22.0	22.9	22.5	22.9	22.5	22.9	22.5	22.9	22.5					
Strontium (total)	mg/L	NG	NG	NG	NG	NG	NG	7.0	NG	NG	NG	2.500	0.880	0.822	0.880	0.822	0.810	0.826	0.810	0.826	0.810	0.826	0.810	0.826	1.01				
Sulphur (total)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	43.7	44.4	43.7	44.4	45.1	47.5	45.1	47.5	45.1	47.5	45.1	47.5	54.4				
Tellurium (total)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050					
Thallium (total)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020					
Thorium (total)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.0001										



Keremeos Transfer Station
Water Quality Results

Sampling Location													MW20-02	MW20-02	MW20-02	MW20-02	MW20-02	MW20-02	MW20-02	MW20-02	MW20-02	MW20-02	MW20-02	MW20-02
Date Sampled													12-Apr-21	24-Jun-21	26-Oct-21	18-May-22	03-Aug-22	16-Nov-22	19-Apr-23	13-Jul-23	08-Nov-23	06-May-24	18-Jul-24	12-Nov-24
Lab Sample ID													21D1230-02	21F3483-02	21J3808-02	22E2755-02	22H0575-02	22K2135-03	23D2240-02	23G1841-02	23K1346-02	24E1366-02	24G2537-03	24K1661-02
Sample Type													Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal
Analyte	Unit	Guideline											CSRW	CSRW	CSRW	CSRW	CSRW	CSRW	CSRW	CSRW	CSRW	CSRW	CSRW	CSRW
		GCDWQ MAC	GCDWQ AO & O	BCAWQG L	BCWWQG L	BCAWQG I	BCWWQG I	BC SDWQG MAC	BC SDWQG AO	CSR IW	CSR LW	CSR DW												
Field Results																								
Conductivity	µS/cm	NG	NG	NG	NG	NG	700 ^{6.1}	NG	NG	NG	NG	NG	702	780	757	788	793	800	903	855	783	844	956	844
Depth to Water (below top of casing)	m	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	49.614	49.737	50.70	49.537	49.66	50.27	50.095	50.04	50.44	49.94	50.74	50.93
Oxidation reduction potential	mV	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	60.5	66.2	42.9	80.7	95.1	73.7	133.6	103.4	67.1	262.8	306.1	321.3
Dissolved oxygen	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	4.82	6.59	8.04	6.47	8.84	5.94	6.95	8.66	6.81	7.51	7.03	8.74
pH		NG	NG	5.0 - 9.5 ^{3.1}	NG	5.0 - 9.5 ^{5.1}	NG	NG	NG	NG	NG	NG	7.14	7.25	7.25	7.27	7.35	7.23	7.17	7.29	7.18	7.30	7.33	7.34
Salinity		NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG												
Total dissolved solids	mg/L	NG	NG	NG	1000 ^{4.1}	NG	500 ^{6.2}	NG	NG	NG	NG	NG	455.0	507.0	494.0	513.5	513.5	520.0	585.0	559.0	507.0	546.0	624.0	546.0
Temperature	°C	NG	NG	N ^{3.2}	NG	N ^{5.2}	NG	15	NG	NG	NG	NG	11.4	12.0	11.0	11.4	12.2	10.3	10.9	11.7	10.6	11.0	12.1	10.8
Turbidity	NTU	NG	NG	N ^{3.3}	NG	N ^{5.3}	NG	N ^{7.1}	NG	NG	NG	NG	276	6.26	2.32	1.82	31.8	9.58	1.12	1.59	2.65	2.6	0.74	1.09
Volume Purged	L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	1	33	43	66	57	30	65	51	60.5	42	62.7	58.3
Lab Results																								
Dissolved Metals																								
Aluminum (dissolved)	mg/L	NG	NG	5 ^{3.4}	NG	5 ^{5.4}	NG	9.5	NG	5.000	5.000	9.500 ^{11.1}	<0.0050	0.0054	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Antimony (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	0.006	NG	NG	NG	0.006	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Arsenic (dissolved)	mg/L	NG	NG	0.025 ^{3.5}	NG	0.100 ^{5.5}	NG	0.01	NG	0.100	0.025	0.010	<0.00050	0.00093	0.00059	0.00080	0.00073	0.00080	0.00085	0.00089	0.00091	0.00089	0.00084	0.00084
Barium (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	1.000	0.0457	0.0516	0.0434	0.0504	0.0499	0.0512	0.0597	0.0561	0.0520	0.0572	0.0631	0.0572
Beryllium (dissolved)	mg/L	NG	NG	NG	0.100	NG	0.100	NG	NG	0.100	0.100	0.008	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Bismuth (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Boron (dissolved)	mg/L	NG	NG	5 ^{3.6}	NG	0.5 ^{5.6}	NG	5.0	NG	0.500 ^{9.1}	5.000	5.000	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500
Cadmium (dissolved)	mg/L	NG	NG	NG	0.080 ^{4.2}	NG	0.0051 ^{9.3}	0.005	NG	0.005	0.080	0.005	<0.00010	0.000018	0.000022	0.000025	0.000013	0.000015	0.000030	0.000029	0.000028	0.000024	0.000037	0.000032
Calcium (dissolved)	mg/L	NG	NG	NG	1000	NG	NG	NG	NG	NG	1000	NG	92.7	129	104	103	113	89.9	125	113	114	120	155	124
Chromium (dissolved)	mg/L	NG	NG	NG	0.050 ^{4.3}	NG	0.0049 ^{5.4}	0.05	NG	0.005 ^{9.2}	0.050 ^{10.1}	0.050 ^{11.2}	0.00275	0.00221	0.00195	0.00232	0.00157	0.00214	0.00248	0.00232	0.00256	0.00221	0.00205	0.00249
Cobalt (dissolved)	mg/L	NG	NG	NG	1	NG	0.050 ^{6.5}	0.001	NG	0.050	1.000	0.001 ^{11.3}	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Copper (dissolved)	mg/L	NG	NG	0.300 ^{3.7}	NG	0.200 ^{5.7}	NG	2.0 ^{7.2}	1.0	0.200	0.300	1.500 ^{11.4}	<0.00040	0.00049	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040
Iron (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	NG	0.3	5.000 ^{9.3}	NG	6.500 ^{11.5}	<0.010	0.032	0.020	<0.010	0.046	0.037	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Lead (dissolved)	mg/L	NG	NG	0.100 ^{3.8}	NG	0.200 ^{5.8}	NG	0.005	NG	0.200	0.100	0.010	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Lithium (dissolved)	mg/L	NG	NG	NG	NG	NG	0.75 ^{6.6}	NG	NG	2.500 ^{9.4}	5.000	0.008	0.00590	0.00840	0.00551	0.00595	0.00624	0.00628	0.00704	0.00639	0.00662	0.00631	0.00720	0.00671
Magnesium (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	25.0	31.0	26.6	25.5	25.7	31.5	33.5	30.5	29.0	30.1	36.5	31.2
Manganese (dissolved)	mg/L	NG	NG	NG	NG	NG	0.200	0.12	0.02	0.200 ^{9.5}	NG	1.500 ^{11.6}	0.00062	0.00194	0.00269	0.00035	0.00161	0.00127	<0.00020	0.00025	<0.00020	0.00043	0.00021	<0.00020
Mercury (dissolved)	mg/L	NG	NG	0.0030 ^{3.9}	NG	0.0020 ^{5.9}	NG	0.001	NG	0.001	0.002	0.001	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Molybdenum (dissolved)	mg/L	NG	NG	0.016 ^{3.10}	NG	0.1 ^{3.10}	NG	0.088	NG	0.010 ^{9.6}	0.050	0.250	0.00249	0.00264	0.00215	0.00225	0.00194	0.00218	0.00209	0.00188	0.00210	0.00184	0.00202	0.00204
Nickel (dissolved)	mg/L	NG	NG	NG	1	NG	0.200	0.08	NG	0.200	1.000	0.080	0.00045	0.00048	<0.00040	<0.00040	0.00053	0.00056	0.00060	0.00068	0.00047	0.00063	0.00082	0.00058
Selenium (dissolved)	mg/L	NG	NG	0.0300 ^{3.11}	NG	0.010 ^{5.11}	NG	0.01	NG	0.020 ^{9.7}	0.030	0.010	0.00306	0.00531	0.00330	0.00466	0.00441	0.00359	0.00825	0.00618	0.00412	0.00680	0.00965	0.00578
Silicon (dissolved, as Si)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	11.2	11.7	10.1	9.0	10.1	10.8	10.6	10.2	10.9	10.2	11.3	10.9
Silver (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050
Sodium (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	200 ^{11.7}	20.9	24.8	22.4	20.4	19.9	25.0	24.6	21.4	20.6	20.1	23.2
Strontium (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	7.0	NG	NG	NG	NG	2.500	0.679	0.823	0.657	0.812	0.774	0.823	1.01	0.895	0.831	0.939	1.03
Sulphur (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	33.2	49.3	37.8	38.8	42.5	39.9	58.1	51.1	40.2	50.4	72.3	48.5
Tellurium (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Thallium (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
Thorium (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Tin (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Titanium (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Tungsten (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Uranium (dissolved)	mg/L	NG	NG	NG	0.200	NG	0.010	0.02	NG	0.010	0.200	0.020	0.00254	0.00307	0.00264	0.00281	0.00304	0.00357	0.00323	0.00300	0.00284	0.00473	0.00327	0.00418

Keremeos Transfer Station
Water Quality Results

Sampling Location													MW20-02	MW20-02	MW20-02	MW20-02	MW20-02	MW20-02	MW20-02	MW20-02	MW20-02	MW20-02	MW20-02	MW20-02	MW20-02
Date Sampled													12-Apr-21	24-Jun-21	26-Oct-21	18-May-22	03-Aug-22	16-Nov-22	19-Apr-23	13-Jul-23	08-Nov-23	06-May-24	18-Jul-24	12-Nov-24	22-Apr-25
Lab Sample ID													21D1230-02	21F3483-02	21J3808-02	22E2755-02	22H0575-02	22K2135-03	23D2240-02	23G1841-02	23K1346-02	24E1366-02	24G2537-03	24K1661-02	25D3017-02
Sample Type													Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal
Analyte	Unit	Guideline											BC SDWQG AO	BC SDWQG AO	CSR IW	CSR LW	CSR DW								
		GCDWQ MAC	GCDWQ AO & O	BCAWQG L	BCWWQG L	BCAWQG I	BCWWQG I	BC SDWQG MAC	BC SDWQG AO	CSR IW	CSR LW	CSR DW													
Hardness (as CaCO3), dissolved	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	335	449	369	363	387	354	450	408	405	424	539	439	515
Hardness (as CaCO3), from total Ca/Mg	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG						456	396		452	568		560	
pH		NG	NG	5.0 - 9.5 ^{3.15}	NG	5.0 - 9.5 ^{5.14}	NG	NG	NG	NG	NG	NG	7.83	7.84	8.08	7.34	7.95	7.85	7.80	7.79	8.06	7.47	7.53	7.86	7.72
Sulphate	mg/L	NG	NG	1000	1000 ^{4.4}	NG	NG	NG	500	NG	1000	500 ^{11.10}	92.9	118	104	116	117	118	173	139	119	157	183	137	206
Microbiological																									
Total coliforms (counts)	CFU/100 mL	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG													
Total coliforms (MPN)	MPN/100 mL	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG													
E. coli (counts)	CFU/100 mL	NG	NG	200 ^{3.16}	NG	385 ^{5.15}	NG	10 ^{7.3}	NG	NG	NG	NG													
E. coli (MPN)	MPN/100 mL	NG	NG	200 ^{3.17}	NG	385 ^{5.16}	NG	10 ^{7.4}	NG	NG	NG	NG													
Heterotrophic plate count (counts)	CFU/mL	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG													
Heterotrophic plate count (MPN)	MPN/mL	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG													
Nutrients																									
Ammonia (total, as N)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	
Nitrate (as N)	mg/L	NG	NG	100 ^{3.18}	NG	NG	NG	10	NG	NG	100 ^{10.3}	10 ^{11.11}	1.50	1.73	1.95	1.99	2.86	2.90	2.67	1.92	2.65	2.42	2.41	2.24	3.01
Nitrate + Nitrite (as N)	mg/L	NG	NG	100 ^{3.19}	NG	NG	NG	NG	NG	NG	100 ^{10.4}	10 ^{11.12}	1.50	1.73	1.95	1.99	2.86	2.90	2.67	1.92	2.65	2.42	2.41	2.24	3.01
Nitrate + Nitrite (as N) (calculated)	mg/L	NG	NG	100 ^{3.20}	NG	NG	NG	NG	NG	NG	100 ^{10.5}	10 ^{11.13}	1.50	1.73	1.95	1.99	2.86	2.90	2.67	1.92	2.65	2.42	2.41	2.24	3.01
Nitrite (as N)	mg/L	NG	NG	10 ^{3.21}	NG	NG	NG	1.0	NG	NG	10.000	1	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Total nitrogen	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG													
Total kjeldahl nitrogen	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG													
Phosphorus (dissolved, by ICPMS/ICPOES)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	N ^{4.1}	NG	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	
Phosphorus (total, by ICPMS/ICPOES)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	N ^{4.2}	NG							<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	
Potassium (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	3.36	3.91	3.83	3.48	3.42	3.40	3.69	3.62	3.76	3.56	3.88	3.81	3.91
Potassium (total)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG							3.73	3.62		3.67	4.06		3.93
Total Metals																									
Aluminum (total)	mg/L	NG	NG	5 ^{3.22}	NG	5 ^{5.17}	NG	9.5	NG	NG	NG	9.500 ^{11.14}							0.0123	0.0122		0.0353	0.0074		0.0097
Antimony (total)	mg/L	NG	NG	NG	NG	NG	NG	0.006	NG	NG	NG	0.006							<0.00020	<0.00020		<0.00020	<0.00020		<0.00020
Arsenic (total)	mg/L	NG	NG	0.025 ^{3.23}	NG	0.100 ^{5.18}	NG	0.01	NG	NG	NG	0.010							0.00097	0.00091		0.00103	0.00087		0.00092
Barium (total)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	1.000							0.0580	0.0520		0.0554	0.0641		0.0663
Beryllium (total)	mg/L	NG	NG	NG	0.100	NG	0.100	NG	NG	NG	NG	0.008							<0.00010	<0.00010		<0.00010	<0.00010		<0.00010
Bismuth (total)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG							<0.00010	<0.00010		<0.00010	<0.00010		<0.00010
Boron (total)	mg/L	NG	NG	5	NG	0.5 ^{5.19}	NG	5.0	NG	NG	NG	5.000							<0.0500	<0.0500		<0.0500	<0.0500		<0.0500
Cadmium (total)	mg/L	NG	NG	NG	0.080 ^{4.5}	NG	0.0051 ^{6.8}	0.005	NG	NG	NG	0.005							0.000028	0.000032		0.000039	0.000034		0.000034
Calcium (total)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG							131	109		160	158		
Chromium (total)	mg/L	NG	NG	NG	NG	0.050 ^{4.6}	NG	0.0049 ^{6.9}	0.05	NG	NG	0.050 ^{11.15}							0.00268	0.00251		0.00278	0.00234		0.00272
Cobalt (total)	mg/L	NG	NG	NG	1	NG	0.050 ^{5.10}	0.001	NG	NG	NG	0.001 ^{11.16}							<0.00010	<0.00010		0.00011	<0.00010		<0.00010
Copper (total)	mg/L	NG	NG	0.300	NG	0.200 ^{5.20}	NG	2.0 ^{7.5}	1.0	NG	NG	1.500 ^{11.17}							<0.00040	<0.00040		0.00061	<0.00040		0.00042
Iron (total)	mg/L	NG	NG	NG	NG	NG	NG	NG	0.3	NG	NG	6.500 ^{11.18}							0.092	0.110		0.324	0.045		0.074
Lead (total)	mg/L	NG	NG	0.100	NG	0.200 ^{5.21}	NG	0.005	NG	NG	NG	0.010							<0.00020	<0.00020		<0.00020	<0.00020		<0.00020
Lithium (total)	mg/L	NG	NG	NG	NG	NG	0.75 ^{6.11}	NG	NG	NG	NG	0.008							0.00620	0.00635		0.00623	0.00848		0.00686
Magnesium (total)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG							31.2	30.1		31.5	40.6		40.0
Manganese (total)	mg/L	NG	NG	NG	NG	NG	0.200	0.12	0.02	NG	NG	1.500 ^{11.19}							0.00102	0.00107		0.00309	0.00068		0.00074
Mercury (total)	mg/L	NG	NG	0.0030	NG	0.0020	NG	0.001	NG	NG	NG	0.001							<0.000040	<0.000010		<0.000010	<0.000010		<0.000010
Molybdenum (total)	mg/L	NG	NG	0.016 ^{3.24}	NG	0.01 ^{5.22}	NG	0.088	NG	NG	NG	0.250							0.00212	0.00213		0.00199	0.00198		0.00209
Nickel (total)	mg/L	NG	NG	NG	1	NG	0.200	0.08	NG	NG	NG	0.080							0.00067	0.00065		0.00076	0.00087		0.00086
Selenium (total)	mg/L	NG	NG	0.0300 ^{3.25}	NG	0.010 ^{5.23}	NG	0.01	NG	NG	NG	0.010							0.00755	0.00574		0.00573	0.00926		0.0104
Silicon (total, as Si)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG							10.2	10.1		11.1	11.9		10.8
Silver (total)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	0.020							<0.000050	<0.000050		<0.000050	<0.000050		<0.000050
Sodium (total)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	200 ^{11.20}							21.9	20.7		21.7	26.2		22.9
Strontium (total)	mg/L	NG	NG	NG	NG	NG	NG	7.0	NG	NG	NG	2.500							0.973	0.851		0.878	1.03		1.08
Sulphur (total)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG							58.7	52.2		53.5	73.8		76.7
Tellurium (total)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG							<0.00050	<0.00050		<0.00050	<0.00050		<0.00050
Thallium (total)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG							<0.000020	<0.000020		<0.000020	<0.000020		<0.000020
Thorium (total)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG							<0.00010	<0.00010					



Keremeos Transfer Station
Water Quality Results

Sampling Location													MW20-02	MW20-02	MW24-03	MW24-03	MW24-03	MW24-03	MW24-03	MW24-03	MW24-03	MW24-03	MW24-03	MW24-03			
Date Sampled													21-Jul-25	28-Oct-25	05-May-24	22-Jul-24	13-Nov-24	13-Nov-24	13-Nov-24	10-Apr-25	21-Jul-25	28-Oct-25	28-Oct-25	28-Oct-25			
Lab Sample ID													25G3085-02	25J4041-02	24E1366-04	24G2875-02	24K1683-01	24K1683-02	24K1683-03	25D1735-01	25G3085-04	25J4041-05	25J4041-06	25J4041-07			
Sample Type													Normal	Normal	Normal	Normal	Normal	Duplicate	Duplicate	Normal	Normal	Normal	Duplicate	Duplicate			
Analyte	Unit	Guideline																									
		GCDWQ MAC	GCDWQ AO & O	BCAWQG L	BCWWQG L	BCAWQG I	BCWWQG I	BC SDWQG MAC	BC SDWQG AO	CSR IW	CSR LW	CSR DW															
Field Results																											
Conductivity	µS/cm	NG	NG	NG	NG	NG	700 ^{6.1}	NG	NG	NG	NG	NG	963	865	1179	1303	1266			1199	1249	1336					
Depth to Water (below top of casing)	m	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	51.06	51.42	53.55	54.335	53.343			53.75	54.565	54.914					
Oxidation reduction potential	mV	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	184.1	293.9	305.2	268.8	298.3			208.1	194.9	312.2					
Dissolved oxygen	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	6.96	9.06	8.18	7.11	7.37			5.73	6.58	8.02					
pH		NG	NG	5.0 - 9.5 ^{3.1}	NG	5.0 - 9.5 ^{5.1}	NG	NG	NG	NG	NG	NG	11.14	7.13	7.41	7.50	7.33			7.36	9.09	7.16					
Salinity		NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG															
Total dissolved solids	mg/L	NG	NG	NG	1000 ^{4.1}	NG	500 ^{6.2}	NG	NG	NG	NG	NG	626	565.5	767.0	845.0	825.5			780.0	812	871.0					
Temperature	°C	NG	NG	N ^{3.2}	NG	N ^{5.2}	NG	15	NG	NG	NG	NG	11.4	10.7	12.4	13.3	11.7			11.9	12.7	11.7					
Turbidity	NTU	NG	NG	N ^{3.3}	NG	N ^{5.3}	NG	N ^{7.1}	NG	NG	NG	NG	0.58	1.28	0.69	0.56	0.60			27.0	0.40	0.27					
Volume Purged	L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	40	18	36	312	48			44	40	54					
Lab Results																											
Dissolved Metals																											
Aluminum (dissolved)	mg/L	NG	NG	5 ^{3.4}	NG	5 ^{5.4}	NG	9.5	NG	5.000	5.000	9.500 ^{11.1}	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050			
Antimony (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	0.006	NG	NG	NG	0.006	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020			
Arsenic (dissolved)	mg/L	NG	NG	0.025 ^{3.5}	NG	0.100 ^{5.5}	NG	0.01	NG	0.100	0.025	0.010	0.00085	0.00085	0.00145	0.00100	0.00091	0.00092	0.00092	0.00103	0.00106	0.00100	0.00105	0.00103			
Barium (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	1.000	0.0663	0.0583	0.0731	0.0829	0.0749	0.0759	0.0749	0.0683	0.0784	0.0778	0.0784	0.0785			
Beryllium (dissolved)	mg/L	NG	NG	NG	0.100	NG	0.100	NG	NG	0.100	0.100	0.008	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010			
Bismuth (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010			
Boron (dissolved)	mg/L	NG	NG	5 ^{3.6}	NG	0.5 ^{5.6}	NG	5.0	NG	0.500 ^{9.1}	5.000	5.000	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500			
Cadmium (dissolved)	mg/L	NG	NG	NG	0.080 ^{4.2}	NG	0.0051 ^{9.3}	0.005	NG	0.005	0.080	0.005	0.000030	0.000027	0.000030	0.000032	0.000038	0.000036	0.000040	0.000034	0.000042	0.000045	0.000045	0.000045			
Calcium (dissolved)	mg/L	NG	NG	NG	1000	NG	NG	NG	NG	NG	1000	NG	142	121	114	138	128	136	137	116	136	134	137	135			
Chromium (dissolved)	mg/L	NG	NG	NG	0.050 ^{4.3}	NG	0.0049 ^{9.4}	0.05	NG	0.005 ^{9.2}	0.050 ^{10.1}	0.050 ^{11.2}	0.00227	0.00232	0.00249	0.00237	0.00254	0.00259	0.00273	0.00278	0.00306	0.00317	0.00313	0.00319			
Cobalt (dissolved)	mg/L	NG	NG	NG	1	NG	0.050 ^{6.5}	0.001	NG	0.050	1.000	0.001 ^{11.3}	<0.00010	<0.00010	0.00012	0.00017	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010			
Copper (dissolved)	mg/L	NG	NG	0.300 ^{3.7}	NG	0.200 ^{5.7}	NG	2.0 ^{7.2}	1.0	0.200	0.300	1.500 ^{11.4}	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	0.00041			
Iron (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	NG	0.3	5.000 ^{9.3}	NG	6.500 ^{11.5}	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010			
Lead (dissolved)	mg/L	NG	NG	0.100 ^{3.8}	NG	0.200 ^{5.8}	NG	0.005	NG	0.200	0.100	0.010	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020			
Lithium (dissolved)	mg/L	NG	NG	NG	NG	NG	0.75 ^{6.6}	NG	NG	2.500 ^{9.4}	5.000	0.008	0.00781	0.00660	0.0145	0.0157	0.0146	0.0164	0.0160	0.0162	0.0149	0.0145	0.0146	0.0149			
Magnesium (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	38.4	31.4	82.7	97.8	88.7	94.3	93.8	82.0	88.1	87.6	87.0	88.3			
Manganese (dissolved)	mg/L	NG	NG	NG	NG	NG	0.200	0.12	0.02	0.200 ^{9.5}	NG	1.500 ^{11.6}	<0.00020	<0.00020	0.0191	0.00914	0.00214	0.00211	0.00209	0.00033	0.00026	0.00026	0.00027	0.00028			
Mercury (dissolved)	mg/L	NG	NG	0.0030 ^{3.9}	NG	0.0020 ^{5.9}	NG	0.001	NG	0.001	0.002	0.001	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010			
Molybdenum (dissolved)	mg/L	NG	NG	0.016 ^{3.10}	NG	0.01 ^{5.10}	NG	0.088	NG	0.010 ^{9.6}	0.050	0.250	0.00195	0.00186	0.00261	0.00245	0.00268	0.00276	0.00275	0.00282	0.00288	0.00268	0.00265	0.00272			
Nickel (dissolved)	mg/L	NG	NG	NG	1	NG	0.200	0.08	NG	0.200	1.000	0.080	0.00067	0.00055	0.00150	0.00123	0.00115	0.00117	0.00113	0.00101	0.00100	0.00123	0.00108	0.00109			
Selenium (dissolved)	mg/L	NG	NG	0.0300 ^{3.11}	NG	0.010 ^{5.11}	NG	0.01	NG	0.020 ^{9.7}	0.030	0.010	0.00956	0.00665	0.00740	0.00899	0.00906	0.00940	0.00940	0.00679	0.00795	0.00917	0.00927	0.00938			
Silicon (dissolved, as Si)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	12.3	10.2	11.0	11.8	11.9	12.2	12.4	11.3	13.0	10.8	10.9	10.8			
Silver (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	0.020	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050			
Sodium (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	200 ^{11.7}	25.3	22.0	33.3	36.9	36.8	38.5	38.2	33.4	36.8	37.7	36.7	38.1			
Strontium (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	7.0	NG	NG	NG	2.500	0.984	0.949	1.27	1.33	1.35	1.35	1.34	1.24	1.27	1.49	1.47	1.51			
Sulphur (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	66.2	46.9	89.6	117	108	113	114	83.6	101	108	109	107			
Tellurium (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050			
Thallium (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020			
Thorium (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010			
Tin (dissolved)	mg/L	NG	NG																								

Keremeos Transfer Station
Water Quality Results

Sampling Location													MW20-02	MW20-02	MW24-03	MW24-03	MW24-03	MW24-03	MW24-03	MW24-03	MW24-03	MW24-03	MW24-03
Date Sampled													21-Jul-25	28-Oct-25	05-May-24	22-Jul-24	13-Nov-24	13-Nov-24	10-Apr-25	21-Jul-25	28-Oct-25	28-Oct-25	28-Oct-25
Lab Sample ID													25G3085-02	25J4041-02	24E1366-04	24G2875-02	24K1683-01	24K1683-02	24K1683-03	25D1735-01	25G3085-04	25J4041-05	25J4041-06
Sample Type													Normal	Normal	Normal	Normal	Normal	Duplicate	Duplicate	Normal	Normal	Normal	Duplicate
Analyte	Unit	Guideline																					
		GCDWQ MAC	GCDWQ AO & O	BCAWQG L	BCWWQG L	BCAWQG I	BCWWQG I	BC SDWQG MAC	BC SDWQG AO	CSR IW	CSR LW	CSR DW											
Hardness (as CaCO3), dissolved	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	514	433	626	748	685	728	728	628	702	695	700
Hardness (as CaCO3), from total Ca/Mg	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG		429	647				635		709		
pH		NG	NG	5.0 - 9.5 ^{3,10}	NG	5.0 - 9.5 ^{5,14}	NG	NG	NG	NG	NG	NG	7.81	7.91	7.80	7.35	7.87	7.85	7.83	7.99	7.92	8.00	7.96
Sulphate	mg/L	NG	NG	1000	1000 ^{1,4}	NG	NG	NG	500	NG	1000	500 ^{11,10}	177	150	274	321	299	301	295	235	283	304	322
Microbiological																							
Total coliforms (counts)	CFU/100 mL	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG											
Total coliforms (MPN)	MPN/100 mL	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG											
E. coli (counts)	CFU/100 mL	NG	NG	200 ^{3,16}	NG	385 ^{5,15}	NG	10 ^{7,3}	NG	NG	NG	NG											
E. coli (MPN)	MPN/100 mL	NG	NG	200 ^{3,17}	NG	385 ^{5,16}	NG	10 ^{7,4}	NG	NG	NG	NG											
Heterotrophic plate count (counts)	CFU/mL	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG											
Heterotrophic plate count (MPN)	MPN/mL	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG											
Nutrients																							
Ammonia (total, as N)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	<0.050	<0.050	<0.050	<0.050	0.076	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Nitrate (as N)	mg/L	NG	NG	100 ^{3,18}	NG	NG	NG	10	NG	NG	100 ^{10,3}	10 ^{11,11}	3.46	1.91	4.12	4.79	3.56	3.49	3.48	5.19	7.32	5.82	5.33
Nitrate + Nitrite (as N)	mg/L	NG	NG	100 ^{3,19}	NG	NG	NG	NG	NG	NG	100 ^{10,4}	10 ^{11,12}	3.46	1.91	4.68	4.79	3.56	3.49	3.48	5.19	7.32	5.82	5.33
Nitrate + Nitrite (as N) (calculated)	mg/L	NG	NG	100 ^{3,20}	NG	NG	NG	NG	NG	NG	100 ^{10,5}	10 ^{11,13}	3.46	1.91	4.68	4.79	3.56	3.49	3.48	5.19	7.32	5.82	5.33
Nitrite (as N)	mg/L	NG	NG	10 ^{3,21}	NG	NG	NG	1.0	NG	NG	10.000	1	<0.010	<0.010	0.559	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Total nitrogen	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG			4.87								
Total kjeldahl nitrogen	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG			0.191								
Phosphorus (dissolved, by ICPMS/ICPOES)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG ^{8,1}	NG	NG	NG	<0.050	<0.050	<0.050	<0.050		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Phosphorus (total, by ICPMS/ICPOES)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG ^{8,2}	NG	NG	NG		<0.050	<0.050				<0.050	<0.050	<0.050		
Potassium (dissolved)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	4.07	3.80	4.41	4.82	4.98	4.88	4.84	4.31	4.95	4.88	4.83
Potassium (total)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG		3.89	4.59				4.42		4.79		
Total Metals																							
Aluminum (total)	mg/L	NG	NG	5 ^{3,22}	NG	5 ^{5,17}	NG	9.5	NG	NG	NG	9.500 ^{11,14}		0.0487	0.0069					<0.0050		<0.0050	
Antimony (total)	mg/L	NG	NG	NG	NG	NG	NG	0.006	NG	NG	NG	0.001		<0.00020	<0.00020				<0.00020		<0.00020		
Arsenic (total)	mg/L	NG	NG	0.025 ^{3,23}	NG	0.100 ^{5,18}	NG	0.01	NG	NG	NG	0.010		0.00114	0.00142				0.00112		0.00108		
Barium (total)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	1.000		0.0544	0.0702				0.0726		0.0753		
Beryllium (total)	mg/L	NG	NG	NG	0.100	NG	0.100	NG	NG	NG	NG	0.008		<0.00010	<0.00010				<0.00010		<0.00010		
Bismuth (total)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG		<0.00010	<0.00010				<0.00010		<0.00010		
Boron (total)	mg/L	NG	NG	5	NG	0.5 ^{5,19}	NG	5.0	NG	NG	NG	5.000		<0.0500	<0.0500				<0.0500		<0.0500		
Cadmium (total)	mg/L	NG	NG	NG	0.080 ^{4,8}	NG	0.0051 ^{8,8}	0.005	NG	NG	NG	0.005		0.000034	0.000031				0.000044		0.000046		
Calcium (total)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG		121	117				125		139		
Chromium (total)	mg/L	NG	NG	NG	0.050 ^{4,6}	NG	0.0049 ^{8,9}	0.05	NG	NG	NG	0.050 ^{11,15}		0.00271	0.00367				0.00295		0.00321		
Cobalt (total)	mg/L	NG	NG	NG	1	NG	0.050 ^{6,10}	0.001	NG	NG	NG	0.001 ^{11,16}		0.00012	0.00014				<0.00010		<0.00010		
Copper (total)	mg/L	NG	NG	0.300	NG	0.200 ^{5,20}	NG	2.0 ^{7,5}	1.0	NG	NG	1.500 ^{11,17}		0.00100	0.00060				<0.00040		0.00045		
Iron (total)	mg/L	NG	NG	NG	NG	NG	NG	NG	0.3	NG	NG	6.500 ^{11,18}		0.396	0.018				<0.010		<0.010		
Lead (total)	mg/L	NG	NG	0.100	NG	0.200 ^{5,21}	NG	0.005	NG	NG	NG	0.010		<0.00020	<0.00020				<0.00020		<0.00020		
Lithium (total)	mg/L	NG	NG	NG	NG	NG	0.75 ^{6,11}	NG	NG	NG	NG	0.008		0.00632	0.0135				0.0150		0.0145		
Magnesium (total)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG		30.8	85.8				78.5		87.6		
Manganese (total)	mg/L	NG	NG	NG	NG	NG	0.200	0.12	0.02	NG	NG	1.500 ^{11,19}		0.00336	0.0195				0.00056		0.00067		
Mercury (total)	mg/L	NG	NG	0.0030	NG	0.0020	NG	0.001	NG	NG	NG	0.001		<0.000010	<0.000010				<0.000010		<0.000010		
Molybdenum (total)	mg/L	NG	NG	0.016 ^{3,24}	NG	0.01 ^{5,22}	NG	0.088	NG	NG	NG	0.250		0.00217	0.00299				0.00323		0.00292		
Nickel (total)	mg/L	NG	NG	NG	1	NG	0.200	0.08	NG	NG	NG	0.080		0.00067	0.00153				0.00108		0.00114		
Selenium (total)	mg/L	NG	NG	0.0300 ^{3,25}	NG	0.010 ^{5,23}	NG	0.01	NG	NG	NG	0.010		0.00622	0.00689				0.00688		0.00934		
Silicon (total, as Si)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG		10.7	11.5				11.5				
Silver (total)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	0.020		<0.000050	<0.000050				<0.000050		<0.000050		
Sodium (total)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	200 ^{11,20}		21.5	36.1				33.4		37.7		
Strontium (total)	mg/L	NG	NG	NG	NG	NG	NG	7.0	NG	NG	NG	2.500		0.909	1.18				1.32		1.44		
Sulphur (total)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG		48.7	95.5				93.8		115		
Tellurium (total)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG		<0.00050	<0.00050				<0.00050		<0.00050		
Thallium (total)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG		<0.000020	<0.000020				<0.000020		<0.000020		
Thorium (total)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG		<0.00010	<0.00010				<0.00010		<0.00010		
Tin (total)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	2.500		<0.00020	<0.00020				<0.00020		<0.00020		
Titanium (total)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG		<0.0050	<0.0050				<0.0050		<0.0050		
Tungsten (total)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	0.003		<0.0010	<0.0010				<0.0010		<0.0010		
Uranium (total)	mg/L	NG	NG	NG	0.200	NG	0.010	0.02	NG	NG	NG	0.020		0.00393	0.00775				0.00828		0.00820		
Vanadium (total)	mg/L	NG	NG	NG	0.100	NG	0.100	NG	NG	NG	NG	0.020		<0.0050	<0.0050				<0.0050		<0.0050		
Zinc (total)	mg/L	NG	NG	2.000	NG	1.000 ^{5,24}	NG	3.0	5.0	NG	NG	3.000 ^{11,21}		<0.0040	<0.0040				<0.0040		<0.0040		
Zirconium (total)	mg/L	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG		<0.00010	<0.00010				<0.00010		<0.00010		



Keremeos Transfer Station

Water Quality Results

Legend for Reports for RDOS Landfill and Wastewater Treatment Sites Water Quality Results

<	Less than reported detection limit
>	Greater than reported upper detection limit
>=	Greater than or equal to
A	Absent
BC SDWQG AO	BC Source Drinking Water Quality Guidelines - Aesthetic Objectives
BC SDWQG MAC	BC Source Drinking Water Quality Guidelines - Maximum Acceptable Concentrations
BCAWQG I	BC Approved Water Quality Guidelines for irrigation
BCAWQG L	BC Approved Water Quality Guidelines for livestock
BCWWQG I	BC Working Water Quality Guidelines for Irrigation
BCWWQG L	BC Working Water Quality Guidelines for Livestock
Calc	Calculated guideline or standard. The guideline or standard is dependent on the value of one or more other analytes, and is calculated from a formula or table.
CSR DW	BC CSR Generic Numerical Water Standards for Drinking Water
CSR IW	BC CSR Generic Numerical Water Standards for Irrigation
CSR LW	BC CSR Generic Numerical Water Standards for Livestock
GCDWQ AO & O	Guidelines for Canadian Drinking Water Quality - Aesthetic Objectives and Other
GCDWQ MAC	Guidelines for Canadian Drinking Water Quality - Maximum Acceptable Concentrations
L	Laboratory reading type (Lab result)
m asl	metres above sea level
N	Narrative type of guideline or standard, or Result Note.
ND	Non-detect. Result is less than lower detection limit.
NG	No Guideline
NR	No Result
NS	No Standard
NT	Not Tested
OG	Overgrown
P	Present
PR	Presumptive
TK	Test kit reading type (Field result)
TNTC	Too numerous to count
	Highlighted value has a lower detection limit that is greater than the guideline/standard maximum and/or the guideline/standard minimum, or has an upper detection limit that is less than the guideline/standard maximum and/or the guideline/standard minimum.
100	The maximum guideline/standard value cannot be determined because a result for a dependent analyte is not available for the sample.

Keremeos Transfer Station

Water Quality Results

<u>BC SDWQG AO</u>	Highlighted value exceeds BC SDWQG AO
<u>BC SDWQG MAC</u>	Highlighted value exceeds BC SDWQG MAC
<u>BCAWQG I</u>	Highlighted value exceeds BCAWQG I
<u>BCAWQG L</u>	Highlighted value exceeds BCAWQG L
<u>BCWWQG I</u>	Highlighted value exceeds BCWWQG I
<u>BCWWQG L</u>	Highlighted value exceeds BCWWQG L
CSR DW	Highlighted value exceeds CSR DW
<u>CSR IW</u>	Highlighted value exceeds CSR IW
<u>CSR LW</u>	Highlighted value exceeds CSR LW
GCDWQ AO & O	Highlighted value exceeds GCDWQ AO & O
GCDWQ MAC	Highlighted value exceeds GCDWQ MAC
<u>SL Criteria Override</u>	Highlighted value exceeds sampling location criteria override

Guideline Notes for Reports for RDOS Landfill and Wastewater Treatment Sites Water Quality Results

1. Notes for Guidelines for Canadian Drinking Water Quality - Maximum Acceptable Concentrations (GCDWQ MAC)

2. Notes for Guidelines for Canadian Drinking Water Quality - Aesthetic Objectives and Other (GCDWQ AO & O)

General Notes:

Includes Aesthetic Objective, Operational Guidance Value, and Objective types of guidelines. The guidelines are Aesthetic Objectives unless stated otherwise in the guideline note.

3. Notes for BC Approved Water Quality Guidelines for livestock (BCAWQG L)

General Notes:

References: British Columbia Ministry of Water, Land, and Resource Stewardship. British Columbia Approved Water Quality Guidelines: Aquatic Life, Wildlife & Agriculture - Guideline Summary (May 2025). Water Quality Guideline Series, WQG-20; and B.C. Guideline Overview and Technical Reports.

Note 3.1 for pH:

Update August 2019 Summary Report.

Note 3.2 for Temperature:

The recommended guideline for temperature is + or - 1 degree Celsius change from natural ambient background.

Note 3.3 for Turbidity:

Induced turbidity should not exceed 5 NTU when background turbidity is less than or equal to 50 NTU, nor should induced turbidity be more than 10 % of background when background is greater than 50 NTU.

Note 3.4 for Aluminum (dissolved):

The guideline maximum for total aluminum is 5 mg/L. A separate guideline for dissolved aluminum is not provided.

Note 3.5 for Arsenic (dissolved):

The interim guideline for total arsenic is 25 µg/L.

Note 3.6 for Boron (dissolved):

The guideline maximum for total boron is 5 mg/L.

Note 3.7 for Copper (dissolved):

The guideline maximum for total copper is 300 µg/L.

Note 3.8 for Lead (dissolved):

The guideline maximum for total lead is 100 µg/L.

Note 3.9 for Mercury (dissolved):

The guideline maximum for total mercury is 3.0 µg/L.

Note 3.10 for Molybdenum (dissolved):

Interim guidelines for total molybdenum are based on differences in sensitivity to molybdenum exposure: 1) ruminant livestock, 0.016 mg/L; and 2) non-ruminant livestock: 0.284 mg/L. The most stringent guideline (0.016 mg/L for ruminant livestock) has been used.

Note 3.11 for Selenium (dissolved):

The guideline for total selenium is 30.0 µg/L mean. The mean concentrations in the water column are based on at least 5 weekly samples taken over a 30-day period.

Note 3.12 for Zinc (dissolved):

The guideline maximum for total zinc is 2000 µg/L.

Note 3.13 for Chloride:

The water quality guideline for chloride for livestock watering is 600 mg/L.

Note 3.14 for Fluoride:

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Water Quality Results

The total fluoride recommendation for dairy cows, breeding stock and other long-lived animals is 1.0 mg/L as a 30-day mean and 1.5 mg/L as a maximum. Total fluoride should not exceed 2.0 mg/L as a 30-day mean or 4.0 mg/L maximum in the drinking water of all other types of livestock, unless fluoride is provided in the diet by bone meal or mineral additives, in which case 1.0 mg/L as a 30-day mean and 2.0 mg/L maximum is recommended. / The most stringent guideline maximum was used in this report.

Note 3.15 for pH:

Update August 2019 Summary Report.

Note 3.16 for E. coli (counts):

The guideline for E. coli varies based on site specific factors including type of livestock, whether livestock are closely confined, and type of water treatment.

The guideline for free range animals is "none applicable".

The guideline maximum for general livestock use is 200/100 mL.

The guideline maximum for closely confined, no treatment, is 0/100 mL.

The guideline maximum for closely confined, disinfection only, is less than or equal to 10/100 mL 90th percentile.

The guideline maximum for closely confined, partial treatment, is less than or equal to 100/100 mL 90th percentile.

The guideline for closely confined, complete treatment is "none applicable". / The guideline for general livestock use was used in this report.

Note 3.17 for E. coli (MPN):

The guideline for E. coli varies based on site specific factors including type of livestock, whether livestock are closely confined, and type of water treatment.

The guideline for free range animals is "none applicable".

The guideline maximum for general livestock use is 200/100 mL.

The guideline maximum for closely confined, no treatment, is 0/100 mL.

The guideline maximum for closely confined, disinfection only, is less than or equal to 10/100 mL 90th percentile.

The guideline maximum for closely confined, partial treatment, is less than or equal to 100/100 mL 90th percentile.

The guideline for closely confined, complete treatment is "none applicable". / The guideline for general livestock use was used in this report.

Note 3.18 for Nitrate (as N):

Overview Report Update, September 2009.

Note 3.19 for Nitrate + Nitrite (as N):

The guideline maximum for nitrate as nitrogen is 100 mg/l. Where nitrate and nitrite are present, the total nitrate+nitrite nitrogen should not exceed this value. Overview Report Update, September 2009.

Note 3.20 for Nitrate + Nitrite (as N) (calculated):

The guideline maximum for nitrate as nitrogen is 100 mg/l. Where nitrate and nitrite are present, the total nitrate+nitrite nitrogen should not exceed this value. Overview Report Update, September 2009.

Note 3.21 for Nitrite (as N):

Overview Report Update, September 2009.

Note 3.22 for Aluminum (total):

The guideline maximum for total aluminum is 5 mg/L. A separate guideline for dissolved aluminum is not provided.

Note 3.23 for Arsenic (total):

The interim guideline for total arsenic is 25 µg/L.

Note 3.24 for Molybdenum (total):

Interim guidelines for total molybdenum are based on differences in sensitivity to molybdenum exposure: 1) ruminant livestock, 0.016 mg/L; and 2) non-ruminant livestock: 0.284 mg/L. The most stringent guideline (0.016 mg/L for ruminant livestock) has been used.

Note 3.25 for Selenium (total):

The guideline for total selenium is 30.0 µg/L mean. The mean concentrations in the water column are based on at least 5 weekly samples taken over a 30-day period.

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Water Quality Results

4. Notes for BC Working Water Quality Guidelines for Livestock (BCWWQG L)

General Notes:

Reference: B.C. Ministry of Water, Land and Resource Stewardship 2024. Working Water Quality Guidelines: Aquatic Life, Wildlife & Agriculture. Water Quality Guideline Series, WQG-08-01. Prov. B.C., Victoria B.C.

Working Water Quality Guideline (WWQG) values are long-term chronic concentrations unless identified as a short-term maximum in the "Notes" for a specific analyte. WWQG are given for total substance concentrations unless otherwise noted.

Note 4.1 for Total dissolved solids:

The guideline is 1,000-3,000 mg/L, and is species dependent. Maximum of 1000 mg/L is relatively low level of salinity; excellent for all classes of livestock.

TDS between 1000 and 3000 mg/L is satisfactory for all classes of livestock and poultry, but some loss in productivity should be anticipated: may cause temporary and mild diarrhoea in livestock not accustomed to them or watery droppings in poultry. / The most stringent guideline was used in this report.

Note 4.2 for Cadmium (dissolved):

This is a Short-term maximum guideline.

Note 4.3 for Chromium (dissolved):

The guideline for Cr(VI) is 50 µg/L (total). The guideline for Cr(III) is 50 µg/L (total). The guideline of 50 µg/L for Cr(VI), and for Cr(III) was used, in this report, to identify exceedances for dissolved chromium, and total chromium as a means for determining the potential for exceeding the Cr(VI) and/or Cr(III) guidelines.

Note 4.4 for Sulphate:

The guideline is for dissolved sulphate.

Note 4.5 for Cadmium (total):

This is a Short-term maximum guideline.

Note 4.6 for Chromium (total):

The guideline for Cr(VI) is 50 µg/L (total). The guideline for Cr(III) is 50 µg/L (total). The guideline of 50 µg/L for Cr(VI), and for Cr(III) was used, in this report, to identify exceedances for dissolved chromium, and total chromium as a means for determining the potential for exceeding the Cr(VI) and/or Cr(III) guidelines.

5. Notes for BC Approved Water Quality Guidelines for irrigation (BCAWQG I)

General Notes:

References: British Columbia Ministry of Water, Land, and Resource Stewardship. British Columbia Approved Water Quality Guidelines: Aquatic Life, Wildlife & Agriculture - Guideline Summary (May 2025). Water Quality Guideline Series, WQG-20; and B.C. Guideline Overview and Technical Reports.

Note 5.1 for pH:

Update August 2019 Summary Report.

Note 5.2 for Temperature:

The recommended guideline for temperature is + or - 1 degree Celsius change from natural ambient background.

Note 5.3 for Turbidity:

Induced turbidity should not exceed 10 NTU when background turbidity is less than or equal to 50 NTU, nor should induced turbidity be more than 20 % of background when background is greater than 50 NTU.

Note 5.4 for Aluminum (dissolved):

The guideline maximum for total aluminum is 5 mg/L. A separate guideline for dissolved aluminum is not provided.

Note 5.5 for Arsenic (dissolved):

The interim guideline for total arsenic is 100 µg/L.

Note 5.6 for Boron (dissolved):

The guideline for total boron depends on the crop, and varies from 0.5 mg/L to 6 mg/L. The most stringent guideline maximum of 0.5 mg/L, for very sensitive and sensitive crops, was used to identify exceedances for this report.

Note 5.7 for Copper (dissolved):

The guideline maximum for total copper is 200 µg/L.

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Water Quality Results

Note 5.8 for Lead (dissolved):

For neutral and alkaline fine-textured soils the total lead concentration in irrigation water should not exceed 400 µg/L at any time. The concentration of total lead in irrigation water for use on all other soils should not exceed 200 µg/L at any time. /

The most stringent guideline maximum was used in this report.

Note 5.9 for Mercury (dissolved):

The guideline maximum for total mercury is 2.0 µg/L.

Note 5.10 for Molybdenum (dissolved):

The long-term chronic guidelines for total molybdenum are as follows:

Forage crops-poorly drained soil: 0.01 mg/L

Forage crops-well drained soil: 0.02 mg/L

Non-forage crops: 0.028 mg/L. This guideline is intended to be protective of terrestrial plants and is not necessarily protective of livestock consuming these plants.

The most stringent guideline (0.01 mg/L for forage crops-poorly drained soil) has been used.

Note 5.11 for Selenium (dissolved):

The guideline for total selenium is 10 µg/L mean. The mean concentrations in the water column are based on at least 5 weekly samples taken over a 30-day period.

Note 5.12 for Zinc (dissolved):

The guideline maximum for total zinc for irrigation is as follows:

- Soil pH less than 6: 1000 µg/L.

- Soil pH equal to or greater than 6, and less than 7: 2000 µg/L.

- Soil pH greater than or equal to 7: 5000 µg/L. / The most stringent guideline maximum was used in this report.

Note 5.13 for Fluoride:

Total fluoride in irrigation water should not exceed 1.0 mg/L as a 30-day average or a maximum of 2.0 mg/L.

Note 5.14 for pH:

Update August 2019 Summary Report.

Note 5.15 for E. coli (counts):

The guideline for irrigation for E. coli varies as a function of crop, public access, and livestock access.

The guideline maximum for crops eaten raw is less than or equal to 77/100 mL geometric mean.

The guideline maximum for public access and livestock access is less than or equal to 385/100 mL geometric mean.

The guideline maximum for general irrigation is less than or equal to 1000/100 mL geometric mean. / The guideline for public access and livestock access was used in this report.

Note 5.16 for E. coli (MPN):

The guideline for irrigation for E. coli varies as a function of crop, public access, and livestock access.

The guideline maximum for crops eaten raw is less than or equal to 77/100 mL geometric mean.

The guideline maximum for public access and livestock access is less than or equal to 385/100 mL geometric mean.

The guideline maximum for general irrigation is less than or equal to 1000/100 mL geometric mean. / The guideline for public access and livestock access was used in this report.

Note 5.17 for Aluminum (total):

The guideline maximum for total aluminum is 5 mg/L. A separate guideline for dissolved aluminum is not provided.

Note 5.18 for Arsenic (total):

The interim guideline for total arsenic is 100 µg/L.

Note 5.19 for Boron (total):

The guideline for total boron depends on the crop, and varies from 0.5 mg/L to 6 mg/L. The most stringent guideline maximum of 0.5 mg/L, for very sensitive and sensitive crops, was used to identify exceedances for this report.

Note 5.20 for Copper (total):

The guideline maximum for total copper is 200 µg/L.

Note 5.21 for Lead (total):

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Water Quality Results

For neutral and alkaline fine-textured soils the total lead concentration in irrigation water should not exceed 400 µg/L at any time. The concentration of total lead in irrigation water for use on all other soils should not exceed 200 µg/L at any time. / The most stringent guideline maximum was used in this report.

Note 5.22 for Molybdenum (total):

The long-term chronic guidelines for total molybdenum are as follows:

Forage crops-poorly drained soil: 0.01 mg/L

Forage crops-well drained soil: 0.02 mg/L

Non-forage crops: 0.028 mg/L. This guideline is intended to be protective of terrestrial plants and is not necessarily protective of livestock consuming these plants.

The most stringent guideline (0.01 mg/L for irrigation of forage crops-poorly drained soil) has been used.

Note 5.23 for Selenium (total):

The guideline for total selenium is 10 µg/L mean. The mean concentrations in the water column are based on at least 5 weekly samples taken over a 30-day period.

Note 5.24 for Zinc (total):

The guideline maximum for total zinc for irrigation is as follows:

- Soil pH less than 6: 1000 µg/L.

- Soil pH equal to or greater than 6, and less than 7: 2000 µg/L.

- Soil pH greater than or equal to 7: 5000 µg/L. / The most stringent guideline maximum was used in this report.

6. Notes for BC Working Water Quality Guidelines for Irrigation (BCWWQG I)

General Notes:

Reference: B.C. Ministry of Water, Land and Resource Stewardship 2024. Working Water Quality Guidelines: Aquatic Life, Wildlife & Agriculture. Water Quality Guideline Series, WQG-08-01. Prov. B.C., Victoria B.C.

Working Water Quality Guideline (WWQG) values are long-term chronic concentrations unless identified as a short-term maximum in the "Notes" for a specific analyte. WWQG are given for total substance concentrations unless otherwise noted.

Note 6.1 for Conductivity:

The guideline varies from 700 to 5000 µS/cm depending on the type of crop. The most stringent guideline has been used for this report.

Note 6.2 for Total dissolved solids:

The guideline varies from 500 to 3500 mg/L depending on the type of crop. The most stringent guideline has been used for this report.

Note 6.3 for Cadmium (dissolved):

This is a Short-term maximum guideline.

Note 6.4 for Chromium (dissolved):

The guideline for Cr(VI) is 8 µg/L (total).

The guideline for Cr(III) is 4.9 µg/L (total).

The guideline of 4.9 µg/L for Cr(III) was used, in this report, to identify exceedances for dissolved chromium, and total chromium as a means for determining the potential for exceeding the Cr(VI) and/or Cr(III) guidelines.

Note 6.5 for Cobalt (dissolved):

Continuous or intermittent use on all soils.

Note 6.6 for Lithium (dissolved):

The guideline is 2.5 mg/L for non-citrus crops (May not be protective of barley and other cereal crops; 1.0 mg/L suggested for cereal crops). The guideline is 0.75 mg/L for citrus crops. / The most stringent guideline was used in this report.

Note 6.7 for Conductivity:

The guideline varies from 700 to 5000 µS/cm depending on the type of crop. The most stringent guideline has been used for this report.

Note 6.8 for Cadmium (total):



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Water Quality Results

This is a Short-term maximum guideline.

Note 6.9 for Chromium (total):

The guideline for Cr(VI) is 8 µg/L (total).

The guideline for Cr(III) is 4.9 µg/L (total).

The guideline of 4.9 µg/L for Cr(III) was used, in this report, to identify exceedances for dissolved chromium, and total chromium as a means for determining the potential for exceeding the Cr(VI) and/or Cr(III) guidelines.

Note 6.10 for Cobalt (total):

Continuous or intermittent use on all soils.

Note 6.11 for Lithium (total):

The guideline is 2.5 mg/L for non-citrus crops (May not be protective of barley and other cereal crops; 1.0 mg/L suggested for cereal crops). The guideline is 0.75 mg/L for citrus crops. / The most stringent guideline was used in this report.

7. Notes for BC Source Drinking Water Quality Guidelines - Maximum Acceptable Concentrations (BC SDWQG MAC)

General Notes:

Reference: British Columbia Ministry of Environment and Climate Change Strategy. 2020. B.C. Source Drinking Water Quality Guidelines: Guideline Summary.

The source drinking water quality guidelines apply to the ambient water before it is treated and distributed for domestic use.

The guidelines apply to drinking water sources from surface water and groundwater.

Note 7.1 for Turbidity:

For raw drinking water without treatment for particulates the guideline is: ≤ 1 NTU of turbidity.

For raw drinking water with treatment for particulates the guideline is:

Natural background turbidity is ≤ 50 NTU: Change from background should not exceed 5 NTU.

Natural background turbidity is > 50 NTU: Change from background should not exceed 10% of the background turbidity.

Note 7.2 for Copper (dissolved):

Includes short-term and long-term exposure.

Note 7.3 for E. coli (counts):

The MAC is ≤ 10 E. coli /100 mL; 90th percentile (minimum of 5 samples).

Note 7.4 for E. coli (MPN):

The MAC is ≤ 10 E. coli /100 mL; 90th percentile (minimum of 5 samples).

Note 7.5 for Copper (total):

Includes short-term and long-term exposure.

8. Notes for BC Source Drinking Water Quality Guidelines - Aesthetic Objectives (BC SDWQG AO)

General Notes:

Reference: British Columbia Ministry of Environment and Climate Change Strategy. 2020. B.C. Source Drinking Water Quality Guidelines: Guideline Summary.

The source drinking water quality guidelines apply to the ambient water before it is treated and distributed for domestic use.

The guidelines apply to drinking water sources from surface water and groundwater.

Note 8.1 for Phosphorus (dissolved, by ICPMS/ICPOES):

The AO for lakes is 0.01 mg/L. For lakes with residence time > 6 months, measure total P during spring overturn. For lakes with residence time < 6 months, measure mean epilimnetic total P during the growing season (ENV 1985).

Note 8.2 for Phosphorus (total, by ICPMS/ICPOES):

The AO for lakes is 0.01 mg/L. For lakes with residence time > 6 months, measure total P during spring overturn. For lakes with residence time < 6 months, measure mean epilimnetic total P during the growing season (ENV 1985).

9. Notes for BC CSR Generic Numerical Water Standards for Irrigation (CSR IW)

General Notes:

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Water Quality Results

BC Contaminated Sites Regulation, Generic Numerical Water Standards, Schedule 3.2; includes amendments up to B.C. Reg. 133/2022 March 1, 2023.

Standards for all organic substances are for total substance concentrations. Any water sample to be analyzed for organic substances should not be filtered.

Standards for surface water samples to be analyzed for heavy metals, metalloids and inorganic ions are total substance concentrations. In addition, it is recommended that surface water samples being analyzed for heavy metals, metalloids and inorganic ions should also be analyzed for dissolved substance concentrations.

Standards for groundwater samples for heavy metals, metalloids and inorganic ions are for dissolved substance concentrations. In addition, it is recommended that groundwater samples being analyzed for heavy metals, metalloids and inorganic ions should also be analyzed for total substance concentrations.

Standards apply to irrigation of all soil types, unless otherwise indicated. / There are several different standards for site-specific factors for some analytes. The most stringent standards were used for this criteria set.

Note 9.1 for Boron (dissolved):

Standard varies depending on crop. This standard is for blackberry crop.

Note 9.2 for Chromium (dissolved):

Analytical results for chromium (all species) in water may be used to demonstrate compliance with the standards. Where the standards cannot be met based on analytical results for chromium (all species), chromium speciation may be necessary.

Standard is 8 µg/L for chromium, hexavalent. Standard is 5 µg/L for chromium, trivalent. The standard of 5 µg/L was used to identify exceedances for dissolved chromium in order to demonstrate compliance with the standards.

Note 9.3 for Iron (dissolved):

Standard applies to a site used for an industrial or commercial purpose or activity set out in Schedule 2 as

- (a) item A6, A7, A8 or A11
- (b) item C1, C2, C3, C4 or C6,
- (c) item D2, D3, D5, or D6
- (d) item E4, or
- (e) item H14.

Standard applies to a site used for an industrial or commercial purpose or activity set out in Schedule 2 as item H11 or H20, but only if the site was used for the purpose or activity in conjunction with or as a result of the site also being used for at least one of the purposes or activities set out above.

Note 9.4 for Lithium (dissolved):

Standard to protect all types of crops.

Note 9.5 for Manganese (dissolved):

Standard applies to a site used for an industrial or commercial purpose or activity set out in Schedule 2 as

- (a) item B1
- (b) item C1, C3 or C4
- (c) item D2, D3, D5, or D6
- (d) item E4, or
- (e) item H3 or H14.

Standard applies to a site used for an industrial or commercial purpose or activity set out in Schedule 2 as item H11 or H20, but only if the site was used for the purpose or activity in conjunction with or as a result of the site also being used for at least one of the purposes or activities set out above.

Note 9.6 for Molybdenum (dissolved):

Standard varies with crop, soil drainage and Mo:Cu ratio. Standard is 10 – 30 µg/L. Consult a director for further advice.

The most stringent standard of 10 µg/L has been used.

Note 9.7 for Selenium (dissolved):

Standard varies with type of application; continuous or intermittent. This standard is for continuous applications on crops.

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Water Quality Results

Note 9.8 for Zinc (dissolved):

The standard varies (from 1000 to 5000 µg/L) with soil pH. This standard (which is the most stringent) is for soil pH less than 6.0

Note 9.9 for Chloride:

Standard to protect all types of crops.

10. Notes for BC CSR Generic Numerical Water Standards for Livestock (CSR LW)

General Notes:

BC Contaminated Sites Regulation, Generic Numerical Water Standards, Schedule 3.2; includes amendments up to B.C. Reg. 133/2022 March 1, 2023.

Standards for all organic substances are for total substance concentrations. Any water sample to be analyzed for organic substances should not be filtered.

Standards for surface water samples to be analyzed for heavy metals, metalloids and inorganic ions are total substance concentrations. In addition, it is recommended that surface water samples being analyzed for heavy metals, metalloids and inorganic ions should also be analyzed for dissolved substance concentrations.

Standards for groundwater samples for heavy metals, metalloids and inorganic ions are for dissolved substance concentrations. In addition, it is recommended that groundwater samples being analyzed for heavy metals, metalloids and inorganic ions should also be analyzed for total substance concentrations.

Note 10.1 for Chromium (dissolved):

Analytical results for chromium (all species) in water may be used to demonstrate compliance with the standards. Where the standards cannot be met based on analytical results for chromium (all species), chromium speciation may be necessary.

Standard is 50 µg/L for chromium, hexavalent. Standard is 50 µg/L for chromium, trivalent. The standard of 50 µg/L was used to identify exceedances for dissolved chromium in order to demonstrate compliance with the standards.

Note 10.2 for Fluoride:

Standard varies with type of livestock. Consult a director for further advice.

Note 10.3 for Nitrate (as N):

Where nitrate and nitrite are present, total nitrate plus nitrite-nitrogen should not exceed this value.

Note 10.4 for Nitrate + Nitrite (as N):

Where nitrate and nitrite are present, total nitrate plus nitrite-nitrogen should not exceed this value.

Note 10.5 for Nitrate + Nitrite (as N) (calculated):

Where nitrate and nitrite are present, total nitrate plus nitrite-nitrogen should not exceed this value.

11. Notes for BC CSR Generic Numerical Water Standards for Drinking Water (CSR DW)

General Notes:

BC Contaminated Sites Regulation, Generic Numerical Water Standards, Schedule 3.2; includes amendments up to B.C. Reg. 133/2022 March 1, 2023.

Drinking water standards are for unfiltered samples obtained at the point of consumption. Heavy metals, metalloids and inorganic ions are expressed as total substance concentrations unless otherwise indicated.

Note 11.1 for Aluminum (dissolved):

Standard is specific to protection of human health. Standard is derived with TRV protective of adults. Standard may not adequately protect other age groups.

Standard may not address aesthetic (organoleptic) concerns related to drinking water quality. Water treatment may be required.

Note 11.2 for Chromium (dissolved):

Analytical results for chromium (all species) in water may be used to demonstrate compliance with the standards. Where the standards cannot be met based on analytical results for chromium (all species), chromium speciation may be necessary.

Standard is 50 µg/L for chromium, hexavalent. Standard is 6000 µg/L for chromium, trivalent. The standard of 50 µg/L was used to identify exceedances for dissolved chromium in order to demonstrate compliance with the standards.

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Water Quality Results

Note 11.3 for Cobalt (dissolved):

The standard in Schedule 3.2 is 1 µg/L. However, BC CSR Protocol 9 has background concentrations in groundwater for cobalt in ug/L for regions of BC as follows.

“Lower Mainland Sub-Region 1: 62

Lower Mainland Sub-Region 2: 18

Thompson Okanagan Region: 16

Southern Vancouver Island Region: 14

The interim cobalt value of 20 ug/L for the remaining regions of the province remains in effect.”

Reference: BC CSR Protocol 9 for Contaminated Sites, Establishing Local Background Concentrations in Groundwater, BC Ministry of Environment and Climate Change Strategy, February 1, 2023.

Note 11.4 for Copper (dissolved):

Standard is specific to protection of human health. Standard is derived with TRV protective of adults. Standard may not adequately protect other age groups.

Standard may not address aesthetic (organoleptic) concerns related to drinking water quality. Water treatment may be required.

Note 11.5 for Iron (dissolved):

Standard applies to a site used for an industrial or commercial purpose or activity set out in Schedule 2 as

(a) item A6, A7, A8 or A11

(b) item C1, C2, C3, C4 or C6,

(c) item D2, D3, D5, or D6

(d) item E4, or

(e) item H14.

Standard applies to a site used for an industrial or commercial purpose or activity set out in Schedule 2 as item H11 or H20, but only if the site was used for the purpose or activity in conjunction with or as a result of the site also being used for at least one of the purposes or activities set out above.

Standard is specific to protection of human health. Standard is derived with TRV protective of adults. Standard may not adequately protect other age groups. Standard may not address aesthetic (organoleptic) concerns related to drinking water quality. Water treatment may be required.

Note 11.6 for Manganese (dissolved):

Standard applies to a site used for an industrial or commercial purpose or activity set out in Schedule 2 as

(a) item B1

(b) item C1, C3 or C4

(c) item D2, D3, D5, or D6

(d) item E4, or

(e) item H3 or H14.

Standard applies to a site used for an industrial or commercial purpose or activity set out in Schedule 2 as item H11 or H20, but only if the site was used for the purpose or activity in conjunction with or as a result of the site also being used for at least one of the purposes or activities set out above.

Standard is specific to protection of human health. Standard is derived with TRV protective of adults. Standard may not adequately protect other age groups.

Standard may not address aesthetic (organoleptic) concerns related to drinking water quality. Water treatment may be required.

Note 11.7 for Sodium (dissolved):

Standard is specific to protection of human health. Standard is derived with TRV protective of adults. Standard may not adequately protect other age groups.

Note 11.8 for Zinc (dissolved):

Standard is specific to protection of human health. Standard is derived with TRV protective of adults. Standard may not adequately protect other age groups.

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Water Quality Results

Note 11.9 for Chloride:

Standard to protect against taste and odour concerns.

Note 11.10 for Sulphate:

Standard to protect against taste and odour concerns.

Note 11.11 for Nitrate (as N):

Where nitrate and nitrite are present, total nitrate plus nitrite-nitrogen should not exceed this value.

Note 11.12 for Nitrate + Nitrite (as N):

Where nitrate and nitrite are present, total nitrate plus nitrite-nitrogen should not exceed this value.

Note 11.13 for Nitrate + Nitrite (as N) (calculated):

Where nitrate and nitrite are present, total nitrate plus nitrite-nitrogen should not exceed this value.

Note 11.14 for Aluminum (total):

Standard is specific to protection of human health. Standard is derived with TRV protective of adults. Standard may not adequately protect other age groups.

Standard may not address aesthetic (organoleptic) concerns related to drinking water quality. Water treatment may be required.

Note 11.15 for Chromium (total):

Analytical results for chromium (all species) in water may be used to demonstrate compliance with the standards. Where the standards cannot be met based on analytical results for chromium (all species), chromium speciation may be necessary.

Standard is 50 µg/L for chromium, hexavalent. Standard is 6000 µg/L for chromium, trivalent. The standard of 50 µg/L was used to identify exceedances for total chromium in order to demonstrate compliance with the standards.

Note 11.16 for Cobalt (total):

The standard in Schedule 3.2 is 1 µg/L. However, BC CSR Protocol 9 has background concentrations in groundwater for cobalt in ug/L for regions of BC as follows.

"Lower Mainland Sub-Region 1: 62

Lower Mainland Sub-Region 2: 18

Thompson Okanagan Region: 16

Southern Vancouver Island Region: 14

The interim cobalt value of 20 ug/L for the remaining regions of the province remains in effect."

Reference: BC CSR Protocol 9 for Contaminated Sites, Establishing Local Background Concentrations in Groundwater, BC Ministry of Environment and Climate Change Strategy, February 1, 2023.

Note 11.17 for Copper (total):

Standard is specific to protection of human health. Standard is derived with TRV protective of adults. Standard may not adequately protect other age groups.

Standard may not address aesthetic (organoleptic) concerns related to drinking water quality. Water treatment may be required.

Note 11.18 for Iron (total):

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Water Quality Results

Standard applies to a site used for an industrial or commercial purpose or activity set out in Schedule 2 as

- (a) item A6, A7, A8 or A11
- (b) item C1, C2, C3, C4 or C6,
- (c) item D2, D3, D5, or D6
- (d) item E4, or
- (e) item H14.

Standard applies to a site used for an industrial or commercial purpose or activity set out in Schedule 2 as item H11 or H20, but only if the site was used for the purpose or activity in conjunction with or as a result of the site also being used for at least one of the purposes or activities set out above.

Standard is specific to protection of human health. Standard is derived with TRV protective of adults. Standard may not adequately protect other age groups.

Standard may not address aesthetic (organoleptic) concerns related to drinking water quality. Water treatment may be required.

Note 11.19 for Manganese (total):

Standard applies to a site used for an industrial or commercial purpose or activity set out in Schedule 2 as

- (a) item B1
- (b) item C1, C3 or C4
- (c) item D2, D3, D5, or D6
- (d) item E4, or
- (e) item H3 or H14.

Standard applies to a site used for an industrial or commercial purpose or activity set out in Schedule 2 as item H11 or H20, but only if the site was used for the purpose or activity in conjunction with or as a result of the site also being used for at least one of the purposes or activities set out above.

Standard is specific to protection of human health. Standard is derived with TRV protective of adults. Standard may not adequately protect other age groups.

Standard may not address aesthetic (organoleptic) concerns related to drinking water quality. Water treatment may be required.

Note 11.20 for Sodium (total):

Standard is specific to protection of human health. Standard is derived with TRV protective of adults. Standard may not adequately protect other age groups.

Note 11.21 for Zinc (total):

Standard is specific to protection of human health. Standard is derived with TRV protective of adults. Standard may not adequately protect other age groups.

Campbell Mountain Landfill
Duplicate Water Samples Report

Sampling Location		BH-04-4	BH-04-4	BH-04-4		HW#13	HW#13	HW#13		Leachate Pond Manhole	Leachate Pond Manhole	Leachate Pond Manhole	
Date Sampled		17-Apr-25	17-Apr-25	17-Apr-25		15-Apr-25	15-Apr-25	15-Apr-25		31-Jul-25	31-Jul-25	31-Jul-25	
Lab Sample ID		25D2528-01	25D2528-02	25D2528-03		25D2411-01	25D2411-02	25D2411-03		25H0101-01	25H0101-02	25H0101-03	
Sample Type		Normal	Duplicate	Duplicate		Normal	Duplicate	Duplicate		Normal	Duplicate	Duplicate	
Analyte	Unit				RSD				RPD/RSD				RSD
Field Results													
Conductivity	µS/cm	2827				1690				2209			
Depth to Water (below top of casing)	m	18.935											
Oxidation reduction potential	mV	-83.2				191.1				-169.0			
Dissolved oxygen	mg/L	1.91				10.14				6.25			
pH		6.74				8.67				8.69			
Total dissolved solids	mg/L	1839.5				1098.5				1436			
Temperature	°C	15.4				7.3				21.0			
Turbidity	NTU	16.6				2.77				19.3			
Volume Purged	L	16.5											
Lab Results													
Anions and Cations in meq/L unit													
Aluminum (meq/L) (calculated)	meq/L	<0.00111	<0.00111	<0.00111		<0.00056	0.00058	<0.00056					
Barium (meq/L) (calculated)	meq/L	0.0102	0.0104	0.0103	1.0%	0.00242	0.00246	0.00243	0.9%				
Bicarbonate (HCO3) (meq/L) (calculated)	meq/L	17.87	17.87	17.87	0.0%	7.26	7.26	7.2	0.5%	7.56	7.33	7.54	1.7%
Bicarbonate (HCO3) (meq/L) (calculated from CaCO3)	meq/L	17.8	17.9	17.8	0.3%	7.26	7.26	7.2	0.5%	7.54	7.34	7.54	1.5%
Boron (meq/L) (calculated)	meq/L	0.294	0.302	0.294	1.6%	<0.0139	<0.0139	<0.0139					
Bromide (meq/L) (calculated)	meq/L	0.0259	0.0258	0.0259	0.2%	<0.0013	<0.0013	<0.0013		0.0139	0.0139	0.0139	0.0%
Calcium (meq/L) (calculated)	meq/L	12.5	12.6	12.6	0.5%	7.09	8.18	7.19	8.0%				
Calcium (total, meq/L) (calculated)	meq/L					7.34	7.48	7.19	2.0%	1.12	1.14	1.18	2.7%
Carbonate (CO3) (meq/L) (calculated)	meq/L	<0.0200	<0.0200	<0.0200		0.337	0.343	0.373	5.5%	0.820	1.07	0.860	14.6%
Carbonate (CO3) (meq/L) (calculated from CaCO3)	meq/L	<0.020	<0.020	<0.020		0.336	0.344	0.372	5.4%	0.820	1.07	0.860	14.6%
Chloride (meq/L) (calculated)	meq/L	9.65	8.43	9.11	6.7%	7.39	7.17	7.45	2.0%	11.1	11.2	10.5	3.5%
Chromium (meq/L) (calculated)	meq/L	0.0000773	0.0000739	0.0000756	2.2%	<0.000029	<0.000029	<0.000029					
Copper (meq/L) (calculated)	meq/L	<0.000025	<0.000025	<0.000025		0.000143	0.000131	0.000140	4.5%				
Fluoride (meq/L) (calculated)	meq/L	0.042	0.044	0.041	3.6%	0.043	0.046	0.045	3.4%	0.041	0.039	0.039	2.9%
Hydroxide (OH) (meq/L) (calculated)	meq/L	<0.0200	<0.0200	<0.0200		<0.0200	<0.0200	<0.0200		<0.0200	<0.0200	<0.0200	
Lead (meq/L) (calculated)	meq/L	<0.0000039	<0.0000039	<0.0000039		<0.0000019	<0.0000019	<0.0000019					
Lithium (meq/L) (calculated)	meq/L	0.00882	0.00911	0.00891	1.7%	0.00405	0.00635	0.00432	25.6%				
Magnesium (meq/L) (calculated)	meq/L	10.9	11.4	11.1	2.3%	4.53	6.1	4.61	17.4%				
Magnesium (total, meq/L) (calculated)	meq/L					4.59	4.72	4.7	1.5%	11.6	11.9	12.0	1.8%
Potassium (meq/L) (calculated)	meq/L	0.670	0.688	0.680	1.3%	0.345	0.443	0.348	14.7%				
Potassium (total, meq/L) (calculated)	meq/L					0.361	0.366	0.363	0.7%	1.08	1.10	1.15	3.2%
Sodium (meq/L) (calculated)	meq/L	7.83	8.18	7.87	2.4%	5.18	6.52	5.13	14.1%				
Sodium (total, meq/L) (calculated)	meq/L					5.22	5.31	5.31	1.0%	9.44	9.48	9.83	2.2%
Strontium (meq/L) (calculated)	meq/L	0.154	0.155	0.155	0.4%	0.0667	0.0651	0.0669	1.5%				
Sulfate (meq/L) (calculated)	meq/L	0.741	0.733	0.735	0.6%	1.06	1.05	1.05	0.5%	1.68	1.7	1.62	2.5%
Zinc (meq/L) (calculated)	meq/L	<0.00024	<0.00024	<0.00024		<0.00012	<0.00012	<0.00012					
Chlorinated Hydrocarbons													
1,2-Dichlorobenzene	mg/L	<0.0005								<0.0005			
1,3-Dichlorobenzene	mg/L	<0.0010								<0.0010			
1,4-Dichlorobenzene	mg/L	<0.0010								<0.0010			
1,1-Dichloroethane	mg/L	<0.0010								<0.0010			
1,2-Dichloroethane	mg/L	<0.0010								<0.0010			
1,1-Dichloroethylene	mg/L	<0.0010								<0.0010			
cis-1,2-Dichloroethylene	mg/L	<0.0010								<0.0010			
trans-1,2-Dichloroethylene	mg/L	<0.0010								<0.0010			
Monochlorobenzene	mg/L	<0.0010								<0.0010			
1,1,2,2-Tetrachloroethane	mg/L	<0.0005								<0.0005			
Tetrachloroethylene	mg/L	<0.0010								<0.0010			
1,1,1-Trichloroethane	mg/L	<0.0010								<0.0010			
1,1,2-Trichloroethane	mg/L	<0.0010								<0.0010			
Trichloroethylene	mg/L	<0.0010								<0.0010			
Dissolved Metals													
Aluminum (dissolved)	mg/L	<0.0100	<0.0100	<0.0100		<0.0050	0.0052	<0.0050					
Antimony (dissolved)	mg/L	<0.00040	<0.00040	<0.00040		0.00029	0.00028	0.00029	2.0%				
Arsenic (dissolved)	mg/L	0.0148	0.0151	0.0145	2.0%	0.00204	0.00209	0.00202	1.8%				
Barium (dissolved)	mg/L	0.699	0.713	0.710	1.0%	0.166	0.169	0.167	0.9%				
Beryllium (dissolved)	mg/L	<0.00020	<0.00020	<0.00020		<0.00010	<0.00010	<0.00010					
Bismuth (dissolved)	mg/L	<0.00020	<0.00020	<0.00020		<0.00010	<0.00010	<0.00010					
Boron (dissolved)	mg/L	1.06	1.09	1.06	1.6%	<0.0500	<0.0500	<0.0500					
Cadmium (dissolved)	mg/L	<0.000020	<0.000020	<0.000020		0.000010	<0.000010	0.000012	18.2%				
Calcium (dissolved)	mg/L	251	253	253	0.5%	142	164	144	8.1%				
Chromium (dissolved)	mg/L	0.00134	0.00128	0.00131	2.3%	<0.00050	<0.00050	<0.00050					



Campbell Mountain Landfill
Duplicate Water Samples Report

Sampling Location		BH-04-4	BH-04-4	BH-04-4		HW#13	HW#13	HW#13		Leachate Pond Manhole	Leachate Pond Manhole	Leachate Pond Manhole	
Date Sampled		17-Apr-25	17-Apr-25	17-Apr-25		15-Apr-25	15-Apr-25	15-Apr-25		31-Jul-25	31-Jul-25	31-Jul-25	
Lab Sample ID		25D2528-01	25D2528-02	25D2528-03		25D2411-01	25D2411-02	25D2411-03		25H0101-01	25H0101-02	25H0101-03	
Sample Type		Normal	Duplicate	Duplicate		Normal	Duplicate	Duplicate		Normal	Duplicate	Duplicate	
Analyte	Unit				RSD				RPD/RSD				RSD
Cobalt (dissolved)	mg/L	0.00850	0.00869	0.00859	1.1%	0.00016	0.00015	0.00016	3.7%				
Copper (dissolved)	mg/L	<0.00080	<0.00080	<0.00080		0.00455	0.00415	0.00446	4.8%				
Iron (dissolved)	mg/L	26.0	26.6	26.3	1.1%	0.012	0.013	0.012	4.7%				
Lead (dissolved)	mg/L	<0.00040	<0.00040	<0.00040		<0.00020	<0.00020	<0.00020					
Lithium (dissolved)	mg/L	0.0612	0.0632	0.0618	1.7%	0.0281	0.0441	0.0300	25.7%				
Magnesium (dissolved)	mg/L	132	139	135	2.6%	55.1	74.1	56.0	17.4%				
Manganese (dissolved)	mg/L	4.61	4.73	4.68	1.3%	0.00548	0.00591	0.00551	4.3%				
Mercury (dissolved)	mg/L	<0.000010	<0.000010	<0.000010		<0.000010	<0.000010	<0.000010					
Molybdenum (dissolved)	mg/L	0.00940	0.00945	0.00952	0.6%	0.00620	0.00562	0.00621	5.6%				
Nickel (dissolved)	mg/L	0.0235	0.0242	0.0239	1.5%	0.00098	0.00100	0.00101	1.5%				
Selenium (dissolved)	mg/L	<0.00100	<0.00100	<0.00100		0.00056	<0.00050	0.00056	0.0%				
Silicon (dissolved, as Si)	mg/L	33.1	33.9	33.8	1.3%	8.4	10.1	8.9	9.6%				
Silver (dissolved)	mg/L	<0.000100	<0.000100	<0.000100		<0.000050	<0.000050	<0.000050					
Sodium (dissolved)	mg/L	180	188	181	2.4%	119	150	118	14.1%				
Strontium (dissolved)	mg/L	6.74	6.79	6.81	0.5%	2.92	2.85	2.93	1.5%				
Sulphur (dissolved)	mg/L	14.4	15.2	14.8	2.7%	17.2	20.7	17.9	10.0%				
Tellurium (dissolved)	mg/L	<0.00100	<0.00100	<0.00100		<0.00050	<0.00050	<0.00050					
Thallium (dissolved)	mg/L	<0.000040	<0.000040	<0.000040		<0.000020	<0.000020	<0.000020					
Thorium (dissolved)	mg/L	<0.00020	<0.00020	<0.00020		<0.00010	<0.00010	<0.00010					
Tin (dissolved)	mg/L	<0.00040	<0.00040	<0.00040		<0.00020	<0.00020	<0.00020					
Titanium (dissolved)	mg/L	<0.0100	<0.0100	<0.0100		<0.0050	<0.0050	<0.0050					
Tungsten (dissolved)	mg/L	<0.0020	<0.0020	<0.0020		<0.0010	<0.0010	<0.0010					
Uranium (dissolved)	mg/L	0.00830	0.00843	0.00829	0.9%	0.0730	0.0729	0.0722	0.6%				
Vanadium (dissolved)	mg/L	<0.0100	<0.0100	<0.0100		<0.0050	<0.0050	<0.0050					
Zinc (dissolved)	mg/L	<0.0080	<0.0080	<0.0080		<0.0040	<0.0040	<0.0040					
Zirconium (dissolved)	mg/L	0.00090	0.00096	0.00096	3.7%	0.00030	0.00031	0.00033	4.9%				
General													
Bicarbonate alkalinity (as HCO3)	mg/L	1090	1090	1090	0.0%	443	443	439	0.5%	461	447	460	1.7%
Carbonate alkalinity (as CO3)	mg/L	<0.600	<0.600	<0.600		10.1	10.3	11.2	5.6%	24.6	32.2	25.8	14.8%
Hydroxide alkalinity (as OH)	mg/L	<0.340	<0.340	<0.340		<0.340	<0.340	<0.340		<0.340	<0.340	<0.340	
Alkalinity (bicarbonate, as CaCO3)	mg/L	891	897	891	0.4%	363	363	360	0.5%	377	367	377	1.5%
Alkalinity (carbonate, as CaCO3)	mg/L	<1.0	<1.0	<1.0		16.8	17.2	18.6	5.4%	41.0	53.7	43.0	14.9%
Alkalinity (hydroxide, as CaCO3)	mg/L	<1.0	<1.0	<1.0		<1.0	<1.0	<1.0		<1.0	<1.0	<1.0	
Alkalinity (phenolphthalein, as CaCO3)	mg/L	<1.0	<1.0	<1.0		8.4	8.6	9.3	5.4%	20.5	26.9	21.5	15.0%
Alkalinity (total, as CaCO3)	mg/L	891	897	891	0.4%	380	381	379	0.3%	419	420	420	0.1%
Biochemical oxygen demand	mg/L					<8.0	<8.0	<8.0		<2.0	<2.0	<2.0	
Bromide	mg/L	2.07	2.06	2.07	0.3%	<0.10	<0.10	<0.10		1.11	1.11	1.11	0.0%
Chemical oxygen demand	mg/L	177	169	172	2.3%	40	43	46	7.0%	128	124	105	10.3%
Chloride	mg/L	342	299	323	6.7%	262	254	264	2.0%	394	398	373	3.5%
Conductivity	µS/cm	2730	2730	2730	0.0%	1690	1680	1680	0.3%	2200	2200	2190	0.3%
Fluoride	mg/L	0.80	0.84	0.78	3.8%	0.82	0.88	0.85	3.5%	0.77	0.74	0.74	2.3%
Hardness (as CaCO3), dissolved	mg/L	1170	1210	1190	1.7%	582	716	590	11.9%				
Hardness (as CaCO3), from total Ca/Mg	mg/L					598	610	594	1.4%	638	652	663	1.9%
pH		7.26	7.26	7.25	0.1%	8.37	8.38	8.38	0.1%	8.52	8.53	8.50	0.2%
Sulphate	mg/L	35.6	35.2	35.3	0.6%	50.8	50.4	50.2	0.6%	80.9	81.6	77.8	2.5%
Sulphide (total, as S)	mg/L									0.265	0.272	0.296	5.9%
Halogenated Methanes													
Bromodichloromethane	mg/L	<0.0010								<0.0010			
Bromoform	mg/L	<0.0010								<0.0010			
Carbon tetrachloride	mg/L	<0.0005								<0.0005			
Chloroform	mg/L	<0.0010								<0.0010			
Dibromochloromethane	mg/L	<0.0010								<0.0010			
Dibromomethane	mg/L	<0.0010								<0.0010			
Dichloromethane	mg/L	<0.0030								<0.0030			
Total Trihalomethanes (calculated)	mg/L	<0.0020								<0.0020			
Trichlorofluoromethane	mg/L	<0.0010								<0.0010			
Miscellaneous Organic Substances													
Chloroethane	mg/L	<0.0020								<0.0020			
1,2-Dibromoethane	mg/L	<0.0003								<0.0003			
1,2-Dichloropropane	mg/L	<0.0010								<0.0010			
1,3-Dichloropropene (cis + trans)	mg/L	<0.0010								<0.0010			
Methyl tert-butyl ether (MTBE)	mg/L	<0.0010								<0.0010			
Vinyl chloride	mg/L	0.0020								<0.0010			



Campbell Mountain Landfill
Duplicate Water Samples Report

Sampling Location		BH-04-4	BH-04-4	BH-04-4		HW#13	HW#13	HW#13		Leachate Pond Manhole	Leachate Pond Manhole	Leachate Pond Manhole	
Date Sampled		17-Apr-25	17-Apr-25	17-Apr-25		15-Apr-25	15-Apr-25	15-Apr-25		31-Jul-25	31-Jul-25	31-Jul-25	
Lab Sample ID		25D2528-01	25D2528-02	25D2528-03		25D2411-01	25D2411-02	25D2411-03		25H0101-01	25H0101-02	25H0101-03	
Sample Type		Normal	Duplicate	Duplicate		Normal	Duplicate	Duplicate		Normal	Duplicate	Duplicate	
Analyte	Unit				RSD				RPD/RSD				RSD
Monocyclic Aromatic Hydrocarbons (MAHs)													
Benzene	mg/L	0.0005								<0.0005			
Ethylbenzene	mg/L	<0.0010								<0.0010			
Styrene	mg/L	<0.0010								<0.0010			
Toluene	mg/L	0.0098								<0.0010			
Xylenes	mg/L	<0.0020								<0.0020			
Nutrients													
Ammonia (total, as N)	mg/L	5.10	5.07	5.05	0.5%	0.061	0.066	0.072	8.3%	0.310	0.310	0.314	0.7%
Nitrate (as N)	mg/L	<0.100	<0.100	<0.100		12.1	11.7	12.1	1.9%	<0.010	<0.010	<0.010	
Nitrate + Nitrite (as N)	mg/L	<0.100	<0.100	<0.100		12.1	11.7	12.1	1.9%	<0.0100	<0.0100	<0.0100	
Nitrate + Nitrite (as N) (calculated)	mg/L	<0.10	<0.10	<0.10		12.1	11.7	12.1	1.9%	<0.010	<0.010	<0.010	
Nitrite (as N)	mg/L	<0.010	<0.010	<0.010		<0.010	<0.010	<0.010		<0.010	<0.010	<0.010	
Total nitrogen	mg/L					13.5	13.1	13.5	1.7%	3.67	3.53	3.41	3.7%
Total kjeldahl nitrogen	mg/L					1.44	1.43	1.44	0.4%	3.67	3.53	3.41	3.7%
Phosphorus (dissolved, by ICPMS/ICPOES)	mg/L	0.448	0.460	0.395	8.0%	0.284	0.352	0.298	11.5%				
Phosphorus (total, by ICPMS/ICPOES)	mg/L					0.311	0.303	0.311	1.5%	0.081	0.081	0.089	5.5%
Potassium (dissolved)	mg/L	26.2	26.9	26.6	1.3%	13.5	17.3	13.6	14.6%				
Potassium (total)	mg/L					14.1	14.3	14.2	0.7%	42.3	43.0	44.9	3.1%
Total Metals													
Aluminum (total)	mg/L					0.0726	0.0788	0.0804	5.3%	<0.0050	<0.0050	0.0114	
Antimony (total)	mg/L					0.00029	0.00026	0.00030	7.3%	<0.00020	<0.00020	<0.00020	
Arsenic (total)	mg/L					0.00201	0.00204	0.00205	1.0%	0.00261	0.00261	0.00275	3.0%
Barium (total)	mg/L					0.172	0.175	0.170	1.5%	0.0280	0.0282	0.0302	4.2%
Beryllium (total)	mg/L					<0.00010	<0.00010	<0.00010		<0.00010	<0.00010	<0.00010	
Bismuth (total)	mg/L					<0.00010	<0.00010	<0.00010		<0.00010	<0.00010	<0.00010	
Boron (total)	mg/L					<0.0500	<0.0500	<0.0500		0.761	0.813	0.865	6.4%
Cadmium (total)	mg/L					0.000013	0.000011	0.000013	9.4%	<0.000010	<0.000010	<0.000010	
Calcium (total)	mg/L					147	150	144	2.0%	22.5	22.8	23.7	2.7%
Chromium (total)	mg/L					<0.00050	<0.00050	<0.00050		<0.00050	<0.00050	<0.00050	
Cobalt (total)	mg/L					0.00019	0.00020	0.00020	2.9%	0.00108	0.00108	0.00114	3.1%
Copper (total)	mg/L					0.00494	0.00505	0.00501	1.1%	0.00177	0.00182	0.00218	11.6%
Iron (total)	mg/L					0.076	0.083	0.082	4.7%	0.028	0.028	0.030	4.0%
Lead (total)	mg/L					<0.00020	<0.00020	<0.00020		<0.00020	<0.00020	<0.00020	
Lithium (total)	mg/L					0.0356	0.0345	0.0350	1.6%	0.0715	0.0780	0.0834	7.7%
Magnesium (total)	mg/L					55.8	57.4	57.1	1.5%	141	145	146	1.8%
Manganese (total)	mg/L					0.00791	0.00821	0.00805	1.9%	0.391	0.395	0.406	2.0%
Mercury (total)	mg/L					<0.000010	<0.000010	<0.000010		<0.000010	<0.000010	<0.000010	
Molybdenum (total)	mg/L					0.00649	0.00654	0.00641	1.0%	0.00566	0.00576	0.00597	2.7%
Nickel (total)	mg/L					0.00108	0.00102	0.00111	4.3%	0.0134	0.0135	0.0145	4.4%
Selenium (total)	mg/L					0.00050	<0.00050	<0.00050		<0.00050	<0.00050	<0.00050	
Silicon (total, as Si)	mg/L					9.5	9.4	9.1	2.2%	14.7	15.1	15.7	3.3%
Silver (total)	mg/L					<0.000050	<0.000050	<0.000050		<0.000050	<0.000050	<0.000050	
Sodium (total)	mg/L					120	122	122	1.0%	217	218	226	2.2%
Strontium (total)	mg/L					2.95	3.01	3.00	1.1%	0.378	0.382	0.428	7.0%
Sulphur (total)	mg/L					18.3	18.5	17.8	2.0%	33.1	34.2	34.0	1.7%
Tellurium (total)	mg/L					<0.00050	<0.00050	<0.00050		<0.00050	<0.00050	<0.00050	
Thallium (total)	mg/L					<0.000020	<0.000020	<0.000020		<0.000020	<0.000020	<0.000020	
Thorium (total)	mg/L					<0.00010	<0.00010	<0.00010		<0.00010	<0.00010	<0.00010	
Tin (total)	mg/L					<0.00020	<0.00020	<0.00020		<0.00020	<0.00020	<0.00020	
Titanium (total)	mg/L					<0.0050	<0.0050	<0.0050		<0.0050	<0.0050	<0.0050	
Tungsten (total)	mg/L					<0.0010	<0.0010	<0.0010		<0.0010	<0.0010	<0.0010	
Uranium (total)	mg/L					0.0742	0.0756	0.0749	0.9%	0.0264	0.0270	0.0259	2.1%
Vanadium (total)	mg/L					<0.0050	<0.0050	<0.0050		<0.0050	<0.0050	<0.0050	
Zinc (total)	mg/L					0.0042	0.0042	0.0047	6.6%	<0.0040	<0.0040	<0.0040	
Zirconium (total)	mg/L					0.00033	0.00033	0.00034	1.7%	<0.00010	<0.00010	<0.00010	



Field Blank Data

Keremeos Transfer Station - Blanks
Water Quality Results

Sampling Location			Field Blank	Field Blank	Field Blank	Field Blank	Field Blank	Field Blank	Field Blank	Field Blank	Field Blank	Field Blank	Field Blank
Date Sampled			29-Aug-07	25-Sep-08	22-Sep-09	06-Oct-10	26-Sep-12	21-Mar-13	29-Sep-16	05-Nov-20	16-Nov-22	08-Nov-23	28-Oct-25
Lab Sample ID			2430978	L83611	Q90673	K0J0251-01	2091470-02	3031070-02	6092240-01	20K0794-02	22K2135-01	23K1346-05	25J4041-04
Sample Type			Field Blank	Field Blank	Field Blank	Field Blank	Field Blank	Field Blank	Field Blank	Field Blank	Field Blank	Field Blank	Field Blank
Analyte	Unit	Guideline No Guideline											
Field Results													
Conductivity	µS/cm	NG		0.002	1	2	2	3	1.2	1.3	1.9	2.3	2.7
Oxidation reduction potential	mV	NG		94.8	90.2	199.6	45.7	80.0	156.7	47.0	44.1	40.8	229.8
Dissolved oxygen	mg/L	NG		9.63	7.71	11.03	7.47	8.91	6.87	7.71	10.27	7.74	10.42
pH		NG		7.91	7.4	9.64	7.36	7.86	6.97	7.96	8.32	7.87	7.69
Total dissolved solids	mg/L	NG		1	1	1	1	2	0.7	0.7	1.3	1.3	2.0
Temperature	°C	NG		10.63	16.54	18.17	21.03	14.98	21.5	16.3	5.2		11.6
Turbidity	NTU	NG		0.2	0.57	0.3	0.48	0.25	0.16	0.21			0.10
Lab Results													
Anions and Cations in meq/L unit													
Aluminum (meq/L) (calculated)	meq/L	NG	<0.0006	0.0003	<0.0003	<0.0006	<0.0006	<0.0006	<0.0006	<0.00056	<0.00056	<0.00056	<0.00056
Barium (meq/L) (calculated)	meq/L	NG	<0.00001	<0.00001	<0.00001	<0.000007	<0.00007	<0.00007	<0.00007	<0.000073	<0.000073	<0.000073	<0.000073
Bicarbonate (HCO3) (meq/L) (calculated)	meq/L	NG							<0.03	<0.0200	<0.0200	0.0280	<0.0200
Bicarbonate (HCO3) (meq/L) (calculated from CaCO3)	meq/L	NG				<0.020	0.04	<0.02	<0.04	<0.020	<0.020	0.028	<0.020
Boron (meq/L) (calculated)	meq/L	NG	<0.0006	<0.014	<0.014	<0.001	<0.001	<0.001	<0.001	<0.0139	<0.0139	<0.0139	<0.0139
Bromide (meq/L) (calculated)	meq/L	NG					<0.001		<0.0013	<0.0013	<0.0013	<0.0013	<0.0013
Calcium (meq/L) (calculated)	meq/L	NG	<0.01	0.003	0.0065	<0.00499	<0.01	<0.01	<0.01	<0.010	<0.010	<0.010	<0.010
Calcium (total, meq/L) (calculated)	meq/L	NG		0.004									
Carbonate (CO3) (meq/L) (calculated)	meq/L	NG							<0.03	<0.0200	<0.0200	<0.0200	<0.0200
Carbonate (CO3) (meq/L) (calculated from CaCO3)	meq/L	NG				<0.020	<0.02	<0.02	<0.04	<0.020	<0.020	<0.020	<0.020
Chloride (meq/L) (calculated)	meq/L	NG	0.008	0.02	<0.01	<0.0028	<0.0028	<0.0028	<0.0028	<0.0028	<0.0028	<0.0028	<0.0028
Chromium (meq/L) (calculated)	meq/L	NG	<0.00003	<0.00006	<0.00006	<0.00003	<0.00003	<0.00003	<0.00003	<0.000029	<0.000029	<0.000029	<0.000029
Copper (meq/L) (calculated)	meq/L	NG	<0.00003	<0.000006	<0.000006	<0.000003	<0.000006	0.00003	<0.000006	<0.000013	<0.000013	<0.000013	<0.000013
Fluoride (meq/L) (calculated)	meq/L	NG	<0.001	<0.0005	<0.0005	<0.0003	<0.0003	<0.0003	<0.0003	<0.00053	<0.00053	<0.00053	<0.00053
Hydroxide (OH) (meq/L) (calculated)	meq/L	NG							<0.04	<0.0200	<0.0200	<0.0200	<0.0200
Lead (meq/L) (calculated)	meq/L	NG	0.000007	<0.000002	<0.000002	<0.000001	<0.000001	<0.000001	<0.000001	<0.000019	<0.000019	<0.000019	<0.000019
Lithium (meq/L) (calculated)	meq/L	NG	<0.0001		<0.0007	<0.00001	<0.00001	<0.00001	<0.00001	<0.000014	<0.000014	<0.000014	<0.000014
Magnesium (meq/L) (calculated)	meq/L	NG	<0.008	<0.004	<0.004	<0.00082	0.002	<0.0008	<0.0008	<0.00082	<0.00082	<0.00082	0.00099
Magnesium (total, meq/L) (calculated)	meq/L	NG		<0.004									
Potassium (meq/L) (calculated)	meq/L	NG	<0.01	<0.001	<0.001	<0.00026	<0.0005	0.0008	<0.0005	<0.0026	<0.0026	<0.0026	<0.0026
Potassium (total, meq/L) (calculated)	meq/L	NG		<0.001									
Sodium (meq/L) (calculated)	meq/L	NG	<0.02	<0.002	<0.002	<0.00044	0.003	0.001	<0.0009	<0.0044	<0.0044	<0.0044	<0.0044
Sodium (total, meq/L) (calculated)	meq/L	NG		<0.002									
Strontium (meq/L) (calculated)	meq/L	NG	<0.00002	<0.000002	<0.00002	<0.00001	0.00002	<0.00002	<0.00002	<0.000023	<0.000023	<0.000023	<0.000023
Sulfate (meq/L) (calculated)	meq/L	NG	<0.002	0.02	<0.001	<0.021	<0.021	<0.021	<0.021	<0.021	<0.021	<0.021	<0.021
Zinc (meq/L) (calculated)	meq/L	NG	<0.00003	<0.0002	<0.0002	<0.000031	<0.0001	0.0003	<0.0001	<0.00012	<0.00012	<0.00012	<0.00012
Dissolved Metals													
Aluminum (dissolved)	mg/L	NG	<0.005	0.003	<0.003	<0.005	<0.005	<0.005	<0.005	<0.0050	<0.0050	<0.0050	<0.0050
Antimony (dissolved)	mg/L	NG	<0.0002	<0.0005	<0.0005	<0.0001	0.0004	0.0002	<0.0001	<0.00020	<0.00020	<0.00020	<0.00020
Arsenic (dissolved)	mg/L	NG	<0.0002	<0.0001	<0.0001	<0.0005	<0.0005	<0.0005	<0.0005	<0.00050	<0.00050	<0.00050	<0.00050
Barium (dissolved)	mg/L	NG	<0.001	<0.001	<0.001	<0.0005	<0.0005	<0.0005	<0.0005	<0.00050	<0.00050	<0.00050	<0.00050
Beryllium (dissolved)	mg/L	NG	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.00010	<0.00010	<0.00010	<0.00010
Bismuth (dissolved)	mg/L	NG	<0.0005	<0.001	<0.001	<0.0001	<0.0001	<0.0001	<0.0001	<0.00010	<0.00010	<0.00010	<0.00010
Boron (dissolved)	mg/L	NG	<0.002	<0.050	<0.050	<0.004	<0.004	<0.004	<0.004	<0.0500	<0.0500	<0.0500	<0.0500
Cadmium (dissolved)	mg/L	NG	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	0.00001	<0.00001	<0.000010	<0.000010	<0.000010	<0.000010
Calcium (dissolved)	mg/L	NG	<0.2	0.06	0.13	<0.100	<0.2	<0.2	<0.2	<0.20	<0.20	<0.20	<0.20
Chromium (dissolved)	mg/L	NG	<0.0005	<0.001	<0.001	<0.0005	<0.0005	<0.0005	<0.0005	<0.00050	<0.00050	<0.00050	<0.00050
Cobalt (dissolved)	mg/L	NG	<0.0001	<0.0005	<0.0005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00010	<0.00010	<0.00010	<0.00010
Copper (dissolved)	mg/L	NG	<0.001	<0.0002	<0.0002	<0.0001	<0.0002	0.0008	<0.0002	<0.00040	<0.00040	<0.00040	<0.00040
Iron (dissolved)	mg/L	NG	<0.01	<0.005	<0.005	<0.010	0.06	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Lead (dissolved)	mg/L	NG	0.0007	<0.0002	<0.0002	<0.0001	<0.0001	<0.0001	<0.0001	<0.00020	<0.00020	<0.00020	<0.00020
Lithium (dissolved)	mg/L	NG	<0.001		<0.005	<0.0001	<0.0001	<0.0001	<0.0001	<0.00010	<0.00010	<0.00010	<0.00010
Magnesium (dissolved)	mg/L	NG	<0.1	<0.05	<0.05	<0.010	0.03	<0.01	<0.01	<0.010	<0.010	<0.010	0.012
Manganese (dissolved)	mg/L	NG	<0.005	<0.001	<0.001	<0.0002	0.0003	<0.0002	<0.0002	<0.00020	<0.00020	<0.00020	0.00125
Mercury (dissolved)	mg/L	NG	<0.00002	<0.00002	<0.00002	<0.00005	0.00003	<0.00002	<0.00002	<0.000010	<0.000010	<0.000010	<0.000010
Molybdenum (dissolved)	mg/L	NG	<0.001	<0.001	<0.001	<0.0001	0.0001	<0.0001	<0.0001	<0.00010	<0.00010	<0.00010	<0.00010
Nickel (dissolved)	mg/L	NG	<0.0005	<0.0001	<0.0001	<0.0002	<0.0002	<0.0002	<0.0002	<0.00040	<0.00040	<0.00040	<0.00040
Selenium (dissolved)	mg/L	NG	<0.0002	<0.0001	<0.0001	<0.0003	<0.0005	<0.0005	<0.0005	<0.00050	<0.00050	<0.00050	<0.00050
Silicon (dissolved, as Si)	mg/L	NG	<0.05	<0.100	<0.100	2.26	<0.5	<0.5	<0.5	<1.0	<1.0	<1.0	<1.0
Silver (dissolved)	mg/L	NG	<0.0001	<0.00002	<0.00002	<0.00005	<0.00005	<0.00005	<0.00005	<0.000050	<0.000050	<0.000050	<0.000050
Sodium (dissolved)	mg/L	NG	<0.4	<0.05	<0.05	<0.010	0.06	0.03	<0.02	<0.10	<0.10	<0.10	<0.10
Strontium (dissolved)	mg/L	NG	<0.001	<0.001	<0.001	<0.0005	0.001	<0.001	<0.001	<0.0010	<0.0010	<0.0010	<0.0010
Sulphur (dissolved)	mg/L	NG	<0.3	<3	<3	<0.50	2	<1	<1	<3.0	<3.0	<3.0	<3.0
Tellurium (dissolved)	mg/L	NG				<0.0002	<0.0002	<0.0002	<0.0002	<0.00050	<0.00050	<0.00050	<0.00050
Thallium (dissolved)	mg/L	NG	<0.00005	<0.00005	<0.00005	<0.00002	<0.00002	<0.00002	<0.00002	<0.000020	<0.000020	<0.000020	<0.000020
Thorium (dissolved)	mg/L	NG				<0.0001	<0.0001	<0.0001	<0.0001	<0.00010	<0.00010	<0.00010	<0.00010
Tin (dissolved)	mg/L	NG	<0.001	<0.005	<0.005	<0.0002	0.0008	<0.0002	<0.0002	<0.00020	<0.00020	<0.00020	<0.00020
Titanium (dissolved)	mg/L	NG	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0050	<0.0050	<0.0050	<0.0050
Tungsten (dissolved)	mg/L	NG							<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Uranium (dissolved)	mg/L	NG	<0.0005	<0.0001	<0.0001	<0.00002	0.00003	<0.00002	<0.00002	<0.000020	<0.000020	<0.000020	<0.000020
Vanadium (dissolved)	mg/L	NG	<0.0001	<0.005	<0.005	<0.0010	<0.001	<0.001	<0.001	<0.0010	<0.0010	<0.0010	<0.0010
Zinc (dissolved)	mg/L	NG	<0.001	<0.005	<0.005	<0.0010	<0.004	0.009	<0.004	<0.0040	<0.0040	<0.0040	<0.0040
Zirconium (dissolved)	mg/L	NG		<0.0005	<0.0005	<0.0001	<0.0001	<0.0001	<0.0001	<0.00010	<0.00010	<0.00010	<0.00010
General													
Bicarbonate alkalinity (as HCO3)	mg/L	NG							<2	<1.22	<1.22	1.71	<1.22
Carbonate alkalinity (as CO3)	mg/L	NG							<1	<0.600	<0.600	<0.600	<0.600
Hydroxide alkalinity (as OH)	mg/L	NG							<0.7	<0.340	<0.340	<0.340	<0.340

Keremeos Transfer Station - Blanks
Water Quality Results

Sampling Location			Field Blank	Field Blank	Field Blank	Field Blank	Field Blank	Field Blank	Field Blank	Field Blank	Field Blank	Field Blank	Field Blank
Date Sampled			29-Aug-07	25-Sep-08	22-Sep-09	06-Oct-10	26-Sep-12	21-Mar-13	29-Sep-16	05-Nov-20	16-Nov-22	08-Nov-23	28-Oct-25
Lab Sample ID			2430978	L83611	Q90673	K0J0251-01	2091470-02	3031070-02	6092240-01	20K0794-02	22K2135-01	23K1346-05	25J4041-04
Sample Type			Field Blank	Field Blank	Field Blank	Field Blank	Field Blank	Field Blank	Field Blank	Field Blank	Field Blank	Field Blank	Field Blank
Analyte	Unit	Guideline No Guideline											
Nitrite (as N)	mg/L	NG	<0.05	<0.005	<0.005	<0.01	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Total nitrogen	mg/L	NG		<0.02	0.02	0.14	0.078	0.110					
Total kjeldahl nitrogen	mg/L	NG	0.08	<0.02	0.02	0.14	0.08	0.11					
Phosphorus (dissolved, by ICPMS/ICPOES)	mg/L	NG	<0.02	<0.010		<0.020	<0.02	<0.02	<0.02	<0.050	<0.050	<0.050	<0.050
Phosphorus (total, by ICPMS/ICPOES)	mg/L	NG		<0.010									
Potassium (dissolved)	mg/L	NG	<0.4	<0.05	<0.05	<0.010	<0.02	0.03	<0.02	<0.10	<0.10	<0.10	<0.10
Potassium (total)	mg/L	NG		<0.05									
Total Metals													
Aluminum (total)	mg/L	NG		0.008									
Antimony (total)	mg/L	NG		<0.0005									
Arsenic (total)	mg/L	NG		<0.0001									
Barium (total)	mg/L	NG		<0.001									
Beryllium (total)	mg/L	NG		<0.0001									
Bismuth (total)	mg/L	NG		<0.001									
Boron (total)	mg/L	NG		<0.050									
Cadmium (total)	mg/L	NG		<0.00001									
Calcium (total)	mg/L	NG		0.08									
Chromium (total)	mg/L	NG		<0.001									
Cobalt (total)	mg/L	NG		<0.0005									
Copper (total)	mg/L	NG		<0.0002									
Iron (total)	mg/L	NG		0.005									
Lead (total)	mg/L	NG		<0.0002									
Magnesium (total)	mg/L	NG		<0.05									
Manganese (total)	mg/L	NG		<0.001									
Mercury (total)	mg/L	NG		<0.00002									
Molybdenum (total)	mg/L	NG		<0.001									
Nickel (total)	mg/L	NG		<0.001									
Selenium (total)	mg/L	NG		<0.0001									
Silicon (total, as Si)	mg/L	NG		<0.100									
Silver (total)	mg/L	NG		<0.00002									
Sodium (total)	mg/L	NG		<0.05									
Strontium (total)	mg/L	NG		<0.001									
Sulphur (total)	mg/L	NG		<3									
Thallium (total)	mg/L	NG		<0.00005									
Tin (total)	mg/L	NG		<0.005									
Titanium (total)	mg/L	NG		<0.005									
Uranium (total)	mg/L	NG		<0.0001									
Vanadium (total)	mg/L	NG		<0.005									
Zinc (total)	mg/L	NG		<0.005									
Zirconium (total)	mg/L	NG		<0.0005									



Summary Statistics

Keremeos Transfer Station
Water Quality Results

Analyte	Sampling Location	Unit	Average	Median	Minimum	Maximum	95% Percentile	Standard Deviation	Number of Results	Number of Numerical Results	Number of Results with Exceedances
Calcium (dissolved)	1001 Highway 3A	mg/L	98.4	95.8	89.8	124	115.0	10.8	8	8	0
	848 El Rancho Rd.	mg/L	105.0	104.0	76.4	176	127.0	16.4	61	61	0
	900 Keremeos Bypass Rd.	mg/L	85.1	84.7	70.4	99.0	93.1	6.6	22	22	0
	960 Keremeos Bypass Rd.	mg/L	74.1	73.9	58.6	112	79.4	7.2	59	59	0
	BH-99	mg/L	99.1	100.0	74	125	113.3	9.5	76	76	0
	MW20-01	mg/L	112.7	112.0	79.1	137	136.2	16.9	17	17	0
	MW20-02	mg/L	116.4	114.0	85.8	155	148.6	19.7	17	17	0
	MW24-03	mg/L	131	136	114	138	138	9	10	10	0
Sodium (dissolved)	1001 Highway 3A	mg/L	24.2	23.5	21.9	29.3	28.5	2.6	8	8	0
	848 El Rancho Rd.	mg/L	37.7	37.3	30.9	44.3	43.8	3.7	44	44	0
	900 Keremeos Bypass Rd.	mg/L	16.3	16.3	14.6	19.1	18.6	1.2	16	16	0
	960 Keremeos Bypass Rd.	mg/L	13.0	12.6	11.4	23.8	14.9	1.9	39	39	0
	BH-99	mg/L	20.8	20.6	11.5	26.4	24.4	2.3	75	75	0
	MW20-01	mg/L	22.5	22.4	12.4	27.1	26.3	3.3	17	17	0
	MW20-02	mg/L	22.3	22.0	19.9	25.3	25.1	1.8	17	17	0
	MW24-03	mg/L	36.6	36.8	33.3	38.5	38.4	1.9	10	10	0
Sodium (total)	1001 Highway 3A	mg/L	24.2	24.2	23.5	25.0	25.0	0.8	4	4	0
	848 El Rancho Rd.	mg/L	40.3	40.1	19.8	49.5	47.7	5.2	41	41	0
	900 Keremeos Bypass Rd.	mg/L	15.9	15.3	14	22.1	18.0	1.8	23	23	0
	960 Keremeos Bypass Rd.	mg/L	12.6	12.3	10.6	18.8	14.4	1.4	44	44	0
	BH-99	mg/L	21.6	21.6	21.6	21.6	21.6		1	1	0
	MW20-01	mg/L	22.3	22.7	20.7	22.9	22.9	0.9	6	6	0
	MW20-02	mg/L	22.5	21.8	20.7	26.2	25.4	2.0	6	6	0
	MW24-03	mg/L	35.7	36.1	33.4	37.7	37.5	2.2	3	3	0
Alkalinity (total, as CaCO3)	1001 Highway 3A	mg/L	184	185	176	195	193	7	8	8	0
	848 El Rancho Rd.	mg/L	378	380	315	504	428	34	51	51	0
	900 Keremeos Bypass Rd.	mg/L	223	222	196	262	244	15	17	17	0
	960 Keremeos Bypass Rd.	mg/L	196	194	177	276	213	15	49	49	0
	BH-99	mg/L	270	272	232	302	295	17	58	58	0
	MW20-01	mg/L	294	288	200	345	340	34	17	17	0
	MW20-02	mg/L	295	295	269	313	313	13	17	17	0
	MW24-03	mg/L	378	373	355	404	404	19	10	10	0
Chloride	1001 Highway 3A	mg/L	26.6	26.8	22.8	31.6	30.9	3.5	8	8	0
	848 El Rancho Rd.	mg/L	12.94	11.90	7.2	33.1	21.11	4.81	67	67	0
	900 Keremeos Bypass Rd.	mg/L	10.12	9.56	5.2	14.1	14.03	2.46	26	26	0
	960 Keremeos Bypass Rd.	mg/L	10.74	10.25	7.8	15.3	14.48	2.25	66	66	0
	BH-99	mg/L	11.41	11.20	0.06	17.7	16.13	3.09	76	76	0
	MW20-01	mg/L	13.5	13.3	10.4	17.7	15.9	1.7	17	17	0
	MW20-02	mg/L	15.3	15.4	10.0	23.7	20.9	3.7	17	17	0
	MW24-03	mg/L	26.4	26.9	22.8	28.7	28.6	2.2	10	10	0
Conductivity	1001 Highway 3A	µS/cm	842	853	745	907	902	51	8	8	8
	848 El Rancho Rd.	µS/cm	1094.1	1090.0	37.6	1690	1260.0	182.1	67	67	66
	900 Keremeos Bypass Rd.	µS/cm	592	590	537	620	613	17	26	26	0
	960 Keremeos Bypass Rd.	µS/cm	528	521	487	716	555	36	66	66	2
	BH-99	µS/cm	712	715	530	791	779	43	76	76	49
	MW20-01	µS/cm	793	800	529	953	929	97	17	17	15
	MW20-02	µS/cm	819	794	667	1030	996	114	17	17	14
	MW24-03	µS/cm	1294	1300	1180	1350	1350	60	10	10	10
Sulphate	1001 Highway 3A	mg/L	251	253	213	296	284	24	8	8	0
	848 El Rancho Rd.	mg/L	232	218	160	469	323	58	67	67	0
	900 Keremeos Bypass Rd.	mg/L	79.8	80.9	8.6	96	93.8	15.6	26	26	0
	960 Keremeos Bypass Rd.	mg/L	70.7	70.2	7	134	77.1	12.1	66	66	0
	BH-99	mg/L	95.4	95.7	10.1	136	119.3	17.2	76	76	0
	MW20-01	mg/L	125.5	123.0	76.3	180	168.0	26.5	17	17	0
	MW20-02	mg/L	134.7	119.0	88.1	206	187.6	34.7	17	17	0
	MW24-03	mg/L	297	300	235	332	328	28	10	10	0
Nitrate (as N)	1001 Highway 3A	mg/L	0.208	0.005	<0.010	1.53	1.032	0.535	8	2	0
	848 El Rancho Rd.	mg/L	3.261	3.580	0.596	5.92	5.495	1.448	67	67	0
	900 Keremeos Bypass Rd.	mg/L	0.990	1.020	<0.010	2.13	1.228	0.348	26	25	0
	960 Keremeos Bypass Rd.	mg/L	0.812	0.760	0.49	2.21	1.010	0.244	66	66	0
	BH-99	mg/L	2.163	2.100	0.77	3.78	3.225	0.595	76	76	0
	MW20-01	mg/L	2.523	2.310	0.885	6.74	3.844	1.183	17	17	0
	MW20-02	mg/L	2.244	2.240	0.668	3.46	3.100	0.666	17	17	0
	MW24-03	mg/L	4.84	4.99	3.48	7.32	6.64	1.23	10	10	0

APPENDIX E: Laboratory Certificates of Analysis

CERTIFICATE OF ANALYSIS

REPORTED TO	Regional District of Okanagan Similkameen 101 Martin Street Penticton, BC V2A 5J9	WORK ORDER	25D1647
ATTENTION	Rob Palmer	RECEIVED / TEMP	2025-04-11 11:20 / 5°C
PO NUMBER	TLDW	REPORTED	2025-04-16 11:48
PROJECT	Keremeos - TLDW	COC NUMBER	eCOC#00022406
PROJECT INFO			

Introduction:

CARO Analytical Services is a testing laboratory full of smart, engaged scientists driven to make the world a safer and healthier place. Through our clients' projects we become an essential element for a better world. We employ methods conducted in accordance with recognized professional standards using accepted testing methodologies and quality control efforts. CARO is accredited by the Canadian Association for Laboratories Accreditation (CALA) to ISO/IEC 17025:2017 for specific tests listed in the scope of accreditation approved by CALA.

Big Picture Sidekicks



You know that the sample you collected after snowshoeing to site, digging 5 meters, and racing to get it on a plane so you can submit it to the lab for time sensitive results needed to make important and expensive decisions (whew) is VERY important. We know that too.

We've Got Chemistry



It's simple. We figure the more you enjoy working with our fun and engaged team members; the more likely you are to give us continued opportunities to support you.

Ahead of the Curve



Through research, regulation knowledge, and instrumentation, we are your analytical centre for the technical knowledge you need, BEFORE you need it, so you can stay up to date and in the know.

Work Order Comments:

Custody Seals Intact: N/A

By engaging our services, you are agreeing to CARO Analytical Service's Standard Terms and Conditions outlined here:
<https://www.caro.ca/terms-conditions>

If you have any questions or concerns, please contact me at hhannaoui@caro.ca

Authorized By:

Hanane El Hannaoui
Junior Account Manager



1-888-311-8846 | www.caro.ca

#110 4011 Viking Way Richmond, BC V6V 2K9 | #102 3677 Highway 97N Kelowna, BC V1X 5C3 | 17225 109 Avenue Edmonton, AB T5S 1H7 |
#108 4475 Wayburne Drive Burnaby, BC V5G 4X4

TEST RESULTS

REPORTED TO PROJECT Regional District of Okanagan Similkameen
Keremeos - TLDW

CARO WO# REPORTED 25D1647
2025-04-16 11:48

Analyte	Result	Guideline	RL Units	Analyzed	Qualifier
DW-960 (960 Keremeos Bypass Rd. Residential Well) (25D1647-01) Matrix: Drinking Water Sampled: 2025-04-10 10:15					
Anions					
Bromide	< 0.10	N/A	0.10 mg/L	2025-04-12	
Chloride	14.0	AO ≤ 250	0.10 mg/L	2025-04-12	
Fluoride	< 0.10	MAC = 1.5	0.10 mg/L	2025-04-12	
Nitrate (as N)	0.751	MAC = 10	0.010 mg/L	2025-04-12	
Nitrite (as N)	< 0.010	MAC = 1	0.010 mg/L	2025-04-12	
Sulfate	69.3	AO ≤ 500	1.0 mg/L	2025-04-12	
Calculated Parameters					
Bicarbonate (HCO ₃)	222	N/A	1.22 mg/L	N/A	
Carbonate (CO ₃)	< 0.600	N/A	0.600 mg/L	N/A	
Hydroxide (OH)	< 0.340	N/A	0.340 mg/L	N/A	
Hardness, Dissolved (as CaCO ₃)	255	N/A	0.500 mg/L	N/A	
Nitrate+Nitrite (as N)	0.751	N/A	0.0100 mg/L	N/A	
Dissolved Metals					
Aluminum, dissolved	< 0.0050	N/A	0.0050 mg/L	2025-04-15	
Antimony, dissolved	< 0.00020	N/A	0.00020 mg/L	2025-04-15	
Arsenic, dissolved	0.00118	N/A	0.00050 mg/L	2025-04-15	
Barium, dissolved	0.0314	N/A	0.0050 mg/L	2025-04-15	
Beryllium, dissolved	< 0.00010	N/A	0.00010 mg/L	2025-04-15	
Bismuth, dissolved	< 0.00010	N/A	0.00010 mg/L	2025-04-15	
Boron, dissolved	< 0.0500	N/A	0.0500 mg/L	2025-04-15	
Cadmium, dissolved	0.000011	N/A	0.000010 mg/L	2025-04-15	
Calcium, dissolved	75.5	N/A	0.20 mg/L	2025-04-15	
Chromium, dissolved	0.00118	N/A	0.00050 mg/L	2025-04-15	
Cobalt, dissolved	< 0.00010	N/A	0.00010 mg/L	2025-04-15	
Copper, dissolved	0.00402	N/A	0.00040 mg/L	2025-04-15	
Iron, dissolved	< 0.010	N/A	0.010 mg/L	2025-04-15	
Lead, dissolved	< 0.00020	N/A	0.00020 mg/L	2025-04-15	
Lithium, dissolved	0.00336	N/A	0.00010 mg/L	2025-04-15	
Magnesium, dissolved	16.0	N/A	0.010 mg/L	2025-04-15	
Manganese, dissolved	< 0.00020	N/A	0.00020 mg/L	2025-04-15	
Mercury, dissolved	< 0.000010	N/A	0.000010 mg/L	2025-04-13	
Molybdenum, dissolved	0.00244	N/A	0.00010 mg/L	2025-04-15	
Nickel, dissolved	0.00091	N/A	0.00040 mg/L	2025-04-15	
Phosphorus, dissolved	< 0.050	N/A	0.050 mg/L	2025-04-15	
Potassium, dissolved	2.86	N/A	0.10 mg/L	2025-04-15	
Selenium, dissolved	0.00184	N/A	0.00050 mg/L	2025-04-15	
Silicon, dissolved	9.9	N/A	1.0 mg/L	2025-04-15	
Silver, dissolved	< 0.000050	N/A	0.000050 mg/L	2025-04-15	
Sodium, dissolved	13.3	N/A	0.10 mg/L	2025-04-15	
Strontium, dissolved	0.535	N/A	0.0010 mg/L	2025-04-15	
Sulfur, dissolved	23.5	N/A	3.0 mg/L	2025-04-15	
Tellurium, dissolved	< 0.00050	N/A	0.00050 mg/L	2025-04-15	

TEST RESULTS

REPORTED TO PROJECT Regional District of Okanagan Similkameen
Keremeos - TLDW

CARO WO# REPORTED 25D1647
2025-04-16 11:48

Analyte	Result	Guideline	RL Units	Analyzed	Qualifier
DW-960 (960 Keremeos Bypass Rd. Residential Well) (25D1647-01) Matrix: Drinking Water Sampled: 2025-04-10 10:15, Continued					
<i>Dissolved Metals, Continued</i>					
Thallium, dissolved	< 0.000020	N/A	0.000020 mg/L	2025-04-15	
Thorium, dissolved	< 0.00010	N/A	0.00010 mg/L	2025-04-15	
Tin, dissolved	< 0.00020	N/A	0.00020 mg/L	2025-04-15	
Titanium, dissolved	< 0.0050	N/A	0.0050 mg/L	2025-04-15	
Tungsten, dissolved	< 0.0010	N/A	0.0010 mg/L	2025-04-15	
Uranium, dissolved	0.00167	N/A	0.000020 mg/L	2025-04-15	
Vanadium, dissolved	< 0.0050	N/A	0.0050 mg/L	2025-04-15	
Zinc, dissolved	< 0.0040	N/A	0.0040 mg/L	2025-04-15	
Zirconium, dissolved	< 0.00010	N/A	0.00010 mg/L	2025-04-15	
<i>General Parameters</i>					
Alkalinity, Total (as CaCO ₃)	182	N/A	1.0 mg/L	2025-04-15	
Alkalinity, Phenolphthalein (as CaCO ₃)	< 1.0	N/A	1.0 mg/L	2025-04-15	
Alkalinity, Bicarbonate (as CaCO ₃)	182	N/A	1.0 mg/L	2025-04-15	
Alkalinity, Carbonate (as CaCO ₃)	< 1.0	N/A	1.0 mg/L	2025-04-15	
Alkalinity, Hydroxide (as CaCO ₃)	< 1.0	N/A	1.0 mg/L	2025-04-15	
Ammonia, Total (as N)	< 0.050	None Required	0.050 mg/L	2025-04-15	
Chemical Oxygen Demand	< 20	N/A	20 mg/L	2025-04-16	
Conductivity (EC)	549	N/A	2.0 µS/cm	2025-04-15	
pH	7.95	7.0-10.5	0.10 pH units	2025-04-15	HT2
<i>Microbiological Parameters</i>					
Coliforms, Total	< 1	MAC = 0	1 CFU/100 mL	2025-04-11	
E. coli	< 1	MAC = 0	1 CFU/100 mL	2025-04-11	
<i>Total Metals</i>					
Aluminum, total	< 0.0050	OG < 0.1	0.0050 mg/L	2025-04-14	
Antimony, total	< 0.00020	MAC = 0.006	0.00020 mg/L	2025-04-14	
Arsenic, total	0.00115	MAC = 0.01	0.00050 mg/L	2025-04-14	
Barium, total	0.0286	MAC = 2	0.0050 mg/L	2025-04-14	
Beryllium, total	< 0.00010	N/A	0.00010 mg/L	2025-04-14	
Bismuth, total	< 0.00010	N/A	0.00010 mg/L	2025-04-14	
Boron, total	< 0.0500	MAC = 5	0.0500 mg/L	2025-04-14	
Cadmium, total	0.000013	MAC = 0.007	0.000010 mg/L	2025-04-14	
Calcium, total	75.9	None Required	0.20 mg/L	2025-04-14	
Chromium, total	0.00113	MAC = 0.05	0.00050 mg/L	2025-04-14	
Cobalt, total	< 0.00010	N/A	0.00010 mg/L	2025-04-14	
Copper, total	0.00388	MAC = 2	0.00040 mg/L	2025-04-14	
Iron, total	< 0.010	AO ≤ 0.1	0.010 mg/L	2025-04-14	
Lead, total	< 0.00020	MAC = 0.005	0.00020 mg/L	2025-04-14	
Lithium, total	0.00269	N/A	0.00010 mg/L	2025-04-14	
Magnesium, total	14.1	None Required	0.010 mg/L	2025-04-14	
Manganese, total	< 0.00020	MAC = 0.12	0.00020 mg/L	2025-04-14	
Mercury, total	< 0.000010	MAC = 0.001	0.000010 mg/L	2025-04-13	

TEST RESULTS

REPORTED TO PROJECT Regional District of Okanagan Similkameen
Keremeos - TLDW

CARO WO# REPORTED 25D1647
2025-04-16 11:48

Analyte	Result	Guideline	RL Units	Analyzed	Qualifier
DW-960 (960 Keremeos Bypass Rd. Residential Well) (25D1647-01) Matrix: Drinking Water Sampled: 2025-04-10 10:15, Continued					
<i>Total Metals, Continued</i>					
Molybdenum, total	0.00243	N/A	0.00010 mg/L	2025-04-14	
Nickel, total	0.00082	N/A	0.00040 mg/L	2025-04-14	
Phosphorus, total	< 0.050	N/A	0.050 mg/L	2025-04-14	
Potassium, total	2.67	N/A	0.10 mg/L	2025-04-14	
Selenium, total	0.00186	MAC = 0.05	0.00050 mg/L	2025-04-14	
Silicon, total	9.6	N/A	1.0 mg/L	2025-04-14	
Silver, total	< 0.000050	None Required	0.000050 mg/L	2025-04-14	
Sodium, total	12.5	AO ≤ 200	0.10 mg/L	2025-04-14	
Strontium, total	0.535	MAC = 7	0.0010 mg/L	2025-04-14	
Sulfur, total	22.5	N/A	3.0 mg/L	2025-04-14	
Tellurium, total	< 0.00050	N/A	0.00050 mg/L	2025-04-14	
Thallium, total	< 0.000020	N/A	0.000020 mg/L	2025-04-14	
Thorium, total	< 0.00010	N/A	0.00010 mg/L	2025-04-14	
Tin, total	< 0.00020	N/A	0.00020 mg/L	2025-04-14	
Titanium, total	< 0.0050	N/A	0.0050 mg/L	2025-04-14	
Tungsten, total	< 0.0010	N/A	0.0010 mg/L	2025-04-14	
Uranium, total	0.00162	MAC = 0.02	0.000020 mg/L	2025-04-14	
Vanadium, total	< 0.0050	N/A	0.0050 mg/L	2025-04-14	
Zinc, total	< 0.0040	AO ≤ 5	0.0040 mg/L	2025-04-14	
Zirconium, total	< 0.00010	N/A	0.00010 mg/L	2025-04-14	

Sample Qualifiers:

HT2 The 15 minute recommended holding time (from sampling to analysis) has been exceeded - field analysis is recommended.

APPENDIX 1: SUPPORTING INFORMATION

REPORTED TO PROJECT Regional District of Okanagan Similkameen
Keremeos - TLDW

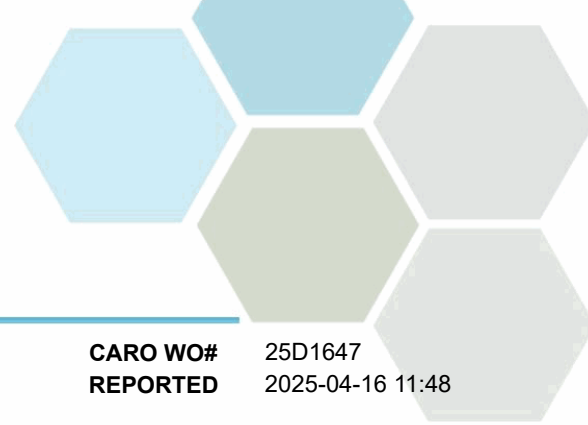
CARO WO# REPORTED 25D1647
2025-04-16 11:48

Analysis Description	Method Ref.	Technique	Accredited	Location
Alkalinity in Water	SM 2320 B* (2021)	Titration with H ₂ SO ₄	✓	Kelowna
Ammonia, Total in Water	SM 4500-NH ₃ G* (2021)	Automated Colorimetry (Phenate)	✓	Kelowna
Anions in Water	SM 4110 B (2020)	Ion Chromatography	✓	Kelowna
Chemical Oxygen Demand in Water	SM 5220 D* (2022)	Closed Reflux, Colorimetry	✓	Kelowna
Coliforms, Total in Water	SM 9222* (2015)	Membrane Filtration / Chromocult Agar	✓	Kelowna
Conductivity in Water	SM 2510 B (2021)	Conductivity Meter	✓	Kelowna
Dissolved Metals in Water	EPA 200.8 / EPA 6020B	0.45 µm Filtration / Inductively Coupled Plasma-Mass Spectrometry (ICP-MS)	✓	Richmond
E. coli in Water	SM 9222* (2015)	Membrane Filtration / Chromocult Agar	✓	Kelowna
Hardness in Water	SM 2340 B (2021)	Calculation: 2.497 [diss Ca] + 4.118 [diss Mg]	✓	N/A
Mercury, dissolved in Water	EPA 245.7*	BrCl ₂ Oxidation / Cold Vapor Atomic Fluorescence Spectrometry (CVAFS)	✓	Richmond
Mercury, total in Water	EPA 245.7*	BrCl ₂ Oxidation / Cold Vapor Atomic Fluorescence Spectrometry (CVAFS)	✓	Richmond
pH in Water	SM 4500-H+ B (2021)	Electrometry	✓	Kelowna
Total Metals in Water	EPA 200.2 / EPA 6020B	HNO ₃ +HCl Hot Block Digestion / Inductively Coupled Plasma-Mass Spectrometry (ICP-MS)	✓	Richmond

Note: An asterisk in the Method Reference indicates that the CARO method has been modified from the reference method

Glossary of Terms:

RL	Reporting Limit (default)
<	Less than the specified Reporting Limit (RL) - the actual RL may be higher than the default RL due to various factors
AO	Aesthetic Objective
CFU/100 mL	Colony Forming Units per 100 millilitres
MAC	Maximum Acceptable Concentration (health based)
mg/L	Milligrams per litre
OG	Operational Guideline (treated water)
pH units	pH < 7 = acidic, pH > 7 = basic
µS/cm	Microsiemens per centimetre
EPA	United States Environmental Protection Agency Test Methods
SM	Standard Methods for the Examination of Water and Wastewater, American Public Health Association



APPENDIX 1: SUPPORTING INFORMATION

REPORTED TO PROJECT Regional District of Okanagan Similkameen
Keremeos - TLDW

CARO WO# 25D1647
REPORTED 2025-04-16 11:48

General Comments:

The results in this report apply to the received samples analyzed in accordance with the Chain of Custody document. This analytical report must be reproduced in its entirety. CARO is not responsible for any loss or damage resulting directly or indirectly from error or omission in the conduct of testing. Liability is limited to the cost of analysis. Samples will be disposed of 30 days after the test report has been issued or once samples expire, whichever comes first. Longer hold is possible if agreed to in writing.

Results in **Bold** indicate values that are above CARO's method reporting limits. Any results that are above regulatory limits are highlighted **red**. Please note that results will only be highlighted red if the regulatory limits are included on the CARO report. Any Bold and/or highlighted results do not take into account method uncertainty. If you would like method uncertainty or regulatory limits to be included on your report, please contact your Account Manager: [{@Email}](#)

Please note any regulatory guidelines applied to this report are added as a convenience to the client, at their request, to help provide some initial context to analytical results obtained. Although CARO makes every effort to ensure accuracy of the associated regulatory guideline(s) applied, the guidelines applied cannot be assumed to be correct due to a variety of factors and as such CARO Analytical Services assumes no liability or responsibility for the use of those guidelines to make any decisions. The original source of the regulation should be verified and a review of the guideline(s) should be validated as correct in order to make any decisions arising from the comparison of the analytical data obtained to the relevant regulatory guideline for one's particular circumstances. Further, CARO Analytical Services assumes no liability

APPENDIX 2: QUALITY CONTROL RESULTS

REPORTED TO PROJECT Regional District of Okanagan Similkameen
Keremeos - TLDW

CARO WO# 25D1647
REPORTED 2025-04-16 11:48

The following section displays the quality control (QC) data that is associated with your sample data. Groups of samples are prepared in "batches" and analyzed in conjunction with QC samples that ensure your data is of the highest quality. Common QC types include:

- **Method Blank (BLK):** A blank sample that undergoes sample processing identical to that carried out for the test samples. Method blank results are used to assess contamination from the laboratory environment and reagents.
- **Duplicate (Dup):** An additional or second portion of a randomly selected sample in the analytical run carried through the entire analytical process. Duplicates provide a measure of the analytical method's precision (reproducibility).
- **Blank Spike (BS):** A sample of known concentration which undergoes processing identical to that carried out for test samples, also referred to as a laboratory control sample (LCS). Blank spikes provide a measure of the analytical method's accuracy.
- **Matrix Spike (MS):** A second aliquot of sample is fortified with a known concentration of target analytes and carried through the entire analytical process. Matrix spikes evaluate potential matrix effects that may affect the analyte recovery.
- **Reference Material (SRM):** A homogenous material of similar matrix to the samples, certified for the parameter(s) listed. Reference Materials ensure that the analytical process is adequate to achieve acceptable recoveries of the parameter(s) tested.

Each QC type is analyzed at a 5-10% frequency, i.e. one blank/duplicate/spike for every 10-20 samples. For all types of QC, the specified recovery (% Rec) and relative percent difference (RPD) limits are derived from long-term method performance averages and/or prescribed by the reference method.

Analyte	Result	MRL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Notes
Anions, Batch B5D2793									
Blank (B5D2793-BLK1)			Prepared: 2025-04-12, Analyzed: 2025-04-12						
Bromide	< 0.10	0.10 mg/L							
Chloride	< 0.10	0.10 mg/L							
Fluoride	< 0.10	0.10 mg/L							
Nitrate (as N)	< 0.010	0.010 mg/L							
Nitrite (as N)	< 0.010	0.010 mg/L							
Sulfate	< 1.0	1.0 mg/L							
Blank (B5D2793-BLK2)			Prepared: 2025-04-12, Analyzed: 2025-04-12						
Bromide	< 0.10	0.10 mg/L							
Chloride	< 0.10	0.10 mg/L							
Fluoride	< 0.10	0.10 mg/L							
Nitrate (as N)	< 0.010	0.010 mg/L							
Nitrite (as N)	< 0.010	0.010 mg/L							
Sulfate	< 1.0	1.0 mg/L							
LCS (B5D2793-BS1)			Prepared: 2025-04-12, Analyzed: 2025-04-12						
Bromide	3.89	0.10 mg/L	4.00		97	85-115			
Chloride	15.7	0.10 mg/L	16.0		98	90-110			
Fluoride	4.02	0.10 mg/L	4.00		100	88-108			
Nitrate (as N)	3.98	0.010 mg/L	4.00		99	90-110			
Nitrite (as N)	1.98	0.010 mg/L	2.00		99	85-115			
Sulfate	15.9	1.0 mg/L	16.0		100	90-110			
LCS (B5D2793-BS2)			Prepared: 2025-04-12, Analyzed: 2025-04-12						
Bromide	3.91	0.10 mg/L	4.00		98	85-115			
Chloride	15.7	0.10 mg/L	16.0		98	90-110			
Fluoride	4.06	0.10 mg/L	4.00		101	88-108			
Nitrate (as N)	3.98	0.010 mg/L	4.00		100	90-110			
Nitrite (as N)	1.98	0.010 mg/L	2.00		99	85-115			
Sulfate	15.9	1.0 mg/L	16.0		100	90-110			

Dissolved Metals, Batch B5D2875

Blank (B5D2875-BLK1)			Prepared: 2025-04-13, Analyzed: 2025-04-13						
Mercury, dissolved	< 0.000010	0.000010 mg/L							

APPENDIX 2: QUALITY CONTROL RESULTS

REPORTED TO PROJECT Regional District of Okanagan Similkameen
Keremeos - TLDW

CARO WO# 25D1647
REPORTED 2025-04-16 11:48

Analyte	Result	MRL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Notes
Dissolved Metals, Batch B5D2875, Continued									
Blank (B5D2875-BLK2)				Prepared: 2025-04-13, Analyzed: 2025-04-13					
Mercury, dissolved	< 0.000010	0.000010 mg/L							
Blank (B5D2875-BLK3)				Prepared: 2025-04-13, Analyzed: 2025-04-13					
Mercury, dissolved	< 0.000010	0.000010 mg/L							
Blank (B5D2875-BLK4)				Prepared: 2025-04-13, Analyzed: 2025-04-13					
Mercury, dissolved	< 0.000010	0.000010 mg/L							
LCS (B5D2875-BS1)				Prepared: 2025-04-13, Analyzed: 2025-04-13					
Mercury, dissolved	0.00265	0.000010 mg/L	0.00250		106	80-120			
LCS (B5D2875-BS2)				Prepared: 2025-04-13, Analyzed: 2025-04-13					
Mercury, dissolved	0.00250	0.000010 mg/L	0.00250		100	80-120			
LCS (B5D2875-BS3)				Prepared: 2025-04-13, Analyzed: 2025-04-13					
Mercury, dissolved	0.00255	0.000010 mg/L	0.00250		102	80-120			
LCS (B5D2875-BS4)				Prepared: 2025-04-13, Analyzed: 2025-04-13					
Mercury, dissolved	0.00253	0.000010 mg/L	0.00250		101	80-120			
Dissolved Metals, Batch B5D3069									
Blank (B5D3069-BLK1)				Prepared: 2025-04-15, Analyzed: 2025-04-15					
Aluminum, dissolved	< 0.0050	0.0050 mg/L							
Antimony, dissolved	< 0.00020	0.00020 mg/L							
Arsenic, dissolved	< 0.00050	0.00050 mg/L							
Barium, dissolved	< 0.0050	0.0050 mg/L							
Beryllium, dissolved	< 0.00010	0.00010 mg/L							
Bismuth, dissolved	< 0.00010	0.00010 mg/L							
Boron, dissolved	< 0.0500	0.0500 mg/L							
Cadmium, dissolved	< 0.000010	0.000010 mg/L							
Calcium, dissolved	< 0.20	0.20 mg/L							
Chromium, dissolved	< 0.00050	0.00050 mg/L							
Cobalt, dissolved	< 0.00010	0.00010 mg/L							
Copper, dissolved	< 0.00040	0.00040 mg/L							
Iron, dissolved	< 0.010	0.010 mg/L							
Lead, dissolved	< 0.00020	0.00020 mg/L							
Lithium, dissolved	< 0.00010	0.00010 mg/L							
Magnesium, dissolved	< 0.010	0.010 mg/L							
Manganese, dissolved	< 0.00020	0.00020 mg/L							
Molybdenum, dissolved	< 0.00010	0.00010 mg/L							
Nickel, dissolved	< 0.00040	0.00040 mg/L							
Phosphorus, dissolved	< 0.050	0.050 mg/L							
Potassium, dissolved	< 0.10	0.10 mg/L							
Selenium, dissolved	< 0.00050	0.00050 mg/L							
Silicon, dissolved	< 1.0	1.0 mg/L							
Silver, dissolved	< 0.000050	0.000050 mg/L							
Sodium, dissolved	< 0.10	0.10 mg/L							
Strontium, dissolved	< 0.0010	0.0010 mg/L							
Sulfur, dissolved	< 3.0	3.0 mg/L							
Tellurium, dissolved	< 0.00050	0.00050 mg/L							
Thallium, dissolved	< 0.000020	0.000020 mg/L							
Thorium, dissolved	< 0.00010	0.00010 mg/L							
Tin, dissolved	< 0.00020	0.00020 mg/L							
Titanium, dissolved	< 0.0050	0.0050 mg/L							
Tungsten, dissolved	< 0.0010	0.0010 mg/L							

APPENDIX 2: QUALITY CONTROL RESULTS

REPORTED TO PROJECT Regional District of Okanagan Similkameen
Keremeos - TLDW

CARO WO# 25D1647
REPORTED 2025-04-16 11:48

Analyte	Result	MRL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Notes
Dissolved Metals, Batch B5D3069, Continued									
Blank (B5D3069-BLK1), Continued					Prepared: 2025-04-15, Analyzed: 2025-04-15				
Uranium, dissolved	< 0.000020	0.000020 mg/L							
Vanadium, dissolved	< 0.0050	0.0050 mg/L							
Zinc, dissolved	< 0.0040	0.0040 mg/L							
Zirconium, dissolved	< 0.00010	0.00010 mg/L							
LCS (B5D3069-BS1)					Prepared: 2025-04-15, Analyzed: 2025-04-15				
Aluminum, dissolved	4.09	0.0050 mg/L	4.00		102	80-120			
Antimony, dissolved	0.0411	0.00020 mg/L	0.0400		103	80-120			
Arsenic, dissolved	0.400	0.00050 mg/L	0.400		100	80-120			
Barium, dissolved	0.0406	0.0050 mg/L	0.0400		101	80-120			
Beryllium, dissolved	0.0415	0.00010 mg/L	0.0400		104	80-120			
Bismuth, dissolved	0.0407	0.00010 mg/L	0.0400		102	80-120			
Boron, dissolved	0.414	0.0500 mg/L	0.400		104	80-120			
Cadmium, dissolved	0.0404	0.000010 mg/L	0.0400		101	80-120			
Calcium, dissolved	3.98	0.20 mg/L	4.00		99	80-120			
Chromium, dissolved	0.0405	0.00050 mg/L	0.0400		101	80-120			
Cobalt, dissolved	0.0403	0.00010 mg/L	0.0400		101	80-120			
Copper, dissolved	0.0392	0.00040 mg/L	0.0400		98	80-120			
Iron, dissolved	3.96	0.010 mg/L	4.00		99	80-120			
Lead, dissolved	0.0418	0.00020 mg/L	0.0400		104	80-120			
Lithium, dissolved	0.0428	0.00010 mg/L	0.0400		107	80-120			
Magnesium, dissolved	4.05	0.010 mg/L	4.00		101	80-120			
Manganese, dissolved	0.0401	0.00020 mg/L	0.0400		100	80-120			
Molybdenum, dissolved	0.0405	0.00010 mg/L	0.0400		101	80-120			
Nickel, dissolved	0.0408	0.00040 mg/L	0.0400		102	80-120			
Phosphorus, dissolved	4.07	0.050 mg/L	4.00		102	80-120			
Potassium, dissolved	4.07	0.10 mg/L	4.00		102	80-120			
Selenium, dissolved	0.397	0.00050 mg/L	0.400		99	80-120			
Silicon, dissolved	4.2	1.0 mg/L	4.00		104	80-120			
Silver, dissolved	0.0408	0.000050 mg/L	0.0400		102	80-120			
Sodium, dissolved	4.07	0.10 mg/L	4.00		102	80-120			
Strontium, dissolved	0.0416	0.0010 mg/L	0.0400		104	80-120			
Sulfur, dissolved	41.1	3.0 mg/L	40.0		103	80-120			
Tellurium, dissolved	0.0390	0.00050 mg/L	0.0400		98	80-120			
Thallium, dissolved	0.0405	0.000020 mg/L	0.0400		101	80-120			
Thorium, dissolved	0.0404	0.00010 mg/L	0.0400		101	80-120			
Tin, dissolved	0.0417	0.00020 mg/L	0.0400		104	80-120			
Titanium, dissolved	0.0393	0.0050 mg/L	0.0400		98	80-120			
Tungsten, dissolved	0.0406	0.0010 mg/L	0.0400		102	80-120			
Uranium, dissolved	0.0409	0.000020 mg/L	0.0400		102	80-120			
Vanadium, dissolved	0.0406	0.0050 mg/L	0.0400		102	80-120			
Zinc, dissolved	0.403	0.0040 mg/L	0.400		101	80-120			
Zirconium, dissolved	0.0402	0.00010 mg/L	0.0400		100	80-120			

General Parameters, Batch B5D2984

Blank (B5D2984-BLK1)			Prepared: 2025-04-15, Analyzed: 2025-04-15						
Alkalinity, Total (as CaCO3)	< 1.0	1.0 mg/L							
Alkalinity, Phenolphthalein (as CaCO3)	< 1.0	1.0 mg/L							
Alkalinity, Bicarbonate (as CaCO3)	< 1.0	1.0 mg/L							
Alkalinity, Carbonate (as CaCO3)	< 1.0	1.0 mg/L							
Alkalinity, Hydroxide (as CaCO3)	< 1.0	1.0 mg/L							
Conductivity (EC)	< 2.0	2.0 µS/cm							
Blank (B5D2984-BLK2)			Prepared: 2025-04-15, Analyzed: 2025-04-15						
Alkalinity, Total (as CaCO3)	< 1.0	1.0 mg/L							

APPENDIX 2: QUALITY CONTROL RESULTS

REPORTED TO PROJECT Regional District of Okanagan Similkameen
Keremeos - TLDW

CARO WO# REPORTED 25D1647
2025-04-16 11:48

Analyte	Result	MRL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Notes
General Parameters, Batch B5D2984, Continued									
Blank (B5D2984-BLK2), Continued				Prepared: 2025-04-15, Analyzed: 2025-04-15					
Alkalinity, Phenolphthalein (as CaCO ₃)	< 1.0	1.0 mg/L							
Alkalinity, Bicarbonate (as CaCO ₃)	< 1.0	1.0 mg/L							
Alkalinity, Carbonate (as CaCO ₃)	< 1.0	1.0 mg/L							
Alkalinity, Hydroxide (as CaCO ₃)	< 1.0	1.0 mg/L							
Conductivity (EC)	< 2.0	2.0 µS/cm							
LCS (B5D2984-BS1)				Prepared: 2025-04-15, Analyzed: 2025-04-15					
Alkalinity, Total (as CaCO ₃)	89.1	1.0 mg/L	100		89	80-120			
LCS (B5D2984-BS2)				Prepared: 2025-04-15, Analyzed: 2025-04-15					
Conductivity (EC)	1420	2.0 µS/cm	1410		100	95-105			
LCS (B5D2984-BS3)				Prepared: 2025-04-15, Analyzed: 2025-04-15					
Alkalinity, Total (as CaCO ₃)	89.8	1.0 mg/L	100		90	80-120			
LCS (B5D2984-BS4)				Prepared: 2025-04-15, Analyzed: 2025-04-15					
Conductivity (EC)	1410	2.0 µS/cm	1410		100	95-105			
Reference (B5D2984-SRM1)				Prepared: 2025-04-15, Analyzed: 2025-04-15					
pH	7.03	0.10 pH units	7.01		100	98-102			
Reference (B5D2984-SRM2)				Prepared: 2025-04-15, Analyzed: 2025-04-15					
pH	7.03	0.10 pH units	7.01		100	98-102			
General Parameters, Batch B5D3037									
Blank (B5D3037-BLK1)				Prepared: 2025-04-15, Analyzed: 2025-04-15					
Ammonia, Total (as N)	< 0.050	0.050 mg/L							
Blank (B5D3037-BLK2)				Prepared: 2025-04-15, Analyzed: 2025-04-15					
Ammonia, Total (as N)	< 0.050	0.050 mg/L							
Blank (B5D3037-BLK3)				Prepared: 2025-04-15, Analyzed: 2025-04-15					
Ammonia, Total (as N)	< 0.050	0.050 mg/L							
Blank (B5D3037-BLK4)				Prepared: 2025-04-15, Analyzed: 2025-04-15					
Ammonia, Total (as N)	< 0.050	0.050 mg/L							
LCS (B5D3037-BS1)				Prepared: 2025-04-15, Analyzed: 2025-04-15					
Ammonia, Total (as N)	0.955	0.050 mg/L	1.00		96	85-115			
LCS (B5D3037-BS2)				Prepared: 2025-04-15, Analyzed: 2025-04-15					
Ammonia, Total (as N)	0.925	0.050 mg/L	1.00		92	85-115			
LCS (B5D3037-BS3)				Prepared: 2025-04-15, Analyzed: 2025-04-15					
Ammonia, Total (as N)	0.847	0.050 mg/L	1.00		85	85-115			
LCS (B5D3037-BS4)				Prepared: 2025-04-15, Analyzed: 2025-04-15					
Ammonia, Total (as N)	0.875	0.050 mg/L	1.00		88	85-115			
General Parameters, Batch B5D3048									
Blank (B5D3048-BLK1)				Prepared: 2025-04-16, Analyzed: 2025-04-16					
Chemical Oxygen Demand	< 20	20 mg/L							
Blank (B5D3048-BLK2)				Prepared: 2025-04-16, Analyzed: 2025-04-16					
Chemical Oxygen Demand	< 20	20 mg/L							

APPENDIX 2: QUALITY CONTROL RESULTS

REPORTED TO PROJECT Regional District of Okanagan Similkameen
Keremeos - TLDW

CARO WO# REPORTED 25D1647
2025-04-16 11:48

Analyte	Result	MRL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Notes
General Parameters, Batch B5D3048, Continued									
LCS (B5D3048-BS1)				Prepared: 2025-04-16, Analyzed: 2025-04-16					
Chemical Oxygen Demand	525	20 mg/L	500		105	89-115			
LCS (B5D3048-BS2)				Prepared: 2025-04-16, Analyzed: 2025-04-16					
Chemical Oxygen Demand	513	20 mg/L	500		103	89-115			
Microbiological Parameters, Batch B5D2745									
Blank (B5D2745-BLK1)				Prepared: 2025-04-11, Analyzed: 2025-04-11					
Coliforms, Total	< 1	1 CFU/100 mL							
E. coli	< 1	1 CFU/100 mL							
Blank (B5D2745-BLK2)				Prepared: 2025-04-11, Analyzed: 2025-04-11					
Coliforms, Total	< 1	1 CFU/100 mL							
E. coli	< 1	1 CFU/100 mL							
Blank (B5D2745-BLK3)				Prepared: 2025-04-11, Analyzed: 2025-04-11					
Coliforms, Total	< 1	1 CFU/100 mL							
E. coli	< 1	1 CFU/100 mL							
Blank (B5D2745-BLK4)				Prepared: 2025-04-11, Analyzed: 2025-04-11					
Coliforms, Total	< 1	1 CFU/100 mL							
E. coli	< 1	1 CFU/100 mL							
Total Metals, Batch B5D2875									
Blank (B5D2875-BLK1)				Prepared: 2025-04-13, Analyzed: 2025-04-13					
Mercury, total	< 0.000010	0.000010 mg/L							
Blank (B5D2875-BLK2)				Prepared: 2025-04-13, Analyzed: 2025-04-13					
Mercury, total	< 0.000010	0.000010 mg/L							
Blank (B5D2875-BLK3)				Prepared: 2025-04-13, Analyzed: 2025-04-13					
Mercury, total	< 0.000010	0.000010 mg/L							
Blank (B5D2875-BLK4)				Prepared: 2025-04-13, Analyzed: 2025-04-13					
Mercury, total	< 0.000010	0.000010 mg/L							
LCS (B5D2875-BS1)				Prepared: 2025-04-13, Analyzed: 2025-04-13					
Mercury, total	0.00265	0.000010 mg/L	0.00250		106	80-120			
LCS (B5D2875-BS2)				Prepared: 2025-04-13, Analyzed: 2025-04-13					
Mercury, total	0.00250	0.000010 mg/L	0.00250		100	80-120			
LCS (B5D2875-BS3)				Prepared: 2025-04-13, Analyzed: 2025-04-13					
Mercury, total	0.00255	0.000010 mg/L	0.00250		102	80-120			
LCS (B5D2875-BS4)				Prepared: 2025-04-13, Analyzed: 2025-04-13					
Mercury, total	0.00253	0.000010 mg/L	0.00250		101	80-120			
Duplicate (B5D2875-DUP4)				Source: 25D1647-01		Prepared: 2025-04-13, Analyzed: 2025-04-13			
Mercury, total	< 0.000010	0.000010 mg/L	< 0.000010					20	

Total Metals, Batch B5D2950

APPENDIX 2: QUALITY CONTROL RESULTS

REPORTED TO PROJECT Regional District of Okanagan Similkameen
Keremeos - TLDW

CARO WO# 25D1647
REPORTED 2025-04-16 11:48

Analyte	Result	MRL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Notes
Total Metals, Batch B5D2950, Continued									
Blank (B5D2950-BLK1)				Prepared: 2025-04-14, Analyzed: 2025-04-14					
Aluminum, total	< 0.0050	0.0050 mg/L							
Antimony, total	< 0.00020	0.00020 mg/L							
Arsenic, total	< 0.00050	0.00050 mg/L							
Barium, total	< 0.0050	0.0050 mg/L							
Beryllium, total	< 0.00010	0.00010 mg/L							
Bismuth, total	< 0.00010	0.00010 mg/L							
Boron, total	< 0.0500	0.0500 mg/L							
Cadmium, total	< 0.000010	0.000010 mg/L							
Calcium, total	< 0.20	0.20 mg/L							
Chromium, total	< 0.00050	0.00050 mg/L							
Cobalt, total	< 0.00010	0.00010 mg/L							
Copper, total	< 0.00040	0.00040 mg/L							
Iron, total	< 0.010	0.010 mg/L							
Lead, total	< 0.00020	0.00020 mg/L							
Lithium, total	< 0.00010	0.00010 mg/L							
Magnesium, total	< 0.010	0.010 mg/L							
Manganese, total	< 0.00020	0.00020 mg/L							
Molybdenum, total	< 0.00010	0.00010 mg/L							
Nickel, total	< 0.00040	0.00040 mg/L							
Phosphorus, total	< 0.050	0.050 mg/L							
Potassium, total	< 0.10	0.10 mg/L							
Selenium, total	< 0.00050	0.00050 mg/L							
Silicon, total	< 1.0	1.0 mg/L							
Silver, total	< 0.000050	0.000050 mg/L							
Sodium, total	< 0.10	0.10 mg/L							
Strontium, total	< 0.0010	0.0010 mg/L							
Sulfur, total	< 3.0	3.0 mg/L							
Tellurium, total	< 0.00050	0.00050 mg/L							
Thallium, total	< 0.000020	0.000020 mg/L							
Thorium, total	< 0.00010	0.00010 mg/L							
Tin, total	< 0.00020	0.00020 mg/L							
Titanium, total	< 0.0050	0.0050 mg/L							
Tungsten, total	< 0.0010	0.0010 mg/L							
Uranium, total	< 0.000020	0.000020 mg/L							
Vanadium, total	< 0.0050	0.0050 mg/L							
Zinc, total	< 0.0040	0.0040 mg/L							
Zirconium, total	< 0.00010	0.00010 mg/L							
LCS (B5D2950-BS1)				Prepared: 2025-04-14, Analyzed: 2025-04-14					
Aluminum, total	3.84	0.0050 mg/L	4.00		96	80-120			
Antimony, total	0.0368	0.00020 mg/L	0.0400		92	80-120			
Arsenic, total	0.380	0.00050 mg/L	0.400		95	80-120			
Barium, total	0.0396	0.0050 mg/L	0.0400		99	80-120			
Beryllium, total	0.0378	0.00010 mg/L	0.0400		95	80-120			
Bismuth, total	0.0392	0.00010 mg/L	0.0400		98	80-120			
Boron, total	0.376	0.0500 mg/L	0.400		94	80-120			
Cadmium, total	0.0374	0.000010 mg/L	0.0400		94	80-120			
Calcium, total	3.96	0.20 mg/L	4.00		99	80-120			
Chromium, total	0.0385	0.00050 mg/L	0.0400		96	80-120			
Cobalt, total	0.0386	0.00010 mg/L	0.0400		97	80-120			
Copper, total	0.0385	0.00040 mg/L	0.0400		96	80-120			
Iron, total	3.85	0.010 mg/L	4.00		96	80-120			
Lead, total	0.0388	0.00020 mg/L	0.0400		97	80-120			
Lithium, total	0.0395	0.00010 mg/L	0.0400		99	80-120			
Magnesium, total	3.78	0.010 mg/L	4.00		95	80-120			
Manganese, total	0.0387	0.00020 mg/L	0.0400		97	80-120			

APPENDIX 2: QUALITY CONTROL RESULTS

REPORTED TO PROJECT Regional District of Okanagan Similkameen
Keremeos - TLDW

CARO WO# 25D1647
REPORTED 2025-04-16 11:48

Analyte	Result	MRL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Notes
Total Metals, Batch B5D2950, Continued									
LCS (B5D2950-BS1), Continued				Prepared: 2025-04-14, Analyzed: 2025-04-14					
Molybdenum, total	0.0376	0.00010 mg/L	0.0400		94	80-120			
Nickel, total	0.0382	0.00040 mg/L	0.0400		95	80-120			
Phosphorus, total	3.77	0.050 mg/L	4.00		94	80-120			
Potassium, total	3.87	0.10 mg/L	4.00		97	80-120			
Selenium, total	0.382	0.00050 mg/L	0.400		96	80-120			
Silicon, total	4.0	1.0 mg/L	4.00		99	80-120			
Silver, total	0.0375	0.000050 mg/L	0.0400		94	80-120			
Sodium, total	4.01	0.10 mg/L	4.00		100	80-120			
Strontium, total	0.0383	0.0010 mg/L	0.0400		96	80-120			
Sulfur, total	39.0	3.0 mg/L	40.0		97	80-120			
Tellurium, total	0.0355	0.00050 mg/L	0.0400		89	80-120			
Thallium, total	0.0391	0.000020 mg/L	0.0400		98	80-120			
Thorium, total	0.0391	0.00010 mg/L	0.0400		98	80-120			
Tin, total	0.0387	0.00020 mg/L	0.0400		97	80-120			
Titanium, total	0.0384	0.0050 mg/L	0.0400		96	80-120			
Tungsten, total	0.0393	0.0010 mg/L	0.0400		98	80-120			
Uranium, total	0.0410	0.000020 mg/L	0.0400		102	80-120			
Vanadium, total	0.0383	0.0050 mg/L	0.0400		96	80-120			
Zinc, total	0.383	0.0040 mg/L	0.400		96	80-120			
Zirconium, total	0.0372	0.00010 mg/L	0.0400		93	80-120			

CERTIFICATE OF ANALYSIS

REPORTED TO	Regional District of Okanagan Similkameen 101 Martin Street Penticton, BC V2A 5J9	WORK ORDER	25D1649
ATTENTION	Rob Palmer	RECEIVED / TEMP	2025-04-11 11:20 / 5°C
PO NUMBER	TLDW	REPORTED	2025-04-16 11:49
PROJECT	Keremeos - TLDW	COC NUMBER	eCOC#00022407
PROJECT INFO			

Introduction:

CARO Analytical Services is a testing laboratory full of smart, engaged scientists driven to make the world a safer and healthier place. Through our clients' projects we become an essential element for a better world. We employ methods conducted in accordance with recognized professional standards using accepted testing methodologies and quality control efforts. CARO is accredited by the Canadian Association for Laboratories Accreditation (CALA) to ISO/IEC 17025:2017 for specific tests listed in the scope of accreditation approved by CALA.

Big Picture Sidekicks



You know that the sample you collected after snowshoeing to site, digging 5 meters, and racing to get it on a plane so you can submit it to the lab for time sensitive results needed to make important and expensive decisions (whew) is VERY important. We know that too.

We've Got Chemistry



It's simple. We figure the more you enjoy working with our fun and engaged team members; the more likely you are to give us continued opportunities to support you.

Ahead of the Curve



Through research, regulation knowledge, and instrumentation, we are your analytical centre for the technical knowledge you need, BEFORE you need it, so you can stay up to date and in the know.

Work Order Comments:

Custody Seals Intact: N/A

By engaging our services, you are agreeing to CARO Analytical Service's Standard Terms and Conditions outlined here:
<https://www.caro.ca/terms-conditions>

If you have any questions or concerns, please contact me at hhannaoui@caro.ca

Authorized By:

Hanane El Hannaoui
Junior Account Manager



1-888-311-8846 | www.caro.ca

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TEST RESULTS

REPORTED TO PROJECT Regional District of Okanagan Similkameen
Keremeos - TLDW

CARO WO# REPORTED 25D1649
2025-04-16 11:49

Analyte	Result	Guideline	RL Units	Analyzed	Qualifier
DW-848 (848 El Rancho Rd. Residential Well) (25D1649-01) Matrix: Drinking Water Sampled: 2025-04-10 11:05					
Anions					
Bromide	< 0.10	N/A	0.10 mg/L	2025-04-12	
Chloride	20.2	AO ≤ 250	0.10 mg/L	2025-04-12	
Fluoride	0.10	MAC = 1.5	0.10 mg/L	2025-04-12	
Nitrate (as N)	4.51	MAC = 10	0.010 mg/L	2025-04-12	
Nitrite (as N)	< 0.010	MAC = 1	0.010 mg/L	2025-04-12	
Sulfate	221	AO ≤ 500	1.0 mg/L	2025-04-12	
Calculated Parameters					
Bicarbonate (HCO ₃)	431	N/A	1.22 mg/L	N/A	
Carbonate (CO ₃)	< 0.600	N/A	0.600 mg/L	N/A	
Hydroxide (OH)	< 0.340	N/A	0.340 mg/L	N/A	
Hardness, Dissolved (as CaCO ₃)	604	N/A	0.500 mg/L	N/A	
Nitrate+Nitrite (as N)	4.51	N/A	0.0100 mg/L	N/A	
Dissolved Metals					
Aluminum, dissolved	< 0.0050	N/A	0.0050 mg/L	2025-04-15	
Antimony, dissolved	< 0.00020	N/A	0.00020 mg/L	2025-04-15	
Arsenic, dissolved	0.00123	N/A	0.00050 mg/L	2025-04-15	
Barium, dissolved	0.0644	N/A	0.0050 mg/L	2025-04-15	
Beryllium, dissolved	< 0.00010	N/A	0.00010 mg/L	2025-04-15	
Bismuth, dissolved	< 0.00010	N/A	0.00010 mg/L	2025-04-15	
Boron, dissolved	< 0.0500	N/A	0.0500 mg/L	2025-04-15	
Cadmium, dissolved	0.000036	N/A	0.000010 mg/L	2025-04-15	
Calcium, dissolved	104	N/A	0.20 mg/L	2025-04-15	
Chromium, dissolved	0.00283	N/A	0.00050 mg/L	2025-04-15	
Cobalt, dissolved	< 0.00010	N/A	0.00010 mg/L	2025-04-15	
Copper, dissolved	0.00206	N/A	0.00040 mg/L	2025-04-15	
Iron, dissolved	0.011	N/A	0.010 mg/L	2025-04-15	
Lead, dissolved	< 0.00020	N/A	0.00020 mg/L	2025-04-15	
Lithium, dissolved	0.0173	N/A	0.00010 mg/L	2025-04-15	
Magnesium, dissolved	83.1	N/A	0.010 mg/L	2025-04-15	
Manganese, dissolved	0.00094	N/A	0.00020 mg/L	2025-04-15	
Mercury, dissolved	< 0.000010	N/A	0.000010 mg/L	2025-04-13	
Molybdenum, dissolved	0.00286	N/A	0.00010 mg/L	2025-04-15	
Nickel, dissolved	0.00114	N/A	0.00040 mg/L	2025-04-15	
Phosphorus, dissolved	< 0.050	N/A	0.050 mg/L	2025-04-15	
Potassium, dissolved	4.41	N/A	0.10 mg/L	2025-04-15	
Selenium, dissolved	0.00612	N/A	0.00050 mg/L	2025-04-15	
Silicon, dissolved	11.4	N/A	1.0 mg/L	2025-04-15	
Silver, dissolved	< 0.000050	N/A	0.000050 mg/L	2025-04-15	
Sodium, dissolved	34.5	N/A	0.10 mg/L	2025-04-15	
Strontium, dissolved	1.25	N/A	0.0010 mg/L	2025-04-15	
Sulfur, dissolved	83.1	N/A	3.0 mg/L	2025-04-15	
Tellurium, dissolved	< 0.00050	N/A	0.00050 mg/L	2025-04-15	

TEST RESULTS

REPORTED TO PROJECT Regional District of Okanagan Similkameen
Keremeos - TLDW

CARO WO# REPORTED 25D1649
2025-04-16 11:49

Analyte	Result	Guideline	RL Units	Analyzed	Qualifier
DW-848 (848 El Rancho Rd. Residential Well) (25D1649-01) Matrix: Drinking Water Sampled: 2025-04-10 11:05, Continued					
Dissolved Metals, Continued					
Thallium, dissolved	< 0.000020	N/A	0.000020 mg/L	2025-04-15	
Thorium, dissolved	< 0.00010	N/A	0.00010 mg/L	2025-04-15	
Tin, dissolved	< 0.00020	N/A	0.00020 mg/L	2025-04-15	
Titanium, dissolved	< 0.0050	N/A	0.0050 mg/L	2025-04-15	
Tungsten, dissolved	< 0.0010	N/A	0.0010 mg/L	2025-04-15	
Uranium, dissolved	0.00625	N/A	0.000020 mg/L	2025-04-15	
Vanadium, dissolved	< 0.0050	N/A	0.0050 mg/L	2025-04-15	
Zinc, dissolved	0.0076	N/A	0.0040 mg/L	2025-04-15	
Zirconium, dissolved	< 0.00010	N/A	0.00010 mg/L	2025-04-15	
General Parameters					
Alkalinity, Total (as CaCO ₃)	354	N/A	1.0 mg/L	2025-04-15	
Alkalinity, Phenolphthalein (as CaCO ₃)	< 1.0	N/A	1.0 mg/L	2025-04-15	
Alkalinity, Bicarbonate (as CaCO ₃)	354	N/A	1.0 mg/L	2025-04-15	
Alkalinity, Carbonate (as CaCO ₃)	< 1.0	N/A	1.0 mg/L	2025-04-15	
Alkalinity, Hydroxide (as CaCO ₃)	< 1.0	N/A	1.0 mg/L	2025-04-15	
Ammonia, Total (as N)	< 0.050	None Required	0.050 mg/L	2025-04-15	
Chemical Oxygen Demand	< 20	N/A	20 mg/L	2025-04-16	
Conductivity (EC)	1180	N/A	2.0 µS/cm	2025-04-15	
pH	7.87	7.0-10.5	0.10 pH units	2025-04-15	HT2
Microbiological Parameters					
Coliforms, Total	< 1	MAC = 0	1 CFU/100 mL	2025-04-11	
E. coli	< 1	MAC = 0	1 CFU/100 mL	2025-04-11	
Total Metals					
Aluminum, total	< 0.0050	OG < 0.1	0.0050 mg/L	2025-04-14	
Antimony, total	< 0.00020	MAC = 0.006	0.00020 mg/L	2025-04-14	
Arsenic, total	0.00113	MAC = 0.01	0.00050 mg/L	2025-04-14	
Barium, total	0.0591	MAC = 2	0.0050 mg/L	2025-04-14	
Beryllium, total	< 0.00010	N/A	0.00010 mg/L	2025-04-14	
Bismuth, total	< 0.00010	N/A	0.00010 mg/L	2025-04-14	
Boron, total	< 0.0500	MAC = 5	0.0500 mg/L	2025-04-14	
Cadmium, total	0.000034	MAC = 0.007	0.000010 mg/L	2025-04-14	
Calcium, total	106	None Required	0.20 mg/L	2025-04-14	
Chromium, total	0.00273	MAC = 0.05	0.00050 mg/L	2025-04-14	
Cobalt, total	< 0.00010	N/A	0.00010 mg/L	2025-04-14	
Copper, total	0.00209	MAC = 2	0.00040 mg/L	2025-04-14	
Iron, total	0.022	AO ≤ 0.1	0.010 mg/L	2025-04-14	
Lead, total	< 0.00020	MAC = 0.005	0.00020 mg/L	2025-04-14	
Lithium, total	0.0138	N/A	0.00010 mg/L	2025-04-14	
Magnesium, total	73.1	None Required	0.010 mg/L	2025-04-14	
Manganese, total	0.00098	MAC = 0.12	0.00020 mg/L	2025-04-14	
Mercury, total	< 0.000010	MAC = 0.001	0.000010 mg/L	2025-04-13	

TEST RESULTS

REPORTED TO PROJECT Regional District of Okanagan Similkameen
Keremeos - TLDW

CARO WO# REPORTED 25D1649
2025-04-16 11:49

Analyte	Result	Guideline	RL	Units	Analyzed	Qualifier
DW-848 (848 El Rancho Rd. Residential Well) (25D1649-01) Matrix: Drinking Water Sampled: 2025-04-10 11:05, Continued						
<i>Total Metals, Continued</i>						
Molybdenum, total	0.00293	N/A	0.00010	mg/L	2025-04-14	
Nickel, total	0.00095	N/A	0.00040	mg/L	2025-04-14	
Phosphorus, total	< 0.050	N/A	0.050	mg/L	2025-04-14	
Potassium, total	4.19	N/A	0.10	mg/L	2025-04-14	
Selenium, total	0.00548	MAC = 0.05	0.00050	mg/L	2025-04-14	
Silicon, total	11.1	N/A	1.0	mg/L	2025-04-14	
Silver, total	< 0.000050	None Required	0.000050	mg/L	2025-04-14	
Sodium, total	32.7	AO ≤ 200	0.10	mg/L	2025-04-14	
Strontium, total	1.18	MAC = 7	0.0010	mg/L	2025-04-14	
Sulfur, total	83.5	N/A	3.0	mg/L	2025-04-14	
Tellurium, total	< 0.00050	N/A	0.00050	mg/L	2025-04-14	
Thallium, total	< 0.000020	N/A	0.000020	mg/L	2025-04-14	
Thorium, total	< 0.00010	N/A	0.00010	mg/L	2025-04-14	
Tin, total	< 0.00020	N/A	0.00020	mg/L	2025-04-14	
Titanium, total	< 0.0050	N/A	0.0050	mg/L	2025-04-14	
Tungsten, total	< 0.0010	N/A	0.0010	mg/L	2025-04-14	
Uranium, total	0.00565	MAC = 0.02	0.000020	mg/L	2025-04-14	
Vanadium, total	< 0.0050	N/A	0.0050	mg/L	2025-04-14	
Zinc, total	0.0087	AO ≤ 5	0.0040	mg/L	2025-04-14	
Zirconium, total	< 0.00010	N/A	0.00010	mg/L	2025-04-14	

Sample Qualifiers:

HT2 The 15 minute recommended holding time (from sampling to analysis) has been exceeded - field analysis is recommended.

APPENDIX 1: SUPPORTING INFORMATION

REPORTED TO PROJECT Regional District of Okanagan Similkameen
Keremeos - TLDW

CARO WO# REPORTED 25D1649
2025-04-16 11:49

Analysis Description	Method Ref.	Technique	Accredited	Location
Alkalinity in Water	SM 2320 B* (2021)	Titration with H ₂ SO ₄	✓	Kelowna
Ammonia, Total in Water	SM 4500-NH ₃ G* (2021)	Automated Colorimetry (Phenate)	✓	Kelowna
Anions in Water	SM 4110 B (2020)	Ion Chromatography	✓	Kelowna
Chemical Oxygen Demand in Water	SM 5220 D* (2022)	Closed Reflux, Colorimetry	✓	Kelowna
Coliforms, Total in Water	SM 9222* (2015)	Membrane Filtration / Chromocult Agar	✓	Kelowna
Conductivity in Water	SM 2510 B (2021)	Conductivity Meter	✓	Kelowna
Dissolved Metals in Water	EPA 200.8 / EPA 6020B	0.45 µm Filtration / Inductively Coupled Plasma-Mass Spectrometry (ICP-MS)	✓	Richmond
E. coli in Water	SM 9222* (2015)	Membrane Filtration / Chromocult Agar	✓	Kelowna
Hardness in Water	SM 2340 B (2021)	Calculation: 2.497 [diss Ca] + 4.118 [diss Mg]	✓	N/A
Mercury, dissolved in Water	EPA 245.7*	BrCl ₂ Oxidation / Cold Vapor Atomic Fluorescence Spectrometry (CVAFS)	✓	Richmond
Mercury, total in Water	EPA 245.7*	BrCl ₂ Oxidation / Cold Vapor Atomic Fluorescence Spectrometry (CVAFS)	✓	Richmond
pH in Water	SM 4500-H+ B (2021)	Electrometry	✓	Kelowna
Total Metals in Water	EPA 200.2 / EPA 6020B	HNO ₃ +HCl Hot Block Digestion / Inductively Coupled Plasma-Mass Spectrometry (ICP-MS)	✓	Richmond

Note: An asterisk in the Method Reference indicates that the CARO method has been modified from the reference method

Glossary of Terms:

RL	Reporting Limit (default)
<	Less than the specified Reporting Limit (RL) - the actual RL may be higher than the default RL due to various factors
AO	Aesthetic Objective
CFU/100 mL	Colony Forming Units per 100 millilitres
MAC	Maximum Acceptable Concentration (health based)
mg/L	Milligrams per litre
OG	Operational Guideline (treated water)
pH units	pH < 7 = acidic, pH > 7 = basic
µS/cm	Microsiemens per centimetre
EPA	United States Environmental Protection Agency Test Methods
SM	Standard Methods for the Examination of Water and Wastewater, American Public Health Association

APPENDIX 1: SUPPORTING INFORMATION

REPORTED TO PROJECT Regional District of Okanagan Similkameen
Keremeos - TLDW

CARO WO# 25D1649
REPORTED 2025-04-16 11:49

General Comments:

The results in this report apply to the received samples analyzed in accordance with the Chain of Custody document. This analytical report must be reproduced in its entirety. CARO is not responsible for any loss or damage resulting directly or indirectly from error or omission in the conduct of testing. Liability is limited to the cost of analysis. Samples will be disposed of 30 days after the test report has been issued or once samples expire, whichever comes first. Longer hold is possible if agreed to in writing.

Results in **Bold** indicate values that are above CARO's method reporting limits. Any results that are above regulatory limits are highlighted **red**. Please note that results will only be highlighted red if the regulatory limits are included on the CARO report. Any Bold and/or highlighted results do not take into account method uncertainty. If you would like method uncertainty or regulatory limits to be included on your report, please contact your Account Manager: [@Email](#)

Please note any regulatory guidelines applied to this report are added as a convenience to the client, at their request, to help provide some initial context to analytical results obtained. Although CARO makes every effort to ensure accuracy of the associated regulatory guideline(s) applied, the guidelines applied cannot be assumed to be correct due to a variety of factors and as such CARO Analytical Services assumes no liability or responsibility for the use of those guidelines to make any decisions. The original source of the regulation should be verified and a review of the guideline(s) should be validated as correct in order to make any decisions arising from the comparison of the analytical data obtained to the relevant regulatory guideline for one's particular circumstances. Further, CARO Analytical Services assumes no liability

APPENDIX 2: QUALITY CONTROL RESULTS

REPORTED TO PROJECT Regional District of Okanagan Similkameen
Keremeos - TLDW

CARO WO# 25D1649
REPORTED 2025-04-16 11:49

The following section displays the quality control (QC) data that is associated with your sample data. Groups of samples are prepared in "batches" and analyzed in conjunction with QC samples that ensure your data is of the highest quality. Common QC types include:

- **Method Blank (BLK):** A blank sample that undergoes sample processing identical to that carried out for the test samples. Method blank results are used to assess contamination from the laboratory environment and reagents.
- **Duplicate (Dup):** An additional or second portion of a randomly selected sample in the analytical run carried through the entire analytical process. Duplicates provide a measure of the analytical method's precision (reproducibility).
- **Blank Spike (BS):** A sample of known concentration which undergoes processing identical to that carried out for test samples, also referred to as a laboratory control sample (LCS). Blank spikes provide a measure of the analytical method's accuracy.
- **Matrix Spike (MS):** A second aliquot of sample is fortified with a known concentration of target analytes and carried through the entire analytical process. Matrix spikes evaluate potential matrix effects that may affect the analyte recovery.
- **Reference Material (SRM):** A homogenous material of similar matrix to the samples, certified for the parameter(s) listed. Reference Materials ensure that the analytical process is adequate to achieve acceptable recoveries of the parameter(s) tested.

Each QC type is analyzed at a 5-10% frequency, i.e. one blank/duplicate/spike for every 10-20 samples. For all types of QC, the specified recovery (% Rec) and relative percent difference (RPD) limits are derived from long-term method performance averages and/or prescribed by the reference method.

Analyte	Result	MRL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Notes
Anions, Batch B5D2793									
Blank (B5D2793-BLK1)			Prepared: 2025-04-12, Analyzed: 2025-04-12						
Bromide	< 0.10	0.10 mg/L							
Chloride	< 0.10	0.10 mg/L							
Fluoride	< 0.10	0.10 mg/L							
Nitrate (as N)	< 0.010	0.010 mg/L							
Nitrite (as N)	< 0.010	0.010 mg/L							
Sulfate	< 1.0	1.0 mg/L							
Blank (B5D2793-BLK2)			Prepared: 2025-04-12, Analyzed: 2025-04-12						
Bromide	< 0.10	0.10 mg/L							
Chloride	< 0.10	0.10 mg/L							
Fluoride	< 0.10	0.10 mg/L							
Nitrate (as N)	< 0.010	0.010 mg/L							
Nitrite (as N)	< 0.010	0.010 mg/L							
Sulfate	< 1.0	1.0 mg/L							
LCS (B5D2793-BS1)			Prepared: 2025-04-12, Analyzed: 2025-04-12						
Bromide	3.89	0.10 mg/L	4.00		97	85-115			
Chloride	15.7	0.10 mg/L	16.0		98	90-110			
Fluoride	4.02	0.10 mg/L	4.00		100	88-108			
Nitrate (as N)	3.98	0.010 mg/L	4.00		99	90-110			
Nitrite (as N)	1.98	0.010 mg/L	2.00		99	85-115			
Sulfate	15.9	1.0 mg/L	16.0		100	90-110			
LCS (B5D2793-BS2)			Prepared: 2025-04-12, Analyzed: 2025-04-12						
Bromide	3.91	0.10 mg/L	4.00		98	85-115			
Chloride	15.7	0.10 mg/L	16.0		98	90-110			
Fluoride	4.06	0.10 mg/L	4.00		101	88-108			
Nitrate (as N)	3.98	0.010 mg/L	4.00		100	90-110			
Nitrite (as N)	1.98	0.010 mg/L	2.00		99	85-115			
Sulfate	15.9	1.0 mg/L	16.0		100	90-110			

Dissolved Metals, Batch B5D2875

Blank (B5D2875-BLK1)			Prepared: 2025-04-13, Analyzed: 2025-04-13						
Mercury, dissolved	< 0.000010	0.000010 mg/L							

APPENDIX 2: QUALITY CONTROL RESULTS

REPORTED TO PROJECT Regional District of Okanagan Similkameen
Keremeos - TLDW

CARO WO# 25D1649
REPORTED 2025-04-16 11:49

Analyte	Result	MRL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Notes
Dissolved Metals, Batch B5D2875, Continued									
Blank (B5D2875-BLK2)			Prepared: 2025-04-13, Analyzed: 2025-04-13						
Mercury, dissolved	< 0.000010	0.000010 mg/L							
Blank (B5D2875-BLK3)			Prepared: 2025-04-13, Analyzed: 2025-04-13						
Mercury, dissolved	< 0.000010	0.000010 mg/L							
Blank (B5D2875-BLK4)			Prepared: 2025-04-13, Analyzed: 2025-04-13						
Mercury, dissolved	< 0.000010	0.000010 mg/L							
LCS (B5D2875-BS1)			Prepared: 2025-04-13, Analyzed: 2025-04-13						
Mercury, dissolved	0.00265	0.000010 mg/L	0.00250		106	80-120			
LCS (B5D2875-BS2)			Prepared: 2025-04-13, Analyzed: 2025-04-13						
Mercury, dissolved	0.00250	0.000010 mg/L	0.00250		100	80-120			
LCS (B5D2875-BS3)			Prepared: 2025-04-13, Analyzed: 2025-04-13						
Mercury, dissolved	0.00255	0.000010 mg/L	0.00250		102	80-120			
LCS (B5D2875-BS4)			Prepared: 2025-04-13, Analyzed: 2025-04-13						
Mercury, dissolved	0.00253	0.000010 mg/L	0.00250		101	80-120			
Matrix Spike (B5D2875-MS3)			Source: 25D1649-01		Prepared: 2025-04-13, Analyzed: 2025-04-13				
Mercury, dissolved	0.00194	0.000010 mg/L	0.00250	< 0.000010	77	70-130			

Dissolved Metals, Batch B5D3069

Blank (B5D3069-BLK1)			Prepared: 2025-04-15, Analyzed: 2025-04-15						
Aluminum, dissolved	< 0.0050	0.0050 mg/L							
Antimony, dissolved	< 0.00020	0.00020 mg/L							
Arsenic, dissolved	< 0.00050	0.00050 mg/L							
Barium, dissolved	< 0.0050	0.0050 mg/L							
Beryllium, dissolved	< 0.00010	0.00010 mg/L							
Bismuth, dissolved	< 0.00010	0.00010 mg/L							
Boron, dissolved	< 0.0500	0.0500 mg/L							
Cadmium, dissolved	< 0.000010	0.000010 mg/L							
Calcium, dissolved	< 0.20	0.20 mg/L							
Chromium, dissolved	< 0.00050	0.00050 mg/L							
Cobalt, dissolved	< 0.00010	0.00010 mg/L							
Copper, dissolved	< 0.00040	0.00040 mg/L							
Iron, dissolved	< 0.010	0.010 mg/L							
Lead, dissolved	< 0.00020	0.00020 mg/L							
Lithium, dissolved	< 0.00010	0.00010 mg/L							
Magnesium, dissolved	< 0.010	0.010 mg/L							
Manganese, dissolved	< 0.00020	0.00020 mg/L							
Molybdenum, dissolved	< 0.00010	0.00010 mg/L							
Nickel, dissolved	< 0.00040	0.00040 mg/L							
Phosphorus, dissolved	< 0.050	0.050 mg/L							
Potassium, dissolved	< 0.10	0.10 mg/L							
Selenium, dissolved	< 0.00050	0.00050 mg/L							
Silicon, dissolved	< 1.0	1.0 mg/L							
Silver, dissolved	< 0.000050	0.000050 mg/L							
Sodium, dissolved	< 0.10	0.10 mg/L							
Strontium, dissolved	< 0.0010	0.0010 mg/L							
Sulfur, dissolved	< 3.0	3.0 mg/L							
Tellurium, dissolved	< 0.00050	0.00050 mg/L							
Thallium, dissolved	< 0.000020	0.000020 mg/L							
Thorium, dissolved	< 0.00010	0.00010 mg/L							

APPENDIX 2: QUALITY CONTROL RESULTS

REPORTED TO PROJECT Regional District of Okanagan Similkameen
Keremeos - TLDW

CARO WO# 25D1649
REPORTED 2025-04-16 11:49

Analyte	Result	MRL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Notes
Dissolved Metals, Batch B5D3069, Continued									
Blank (B5D3069-BLK1), Continued					Prepared: 2025-04-15, Analyzed: 2025-04-15				
Tin, dissolved	< 0.00020	0.00020 mg/L							
Titanium, dissolved	< 0.0050	0.0050 mg/L							
Tungsten, dissolved	< 0.0010	0.0010 mg/L							
Uranium, dissolved	< 0.000020	0.000020 mg/L							
Vanadium, dissolved	< 0.0050	0.0050 mg/L							
Zinc, dissolved	< 0.0040	0.0040 mg/L							
Zirconium, dissolved	< 0.00010	0.00010 mg/L							
LCS (B5D3069-BS1)					Prepared: 2025-04-15, Analyzed: 2025-04-15				
Aluminum, dissolved	4.09	0.0050 mg/L	4.00		102	80-120			
Antimony, dissolved	0.0411	0.00020 mg/L	0.0400		103	80-120			
Arsenic, dissolved	0.400	0.00050 mg/L	0.400		100	80-120			
Barium, dissolved	0.0406	0.0050 mg/L	0.0400		101	80-120			
Beryllium, dissolved	0.0415	0.00010 mg/L	0.0400		104	80-120			
Bismuth, dissolved	0.0407	0.00010 mg/L	0.0400		102	80-120			
Boron, dissolved	0.414	0.0500 mg/L	0.400		104	80-120			
Cadmium, dissolved	0.0404	0.000010 mg/L	0.0400		101	80-120			
Calcium, dissolved	3.98	0.20 mg/L	4.00		99	80-120			
Chromium, dissolved	0.0405	0.00050 mg/L	0.0400		101	80-120			
Cobalt, dissolved	0.0403	0.00010 mg/L	0.0400		101	80-120			
Copper, dissolved	0.0392	0.00040 mg/L	0.0400		98	80-120			
Iron, dissolved	3.96	0.010 mg/L	4.00		99	80-120			
Lead, dissolved	0.0418	0.00020 mg/L	0.0400		104	80-120			
Lithium, dissolved	0.0428	0.00010 mg/L	0.0400		107	80-120			
Magnesium, dissolved	4.05	0.010 mg/L	4.00		101	80-120			
Manganese, dissolved	0.0401	0.00020 mg/L	0.0400		100	80-120			
Molybdenum, dissolved	0.0405	0.00010 mg/L	0.0400		101	80-120			
Nickel, dissolved	0.0408	0.00040 mg/L	0.0400		102	80-120			
Phosphorus, dissolved	4.07	0.050 mg/L	4.00		102	80-120			
Potassium, dissolved	4.07	0.10 mg/L	4.00		102	80-120			
Selenium, dissolved	0.397	0.00050 mg/L	0.400		99	80-120			
Silicon, dissolved	4.2	1.0 mg/L	4.00		104	80-120			
Silver, dissolved	0.0408	0.000050 mg/L	0.0400		102	80-120			
Sodium, dissolved	4.07	0.10 mg/L	4.00		102	80-120			
Strontium, dissolved	0.0416	0.0010 mg/L	0.0400		104	80-120			
Sulfur, dissolved	41.1	3.0 mg/L	40.0		103	80-120			
Tellurium, dissolved	0.0390	0.00050 mg/L	0.0400		98	80-120			
Thallium, dissolved	0.0405	0.000020 mg/L	0.0400		101	80-120			
Thorium, dissolved	0.0404	0.00010 mg/L	0.0400		101	80-120			
Tin, dissolved	0.0417	0.00020 mg/L	0.0400		104	80-120			
Titanium, dissolved	0.0393	0.0050 mg/L	0.0400		98	80-120			
Tungsten, dissolved	0.0406	0.0010 mg/L	0.0400		102	80-120			
Uranium, dissolved	0.0409	0.000020 mg/L	0.0400		102	80-120			
Vanadium, dissolved	0.0406	0.0050 mg/L	0.0400		102	80-120			
Zinc, dissolved	0.403	0.0040 mg/L	0.400		101	80-120			
Zirconium, dissolved	0.0402	0.00010 mg/L	0.0400		100	80-120			

General Parameters, Batch B5D2984

Blank (B5D2984-BLK1)			Prepared: 2025-04-15, Analyzed: 2025-04-15						
Alkalinity, Total (as CaCO ₃)	< 1.0	1.0 mg/L							
Alkalinity, Phenolphthalein (as CaCO ₃)	< 1.0	1.0 mg/L							
Alkalinity, Bicarbonate (as CaCO ₃)	< 1.0	1.0 mg/L							
Alkalinity, Carbonate (as CaCO ₃)	< 1.0	1.0 mg/L							
Alkalinity, Hydroxide (as CaCO ₃)	< 1.0	1.0 mg/L							
Conductivity (EC)	< 2.0	2.0 µS/cm							

APPENDIX 2: QUALITY CONTROL RESULTS

REPORTED TO PROJECT Regional District of Okanagan Similkameen
Keremeos - TLDW

CARO WO# 25D1649
REPORTED 2025-04-16 11:49

Analyte	Result	MRL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Notes
General Parameters, Batch B5D2984, Continued									
Blank (B5D2984-BLK2)				Prepared: 2025-04-15, Analyzed: 2025-04-15					
Alkalinity, Total (as CaCO ₃)	< 1.0	1.0 mg/L							
Alkalinity, Phenolphthalein (as CaCO ₃)	< 1.0	1.0 mg/L							
Alkalinity, Bicarbonate (as CaCO ₃)	< 1.0	1.0 mg/L							
Alkalinity, Carbonate (as CaCO ₃)	< 1.0	1.0 mg/L							
Alkalinity, Hydroxide (as CaCO ₃)	< 1.0	1.0 mg/L							
Conductivity (EC)	< 2.0	2.0 µS/cm							
LCS (B5D2984-BS1)				Prepared: 2025-04-15, Analyzed: 2025-04-15					
Alkalinity, Total (as CaCO ₃)	89.1	1.0 mg/L	100		89	80-120			
LCS (B5D2984-BS2)				Prepared: 2025-04-15, Analyzed: 2025-04-15					
Conductivity (EC)	1420	2.0 µS/cm	1410		100	95-105			
LCS (B5D2984-BS3)				Prepared: 2025-04-15, Analyzed: 2025-04-15					
Alkalinity, Total (as CaCO ₃)	89.8	1.0 mg/L	100		90	80-120			
LCS (B5D2984-BS4)				Prepared: 2025-04-15, Analyzed: 2025-04-15					
Conductivity (EC)	1410	2.0 µS/cm	1410		100	95-105			
Duplicate (B5D2984-DUP2)				Source: 25D1649-01		Prepared: 2025-04-15, Analyzed: 2025-04-15			
Alkalinity, Total (as CaCO ₃)	351	1.0 mg/L		354		< 1	10		
Alkalinity, Phenolphthalein (as CaCO ₃)	< 1.0	1.0 mg/L		< 1.0			10		
Alkalinity, Bicarbonate (as CaCO ₃)	351	1.0 mg/L		354		< 1	10		
Alkalinity, Carbonate (as CaCO ₃)	< 1.0	1.0 mg/L		< 1.0			10		
Alkalinity, Hydroxide (as CaCO ₃)	< 1.0	1.0 mg/L		< 1.0			10		
Conductivity (EC)	1170	2.0 µS/cm		1180		< 1	5		
pH	7.86	0.10 pH units		7.87		< 1	4		HT2
Reference (B5D2984-SRM1)				Prepared: 2025-04-15, Analyzed: 2025-04-15					
pH	7.03	0.10 pH units	7.01		100	98-102			
Reference (B5D2984-SRM2)				Prepared: 2025-04-15, Analyzed: 2025-04-15					
pH	7.03	0.10 pH units	7.01		100	98-102			
General Parameters, Batch B5D3037									
Blank (B5D3037-BLK1)				Prepared: 2025-04-15, Analyzed: 2025-04-15					
Ammonia, Total (as N)	< 0.050	0.050 mg/L							
Blank (B5D3037-BLK2)				Prepared: 2025-04-15, Analyzed: 2025-04-15					
Ammonia, Total (as N)	< 0.050	0.050 mg/L							
Blank (B5D3037-BLK3)				Prepared: 2025-04-15, Analyzed: 2025-04-15					
Ammonia, Total (as N)	< 0.050	0.050 mg/L							
Blank (B5D3037-BLK4)				Prepared: 2025-04-15, Analyzed: 2025-04-15					
Ammonia, Total (as N)	< 0.050	0.050 mg/L							
LCS (B5D3037-BS1)				Prepared: 2025-04-15, Analyzed: 2025-04-15					
Ammonia, Total (as N)	0.955	0.050 mg/L	1.00		96	85-115			
LCS (B5D3037-BS2)				Prepared: 2025-04-15, Analyzed: 2025-04-15					
Ammonia, Total (as N)	0.925	0.050 mg/L	1.00		92	85-115			
LCS (B5D3037-BS3)				Prepared: 2025-04-15, Analyzed: 2025-04-15					
Ammonia, Total (as N)	0.847	0.050 mg/L	1.00		85	85-115			

APPENDIX 2: QUALITY CONTROL RESULTS

REPORTED TO PROJECT Regional District of Okanagan Similkameen
Keremeos - TLDW

CARO WO# REPORTED 25D1649
2025-04-16 11:49

Analyte	Result	MRL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Notes

General Parameters, Batch B5D3037, Continued

LCS (B5D3037-BS4)			Prepared: 2025-04-15, Analyzed: 2025-04-15						
Ammonia, Total (as N)	0.875	0.050 mg/L	1.00		88	85-115			

General Parameters, Batch B5D3048

Blank (B5D3048-BLK1)			Prepared: 2025-04-16, Analyzed: 2025-04-16						
Chemical Oxygen Demand	< 20	20 mg/L							
Blank (B5D3048-BLK2)			Prepared: 2025-04-16, Analyzed: 2025-04-16						
Chemical Oxygen Demand	< 20	20 mg/L							
LCS (B5D3048-BS1)			Prepared: 2025-04-16, Analyzed: 2025-04-16						
Chemical Oxygen Demand	525	20 mg/L	500		105	89-115			
LCS (B5D3048-BS2)			Prepared: 2025-04-16, Analyzed: 2025-04-16						
Chemical Oxygen Demand	513	20 mg/L	500		103	89-115			

Microbiological Parameters, Batch B5D2745

Blank (B5D2745-BLK1)			Prepared: 2025-04-11, Analyzed: 2025-04-11						
Coliforms, Total	< 1	1 CFU/100 mL							
E. coli	< 1	1 CFU/100 mL							
Blank (B5D2745-BLK2)			Prepared: 2025-04-11, Analyzed: 2025-04-11						
Coliforms, Total	< 1	1 CFU/100 mL							
E. coli	< 1	1 CFU/100 mL							
Blank (B5D2745-BLK3)			Prepared: 2025-04-11, Analyzed: 2025-04-11						
Coliforms, Total	< 1	1 CFU/100 mL							
E. coli	< 1	1 CFU/100 mL							
Blank (B5D2745-BLK4)			Prepared: 2025-04-11, Analyzed: 2025-04-11						
Coliforms, Total	< 1	1 CFU/100 mL							
E. coli	< 1	1 CFU/100 mL							
Duplicate (B5D2745-DUP2)			Source: 25D1649-01		Prepared: 2025-04-11, Analyzed: 2025-04-11				
Coliforms, Total	< 1	1 CFU/100 mL		< 1				82	
E. coli	< 1	1 CFU/100 mL		< 1				104	

Total Metals, Batch B5D2875

Blank (B5D2875-BLK1)			Prepared: 2025-04-13, Analyzed: 2025-04-13						
Mercury, total	< 0.000010	0.000010 mg/L							
Blank (B5D2875-BLK2)			Prepared: 2025-04-13, Analyzed: 2025-04-13						
Mercury, total	< 0.000010	0.000010 mg/L							
Blank (B5D2875-BLK3)			Prepared: 2025-04-13, Analyzed: 2025-04-13						
Mercury, total	< 0.000010	0.000010 mg/L							
Blank (B5D2875-BLK4)			Prepared: 2025-04-13, Analyzed: 2025-04-13						
Mercury, total	< 0.000010	0.000010 mg/L							
LCS (B5D2875-BS1)			Prepared: 2025-04-13, Analyzed: 2025-04-13						
Mercury, total	0.00265	0.000010 mg/L	0.00250		106	80-120			

APPENDIX 2: QUALITY CONTROL RESULTS

REPORTED TO PROJECT Regional District of Okanagan Similkameen
Keremeos - TLDW

CARO WO# REPORTED 25D1649
2025-04-16 11:49

Analyte	Result	MRL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Notes
Total Metals, Batch B5D2875, Continued									
LCS (B5D2875-BS2)				Prepared: 2025-04-13, Analyzed: 2025-04-13					
Mercury, total	0.00250	0.000010 mg/L	0.00250		100	80-120			
LCS (B5D2875-BS3)				Prepared: 2025-04-13, Analyzed: 2025-04-13					
Mercury, total	0.00255	0.000010 mg/L	0.00250		102	80-120			
LCS (B5D2875-BS4)				Prepared: 2025-04-13, Analyzed: 2025-04-13					
Mercury, total	0.00253	0.000010 mg/L	0.00250		101	80-120			
Total Metals, Batch B5D2947									
Blank (B5D2947-BLK1)				Prepared: 2025-04-14, Analyzed: 2025-04-14					
Aluminum, total	< 0.0050	0.0050 mg/L							
Antimony, total	< 0.00020	0.00020 mg/L							
Arsenic, total	< 0.00050	0.00050 mg/L							
Barium, total	< 0.0050	0.0050 mg/L							
Beryllium, total	< 0.00010	0.00010 mg/L							
Bismuth, total	< 0.00010	0.00010 mg/L							
Boron, total	< 0.0500	0.0500 mg/L							
Cadmium, total	< 0.000010	0.000010 mg/L							
Calcium, total	< 0.20	0.20 mg/L							
Chromium, total	< 0.00050	0.00050 mg/L							
Cobalt, total	< 0.00010	0.00010 mg/L							
Copper, total	< 0.00040	0.00040 mg/L							
Iron, total	< 0.010	0.010 mg/L							
Lead, total	< 0.00020	0.00020 mg/L							
Lithium, total	< 0.00010	0.00010 mg/L							
Magnesium, total	< 0.010	0.010 mg/L							
Manganese, total	< 0.00020	0.00020 mg/L							
Molybdenum, total	< 0.00010	0.00010 mg/L							
Nickel, total	< 0.00040	0.00040 mg/L							
Phosphorus, total	< 0.050	0.050 mg/L							
Potassium, total	< 0.10	0.10 mg/L							
Selenium, total	< 0.00050	0.00050 mg/L							
Silicon, total	< 1.0	1.0 mg/L							
Silver, total	< 0.000050	0.000050 mg/L							
Sodium, total	< 0.10	0.10 mg/L							
Strontium, total	< 0.0010	0.0010 mg/L							
Sulfur, total	< 3.0	3.0 mg/L							
Tellurium, total	< 0.00050	0.00050 mg/L							
Thallium, total	< 0.000020	0.000020 mg/L							
Thorium, total	< 0.00010	0.00010 mg/L							
Tin, total	< 0.00020	0.00020 mg/L							
Titanium, total	< 0.0050	0.0050 mg/L							
Tungsten, total	< 0.0010	0.0010 mg/L							
Uranium, total	< 0.000020	0.000020 mg/L							
Vanadium, total	< 0.0050	0.0050 mg/L							
Zinc, total	< 0.0040	0.0040 mg/L							
Zirconium, total	< 0.00010	0.00010 mg/L							
LCS (B5D2947-BS1)				Prepared: 2025-04-14, Analyzed: 2025-04-14					
Aluminum, total	3.87	0.0050 mg/L	4.00		97	80-120			
Antimony, total	0.0373	0.00020 mg/L	0.0400		93	80-120			
Arsenic, total	0.387	0.00050 mg/L	0.400		97	80-120			
Barium, total	0.0398	0.0050 mg/L	0.0400		100	80-120			
Beryllium, total	0.0365	0.00010 mg/L	0.0400		91	80-120			
Bismuth, total	0.0395	0.00010 mg/L	0.0400		99	80-120			

APPENDIX 2: QUALITY CONTROL RESULTS

REPORTED TO PROJECT Regional District of Okanagan Similkameen
Keremeos - TLDW

CARO WO# 25D1649
REPORTED 2025-04-16 11:49

Analyte	Result	MRL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Notes
<i>Total Metals, Batch B5D2947, Continued</i>									
LCS (B5D2947-BS1), Continued					Prepared: 2025-04-14, Analyzed: 2025-04-14				
Boron, total	0.371	0.0500 mg/L	0.400		93	80-120			
Cadmium, total	0.0383	0.000010 mg/L	0.0400		96	80-120			
Calcium, total	3.92	0.20 mg/L	4.00		98	80-120			
Chromium, total	0.0390	0.00050 mg/L	0.0400		97	80-120			
Cobalt, total	0.0392	0.00010 mg/L	0.0400		98	80-120			
Copper, total	0.0388	0.00040 mg/L	0.0400		97	80-120			
Iron, total	3.95	0.010 mg/L	4.00		99	80-120			
Lead, total	0.0392	0.00020 mg/L	0.0400		98	80-120			
Lithium, total	0.0379	0.00010 mg/L	0.0400		95	80-120			
Magnesium, total	3.80	0.010 mg/L	4.00		95	80-120			
Manganese, total	0.0389	0.00020 mg/L	0.0400		97	80-120			
Molybdenum, total	0.0383	0.00010 mg/L	0.0400		96	80-120			
Nickel, total	0.0385	0.00040 mg/L	0.0400		96	80-120			
Phosphorus, total	3.84	0.050 mg/L	4.00		96	80-120			
Potassium, total	3.89	0.10 mg/L	4.00		97	80-120			
Selenium, total	0.375	0.00050 mg/L	0.400		94	80-120			
Silicon, total	3.9	1.0 mg/L	4.00		97	80-120			
Silver, total	0.0381	0.000050 mg/L	0.0400		95	80-120			
Sodium, total	4.05	0.10 mg/L	4.00		101	80-120			
Strontium, total	0.0392	0.0010 mg/L	0.0400		98	80-120			
Sulfur, total	38.4	3.0 mg/L	40.0		96	80-120			
Tellurium, total	0.0372	0.00050 mg/L	0.0400		93	80-120			
Thallium, total	0.0390	0.000020 mg/L	0.0400		97	80-120			
Thorium, total	0.0390	0.00010 mg/L	0.0400		97	80-120			
Tin, total	0.0392	0.00020 mg/L	0.0400		98	80-120			
Titanium, total	0.0379	0.0050 mg/L	0.0400		95	80-120			
Tungsten, total	0.0394	0.0010 mg/L	0.0400		98	80-120			
Uranium, total	0.0412	0.000020 mg/L	0.0400		103	80-120			
Vanadium, total	0.0392	0.0050 mg/L	0.0400		98	80-120			
Zinc, total	0.382	0.0040 mg/L	0.400		96	80-120			
Zirconium, total	0.0383	0.00010 mg/L	0.0400		96	80-120			

QC Qualifiers:

HT2 The 15 minute recommended holding time (from sampling to analysis) has been exceeded - field analysis is recommended.

CERTIFICATE OF ANALYSIS

REPORTED TO Regional District of Okanagan Similkameen
101 Martin Street
Penticton, BC V2A 5J9

ATTENTION Rob Palmer

PO NUMBER TLGW

PROJECT Keremeos - TLGW

PROJECT INFO

WORK ORDER 25D1735

RECEIVED / TEMP 2025-04-11 11:20 / 5.3°C

REPORTED 2025-05-27 15:56

COC NUMBER eCOC#00022408

Introduction:

CARO Analytical Services is a testing laboratory full of smart, engaged scientists driven to make the world a safer and healthier place. Through our clients' projects we become an essential element for a better world. We employ methods conducted in accordance with recognized professional standards using accepted testing methodologies and quality control efforts. CARO is accredited by the Canadian Association for Laboratories Accreditation (CALA) to ISO/IEC 17025:2017 for specific tests listed in the scope of accreditation approved by CALA.

Big Picture Sidekicks



You know that the sample you collected after snowshoeing to site, digging 5 meters, and racing to get it on a plane so you can submit it to the lab for time sensitive results needed to make important and expensive decisions (whew) is VERY important. We know that too.

We've Got Chemistry



It's simple. We figure the more you enjoy working with our fun and engaged team members; the more likely you are to give us continued opportunities to support you.

Ahead of the Curve



Through research, regulation knowledge, and instrumentation, we are your analytical centre for the technical knowledge you need, BEFORE you need it, so you can stay up to date and in the know.

Work Order Comments:

Custody Seals Intact: N/A

This is a revised report; please refer to Appendix 3 for details.

By engaging our services, you are agreeing to CARO Analytical Service's Standard Terms and Conditions outlined here:
<https://www.caro.ca/terms-conditions>

If you have any questions or concerns, please contact me at hhannaoui@caro.ca

Authorized By:

Hanane El Hannaoui
Junior Account Manager

1-888-311-8846 | www.caro.ca

#110 4011 Viking Way Richmond, BC V6V 2K9 | #102 3677 Highway 97N Kelowna, BC V1X 5C3 | 17225 109 Avenue Edmonton, AB T5S 1H7 |
#108 4475 Wayburne Drive Burnaby, BC V5G 4X4

TEST RESULTS

REPORTED TO PROJECT Regional District of Okanagan Similkameen
Keremeos - TLGW

WORK ORDER REPORTED 25D1735
2025-05-27 15:56

Analyte	Result	Guideline	RL Units	Analyzed	Qualifier
MW 24-03 (25D1735-01) Matrix: Ground Water Sampled: 2025-04-10 12:10					
Anions					
Bromide	< 0.10	N/A	0.10 mg/L	2025-04-13	
Chloride	22.8	AO ≤ 250	0.10 mg/L	2025-04-13	
Fluoride	< 0.10	MAC = 1.5	0.10 mg/L	2025-04-13	
Nitrate (as N)	5.19	MAC = 10	0.010 mg/L	2025-04-13	
Nitrite (as N)	< 0.010	MAC = 1	0.010 mg/L	2025-04-13	
Sulfate	235	AO ≤ 500	1.0 mg/L	2025-04-13	
Calculated Parameters					
Bicarbonate (HCO ₃)	433	N/A	1.22 mg/L	N/A	
Carbonate (CO ₃)	< 0.600	N/A	0.600 mg/L	N/A	
Hydroxide (OH)	< 0.340	N/A	0.340 mg/L	N/A	
Hardness, Dissolved (as CaCO ₃)	628	N/A	0.500 mg/L	N/A	
Nitrate+Nitrite (as N)	5.19	N/A	0.0100 mg/L	N/A	
Dissolved Metals					
Aluminum, dissolved	< 0.0050	N/A	0.0050 mg/L	2025-04-15	
Antimony, dissolved	< 0.00020	N/A	0.00020 mg/L	2025-04-15	
Arsenic, dissolved	0.00103	N/A	0.00050 mg/L	2025-04-15	
Barium, dissolved	0.0683	N/A	0.0050 mg/L	2025-04-15	
Beryllium, dissolved	< 0.00010	N/A	0.00010 mg/L	2025-04-15	
Bismuth, dissolved	< 0.00010	N/A	0.00010 mg/L	2025-04-15	
Boron, dissolved	< 0.0500	N/A	0.0500 mg/L	2025-04-15	
Cadmium, dissolved	0.000034	N/A	0.000010 mg/L	2025-04-15	
Calcium, dissolved	116	N/A	0.20 mg/L	2025-04-15	
Chromium, dissolved	0.00278	N/A	0.00050 mg/L	2025-04-15	
Cobalt, dissolved	< 0.00010	N/A	0.00010 mg/L	2025-04-15	
Copper, dissolved	< 0.00040	N/A	0.00040 mg/L	2025-04-15	
Iron, dissolved	< 0.010	N/A	0.010 mg/L	2025-04-15	
Lead, dissolved	< 0.00020	N/A	0.00020 mg/L	2025-04-15	
Lithium, dissolved	0.0162	N/A	0.00010 mg/L	2025-04-15	
Magnesium, dissolved	82.0	N/A	0.010 mg/L	2025-04-15	
Manganese, dissolved	0.00033	N/A	0.00020 mg/L	2025-04-15	
Mercury, dissolved	< 0.000010	N/A	0.000010 mg/L	2025-04-15	
Molybdenum, dissolved	0.00282	N/A	0.00010 mg/L	2025-04-15	
Nickel, dissolved	0.00101	N/A	0.00040 mg/L	2025-04-15	
Phosphorus, dissolved	< 0.050	N/A	0.050 mg/L	2025-04-15	
Potassium, dissolved	4.31	N/A	0.10 mg/L	2025-04-15	
Selenium, dissolved	0.00679	N/A	0.00050 mg/L	2025-04-15	
Silicon, dissolved	11.3	N/A	1.0 mg/L	2025-04-15	
Silver, dissolved	< 0.000050	N/A	0.000050 mg/L	2025-04-15	
Sodium, dissolved	33.4	N/A	0.10 mg/L	2025-04-15	
Strontium, dissolved	1.24	N/A	0.0010 mg/L	2025-04-15	
Sulfur, dissolved	83.6	N/A	3.0 mg/L	2025-04-15	
Tellurium, dissolved	< 0.00050	N/A	0.00050 mg/L	2025-04-15	

TEST RESULTS

REPORTED TO PROJECT Regional District of Okanagan Similkameen
Keremeos - TLGW

WORK ORDER REPORTED 25D1735
2025-05-27 15:56

Analyte	Result	Guideline	RL	Units	Analyzed	Qualifier

MW 24-03 (25D1735-01) | Matrix: Ground Water | Sampled: 2025-04-10 12:10, Continued

Dissolved Metals, Continued

Thallium, dissolved	< 0.000020	N/A	0.000020	mg/L	2025-04-15	
Thorium, dissolved	< 0.00010	N/A	0.00010	mg/L	2025-04-15	
Tin, dissolved	< 0.00020	N/A	0.00020	mg/L	2025-04-15	
Titanium, dissolved	< 0.0050	N/A	0.0050	mg/L	2025-04-15	
Tungsten, dissolved	< 0.0010	N/A	0.0010	mg/L	2025-04-15	
Uranium, dissolved	0.00796	N/A	0.000020	mg/L	2025-04-15	
Vanadium, dissolved	< 0.0050	N/A	0.0050	mg/L	2025-04-15	
Zinc, dissolved	< 0.0040	N/A	0.0040	mg/L	2025-04-15	
Zirconium, dissolved	< 0.00010	N/A	0.00010	mg/L	2025-04-15	

General Parameters

Alkalinity, Total (as CaCO ₃)	355	N/A	1.0	mg/L	2025-04-16	
Alkalinity, Phenolphthalein (as CaCO ₃)	< 1.0	N/A	1.0	mg/L	2025-04-16	
Alkalinity, Bicarbonate (as CaCO ₃)	355	N/A	1.0	mg/L	2025-04-16	
Alkalinity, Carbonate (as CaCO ₃)	< 1.0	N/A	1.0	mg/L	2025-04-16	
Alkalinity, Hydroxide (as CaCO ₃)	< 1.0	N/A	1.0	mg/L	2025-04-16	
Ammonia, Total (as N)	< 0.050	None Required	0.050	mg/L	2025-04-15	
Chemical Oxygen Demand	23	N/A	20	mg/L	2025-04-19	
Conductivity (EC)	1180	N/A	2.0	µS/cm	2025-04-16	
pH	7.99	7.0-10.5	0.10	pH units	2025-04-16	HT2

Total Metals

Aluminum, total	< 0.0050	OG < 0.1	0.0050	mg/L	2025-04-16	
Antimony, total	< 0.00020	MAC = 0.006	0.00020	mg/L	2025-04-16	
Arsenic, total	0.00112	MAC = 0.01	0.00050	mg/L	2025-04-16	
Barium, total	0.0726	MAC = 2	0.0050	mg/L	2025-04-16	
Beryllium, total	< 0.00010	N/A	0.00010	mg/L	2025-04-16	
Bismuth, total	< 0.00010	N/A	0.00010	mg/L	2025-04-16	
Boron, total	< 0.0500	MAC = 5	0.0500	mg/L	2025-04-16	
Cadmium, total	0.000044	MAC = 0.007	0.000010	mg/L	2025-04-16	
Calcium, total	125	None Required	0.20	mg/L	2025-04-16	
Chromium, total	0.00295	MAC = 0.05	0.00050	mg/L	2025-04-16	
Cobalt, total	< 0.00010	N/A	0.00010	mg/L	2025-04-16	
Copper, total	< 0.00040	MAC = 2	0.00040	mg/L	2025-04-16	
Iron, total	< 0.010	AO ≤ 0.1	0.010	mg/L	2025-04-16	
Lead, total	< 0.00020	MAC = 0.005	0.00020	mg/L	2025-04-16	
Lithium, total	0.0150	N/A	0.00010	mg/L	2025-04-16	
Magnesium, total	78.5	None Required	0.010	mg/L	2025-04-16	
Manganese, total	0.00056	MAC = 0.12	0.00020	mg/L	2025-04-16	
Mercury, total	< 0.000010	MAC = 0.001	0.000010	mg/L	2025-04-15	
Molybdenum, total	0.00323	N/A	0.00010	mg/L	2025-04-16	
Nickel, total	0.00108	N/A	0.00040	mg/L	2025-04-16	
Phosphorus, total	< 0.050	N/A	0.050	mg/L	2025-04-16	
Potassium, total	4.42	N/A	0.10	mg/L	2025-04-16	

TEST RESULTS

REPORTED TO PROJECT Regional District of Okanagan Similkameen
Keremeos - TLGW

WORK ORDER REPORTED 25D1735
2025-05-27 15:56

Analyte	Result	Guideline	RL	Units	Analyzed	Qualifier
MW 24-03 (25D1735-01) Matrix: Ground Water Sampled: 2025-04-10 12:10, Continued						
<i>Total Metals, Continued</i>						
Selenium, total	0.00688	MAC = 0.05	0.00050	mg/L	2025-04-16	
Silicon, total	11.5	N/A	1.0	mg/L	2025-04-16	
Silver, total	< 0.000050	None Required	0.000050	mg/L	2025-04-16	
Sodium, total	33.4	AO ≤ 200	0.10	mg/L	2025-04-16	
Strontium, total	1.32	MAC = 7	0.0010	mg/L	2025-04-16	
Sulfur, total	93.8	N/A	3.0	mg/L	2025-04-16	
Tellurium, total	< 0.00050	N/A	0.00050	mg/L	2025-04-16	
Thallium, total	< 0.000020	N/A	0.000020	mg/L	2025-04-16	
Thorium, total	< 0.00010	N/A	0.00010	mg/L	2025-04-16	
Tin, total	< 0.00020	N/A	0.00020	mg/L	2025-04-16	
Titanium, total	< 0.0050	N/A	0.0050	mg/L	2025-04-16	
Tungsten, total	< 0.0010	N/A	0.0010	mg/L	2025-04-16	
Uranium, total	0.00828	MAC = 0.02	0.000020	mg/L	2025-04-16	
Vanadium, total	< 0.0050	N/A	0.0050	mg/L	2025-04-16	
Zinc, total	< 0.0040	AO ≤ 5	0.0040	mg/L	2025-04-16	
Zirconium, total	< 0.00010	N/A	0.00010	mg/L	2025-04-16	

Sample Qualifiers:

HT2 The 15 minute recommended holding time (from sampling to analysis) has been exceeded - field analysis is recommended.

APPENDIX 1: SUPPORTING INFORMATION

REPORTED TO PROJECT Regional District of Okanagan Similkameen
Keremeos - TLGW

WORK ORDER REPORTED 25D1735
2025-05-27 15:56

Analysis Description	Method Ref.	Technique	Accredited	Location
Alkalinity in Water	SM 2320 B* (2021)	Titration with H2SO4	✓	Kelowna
Ammonia, Total in Water	SM 4500-NH3 G* (2021)	Automated Colorimetry (Phenate)	✓	Kelowna
Anions in Water	SM 4110 B (2020)	Ion Chromatography	✓	Kelowna
Chemical Oxygen Demand in Water	SM 5220 D* (2022)	Closed Reflux, Colorimetry	✓	Kelowna
Conductivity in Water	SM 2510 B (2021)	Conductivity Meter	✓	Kelowna
Dissolved Metals in Water	EPA 200.8 / EPA 6020B	0.45 µm Filtration / Inductively Coupled Plasma-Mass Spectroscopy (ICP-MS)	✓	Richmond
Hardness in Water	SM 2340 B (2021)	Calculation: 2.497 [diss Ca] + 4.118 [diss Mg]	✓	N/A
Hardness in Water	SM 2340 B* (2021)	Calculation: 2.497 [total Ca] + 4.118 [total Mg] (Est)	✓	N/A
Mercury, dissolved in Water	EPA 245.7*	BrCl2 Oxidation / Cold Vapor Atomic Fluorescence Spectrometry (CVAFS)	✓	Richmond
Mercury, total in Water	EPA 245.7*	BrCl2 Oxidation / Cold Vapor Atomic Fluorescence Spectrometry (CVAFS)	✓	Richmond
pH in Water	SM 4500-H+ B (2021)	Electrometry	✓	Kelowna
Total Metals in Water	EPA 200.2 / EPA 6020B	HNO3+HCl Hot Block Digestion / Inductively Coupled Plasma-Mass Spectroscopy (ICP-MS)	✓	Richmond

Note: An asterisk in the Method Reference indicates that the CARO method has been modified from the reference method

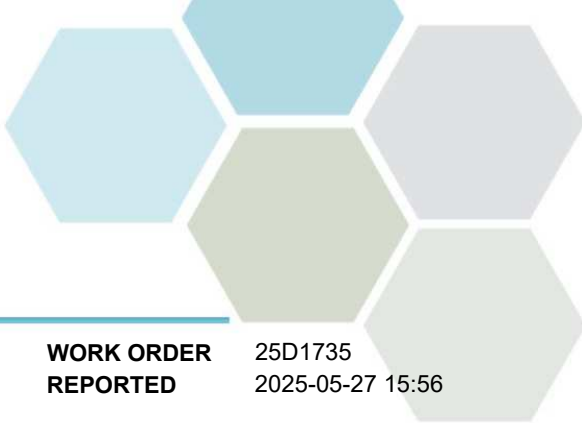
Glossary of Terms:

RL	Reporting Limit (default)
<	Less than the specified Reporting Limit (RL) - the actual RL may be higher than the default RL due to various factors
AO	Aesthetic Objective
MAC	Maximum Acceptable Concentration (health based)
mg/L	Milligrams per litre
OG	Operational Guideline (treated water)
pH units	pH < 7 = acidic, pH > 7 = basic
µS/cm	Microsiemens per centimetre
EPA	United States Environmental Protection Agency Test Methods
SM	Standard Methods for the Examination of Water and Wastewater, American Public Health Association

Guidelines Referenced in this Report:

[Guidelines for Canadian Drinking Water Quality \(Health Canada, September 2022\)](#)

Note: In some cases, the values displayed on the report represent the lowest guideline and are to be verified by the end user



APPENDIX 1: SUPPORTING INFORMATION

REPORTED TO PROJECT	Regional District of Okanagan Similkameen Keremeos - TLGW	WORK ORDER REPORTED	25D1735 2025-05-27 15:56

General Comments:
 The results in this report apply to the received samples analyzed in accordance with the Chain of Custody document. This analytical report must be reproduced in its entirety. CARO is not responsible for any loss or damage resulting directly or indirectly from error or omission in the conduct of testing. Liability is limited to the cost of analysis. Caro will dispose of all samples within 30 days of sample receipt, unless otherwise agreed.

Results in **Bold** indicate values that are above CARO's method reporting limits. Any results that are above regulatory limits are highlighted **red**. Please note that results will only be highlighted red if the regulatory limits are included on the CARO report. Any Bold and/or highlighted results do not take into account method uncertainty. If you would like method uncertainty or regulatory limits to be included on your report, please contact your Account Manager: hhannaoui@caro.ca

Please note any regulatory guidelines applied to this report are added as a convenience to the client, at their request, to help provide some initial context to analytical results obtained. Although CARO makes every effort to ensure accuracy of the associated regulatory guideline(s) applied, the guidelines applied cannot be assumed to be correct due to a variety of factors and as such CARO Analytical Services assumes no liability or responsibility for the use of those guidelines to make any decisions. The original source of the regulation should be verified and a review of the guideline(s) should be validated as correct in order to make any decisions arising from the comparison of the analytical data obtained to the relevant regulatory guideline for one's particular circumstances. Further, CARO Analytical Services assumes no liability or responsibility for any loss attributed from the use of these guidelines in any way.

APPENDIX 2: QUALITY CONTROL RESULTS

REPORTED TO PROJECT Regional District of Okanagan Similkameen
Keremeos - TLGW

WORK ORDER REPORTED 25D1735
2025-05-27 15:56

The following section displays the quality control (QC) data that is associated with your sample data. Groups of samples are prepared in "batches" and analyzed in conjunction with QC samples that ensure your data is of the highest quality. Common QC types include:

- **Method Blank (BLK):** A blank sample that undergoes sample processing identical to that carried out for the test samples. Method blank results are used to assess contamination from the laboratory environment and reagents.
- **Duplicate (Dup):** An additional or second portion of a randomly selected sample in the analytical run carried through the entire analytical process. Duplicates provide a measure of the analytical method's precision (reproducibility).
- **Blank Spike (BS):** A sample of known concentration which undergoes processing identical to that carried out for test samples, also referred to as a laboratory control sample (LCS). Blank spikes provide a measure of the analytical method's accuracy.
- **Matrix Spike (MS):** A second aliquot of sample is fortified with a known concentration of target analytes and carried through the entire analytical process. Matrix spikes evaluate potential matrix effects that may affect the analyte recovery.
- **Reference Material (SRM):** A homogenous material of similar matrix to the samples, certified for the parameter(s) listed. Reference Materials ensure that the analytical process is adequate to achieve acceptable recoveries of the parameter(s) tested.

Each QC type is analyzed at a 5-10% frequency, i.e. one blank/duplicate/spike for every 10-20 samples. For all types of QC, the specified recovery (% Rec) and relative percent difference (RPD) limits are derived from long-term method performance averages and/or prescribed by the reference method.

Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
Anions, Batch B5D2828									
Blank (B5D2828-BLK1)					Prepared: 2025-04-12, Analyzed: 2025-04-12				
Bromide	< 0.10	0.10 mg/L							
Chloride	< 0.10	0.10 mg/L							
Fluoride	< 0.10	0.10 mg/L							
Nitrate (as N)	< 0.010	0.010 mg/L							
Nitrite (as N)	< 0.010	0.010 mg/L							
Sulfate	< 1.0	1.0 mg/L							
Blank (B5D2828-BLK2)					Prepared: 2025-04-13, Analyzed: 2025-04-13				
Bromide	< 0.10	0.10 mg/L							
Chloride	< 0.10	0.10 mg/L							
Fluoride	< 0.10	0.10 mg/L							
Nitrate (as N)	< 0.010	0.010 mg/L							
Nitrite (as N)	< 0.010	0.010 mg/L							
Sulfate	< 1.0	1.0 mg/L							
LCS (B5D2828-BS1)					Prepared: 2025-04-12, Analyzed: 2025-04-12				
Bromide	3.89	0.10 mg/L	4.00		97	85-115			
Chloride	15.7	0.10 mg/L	16.0		98	90-110			
Fluoride	3.98	0.10 mg/L	4.00		100	88-108			
Nitrate (as N)	3.98	0.010 mg/L	4.00		100	90-110			
Nitrite (as N)	1.97	0.010 mg/L	2.00		99	85-115			
Sulfate	15.9	1.0 mg/L	16.0		99	90-110			
LCS (B5D2828-BS2)					Prepared: 2025-04-13, Analyzed: 2025-04-13				
Bromide	3.88	0.10 mg/L	4.00		97	85-115			
Chloride	15.8	0.10 mg/L	16.0		99	90-110			
Fluoride	3.91	0.10 mg/L	4.00		98	88-108			
Nitrate (as N)	3.99	0.010 mg/L	4.00		100	90-110			
Nitrite (as N)	1.97	0.010 mg/L	2.00		99	85-115			
Sulfate	15.9	1.0 mg/L	16.0		100	90-110			

Dissolved Metals, Batch B5D3050

Blank (B5D3050-BLK1)					Prepared: 2025-04-15, Analyzed: 2025-04-15				
Aluminum, dissolved	< 0.0050	0.0050 mg/L							
Antimony, dissolved	< 0.00020	0.00020 mg/L							

APPENDIX 2: QUALITY CONTROL RESULTS

REPORTED TO PROJECT Regional District of Okanagan Similkameen
Keremeos - TLGW

WORK ORDER REPORTED 25D1735
2025-05-27 15:56

Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier

Dissolved Metals, Batch B5D3050, Continued

Blank (B5D3050-BLK1), Continued

Prepared: 2025-04-15, Analyzed: 2025-04-15

Arsenic, dissolved	< 0.00050	0.00050 mg/L							
Barium, dissolved	< 0.0050	0.0050 mg/L							
Beryllium, dissolved	< 0.00010	0.00010 mg/L							
Bismuth, dissolved	< 0.00010	0.00010 mg/L							
Boron, dissolved	< 0.0500	0.0500 mg/L							
Cadmium, dissolved	< 0.000010	0.000010 mg/L							
Calcium, dissolved	< 0.20	0.20 mg/L							
Chromium, dissolved	< 0.00050	0.00050 mg/L							
Cobalt, dissolved	< 0.00010	0.00010 mg/L							
Copper, dissolved	< 0.00040	0.00040 mg/L							
Iron, dissolved	< 0.010	0.010 mg/L							
Lead, dissolved	< 0.00020	0.00020 mg/L							
Lithium, dissolved	< 0.00010	0.00010 mg/L							
Magnesium, dissolved	< 0.010	0.010 mg/L							
Manganese, dissolved	< 0.00020	0.00020 mg/L							
Molybdenum, dissolved	< 0.00010	0.00010 mg/L							
Nickel, dissolved	< 0.00040	0.00040 mg/L							
Phosphorus, dissolved	< 0.050	0.050 mg/L							
Potassium, dissolved	< 0.10	0.10 mg/L							
Selenium, dissolved	< 0.00050	0.00050 mg/L							
Silicon, dissolved	< 1.0	1.0 mg/L							
Silver, dissolved	< 0.000050	0.000050 mg/L							
Sodium, dissolved	< 0.10	0.10 mg/L							
Strontium, dissolved	< 0.0010	0.0010 mg/L							
Sulfur, dissolved	< 3.0	3.0 mg/L							
Tellurium, dissolved	< 0.00050	0.00050 mg/L							
Thallium, dissolved	< 0.000020	0.000020 mg/L							
Thorium, dissolved	< 0.00010	0.00010 mg/L							
Tin, dissolved	< 0.00020	0.00020 mg/L							
Titanium, dissolved	< 0.0050	0.0050 mg/L							
Tungsten, dissolved	< 0.0010	0.0010 mg/L							
Uranium, dissolved	< 0.000020	0.000020 mg/L							
Vanadium, dissolved	< 0.0050	0.0050 mg/L							
Zinc, dissolved	< 0.0040	0.0040 mg/L							
Zirconium, dissolved	< 0.00010	0.00010 mg/L							

LCS (B5D3050-BS1)

Prepared: 2025-04-15, Analyzed: 2025-04-15

Aluminum, dissolved	4.12	0.0050 mg/L	4.00		103	80-120
Antimony, dissolved	0.0417	0.00020 mg/L	0.0400		104	80-120
Arsenic, dissolved	0.408	0.00050 mg/L	0.400		102	80-120
Barium, dissolved	0.0423	0.0050 mg/L	0.0400		106	80-120
Beryllium, dissolved	0.0428	0.00010 mg/L	0.0400		107	80-120
Bismuth, dissolved	0.0416	0.00010 mg/L	0.0400		104	80-120
Boron, dissolved	0.416	0.0500 mg/L	0.400		104	80-120
Cadmium, dissolved	0.0412	0.000010 mg/L	0.0400		103	80-120
Calcium, dissolved	4.06	0.20 mg/L	4.00		102	80-120
Chromium, dissolved	0.0415	0.00050 mg/L	0.0400		104	80-120
Cobalt, dissolved	0.0406	0.00010 mg/L	0.0400		102	80-120
Copper, dissolved	0.0404	0.00040 mg/L	0.0400		101	80-120
Iron, dissolved	4.02	0.010 mg/L	4.00		100	80-120
Lead, dissolved	0.0418	0.00020 mg/L	0.0400		105	80-120
Lithium, dissolved	0.0440	0.00010 mg/L	0.0400		110	80-120
Magnesium, dissolved	4.08	0.010 mg/L	4.00		102	80-120
Manganese, dissolved	0.0403	0.00020 mg/L	0.0400		101	80-120
Molybdenum, dissolved	0.0415	0.00010 mg/L	0.0400		104	80-120
Nickel, dissolved	0.0409	0.00040 mg/L	0.0400		102	80-120

APPENDIX 2: QUALITY CONTROL RESULTS

REPORTED TO PROJECT Regional District of Okanagan Similkameen
Keremeos - TLGW

WORK ORDER REPORTED 25D1735
2025-05-27 15:56

Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier

Dissolved Metals, Batch B5D3050, Continued

LCS (B5D3050-BS1), Continued			Prepared: 2025-04-15, Analyzed: 2025-04-15						
Phosphorus, dissolved	4.12	0.050 mg/L	4.00		103	80-120			
Potassium, dissolved	4.10	0.10 mg/L	4.00		103	80-120			
Selenium, dissolved	0.396	0.00050 mg/L	0.400		99	80-120			
Silicon, dissolved	4.1	1.0 mg/L	4.00		103	80-120			
Silver, dissolved	0.0412	0.000050 mg/L	0.0400		103	80-120			
Sodium, dissolved	4.08	0.10 mg/L	4.00		102	80-120			
Strontium, dissolved	0.0414	0.0010 mg/L	0.0400		103	80-120			
Sulfur, dissolved	43.7	3.0 mg/L	40.0		109	80-120			
Tellurium, dissolved	0.0401	0.00050 mg/L	0.0400		100	80-120			
Thallium, dissolved	0.0403	0.000020 mg/L	0.0400		101	80-120			
Thorium, dissolved	0.0406	0.00010 mg/L	0.0400		102	80-120			
Tin, dissolved	0.0416	0.00020 mg/L	0.0400		104	80-120			
Titanium, dissolved	0.0414	0.0050 mg/L	0.0400		103	80-120			
Tungsten, dissolved	0.0411	0.0010 mg/L	0.0400		103	80-120			
Uranium, dissolved	0.0412	0.000020 mg/L	0.0400		103	80-120			
Vanadium, dissolved	0.0413	0.0050 mg/L	0.0400		103	80-120			
Zinc, dissolved	0.410	0.0040 mg/L	0.400		102	80-120			
Zirconium, dissolved	0.0415	0.00010 mg/L	0.0400		104	80-120			

Dissolved Metals, Batch B5D3076

Blank (B5D3076-BLK1)			Prepared: 2025-04-15, Analyzed: 2025-04-15						
Mercury, dissolved	< 0.000010	0.000010 mg/L							
Blank (B5D3076-BLK2)			Prepared: 2025-04-15, Analyzed: 2025-04-15						
Mercury, dissolved	< 0.000010	0.000010 mg/L							
LCS (B5D3076-BS1)			Prepared: 2025-04-15, Analyzed: 2025-04-15						
Mercury, dissolved	0.00241	0.000010 mg/L	0.00250		97	80-120			
LCS (B5D3076-BS2)			Prepared: 2025-04-15, Analyzed: 2025-04-15						
Mercury, dissolved	0.00245	0.000010 mg/L	0.00250		98	80-120			
Matrix Spike (B5D3076-MS1)			Source: 25D1735-01		Prepared: 2025-04-15, Analyzed: 2025-04-15				
Mercury, dissolved	0.00203	0.000010 mg/L	0.00250	< 0.000010	81	70-130			

General Parameters, Batch B5D3037

Blank (B5D3037-BLK1)			Prepared: 2025-04-15, Analyzed: 2025-04-15						
Ammonia, Total (as N)	< 0.050	0.050 mg/L							
Blank (B5D3037-BLK2)			Prepared: 2025-04-15, Analyzed: 2025-04-15						
Ammonia, Total (as N)	< 0.050	0.050 mg/L							
Blank (B5D3037-BLK3)			Prepared: 2025-04-15, Analyzed: 2025-04-15						
Ammonia, Total (as N)	< 0.050	0.050 mg/L							
Blank (B5D3037-BLK4)			Prepared: 2025-04-15, Analyzed: 2025-04-15						
Ammonia, Total (as N)	< 0.050	0.050 mg/L							
LCS (B5D3037-BS1)			Prepared: 2025-04-15, Analyzed: 2025-04-15						
Ammonia, Total (as N)	0.955	0.050 mg/L	1.00		96	85-115			
LCS (B5D3037-BS2)			Prepared: 2025-04-15, Analyzed: 2025-04-15						
Ammonia, Total (as N)	0.925	0.050 mg/L	1.00		92	85-115			

APPENDIX 2: QUALITY CONTROL RESULTS

REPORTED TO PROJECT Regional District of Okanagan Similkameen
Keremeos - TLGW

WORK ORDER REPORTED 25D1735
2025-05-27 15:56

Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier

General Parameters, Batch B5D3037, Continued

LCS (B5D3037-BS3)			Prepared: 2025-04-15, Analyzed: 2025-04-15						
Ammonia, Total (as N)	0.847	0.050 mg/L	1.00		85	85-115			
LCS (B5D3037-BS4)			Prepared: 2025-04-15, Analyzed: 2025-04-15						
Ammonia, Total (as N)	0.875	0.050 mg/L	1.00		88	85-115			

General Parameters, Batch B5D3176

Blank (B5D3176-BLK1)			Prepared: 2025-04-16, Analyzed: 2025-04-16						
Alkalinity, Total (as CaCO ₃)	< 1.0	1.0 mg/L							
Alkalinity, Phenolphthalein (as CaCO ₃)	< 1.0	1.0 mg/L							
Alkalinity, Bicarbonate (as CaCO ₃)	< 1.0	1.0 mg/L							
Alkalinity, Carbonate (as CaCO ₃)	< 1.0	1.0 mg/L							
Alkalinity, Hydroxide (as CaCO ₃)	< 1.0	1.0 mg/L							
Conductivity (EC)	< 2.0	2.0 µS/cm							
Blank (B5D3176-BLK2)			Prepared: 2025-04-16, Analyzed: 2025-04-16						
Alkalinity, Total (as CaCO ₃)	< 1.0	1.0 mg/L							
Alkalinity, Phenolphthalein (as CaCO ₃)	< 1.0	1.0 mg/L							
Alkalinity, Bicarbonate (as CaCO ₃)	< 1.0	1.0 mg/L							
Alkalinity, Carbonate (as CaCO ₃)	< 1.0	1.0 mg/L							
Alkalinity, Hydroxide (as CaCO ₃)	< 1.0	1.0 mg/L							
Conductivity (EC)	< 2.0	2.0 µS/cm							
LCS (B5D3176-BS1)			Prepared: 2025-04-16, Analyzed: 2025-04-16						
Alkalinity, Total (as CaCO ₃)	92.4	1.0 mg/L	100		92	80-120			
LCS (B5D3176-BS2)			Prepared: 2025-04-16, Analyzed: 2025-04-16						
Conductivity (EC)	1410	2.0 µS/cm	1410		100	95-105			
LCS (B5D3176-BS3)			Prepared: 2025-04-16, Analyzed: 2025-04-16						
Alkalinity, Total (as CaCO ₃)	89.6	1.0 mg/L	100		90	80-120			
LCS (B5D3176-BS4)			Prepared: 2025-04-16, Analyzed: 2025-04-16						
Conductivity (EC)	1410	2.0 µS/cm	1410		100	95-105			
Reference (B5D3176-SRM1)			Prepared: 2025-04-16, Analyzed: 2025-04-16						
pH	7.02	0.10 pH units	7.01		100	98-102			
Reference (B5D3176-SRM2)			Prepared: 2025-04-16, Analyzed: 2025-04-16						
pH	6.99	0.10 pH units	7.01		100	98-102			

General Parameters, Batch B5D3424

Blank (B5D3424-BLK1)			Prepared: 2025-04-19, Analyzed: 2025-04-19						
Chemical Oxygen Demand	< 20	20 mg/L							
LCS (B5D3424-BS1)			Prepared: 2025-04-19, Analyzed: 2025-04-19						
Chemical Oxygen Demand	523	20 mg/L	500		105	89-115			

Total Metals, Batch B5D3049

Blank (B5D3049-BLK1)			Prepared: 2025-04-15, Analyzed: 2025-04-15						
Aluminum, total	< 0.0050	0.0050 mg/L							
Antimony, total	< 0.00020	0.00020 mg/L							
Arsenic, total	< 0.00050	0.00050 mg/L							
Barium, total	< 0.0050	0.0050 mg/L							

APPENDIX 2: QUALITY CONTROL RESULTS

REPORTED TO PROJECT Regional District of Okanagan Similkameen
Keremeos - TLGW

WORK ORDER REPORTED 25D1735
2025-05-27 15:56

Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier

Total Metals, Batch B5D3049, Continued

Blank (B5D3049-BLK1), Continued

Prepared: 2025-04-15, Analyzed: 2025-04-15

Beryllium, total	< 0.00010	0.00010 mg/L							
Bismuth, total	< 0.00010	0.00010 mg/L							
Boron, total	< 0.0500	0.0500 mg/L							
Cadmium, total	< 0.000010	0.000010 mg/L							
Calcium, total	< 0.20	0.20 mg/L							
Chromium, total	< 0.00050	0.00050 mg/L							
Cobalt, total	< 0.00010	0.00010 mg/L							
Copper, total	< 0.00040	0.00040 mg/L							
Iron, total	< 0.010	0.010 mg/L							
Lead, total	< 0.00020	0.00020 mg/L							
Lithium, total	< 0.00010	0.00010 mg/L							
Magnesium, total	< 0.010	0.010 mg/L							
Manganese, total	< 0.00020	0.00020 mg/L							
Molybdenum, total	< 0.00010	0.00010 mg/L							
Nickel, total	< 0.00040	0.00040 mg/L							
Phosphorus, total	< 0.050	0.050 mg/L							
Potassium, total	< 0.10	0.10 mg/L							
Selenium, total	< 0.00050	0.00050 mg/L							
Silicon, total	< 1.0	1.0 mg/L							
Silver, total	< 0.000050	0.000050 mg/L							
Sodium, total	< 0.10	0.10 mg/L							
Strontium, total	< 0.0010	0.0010 mg/L							
Sulfur, total	< 3.0	3.0 mg/L							
Tellurium, total	< 0.00050	0.00050 mg/L							
Thallium, total	< 0.000020	0.000020 mg/L							
Thorium, total	< 0.00010	0.00010 mg/L							
Tin, total	< 0.00020	0.00020 mg/L							
Titanium, total	< 0.0050	0.0050 mg/L							
Tungsten, total	< 0.0010	0.0010 mg/L							
Uranium, total	< 0.000020	0.000020 mg/L							
Vanadium, total	< 0.0050	0.0050 mg/L							
Zinc, total	< 0.0040	0.0040 mg/L							
Zirconium, total	< 0.00010	0.00010 mg/L							

LCS (B5D3049-BS1)

Prepared: 2025-04-15, Analyzed: 2025-04-16

Aluminum, total	3.84	0.0050 mg/L	4.00	96	80-120
Antimony, total	0.0397	0.00020 mg/L	0.0400	99	80-120
Arsenic, total	0.390	0.00050 mg/L	0.400	97	80-120
Barium, total	0.0393	0.0050 mg/L	0.0400	98	80-120
Beryllium, total	0.0402	0.00010 mg/L	0.0400	101	80-120
Bismuth, total	0.0387	0.00010 mg/L	0.0400	97	80-120
Boron, total	0.414	0.0500 mg/L	0.400	103	80-120
Cadmium, total	0.0389	0.000010 mg/L	0.0400	97	80-120
Calcium, total	4.13	0.20 mg/L	4.00	103	80-120
Chromium, total	0.0397	0.00050 mg/L	0.0400	99	80-120
Cobalt, total	0.0392	0.00010 mg/L	0.0400	98	80-120
Copper, total	0.0390	0.00040 mg/L	0.0400	97	80-120
Iron, total	3.89	0.010 mg/L	4.00	97	80-120
Lead, total	0.0393	0.00020 mg/L	0.0400	98	80-120
Lithium, total	0.0389	0.00010 mg/L	0.0400	97	80-120
Magnesium, total	3.75	0.010 mg/L	4.00	94	80-120
Manganese, total	0.0392	0.00020 mg/L	0.0400	98	80-120
Molybdenum, total	0.0393	0.00010 mg/L	0.0400	98	80-120
Nickel, total	0.0396	0.00040 mg/L	0.0400	99	80-120
Phosphorus, total	3.86	0.050 mg/L	4.00	96	80-120
Potassium, total	3.97	0.10 mg/L	4.00	99	80-120

APPENDIX 2: QUALITY CONTROL RESULTS

REPORTED TO PROJECT Regional District of Okanagan Similkameen
Keremeos - TLGW

WORK ORDER REPORTED 25D1735
2025-05-27 15:56

Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
Total Metals, Batch B5D3049, Continued									
LCS (B5D3049-BS1), Continued					Prepared: 2025-04-15, Analyzed: 2025-04-16				
Selenium, total	0.388	0.00050 mg/L	0.400		97	80-120			
Silicon, total	4.1	1.0 mg/L	4.00		103	80-120			
Silver, total	0.0395	0.000050 mg/L	0.0400		99	80-120			
Sodium, total	3.83	0.10 mg/L	4.00		96	80-120			
Strontium, total	0.0396	0.0010 mg/L	0.0400		99	80-120			
Sulfur, total	41.4	3.0 mg/L	40.0		103	80-120			
Tellurium, total	0.0368	0.00050 mg/L	0.0400		92	80-120			
Thallium, total	0.0389	0.000020 mg/L	0.0400		97	80-120			
Thorium, total	0.0393	0.00010 mg/L	0.0400		98	80-120			
Tin, total	0.0395	0.00020 mg/L	0.0400		99	80-120			
Titanium, total	0.0393	0.0050 mg/L	0.0400		98	80-120			
Tungsten, total	0.0395	0.0010 mg/L	0.0400		99	80-120			
Uranium, total	0.0392	0.000020 mg/L	0.0400		98	80-120			
Vanadium, total	0.0393	0.0050 mg/L	0.0400		98	80-120			
Zinc, total	0.389	0.0040 mg/L	0.400		97	80-120			
Zirconium, total	0.0392	0.00010 mg/L	0.0400		98	80-120			

Total Metals, Batch B5D3076

Blank (B5D3076-BLK1)					Prepared: 2025-04-15, Analyzed: 2025-04-15				
Mercury, total	< 0.000010	0.000010 mg/L							
Blank (B5D3076-BLK2)					Prepared: 2025-04-15, Analyzed: 2025-04-15				
Mercury, total	< 0.000010	0.000010 mg/L							
LCS (B5D3076-BS1)					Prepared: 2025-04-15, Analyzed: 2025-04-15				
Mercury, total	0.00241	0.000010 mg/L	0.00250		97	80-120			
LCS (B5D3076-BS2)					Prepared: 2025-04-15, Analyzed: 2025-04-15				
Mercury, total	0.00245	0.000010 mg/L	0.00250		98	80-120			



APPENDIX 3: REVISION HISTORY

REPORTED TO PROJECT		Regional District of Okanagan Similkameen Keremeos - TLGW		WORK ORDER REPORTED	25D1735 2025-05-27 15:56
Sample ID	Changed	Change	Analysis	Analyte(s)	
25D1735-01	2025-05-27	Sample ID	N/A	N/A	

CERTIFICATE OF ANALYSIS

REPORTED TO Regional District of Okanagan Similkameen
101 Martin Street
Penticton, BC V2A 5J9

ATTENTION Rob Palmer

PO NUMBER TLGW

PROJECT Keremeos - TLGW

PROJECT INFO

WORK ORDER 25D3017

RECEIVED / TEMP 2025-04-23 10:42 / 3.4°C

REPORTED 2025-04-30 14:23

COC NUMBER eCOC#00022713

Introduction:

CARO Analytical Services is a testing laboratory full of smart, engaged scientists driven to make the world a safer and healthier place. Through our clients' projects we become an essential element for a better world. We employ methods conducted in accordance with recognized professional standards using accepted testing methodologies and quality control efforts. CARO is accredited by the Canadian Association for Laboratories Accreditation (CALA) to ISO/IEC 17025:2017 for specific tests listed in the scope of accreditation approved by CALA.

Big Picture Sidekicks



You know that the sample you collected after snowshoeing to site, digging 5 meters, and racing to get it on a plane so you can submit it to the lab for time sensitive results needed to make important and expensive decisions (whew) is VERY important. We know that too.

We've Got Chemistry



It's simple. We figure the more you enjoy working with our fun and engaged team members; the more likely you are to give us continued opportunities to support you.

Ahead of the Curve



Through research, regulation knowledge, and instrumentation, we are your analytical centre for the technical knowledge you need, BEFORE you need it, so you can stay up to date and in the know.

Work Order Comments:

Custody Seals Intact: N/A

By engaging our services, you are agreeing to CARO Analytical Service's Standard Terms and Conditions outlined here:
<https://www.caro.ca/terms-conditions>

If you have any questions or concerns, please contact me at hhannaoui@caro.ca

Authorized By:

Hanane El Hannaoui
Junior Account Manager

1-888-311-8846 | www.caro.ca

#110 4011 Viking Way Richmond, BC V6V 2K9 | #102 3677 Highway 97N Kelowna, BC V1X 5C3 | 17225 109 Avenue Edmonton, AB T5S 1H7 |
#108 4475 Wayburne Drive Burnaby, BC V5G 4X4

TEST RESULTS

REPORTED TO PROJECT Regional District of Okanagan Similkameen
Keremeos - TLGW

WORK ORDER REPORTED 25D3017
2025-04-30 14:23

Analyte	Result	Guideline	RL Units	Analyzed	Qualifier
MW20-01 (25D3017-01) Matrix: Ground Water Sampled: 2025-04-22 12:10					
Anions					
Bromide	< 0.10	N/A	0.10 mg/L	2025-04-24	
Chloride	12.9	AO ≤ 250	0.10 mg/L	2025-04-24	
Fluoride	< 0.10	MAC = 1.5	0.10 mg/L	2025-04-24	
Nitrate (as N)	2.42	MAC = 10	0.010 mg/L	2025-04-24	
Nitrite (as N)	< 0.010	MAC = 1	0.010 mg/L	2025-04-24	
Sulfate	110	AO ≤ 500	1.0 mg/L	2025-04-24	
Calculated Parameters					
Bicarbonate (HCO ₃)	317	N/A	1.22 mg/L	N/A	
Carbonate (CO ₃)	< 0.600	N/A	0.600 mg/L	N/A	
Hydroxide (OH)	< 0.340	N/A	0.340 mg/L	N/A	
Hardness, Dissolved (as CaCO ₃)	386	N/A	0.500 mg/L	N/A	
Nitrate+Nitrite (as N)	2.42	N/A	0.0100 mg/L	N/A	
Dissolved Metals					
Aluminum, dissolved	< 0.0050	N/A	0.0050 mg/L	2025-04-30	
Antimony, dissolved	< 0.00020	N/A	0.00020 mg/L	2025-04-30	
Arsenic, dissolved	0.00096	N/A	0.00050 mg/L	2025-04-30	
Barium, dissolved	0.0482	N/A	0.0050 mg/L	2025-04-30	
Beryllium, dissolved	< 0.00010	N/A	0.00010 mg/L	2025-04-30	
Bismuth, dissolved	< 0.00010	N/A	0.00010 mg/L	2025-04-30	
Boron, dissolved	< 0.0500	N/A	0.0500 mg/L	2025-04-30	
Cadmium, dissolved	0.000025	N/A	0.000010 mg/L	2025-04-30	
Calcium, dissolved	112	N/A	0.20 mg/L	2025-04-30	
Chromium, dissolved	0.00252	N/A	0.00050 mg/L	2025-04-30	
Cobalt, dissolved	< 0.00010	N/A	0.00010 mg/L	2025-04-30	
Copper, dissolved	< 0.00040	N/A	0.00040 mg/L	2025-04-30	
Iron, dissolved	< 0.010	N/A	0.010 mg/L	2025-04-30	
Lead, dissolved	< 0.00020	N/A	0.00020 mg/L	2025-04-30	
Lithium, dissolved	0.00625	N/A	0.00010 mg/L	2025-04-30	
Magnesium, dissolved	25.9	N/A	0.010 mg/L	2025-04-30	
Manganese, dissolved	< 0.00020	N/A	0.00020 mg/L	2025-04-30	
Mercury, dissolved	< 0.000010	N/A	0.000010 mg/L	2025-04-25	
Molybdenum, dissolved	0.00218	N/A	0.00010 mg/L	2025-04-30	
Nickel, dissolved	0.00048	N/A	0.00040 mg/L	2025-04-30	
Phosphorus, dissolved	< 0.050	N/A	0.050 mg/L	2025-04-30	
Potassium, dissolved	3.52	N/A	0.10 mg/L	2025-04-30	
Selenium, dissolved	0.00492	N/A	0.00050 mg/L	2025-04-30	
Silicon, dissolved	11.5	N/A	1.0 mg/L	2025-04-30	
Silver, dissolved	< 0.000050	N/A	0.000050 mg/L	2025-04-30	
Sodium, dissolved	20.5	N/A	0.10 mg/L	2025-04-30	
Strontium, dissolved	0.844	N/A	0.0010 mg/L	2025-04-30	
Sulfur, dissolved	41.3	N/A	3.0 mg/L	2025-04-30	
Tellurium, dissolved	< 0.00050	N/A	0.00050 mg/L	2025-04-30	

TEST RESULTS

REPORTED TO PROJECT Regional District of Okanagan Similkameen
Keremeos - TLGW

WORK ORDER REPORTED 25D3017
2025-04-30 14:23

Analyte	Result	Guideline	RL	Units	Analyzed	Qualifier

MW20-01 (25D3017-01) | Matrix: Ground Water | Sampled: 2025-04-22 12:10, Continued

Dissolved Metals, Continued

Thallium, dissolved	< 0.000020	N/A	0.000020	mg/L	2025-04-30	
Thorium, dissolved	< 0.00010	N/A	0.00010	mg/L	2025-04-30	
Tin, dissolved	< 0.00020	N/A	0.00020	mg/L	2025-04-30	
Titanium, dissolved	< 0.0050	N/A	0.0050	mg/L	2025-04-30	
Tungsten, dissolved	< 0.0010	N/A	0.0010	mg/L	2025-04-30	
Uranium, dissolved	0.00284	N/A	0.000020	mg/L	2025-04-30	
Vanadium, dissolved	< 0.0050	N/A	0.0050	mg/L	2025-04-30	
Zinc, dissolved	< 0.0040	N/A	0.0040	mg/L	2025-04-30	
Zirconium, dissolved	< 0.00010	N/A	0.00010	mg/L	2025-04-30	

General Parameters

Alkalinity, Total (as CaCO ₃)	260	N/A	1.0	mg/L	2025-04-26	
Alkalinity, Phenolphthalein (as CaCO ₃)	< 1.0	N/A	1.0	mg/L	2025-04-26	
Alkalinity, Bicarbonate (as CaCO ₃)	260	N/A	1.0	mg/L	2025-04-26	
Alkalinity, Carbonate (as CaCO ₃)	< 1.0	N/A	1.0	mg/L	2025-04-26	
Alkalinity, Hydroxide (as CaCO ₃)	< 1.0	N/A	1.0	mg/L	2025-04-26	
Ammonia, Total (as N)	< 0.050	None Required	0.050	mg/L	2025-04-28	
Chemical Oxygen Demand	< 20	N/A	20	mg/L	2025-04-24	
Conductivity (EC)	775	N/A	2.0	µS/cm	2025-04-26	
pH	7.76	7.0-10.5	0.10	pH units	2025-04-26	HT2

Total Metals

Aluminum, total	0.0231	OG < 0.1	0.0050	mg/L	2025-04-28	
Antimony, total	< 0.00020	MAC = 0.006	0.00020	mg/L	2025-04-28	
Arsenic, total	0.00096	MAC = 0.01	0.00050	mg/L	2025-04-28	
Barium, total	0.0481	MAC = 2	0.0050	mg/L	2025-04-28	
Beryllium, total	< 0.00010	N/A	0.00010	mg/L	2025-04-28	
Bismuth, total	< 0.00010	N/A	0.00010	mg/L	2025-04-28	
Boron, total	< 0.0500	MAC = 5	0.0500	mg/L	2025-04-28	
Cadmium, total	0.000028	MAC = 0.007	0.000010	mg/L	2025-04-28	
Calcium, total	112	None Required	0.20	mg/L	2025-04-28	
Chromium, total	0.00260	MAC = 0.05	0.00050	mg/L	2025-04-28	
Cobalt, total	< 0.00010	N/A	0.00010	mg/L	2025-04-28	
Copper, total	0.00047	MAC = 2	0.00040	mg/L	2025-04-28	
Iron, total	0.071	AO ≤ 0.1	0.010	mg/L	2025-04-28	
Lead, total	< 0.00020	MAC = 0.005	0.00020	mg/L	2025-04-28	
Lithium, total	0.00596	N/A	0.00010	mg/L	2025-04-28	
Magnesium, total	28.6	None Required	0.010	mg/L	2025-04-28	
Manganese, total	0.00104	MAC = 0.12	0.00020	mg/L	2025-04-28	
Mercury, total	< 0.000010	MAC = 0.001	0.000010	mg/L	2025-04-25	
Molybdenum, total	0.00234	N/A	0.00010	mg/L	2025-04-28	
Nickel, total	0.00052	N/A	0.00040	mg/L	2025-04-28	
Phosphorus, total	< 0.050	N/A	0.050	mg/L	2025-04-28	
Potassium, total	3.51	N/A	0.10	mg/L	2025-04-28	

TEST RESULTS

REPORTED TO PROJECT Regional District of Okanagan Similkameen
Keremeos - TLGW

WORK ORDER REPORTED 25D3017
2025-04-30 14:23

Analyte	Result	Guideline	RL	Units	Analyzed	Qualifier
MW20-01 (25D3017-01) Matrix: Ground Water Sampled: 2025-04-22 12:10, Continued						
<i>Total Metals, Continued</i>						
Selenium, total	0.00464	MAC = 0.05	0.00050	mg/L	2025-04-28	
Silicon, total	10.3	N/A	1.0	mg/L	2025-04-28	
Silver, total	< 0.000050	None Required	0.000050	mg/L	2025-04-28	
Sodium, total	20.7	AO ≤ 200	0.10	mg/L	2025-04-28	
Strontium, total	0.807	MAC = 7	0.0010	mg/L	2025-04-28	
Sulfur, total	41.1	N/A	3.0	mg/L	2025-04-28	
Tellurium, total	< 0.00050	N/A	0.00050	mg/L	2025-04-28	
Thallium, total	< 0.000020	N/A	0.000020	mg/L	2025-04-28	
Thorium, total	< 0.00010	N/A	0.00010	mg/L	2025-04-28	
Tin, total	< 0.00020	N/A	0.00020	mg/L	2025-04-28	
Titanium, total	< 0.0050	N/A	0.0050	mg/L	2025-04-28	
Tungsten, total	< 0.0010	N/A	0.0010	mg/L	2025-04-28	
Uranium, total	0.00298	MAC = 0.02	0.000020	mg/L	2025-04-28	
Vanadium, total	< 0.0050	N/A	0.0050	mg/L	2025-04-28	
Zinc, total	< 0.0040	AO ≤ 5	0.0040	mg/L	2025-04-28	
Zirconium, total	< 0.00010	N/A	0.00010	mg/L	2025-04-28	

MW20-02 (25D3017-02) | Matrix: Ground Water | Sampled: 2025-04-22 13:20

Anions

Bromide	< 0.10	N/A	0.10	mg/L	2025-04-24	
Chloride	23.7	AO ≤ 250	0.10	mg/L	2025-04-24	
Fluoride	< 0.10	MAC = 1.5	0.10	mg/L	2025-04-24	
Nitrate (as N)	3.01	MAC = 10	0.010	mg/L	2025-04-24	
Nitrite (as N)	< 0.010	MAC = 1	0.010	mg/L	2025-04-24	
Sulfate	206	AO ≤ 500	1.0	mg/L	2025-04-24	

Calculated Parameters

Bicarbonate (HCO ₃)	356	N/A	1.22	mg/L	N/A	
Carbonate (CO ₃)	< 0.600	N/A	0.600	mg/L	N/A	
Hydroxide (OH)	< 0.340	N/A	0.340	mg/L	N/A	
Hardness, Dissolved (as CaCO ₃)	515	N/A	0.500	mg/L	N/A	
Nitrate+Nitrite (as N)	3.01	N/A	0.0100	mg/L	N/A	

Dissolved Metals

Aluminum, dissolved	< 0.0050	N/A	0.0050	mg/L	2025-04-30	
Antimony, dissolved	< 0.00020	N/A	0.00020	mg/L	2025-04-30	
Arsenic, dissolved	0.00090	N/A	0.00050	mg/L	2025-04-30	
Barium, dissolved	0.0663	N/A	0.0050	mg/L	2025-04-30	
Beryllium, dissolved	< 0.00010	N/A	0.00010	mg/L	2025-04-30	
Bismuth, dissolved	< 0.00010	N/A	0.00010	mg/L	2025-04-30	
Boron, dissolved	< 0.0500	N/A	0.0500	mg/L	2025-04-30	
Cadmium, dissolved	0.000036	N/A	0.000010	mg/L	2025-04-30	

TEST RESULTS

REPORTED TO PROJECT Regional District of Okanagan Similkameen
Keremeos - TLGW

WORK ORDER REPORTED 25D3017
2025-04-30 14:23

Analyte	Result	Guideline	RL	Units	Analyzed	Qualifier

MW20-02 (25D3017-02) | Matrix: Ground Water | Sampled: 2025-04-22 13:20, Continued

Dissolved Metals, Continued

Calcium, dissolved	147	N/A	0.20	mg/L	2025-04-30	
Chromium, dissolved	0.00259	N/A	0.00050	mg/L	2025-04-30	
Cobalt, dissolved	< 0.00010	N/A	0.00010	mg/L	2025-04-30	
Copper, dissolved	< 0.00040	N/A	0.00040	mg/L	2025-04-30	
Iron, dissolved	< 0.010	N/A	0.010	mg/L	2025-04-30	
Lead, dissolved	< 0.00020	N/A	0.00020	mg/L	2025-04-30	
Lithium, dissolved	0.00677	N/A	0.00010	mg/L	2025-04-30	
Magnesium, dissolved	36.0	N/A	0.010	mg/L	2025-04-30	
Manganese, dissolved	< 0.00020	N/A	0.00020	mg/L	2025-04-30	
Mercury, dissolved	< 0.000010	N/A	0.000010	mg/L	2025-04-25	
Molybdenum, dissolved	0.00201	N/A	0.00010	mg/L	2025-04-30	
Nickel, dissolved	0.00084	N/A	0.00040	mg/L	2025-04-30	
Phosphorus, dissolved	< 0.050	N/A	0.050	mg/L	2025-04-30	
Potassium, dissolved	3.91	N/A	0.10	mg/L	2025-04-30	
Selenium, dissolved	0.0105	N/A	0.00050	mg/L	2025-04-30	
Silicon, dissolved	11.2	N/A	1.0	mg/L	2025-04-30	
Silver, dissolved	< 0.000050	N/A	0.000050	mg/L	2025-04-30	
Sodium, dissolved	21.7	N/A	0.10	mg/L	2025-04-30	
Strontium, dissolved	1.14	N/A	0.0010	mg/L	2025-04-30	
Sulfur, dissolved	71.6	N/A	3.0	mg/L	2025-04-30	
Tellurium, dissolved	< 0.00050	N/A	0.00050	mg/L	2025-04-30	
Thallium, dissolved	< 0.000020	N/A	0.000020	mg/L	2025-04-30	
Thorium, dissolved	< 0.00010	N/A	0.00010	mg/L	2025-04-30	
Tin, dissolved	< 0.00020	N/A	0.00020	mg/L	2025-04-30	
Titanium, dissolved	< 0.0050	N/A	0.0050	mg/L	2025-04-30	
Tungsten, dissolved	< 0.0010	N/A	0.0010	mg/L	2025-04-30	
Uranium, dissolved	0.00418	N/A	0.000020	mg/L	2025-04-30	
Vanadium, dissolved	< 0.0050	N/A	0.0050	mg/L	2025-04-30	
Zinc, dissolved	< 0.0040	N/A	0.0040	mg/L	2025-04-30	
Zirconium, dissolved	< 0.00010	N/A	0.00010	mg/L	2025-04-30	

General Parameters

Alkalinity, Total (as CaCO3)	292	N/A	1.0	mg/L	2025-04-26	
Alkalinity, Phenolphthalein (as CaCO3)	< 1.0	N/A	1.0	mg/L	2025-04-26	
Alkalinity, Bicarbonate (as CaCO3)	292	N/A	1.0	mg/L	2025-04-26	
Alkalinity, Carbonate (as CaCO3)	< 1.0	N/A	1.0	mg/L	2025-04-26	
Alkalinity, Hydroxide (as CaCO3)	< 1.0	N/A	1.0	mg/L	2025-04-26	
Ammonia, Total (as N)	< 0.050	None Required	0.050	mg/L	2025-04-28	
Chemical Oxygen Demand	< 20	N/A	20	mg/L	2025-04-24	
Conductivity (EC)	1030	N/A	2.0	µS/cm	2025-04-26	
pH	7.72	7.0-10.5	0.10	pH units	2025-04-26	HT2

Total Metals

Aluminum, total	0.0097	OG < 0.1	0.0050	mg/L	2025-04-29	

TEST RESULTS

REPORTED TO PROJECT Regional District of Okanagan Similkameen
Keremeos - TLGW

WORK ORDER REPORTED 25D3017
2025-04-30 14:23

Analyte	Result	Guideline	RL	Units	Analyzed	Qualifier
MW20-02 (25D3017-02) Matrix: Ground Water Sampled: 2025-04-22 13:20, Continued						
<i>Total Metals, Continued</i>						
Antimony, total	< 0.00020	MAC = 0.006	0.00020	mg/L	2025-04-29	
Arsenic, total	0.00092	MAC = 0.01	0.00050	mg/L	2025-04-29	
Barium, total	0.0663	MAC = 2	0.0050	mg/L	2025-04-29	
Beryllium, total	< 0.00010	N/A	0.00010	mg/L	2025-04-29	
Bismuth, total	< 0.00010	N/A	0.00010	mg/L	2025-04-29	
Boron, total	< 0.0500	MAC = 5	0.0500	mg/L	2025-04-29	
Cadmium, total	0.000034	MAC = 0.007	0.000010	mg/L	2025-04-29	
Calcium, total	158	None Required	0.20	mg/L	2025-04-29	
Chromium, total	0.00272	MAC = 0.05	0.00050	mg/L	2025-04-29	
Cobalt, total	< 0.00010	N/A	0.00010	mg/L	2025-04-29	
Copper, total	0.00042	MAC = 2	0.00040	mg/L	2025-04-29	
Iron, total	0.074	AO ≤ 0.1	0.010	mg/L	2025-04-29	
Lead, total	< 0.00020	MAC = 0.005	0.00020	mg/L	2025-04-29	
Lithium, total	0.00686	N/A	0.00010	mg/L	2025-04-29	
Magnesium, total	40.0	None Required	0.010	mg/L	2025-04-29	
Manganese, total	0.00074	MAC = 0.12	0.00020	mg/L	2025-04-29	
Mercury, total	< 0.000010	MAC = 0.001	0.000010	mg/L	2025-04-25	
Molybdenum, total	0.00209	N/A	0.00010	mg/L	2025-04-29	
Nickel, total	0.00086	N/A	0.00040	mg/L	2025-04-29	
Phosphorus, total	< 0.050	N/A	0.050	mg/L	2025-04-29	
Potassium, total	3.93	N/A	0.10	mg/L	2025-04-29	
Selenium, total	0.0104	MAC = 0.05	0.00050	mg/L	2025-04-29	
Silicon, total	10.8	N/A	1.0	mg/L	2025-04-29	
Silver, total	< 0.000050	None Required	0.000050	mg/L	2025-04-29	
Sodium, total	22.9	AO ≤ 200	0.10	mg/L	2025-04-29	
Strontium, total	1.08	MAC = 7	0.0010	mg/L	2025-04-29	
Sulfur, total	76.7	N/A	3.0	mg/L	2025-04-29	
Tellurium, total	< 0.00050	N/A	0.00050	mg/L	2025-04-29	
Thallium, total	< 0.000020	N/A	0.000020	mg/L	2025-04-29	
Thorium, total	< 0.00010	N/A	0.00010	mg/L	2025-04-29	
Tin, total	< 0.00020	N/A	0.00020	mg/L	2025-04-29	
Titanium, total	< 0.0050	N/A	0.0050	mg/L	2025-04-29	
Tungsten, total	< 0.0010	N/A	0.0010	mg/L	2025-04-29	
Uranium, total	0.00441	MAC = 0.02	0.000020	mg/L	2025-04-29	
Vanadium, total	< 0.0050	N/A	0.0050	mg/L	2025-04-29	
Zinc, total	< 0.0040	AO ≤ 5	0.0040	mg/L	2025-04-29	
Zirconium, total	< 0.00010	N/A	0.00010	mg/L	2025-04-29	

BH 99-1 (25D3017-03) | Matrix: Ground Water | Sampled: 2025-04-22 14:30

Anions

Bromide	< 0.10	N/A	0.10	mg/L	2025-04-24	
Chloride	13.8	AO ≤ 250	0.10	mg/L	2025-04-24	

TEST RESULTS

REPORTED TO PROJECT Regional District of Okanagan Similkameen
Keremeos - TLGW

WORK ORDER REPORTED 25D3017
2025-04-30 14:23

Analyte	Result	Guideline	RL	Units	Analyzed	Qualifier

BH 99-1 (25D3017-03) | Matrix: Ground Water | Sampled: 2025-04-22 14:30, Continued

Anions, Continued

Fluoride	< 0.10	MAC = 1.5	0.10	mg/L	2025-04-24	
Nitrate (as N)	1.59	MAC = 10	0.010	mg/L	2025-04-24	
Nitrite (as N)	< 0.010	MAC = 1	0.010	mg/L	2025-04-24	
Sulfate	87.9	AO ≤ 500	1.0	mg/L	2025-04-24	

Calculated Parameters

Bicarbonate (HCO ₃)	283	N/A	1.22	mg/L	N/A	
Carbonate (CO ₃)	< 0.600	N/A	0.600	mg/L	N/A	
Hydroxide (OH)	< 0.340	N/A	0.340	mg/L	N/A	
Hardness, Dissolved (as CaCO ₃)	322	N/A	0.500	mg/L	N/A	
Nitrate+Nitrite (as N)	1.59	N/A	0.0100	mg/L	N/A	

Dissolved Metals

Aluminum, dissolved	< 0.0050	N/A	0.0050	mg/L	2025-04-30	
Antimony, dissolved	< 0.00020	N/A	0.00020	mg/L	2025-04-30	
Arsenic, dissolved	0.00094	N/A	0.00050	mg/L	2025-04-30	
Barium, dissolved	0.0411	N/A	0.0050	mg/L	2025-04-30	
Beryllium, dissolved	< 0.00010	N/A	0.00010	mg/L	2025-04-30	
Bismuth, dissolved	< 0.00010	N/A	0.00010	mg/L	2025-04-30	
Boron, dissolved	< 0.0500	N/A	0.0500	mg/L	2025-04-30	
Cadmium, dissolved	0.000018	N/A	0.000010	mg/L	2025-04-30	
Calcium, dissolved	95.5	N/A	0.20	mg/L	2025-04-30	
Chromium, dissolved	0.00238	N/A	0.00050	mg/L	2025-04-30	
Cobalt, dissolved	< 0.00010	N/A	0.00010	mg/L	2025-04-30	
Copper, dissolved	< 0.00040	N/A	0.00040	mg/L	2025-04-30	
Iron, dissolved	< 0.010	N/A	0.010	mg/L	2025-04-30	
Lead, dissolved	< 0.00020	N/A	0.00020	mg/L	2025-04-30	
Lithium, dissolved	0.00448	N/A	0.00010	mg/L	2025-04-30	
Magnesium, dissolved	20.3	N/A	0.010	mg/L	2025-04-30	
Manganese, dissolved	< 0.00020	N/A	0.00020	mg/L	2025-04-30	
Mercury, dissolved	< 0.000010	N/A	0.000010	mg/L	2025-04-25	
Molybdenum, dissolved	0.00213	N/A	0.00010	mg/L	2025-04-30	
Nickel, dissolved	< 0.00040	N/A	0.00040	mg/L	2025-04-30	
Phosphorus, dissolved	< 0.050	N/A	0.050	mg/L	2025-04-30	
Potassium, dissolved	3.33	N/A	0.10	mg/L	2025-04-30	
Selenium, dissolved	0.00274	N/A	0.00050	mg/L	2025-04-30	
Silicon, dissolved	10.6	N/A	1.0	mg/L	2025-04-30	
Silver, dissolved	< 0.000050	N/A	0.000050	mg/L	2025-04-30	
Sodium, dissolved	17.3	N/A	0.10	mg/L	2025-04-30	
Strontium, dissolved	0.724	N/A	0.0010	mg/L	2025-04-30	
Sulfur, dissolved	30.5	N/A	3.0	mg/L	2025-04-30	
Tellurium, dissolved	< 0.00050	N/A	0.00050	mg/L	2025-04-30	
Thallium, dissolved	< 0.000020	N/A	0.000020	mg/L	2025-04-30	
Thorium, dissolved	< 0.00010	N/A	0.00010	mg/L	2025-04-30	

TEST RESULTS

REPORTED TO PROJECT Regional District of Okanagan Similkameen
Keremeos - TLGW

WORK ORDER REPORTED 25D3017
2025-04-30 14:23

Analyte	Result	Guideline	RL	Units	Analyzed	Qualifier
BH 99-1 (25D3017-03) Matrix: Ground Water Sampled: 2025-04-22 14:30, Continued						
<i>Dissolved Metals, Continued</i>						
Tin, dissolved	< 0.00020	N/A	0.00020	mg/L	2025-04-30	
Titanium, dissolved	< 0.0050	N/A	0.0050	mg/L	2025-04-30	
Tungsten, dissolved	< 0.0010	N/A	0.0010	mg/L	2025-04-30	
Uranium, dissolved	0.00225	N/A	0.000020	mg/L	2025-04-30	
Vanadium, dissolved	< 0.0050	N/A	0.0050	mg/L	2025-04-30	
Zinc, dissolved	< 0.0040	N/A	0.0040	mg/L	2025-04-30	
Zirconium, dissolved	< 0.00010	N/A	0.00010	mg/L	2025-04-30	
<i>General Parameters</i>						
Alkalinity, Total (as CaCO ₃)	232	N/A	1.0	mg/L	2025-04-26	
Alkalinity, Phenolphthalein (as CaCO ₃)	< 1.0	N/A	1.0	mg/L	2025-04-26	
Alkalinity, Bicarbonate (as CaCO ₃)	232	N/A	1.0	mg/L	2025-04-26	
Alkalinity, Carbonate (as CaCO ₃)	< 1.0	N/A	1.0	mg/L	2025-04-26	
Alkalinity, Hydroxide (as CaCO ₃)	< 1.0	N/A	1.0	mg/L	2025-04-26	
Ammonia, Total (as N)	< 0.050	None Required	0.050	mg/L	2025-04-28	
Chemical Oxygen Demand	< 20	N/A	20	mg/L	2025-04-24	
Conductivity (EC)	681	N/A	2.0	µS/cm	2025-04-26	
pH	7.94	7.0-10.5	0.10	pH units	2025-04-26	HT2

Sample Qualifiers:

HT2 The 15 minute recommended holding time (from sampling to analysis) has been exceeded - field analysis is recommended.

APPENDIX 1: SUPPORTING INFORMATION

REPORTED TO PROJECT Regional District of Okanagan Similkameen
Keremeos - TLGW

WORK ORDER REPORTED 25D3017
2025-04-30 14:23

Analysis Description	Method Ref.	Technique	Accredited	Location
Alkalinity in Water	SM 2320 B* (2021)	Titration with H ₂ SO ₄	✓	Kelowna
Ammonia, Total in Water	SM 4500-NH ₃ G* (2021)	Automated Colorimetry (Phenate)	✓	Kelowna
Anions in Water	SM 4110 B (2020)	Ion Chromatography	✓	Kelowna
Chemical Oxygen Demand in Water	SM 5220 D* (2022)	Closed Reflux, Colorimetry	✓	Kelowna
Conductivity in Water	SM 2510 B (2021)	Conductivity Meter	✓	Kelowna
Dissolved Metals in Water	EPA 200.8 / EPA 6020B	0.45 µm Filtration / Inductively Coupled Plasma-Mass Spectroscopy (ICP-MS)	✓	Richmond
Hardness in Water	SM 2340 B (2021)	Calculation: 2.497 [diss Ca] + 4.118 [diss Mg]	✓	N/A
Hardness in Water	SM 2340 B* (2021)	Calculation: 2.497 [total Ca] + 4.118 [total Mg] (Est)	✓	N/A
Mercury, dissolved in Water	EPA 245.7*	BrCl ₂ Oxidation / Cold Vapor Atomic Fluorescence Spectrometry (CVAFS)	✓	Richmond
Mercury, total in Water	EPA 245.7*	BrCl ₂ Oxidation / Cold Vapor Atomic Fluorescence Spectrometry (CVAFS)	✓	Richmond
pH in Water	SM 4500-H+ B (2021)	Electrometry	✓	Kelowna
Total Metals in Water	EPA 200.2 / EPA 6020B	HNO ₃ +HCl Hot Block Digestion / Inductively Coupled Plasma-Mass Spectroscopy (ICP-MS)	✓	Richmond

Note: An asterisk in the Method Reference indicates that the CARO method has been modified from the reference method

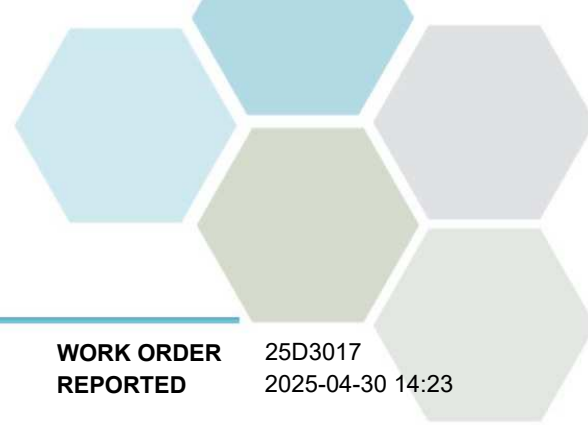
Glossary of Terms:

RL	Reporting Limit (default)
<	Less than the specified Reporting Limit (RL) - the actual RL may be higher than the default RL due to various factors
AO	Aesthetic Objective
MAC	Maximum Acceptable Concentration (health based)
mg/L	Milligrams per litre
OG	Operational Guideline (treated water)
pH units	pH < 7 = acidic, pH > 7 = basic
µS/cm	Microsiemens per centimetre
EPA	United States Environmental Protection Agency Test Methods
SM	Standard Methods for the Examination of Water and Wastewater, American Public Health Association

Guidelines Referenced in this Report:

[Guidelines for Canadian Drinking Water Quality \(Health Canada, September 2022\)](#)

Note: In some cases, the values displayed on the report represent the lowest guideline and are to be verified by the end user



APPENDIX 1: SUPPORTING INFORMATION

REPORTED TO PROJECT Regional District of Okanagan Similkameen
Keremeos - TLGW

WORK ORDER REPORTED 25D3017
2025-04-30 14:23

General Comments:

The results in this report apply to the received samples analyzed in accordance with the Chain of Custody document. This analytical report must be reproduced in its entirety. CARO is not responsible for any loss or damage resulting directly or indirectly from error or omission in the conduct of testing. Liability is limited to the cost of analysis. Caro will dispose of all samples within 30 days of sample receipt, unless otherwise agreed.

Results in **Bold** indicate values that are above CARO's method reporting limits. Any results that are above regulatory limits are highlighted **red**. Please note that results will only be highlighted red if the regulatory limits are included on the CARO report. Any Bold and/or highlighted results do not take into account method uncertainty. If you would like method uncertainty or regulatory limits to be included on your report, please contact your Account Manager: hhannaoui@caro.ca

Please note any regulatory guidelines applied to this report are added as a convenience to the client, at their request, to help provide some initial context to analytical results obtained. Although CARO makes every effort to ensure accuracy of the associated regulatory guideline(s) applied, the guidelines applied cannot be assumed to be correct due to a variety of factors and as such CARO Analytical Services assumes no liability or responsibility for the use of those guidelines to make any decisions. The original source of the regulation should be verified and a review of the guideline(s) should be validated as correct in order to make any decisions arising from the comparison of the analytical data obtained to the relevant regulatory guideline for one's particular circumstances. Further, CARO Analytical Services assumes no liability or responsibility for any loss attributed from the use of these guidelines in any way.

APPENDIX 2: QUALITY CONTROL RESULTS

REPORTED TO PROJECT Regional District of Okanagan Similkameen
Keremeos - TLGW

WORK ORDER REPORTED 25D3017
2025-04-30 14:23

The following section displays the quality control (QC) data that is associated with your sample data. Groups of samples are prepared in "batches" and analyzed in conjunction with QC samples that ensure your data is of the highest quality. Common QC types include:

- **Method Blank (BLK):** A blank sample that undergoes sample processing identical to that carried out for the test samples. Method blank results are used to assess contamination from the laboratory environment and reagents.
- **Duplicate (Dup):** An additional or second portion of a randomly selected sample in the analytical run carried through the entire analytical process. Duplicates provide a measure of the analytical method's precision (reproducibility).
- **Blank Spike (BS):** A sample of known concentration which undergoes processing identical to that carried out for test samples, also referred to as a laboratory control sample (LCS). Blank spikes provide a measure of the analytical method's accuracy.
- **Matrix Spike (MS):** A second aliquot of sample is fortified with a known concentration of target analytes and carried through the entire analytical process. Matrix spikes evaluate potential matrix effects that may affect the analyte recovery.
- **Reference Material (SRM):** A homogenous material of similar matrix to the samples, certified for the parameter(s) listed. Reference Materials ensure that the analytical process is adequate to achieve acceptable recoveries of the parameter(s) tested.

Each QC type is analyzed at a 5-10% frequency, i.e. one blank/duplicate/spike for every 10-20 samples. For all types of QC, the specified recovery (% Rec) and relative percent difference (RPD) limits are derived from long-term method performance averages and/or prescribed by the reference method.

Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
Anions, Batch B5D3865									
Blank (B5D3865-BLK1)			Prepared: 2025-04-24, Analyzed: 2025-04-24						
Bromide	< 0.10	0.10 mg/L							
Chloride	< 0.10	0.10 mg/L							
Fluoride	< 0.10	0.10 mg/L							
Nitrate (as N)	< 0.010	0.010 mg/L							
Nitrite (as N)	< 0.010	0.010 mg/L							
Sulfate	< 1.0	1.0 mg/L							
Blank (B5D3865-BLK2)			Prepared: 2025-04-24, Analyzed: 2025-04-24						
Bromide	< 0.10	0.10 mg/L							
Chloride	< 0.10	0.10 mg/L							
Fluoride	< 0.10	0.10 mg/L							
Nitrate (as N)	< 0.010	0.010 mg/L							
Nitrite (as N)	< 0.010	0.010 mg/L							
Sulfate	< 1.0	1.0 mg/L							
LCS (B5D3865-BS1)			Prepared: 2025-04-24, Analyzed: 2025-04-24						
Bromide	3.83	0.10 mg/L	4.00		96	85-115			
Chloride	16.0	0.10 mg/L	16.0		100	90-110			
Fluoride	4.05	0.10 mg/L	4.00		101	88-108			
Nitrate (as N)	4.04	0.010 mg/L	4.00		101	90-110			
Nitrite (as N)	1.99	0.010 mg/L	2.00		99	85-115			
Sulfate	16.3	1.0 mg/L	16.0		102	90-110			
LCS (B5D3865-BS2)			Prepared: 2025-04-24, Analyzed: 2025-04-24						
Bromide	3.90	0.10 mg/L	4.00		97	85-115			
Chloride	16.0	0.10 mg/L	16.0		100	90-110			
Fluoride	4.15	0.10 mg/L	4.00		104	88-108			
Nitrate (as N)	4.04	0.010 mg/L	4.00		101	90-110			
Nitrite (as N)	1.94	0.010 mg/L	2.00		97	85-115			
Sulfate	16.1	1.0 mg/L	16.0		100	90-110			

Dissolved Metals, Batch B5D3996

Blank (B5D3996-BLK1)			Prepared: 2025-04-25, Analyzed: 2025-04-25						
Mercury, dissolved	< 0.000010	0.000010 mg/L							

APPENDIX 2: QUALITY CONTROL RESULTS

REPORTED TO PROJECT Regional District of Okanagan Similkameen
Keremeos - TLGW

WORK ORDER REPORTED 25D3017
2025-04-30 14:23

Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
Dissolved Metals, Batch B5D3996, Continued									
Blank (B5D3996-BLK2)			Prepared: 2025-04-25, Analyzed: 2025-04-25						
Mercury, dissolved	< 0.000010	0.000010 mg/L							
Blank (B5D3996-BLK3)			Prepared: 2025-04-25, Analyzed: 2025-04-25						
Mercury, dissolved	< 0.000010	0.000010 mg/L							
Blank (B5D3996-BLK4)			Prepared: 2025-04-25, Analyzed: 2025-04-25						
Mercury, dissolved	< 0.000010	0.000010 mg/L							
LCS (B5D3996-BS1)			Prepared: 2025-04-25, Analyzed: 2025-04-25						
Mercury, dissolved	0.00231	0.000010 mg/L	0.00250		93	80-120			
LCS (B5D3996-BS2)			Prepared: 2025-04-25, Analyzed: 2025-04-25						
Mercury, dissolved	0.00240	0.000010 mg/L	0.00250		96	80-120			
LCS (B5D3996-BS3)			Prepared: 2025-04-25, Analyzed: 2025-04-25						
Mercury, dissolved	0.00204	0.000010 mg/L	0.00250		81	80-120			
LCS (B5D3996-BS4)			Prepared: 2025-04-25, Analyzed: 2025-04-25						
Mercury, dissolved	0.00184	0.000010 mg/L	0.00250		74	80-120			SPK1

Dissolved Metals, Batch B5D4361

Blank (B5D4361-BLK1)			Prepared: 2025-04-30, Analyzed: 2025-04-30						
Aluminum, dissolved	< 0.0050	0.0050 mg/L							
Antimony, dissolved	< 0.00020	0.00020 mg/L							
Arsenic, dissolved	< 0.00050	0.00050 mg/L							
Barium, dissolved	< 0.0050	0.0050 mg/L							
Beryllium, dissolved	< 0.00010	0.00010 mg/L							
Bismuth, dissolved	< 0.00010	0.00010 mg/L							
Boron, dissolved	< 0.0500	0.0500 mg/L							
Cadmium, dissolved	< 0.000010	0.000010 mg/L							
Calcium, dissolved	< 0.20	0.20 mg/L							
Chromium, dissolved	< 0.00050	0.00050 mg/L							
Cobalt, dissolved	< 0.00010	0.00010 mg/L							
Copper, dissolved	< 0.00040	0.00040 mg/L							
Iron, dissolved	< 0.010	0.010 mg/L							
Lead, dissolved	< 0.00020	0.00020 mg/L							
Lithium, dissolved	< 0.00010	0.00010 mg/L							
Magnesium, dissolved	< 0.010	0.010 mg/L							
Manganese, dissolved	< 0.00020	0.00020 mg/L							
Molybdenum, dissolved	< 0.00010	0.00010 mg/L							
Nickel, dissolved	< 0.00040	0.00040 mg/L							
Phosphorus, dissolved	< 0.050	0.050 mg/L							
Potassium, dissolved	< 0.10	0.10 mg/L							
Selenium, dissolved	< 0.00050	0.00050 mg/L							
Silicon, dissolved	< 1.0	1.0 mg/L							
Silver, dissolved	< 0.000050	0.000050 mg/L							
Sodium, dissolved	< 0.10	0.10 mg/L							
Strontium, dissolved	< 0.0010	0.0010 mg/L							
Sulfur, dissolved	< 3.0	3.0 mg/L							
Tellurium, dissolved	< 0.00050	0.00050 mg/L							
Thallium, dissolved	< 0.000020	0.000020 mg/L							
Thorium, dissolved	< 0.00010	0.00010 mg/L							
Tin, dissolved	< 0.00020	0.00020 mg/L							
Titanium, dissolved	< 0.0050	0.0050 mg/L							
Tungsten, dissolved	< 0.0010	0.0010 mg/L							
Uranium, dissolved	< 0.000020	0.000020 mg/L							

APPENDIX 2: QUALITY CONTROL RESULTS

REPORTED TO PROJECT Regional District of Okanagan Similkameen
Keremeos - TLGW

WORK ORDER REPORTED 25D3017
2025-04-30 14:23

Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
Dissolved Metals, Batch B5D4361, Continued									
Blank (B5D4361-BLK1), Continued					Prepared: 2025-04-30, Analyzed: 2025-04-30				
Vanadium, dissolved	< 0.0050	0.0050 mg/L							
Zinc, dissolved	< 0.0040	0.0040 mg/L							
Zirconium, dissolved	< 0.00010	0.00010 mg/L							
LCS (B5D4361-BS1)					Prepared: 2025-04-30, Analyzed: 2025-04-30				
Aluminum, dissolved	4.06	0.0050 mg/L	4.00		101	80-120			
Antimony, dissolved	0.0404	0.00020 mg/L	0.0400		101	80-120			
Arsenic, dissolved	0.401	0.00050 mg/L	0.400		100	80-120			
Barium, dissolved	0.0408	0.0050 mg/L	0.0400		102	80-120			
Beryllium, dissolved	0.0416	0.00010 mg/L	0.0400		104	80-120			
Bismuth, dissolved	0.0409	0.00010 mg/L	0.0400		102	80-120			
Boron, dissolved	0.409	0.0500 mg/L	0.400		102	80-120			
Cadmium, dissolved	0.0402	0.000010 mg/L	0.0400		101	80-120			
Calcium, dissolved	4.04	0.20 mg/L	4.00		101	80-120			
Chromium, dissolved	0.0408	0.00050 mg/L	0.0400		102	80-120			
Cobalt, dissolved	0.0404	0.00010 mg/L	0.0400		101	80-120			
Copper, dissolved	0.0407	0.00040 mg/L	0.0400		102	80-120			
Iron, dissolved	4.06	0.010 mg/L	4.00		101	80-120			
Lead, dissolved	0.0410	0.00020 mg/L	0.0400		102	80-120			
Lithium, dissolved	0.0425	0.00010 mg/L	0.0400		106	80-120			
Magnesium, dissolved	4.05	0.010 mg/L	4.00		101	80-120			
Manganese, dissolved	0.0407	0.00020 mg/L	0.0400		102	80-120			
Molybdenum, dissolved	0.0399	0.00010 mg/L	0.0400		100	80-120			
Nickel, dissolved	0.0404	0.00040 mg/L	0.0400		101	80-120			
Phosphorus, dissolved	4.07	0.050 mg/L	4.00		102	80-120			
Potassium, dissolved	4.03	0.10 mg/L	4.00		101	80-120			
Selenium, dissolved	0.397	0.00050 mg/L	0.400		99	80-120			
Silicon, dissolved	4.0	1.0 mg/L	4.00		99	80-120			
Silver, dissolved	0.0395	0.000050 mg/L	0.0400		99	80-120			
Sodium, dissolved	4.10	0.10 mg/L	4.00		102	80-120			
Strontium, dissolved	0.0397	0.0010 mg/L	0.0400		99	80-120			
Sulfur, dissolved	39.9	3.0 mg/L	40.0		100	80-120			
Tellurium, dissolved	0.0405	0.00050 mg/L	0.0400		101	80-120			
Thallium, dissolved	0.0409	0.000020 mg/L	0.0400		102	80-120			
Thorium, dissolved	0.0409	0.00010 mg/L	0.0400		102	80-120			
Tin, dissolved	0.0396	0.00020 mg/L	0.0400		99	80-120			
Titanium, dissolved	0.0402	0.0050 mg/L	0.0400		100	80-120			
Tungsten, dissolved	0.0405	0.0010 mg/L	0.0400		101	80-120			
Uranium, dissolved	0.0418	0.000020 mg/L	0.0400		105	80-120			
Vanadium, dissolved	0.0405	0.0050 mg/L	0.0400		101	80-120			
Zinc, dissolved	0.404	0.0040 mg/L	0.400		101	80-120			
Zirconium, dissolved	0.0404	0.00010 mg/L	0.0400		101	80-120			

General Parameters, Batch B5D3827

Blank (B5D3827-BLK1)					Prepared: 2025-04-24, Analyzed: 2025-04-24				
Chemical Oxygen Demand	< 20	20 mg/L							
LCS (B5D3827-BS1)					Prepared: 2025-04-24, Analyzed: 2025-04-24				
Chemical Oxygen Demand	539	20 mg/L	500		108	89-115			

General Parameters, Batch B5D4021

Blank (B5D4021-BLK1)					Prepared: 2025-04-26, Analyzed: 2025-04-26				
Alkalinity, Total (as CaCO ₃)	< 1.0	1.0 mg/L							
Alkalinity, Phenolphthalein (as CaCO ₃)	< 1.0	1.0 mg/L							

APPENDIX 2: QUALITY CONTROL RESULTS

REPORTED TO PROJECT Regional District of Okanagan Similkameen
Keremeos - TLGW

WORK ORDER REPORTED 25D3017
2025-04-30 14:23

Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
General Parameters, Batch B5D4021, Continued									
Blank (B5D4021-BLK1), Continued				Prepared: 2025-04-26, Analyzed: 2025-04-26					
Alkalinity, Bicarbonate (as CaCO ₃)	< 1.0	1.0 mg/L							
Alkalinity, Carbonate (as CaCO ₃)	< 1.0	1.0 mg/L							
Alkalinity, Hydroxide (as CaCO ₃)	< 1.0	1.0 mg/L							
Conductivity (EC)	< 2.0	2.0 µS/cm							
Blank (B5D4021-BLK2)				Prepared: 2025-04-26, Analyzed: 2025-04-26					
Alkalinity, Total (as CaCO ₃)	< 1.0	1.0 mg/L							
Alkalinity, Phenolphthalein (as CaCO ₃)	< 1.0	1.0 mg/L							
Alkalinity, Bicarbonate (as CaCO ₃)	< 1.0	1.0 mg/L							
Alkalinity, Carbonate (as CaCO ₃)	< 1.0	1.0 mg/L							
Alkalinity, Hydroxide (as CaCO ₃)	< 1.0	1.0 mg/L							
Conductivity (EC)	< 2.0	2.0 µS/cm							
LCS (B5D4021-BS1)				Prepared: 2025-04-26, Analyzed: 2025-04-26					
Alkalinity, Total (as CaCO ₃)	88.7	1.0 mg/L	100		89	80-120			
LCS (B5D4021-BS2)				Prepared: 2025-04-26, Analyzed: 2025-04-26					
Conductivity (EC)	1400	2.0 µS/cm	1410		100	95-105			
LCS (B5D4021-BS3)				Prepared: 2025-04-26, Analyzed: 2025-04-26					
Alkalinity, Total (as CaCO ₃)	88.4	1.0 mg/L	100		88	80-120			
LCS (B5D4021-BS4)				Prepared: 2025-04-26, Analyzed: 2025-04-26					
Conductivity (EC)	1410	2.0 µS/cm	1410		100	95-105			
Reference (B5D4021-SRM1)				Prepared: 2025-04-26, Analyzed: 2025-04-26					
pH	7.02	0.10 pH units	7.01		100	98-102			
Reference (B5D4021-SRM2)				Prepared: 2025-04-26, Analyzed: 2025-04-26					
pH	7.02	0.10 pH units	7.01		100	98-102			
General Parameters, Batch B5D4120									
Blank (B5D4120-BLK1)				Prepared: 2025-04-28, Analyzed: 2025-04-28					
Ammonia, Total (as N)	< 0.050	0.050 mg/L							
Blank (B5D4120-BLK2)				Prepared: 2025-04-28, Analyzed: 2025-04-28					
Ammonia, Total (as N)	< 0.050	0.050 mg/L							
Blank (B5D4120-BLK3)				Prepared: 2025-04-28, Analyzed: 2025-04-28					
Ammonia, Total (as N)	< 0.050	0.050 mg/L							
Blank (B5D4120-BLK4)				Prepared: 2025-04-28, Analyzed: 2025-04-28					
Ammonia, Total (as N)	< 0.050	0.050 mg/L							
LCS (B5D4120-BS1)				Prepared: 2025-04-28, Analyzed: 2025-04-28					
Ammonia, Total (as N)	1.03	0.050 mg/L	1.00		103	85-115			
LCS (B5D4120-BS2)				Prepared: 2025-04-28, Analyzed: 2025-04-28					
Ammonia, Total (as N)	0.985	0.050 mg/L	1.00		98	85-115			
LCS (B5D4120-BS3)				Prepared: 2025-04-28, Analyzed: 2025-04-28					
Ammonia, Total (as N)	0.984	0.050 mg/L	1.00		98	85-115			
LCS (B5D4120-BS4)				Prepared: 2025-04-28, Analyzed: 2025-04-28					
Ammonia, Total (as N)	1.02	0.050 mg/L	1.00		102	85-115			

APPENDIX 2: QUALITY CONTROL RESULTS

REPORTED TO PROJECT Regional District of Okanagan Similkameen
Keremeos - TLGW

WORK ORDER REPORTED 25D3017
2025-04-30 14:23

Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
Total Metals, Batch B5D3996									
Blank (B5D3996-BLK1)			Prepared: 2025-04-25, Analyzed: 2025-04-25						
Mercury, total	< 0.000010	0.000010 mg/L							
Blank (B5D3996-BLK2)			Prepared: 2025-04-25, Analyzed: 2025-04-25						
Mercury, total	< 0.000010	0.000010 mg/L							
Blank (B5D3996-BLK3)			Prepared: 2025-04-25, Analyzed: 2025-04-25						
Mercury, total	< 0.000010	0.000010 mg/L							
Blank (B5D3996-BLK4)			Prepared: 2025-04-25, Analyzed: 2025-04-25						
Mercury, total	< 0.000010	0.000010 mg/L							
LCS (B5D3996-BS1)			Prepared: 2025-04-25, Analyzed: 2025-04-25						
Mercury, total	0.00231	0.000010 mg/L	0.00250		93	80-120			
LCS (B5D3996-BS2)			Prepared: 2025-04-25, Analyzed: 2025-04-25						
Mercury, total	0.00240	0.000010 mg/L	0.00250		96	80-120			
LCS (B5D3996-BS3)			Prepared: 2025-04-25, Analyzed: 2025-04-25						
Mercury, total	0.00204	0.000010 mg/L	0.00250		81	80-120			
LCS (B5D3996-BS4)			Prepared: 2025-04-25, Analyzed: 2025-04-25						
Mercury, total	0.00184	0.000010 mg/L	0.00250		74	80-120			SPK1

Total Metals, Batch B5D4154

Blank (B5D4154-BLK1)			Prepared: 2025-04-28, Analyzed: 2025-04-28						
Aluminum, total	< 0.0050	0.0050 mg/L							
Antimony, total	< 0.00020	0.00020 mg/L							
Arsenic, total	< 0.00050	0.00050 mg/L							
Barium, total	< 0.0050	0.0050 mg/L							
Beryllium, total	< 0.00010	0.00010 mg/L							
Bismuth, total	< 0.00010	0.00010 mg/L							
Boron, total	< 0.0500	0.0500 mg/L							
Cadmium, total	< 0.000010	0.000010 mg/L							
Calcium, total	< 0.20	0.20 mg/L							
Chromium, total	< 0.00050	0.00050 mg/L							
Cobalt, total	< 0.00010	0.00010 mg/L							
Copper, total	< 0.00040	0.00040 mg/L							
Iron, total	< 0.010	0.010 mg/L							
Lead, total	< 0.00020	0.00020 mg/L							
Lithium, total	< 0.00010	0.00010 mg/L							
Magnesium, total	< 0.010	0.010 mg/L							
Manganese, total	< 0.00020	0.00020 mg/L							
Molybdenum, total	< 0.00010	0.00010 mg/L							
Nickel, total	< 0.00040	0.00040 mg/L							
Phosphorus, total	< 0.050	0.050 mg/L							
Potassium, total	< 0.10	0.10 mg/L							
Selenium, total	< 0.00050	0.00050 mg/L							
Silicon, total	< 1.0	1.0 mg/L							
Silver, total	< 0.000050	0.000050 mg/L							
Sodium, total	< 0.10	0.10 mg/L							
Strontium, total	< 0.0010	0.0010 mg/L							
Sulfur, total	< 3.0	3.0 mg/L							
Tellurium, total	< 0.00050	0.00050 mg/L							
Thallium, total	< 0.000020	0.000020 mg/L							
Thorium, total	< 0.00010	0.00010 mg/L							
Tin, total	< 0.00020	0.00020 mg/L							

APPENDIX 2: QUALITY CONTROL RESULTS

REPORTED TO PROJECT Regional District of Okanagan Similkameen
Keremeos - TLGW

WORK ORDER REPORTED 25D3017
2025-04-30 14:23

Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier

Total Metals, Batch B5D4154, Continued

Blank (B5D4154-BLK1), Continued

Prepared: 2025-04-28, Analyzed: 2025-04-28

Titanium, total	< 0.0050	0.0050 mg/L							
Tungsten, total	< 0.0010	0.0010 mg/L							
Uranium, total	< 0.000020	0.000020 mg/L							
Vanadium, total	< 0.0050	0.0050 mg/L							
Zinc, total	< 0.0040	0.0040 mg/L							
Zirconium, total	< 0.00010	0.00010 mg/L							

LCS (B5D4154-BS1)

Prepared: 2025-04-28, Analyzed: 2025-04-28

Aluminum, total	4.04	0.0050 mg/L	4.00		101	80-120			
Antimony, total	0.0389	0.00020 mg/L	0.0400		97	80-120			
Arsenic, total	0.403	0.00050 mg/L	0.400		101	80-120			
Barium, total	0.0410	0.0050 mg/L	0.0400		103	80-120			
Beryllium, total	0.0351	0.00010 mg/L	0.0400		88	80-120			
Bismuth, total	0.0401	0.00010 mg/L	0.0400		100	80-120			
Boron, total	0.379	0.0500 mg/L	0.400		95	80-120			
Cadmium, total	0.0400	0.000010 mg/L	0.0400		100	80-120			
Calcium, total	4.04	0.20 mg/L	4.00		101	80-120			
Chromium, total	0.0420	0.00050 mg/L	0.0400		105	80-120			
Cobalt, total	0.0410	0.00010 mg/L	0.0400		103	80-120			
Copper, total	0.0405	0.00040 mg/L	0.0400		101	80-120			
Iron, total	4.03	0.010 mg/L	4.00		101	80-120			
Lead, total	0.0399	0.00020 mg/L	0.0400		100	80-120			
Lithium, total	0.0345	0.00010 mg/L	0.0400		86	80-120			
Magnesium, total	4.04	0.010 mg/L	4.00		101	80-120			
Manganese, total	0.0406	0.00020 mg/L	0.0400		102	80-120			
Molybdenum, total	0.0406	0.00010 mg/L	0.0400		101	80-120			
Nickel, total	0.0415	0.00040 mg/L	0.0400		104	80-120			
Phosphorus, total	3.97	0.050 mg/L	4.00		99	80-120			
Potassium, total	3.98	0.10 mg/L	4.00		99	80-120			
Selenium, total	0.405	0.00050 mg/L	0.400		101	80-120			
Silicon, total	4.0	1.0 mg/L	4.00		99	80-120			
Silver, total	0.0403	0.000050 mg/L	0.0400		101	80-120			
Sodium, total	3.98	0.10 mg/L	4.00		100	80-120			
Strontium, total	0.0408	0.0010 mg/L	0.0400		102	80-120			
Sulfur, total	40.2	3.0 mg/L	40.0		101	80-120			
Tellurium, total	0.0383	0.00050 mg/L	0.0400		96	80-120			
Thallium, total	0.0400	0.000020 mg/L	0.0400		100	80-120			
Thorium, total	0.0400	0.00010 mg/L	0.0400		100	80-120			
Tin, total	0.0396	0.00020 mg/L	0.0400		99	80-120			
Titanium, total	0.0399	0.0050 mg/L	0.0400		100	80-120			
Tungsten, total	0.0412	0.0010 mg/L	0.0400		103	80-120			
Uranium, total	0.0406	0.000020 mg/L	0.0400		101	80-120			
Vanadium, total	0.0406	0.0050 mg/L	0.0400		102	80-120			
Zinc, total	0.399	0.0040 mg/L	0.400		100	80-120			
Zirconium, total	0.0401	0.00010 mg/L	0.0400		100	80-120			

Matrix Spike (B5D4154-MS1)

Source: 25D3017-01

Prepared: 2025-04-28, Analyzed: 2025-04-28

Aluminum, total	4.14	0.0050 mg/L	4.00	0.0231	103	70-130			
Antimony, total	0.0408	0.00020 mg/L	0.0400	< 0.00020	102	70-130			
Arsenic, total	0.406	0.00050 mg/L	0.400	0.00096	101	70-130			
Barium, total	0.0894	0.0050 mg/L	0.0400	0.0481	103	70-130			
Beryllium, total	0.0397	0.00010 mg/L	0.0400	< 0.00010	99	70-130			
Bismuth, total	0.0404	0.00010 mg/L	0.0400	< 0.00010	101	70-130			
Boron, total	0.436	0.0500 mg/L	0.400	< 0.0500	102	70-130			
Cadmium, total	0.0401	0.000010 mg/L	0.0400	0.000028	100	70-130			
Calcium, total	109	0.20 mg/L	4.00	112	NR	70-130			MS2
Chromium, total	0.0428	0.00050 mg/L	0.0400	0.00260	100	70-130			

APPENDIX 2: QUALITY CONTROL RESULTS

REPORTED TO PROJECT Regional District of Okanagan Similkameen
Keremeos - TLGW

WORK ORDER REPORTED 25D3017
2025-04-30 14:23

Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
Total Metals, Batch B5D4154, Continued									
Matrix Spike (B5D4154-MS1), Continued		Source: 25D3017-01		Prepared: 2025-04-28, Analyzed: 2025-04-28					
Cobalt, total	0.0387	0.00010 mg/L	0.0400	< 0.00010	97	70-130			
Copper, total	0.0382	0.00040 mg/L	0.0400	0.00047	94	70-130			
Iron, total	4.02	0.010 mg/L	4.00	0.071	99	70-130			
Lead, total	0.0408	0.00020 mg/L	0.0400	< 0.00020	102	70-130			
Lithium, total	0.0461	0.00010 mg/L	0.0400	0.00596	100	70-130			
Magnesium, total	32.4	0.010 mg/L	4.00	28.6	95	70-130			
Manganese, total	0.0405	0.00020 mg/L	0.0400	0.00104	99	70-130			
Molybdenum, total	0.0446	0.00010 mg/L	0.0400	0.00234	106	70-130			
Nickel, total	0.0387	0.00040 mg/L	0.0400	0.00052	95	70-130			
Phosphorus, total	4.34	0.050 mg/L	4.00	< 0.050	108	70-130			
Potassium, total	7.84	0.10 mg/L	4.00	3.51	108	70-130			
Selenium, total	0.394	0.00050 mg/L	0.400	0.00464	97	70-130			
Silicon, total	14.1	1.0 mg/L	4.00	10.3	94	70-130			
Silver, total	0.0385	0.000050 mg/L	0.0400	< 0.000050	96	70-130			
Sodium, total	24.5	0.10 mg/L	4.00	20.7	93	70-130			
Strontium, total	0.810	0.0010 mg/L	0.0400	0.807	6	70-130			MS2
Sulfur, total	81.5	3.0 mg/L	40.0	41.1	101	70-130			
Tellurium, total	0.0411	0.00050 mg/L	0.0400	< 0.00050	103	70-130			
Thallium, total	0.0410	0.000020 mg/L	0.0400	< 0.000020	103	70-130			
Thorium, total	0.0419	0.00010 mg/L	0.0400	< 0.00010	105	70-130			
Tin, total	0.0410	0.00020 mg/L	0.0400	< 0.00020	102	70-130			
Titanium, total	0.0417	0.0050 mg/L	0.0400	< 0.0050	100	70-130			
Tungsten, total	0.0424	0.0010 mg/L	0.0400	< 0.0010	106	70-130			
Uranium, total	0.0451	0.000020 mg/L	0.0400	0.00298	105	70-130			
Vanadium, total	0.0424	0.0050 mg/L	0.0400	< 0.0050	103	70-130			
Zinc, total	0.379	0.0040 mg/L	0.400	< 0.0040	95	70-130			
Zirconium, total	0.0420	0.00010 mg/L	0.0400	< 0.00010	105	70-130			

Total Metals, Batch B5D4156

Blank (B5D4156-BLK1)		Prepared: 2025-04-28, Analyzed: 2025-04-29							
Aluminum, total	< 0.0050	0.0050 mg/L							
Antimony, total	< 0.00020	0.00020 mg/L							
Arsenic, total	< 0.00050	0.00050 mg/L							
Barium, total	< 0.0050	0.0050 mg/L							
Beryllium, total	< 0.00010	0.00010 mg/L							
Bismuth, total	< 0.00010	0.00010 mg/L							
Boron, total	< 0.0500	0.0500 mg/L							
Cadmium, total	< 0.000010	0.000010 mg/L							
Calcium, total	< 0.20	0.20 mg/L							
Chromium, total	< 0.00050	0.00050 mg/L							
Cobalt, total	< 0.00010	0.00010 mg/L							
Copper, total	< 0.00040	0.00040 mg/L							
Iron, total	< 0.010	0.010 mg/L							
Lead, total	< 0.00020	0.00020 mg/L							
Lithium, total	< 0.00010	0.00010 mg/L							
Magnesium, total	< 0.010	0.010 mg/L							
Manganese, total	< 0.00020	0.00020 mg/L							
Molybdenum, total	< 0.00010	0.00010 mg/L							
Nickel, total	< 0.00040	0.00040 mg/L							
Phosphorus, total	< 0.050	0.050 mg/L							
Potassium, total	< 0.10	0.10 mg/L							
Selenium, total	< 0.00050	0.00050 mg/L							
Silicon, total	< 1.0	1.0 mg/L							
Silver, total	< 0.000050	0.000050 mg/L							
Sodium, total	< 0.10	0.10 mg/L							

APPENDIX 2: QUALITY CONTROL RESULTS

REPORTED TO PROJECT Regional District of Okanagan Similkameen
Keremeos - TLGW

WORK ORDER REPORTED 25D3017
2025-04-30 14:23

Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier

Total Metals, Batch B5D4156, Continued

Blank (B5D4156-BLK1), Continued

Prepared: 2025-04-28, Analyzed: 2025-04-29

Strontium, total	< 0.0010	0.0010 mg/L							
Sulfur, total	< 3.0	3.0 mg/L							
Tellurium, total	< 0.00050	0.00050 mg/L							
Thallium, total	< 0.000020	0.000020 mg/L							
Thorium, total	< 0.00010	0.00010 mg/L							
Tin, total	< 0.00020	0.00020 mg/L							
Titanium, total	< 0.0050	0.0050 mg/L							
Tungsten, total	< 0.0010	0.0010 mg/L							
Uranium, total	< 0.000020	0.000020 mg/L							
Vanadium, total	< 0.0050	0.0050 mg/L							
Zinc, total	< 0.0040	0.0040 mg/L							
Zirconium, total	< 0.00010	0.00010 mg/L							

LCS (B5D4156-BS1)

Prepared: 2025-04-28, Analyzed: 2025-04-29

Aluminum, total	3.92	0.0050 mg/L	4.00	98	80-120
Antimony, total	0.0386	0.00020 mg/L	0.0400	97	80-120
Arsenic, total	0.396	0.00050 mg/L	0.400	99	80-120
Barium, total	0.0391	0.0050 mg/L	0.0400	98	80-120
Beryllium, total	0.0378	0.00010 mg/L	0.0400	94	80-120
Bismuth, total	0.0402	0.00010 mg/L	0.0400	100	80-120
Boron, total	0.397	0.0500 mg/L	0.400	99	80-120
Cadmium, total	0.0387	0.000010 mg/L	0.0400	97	80-120
Calcium, total	4.11	0.20 mg/L	4.00	103	80-120
Chromium, total	0.0404	0.00050 mg/L	0.0400	101	80-120
Cobalt, total	0.0401	0.00010 mg/L	0.0400	100	80-120
Copper, total	0.0402	0.00040 mg/L	0.0400	101	80-120
Iron, total	4.11	0.010 mg/L	4.00	103	80-120
Lead, total	0.0404	0.00020 mg/L	0.0400	101	80-120
Lithium, total	0.0371	0.00010 mg/L	0.0400	93	80-120
Magnesium, total	3.97	0.010 mg/L	4.00	99	80-120
Manganese, total	0.0404	0.00020 mg/L	0.0400	101	80-120
Molybdenum, total	0.0395	0.00010 mg/L	0.0400	99	80-120
Nickel, total	0.0407	0.00040 mg/L	0.0400	102	80-120
Phosphorus, total	3.90	0.050 mg/L	4.00	98	80-120
Potassium, total	3.91	0.10 mg/L	4.00	98	80-120
Selenium, total	0.406	0.00050 mg/L	0.400	101	80-120
Silicon, total	4.1	1.0 mg/L	4.00	103	80-120
Silver, total	0.0389	0.000050 mg/L	0.0400	97	80-120
Sodium, total	3.98	0.10 mg/L	4.00	100	80-120
Strontium, total	0.0396	0.0010 mg/L	0.0400	99	80-120
Sulfur, total	39.3	3.0 mg/L	40.0	98	80-120
Tellurium, total	0.0357	0.00050 mg/L	0.0400	89	80-120
Thallium, total	0.0403	0.000020 mg/L	0.0400	101	80-120
Thorium, total	0.0408	0.00010 mg/L	0.0400	102	80-120
Tin, total	0.0389	0.00020 mg/L	0.0400	97	80-120
Titanium, total	0.0400	0.0050 mg/L	0.0400	100	80-120
Tungsten, total	0.0406	0.0010 mg/L	0.0400	102	80-120
Uranium, total	0.0408	0.000020 mg/L	0.0400	102	80-120
Vanadium, total	0.0392	0.0050 mg/L	0.0400	98	80-120
Zinc, total	0.399	0.0040 mg/L	0.400	100	80-120
Zirconium, total	0.0385	0.00010 mg/L	0.0400	96	80-120



APPENDIX 2: QUALITY CONTROL RESULTS

REPORTED TO PROJECT	Regional District of Okanagan Similkameen Keremeos - TLGW	WORK ORDER REPORTED	25D3017 2025-04-30 14:23

QC Qualifiers:	
MS2	The native sample concentration is greater than the spike concentration hence the matrix spike limits do not apply.
SPK1	The recovery of this analyte was outside of established control limits. The data was accepted based on performance of other batch QC.

CERTIFICATE OF ANALYSIS

REPORTED TO	Regional District of Okanagan Similkameen 101 Martin Street Penticton, BC V2A 5J9	WORK ORDER	25G3083
ATTENTION	Rob Palmer	RECEIVED / TEMP	2025-07-22 10:17 / 6°C
PO NUMBER	20259001- TLDW	REPORTED	2025-07-28 11:58
PROJECT	Keremeos - TLDW	COC NUMBER	eCOC#00025879
PROJECT INFO			

Introduction:

CARO Analytical Services is a testing laboratory full of smart, engaged scientists driven to make the world a safer and healthier place. Through our clients' projects we become an essential element for a better world. We employ methods conducted in accordance with recognized professional standards using accepted testing methodologies and quality control efforts. CARO is accredited by the Canadian Association for Laboratories Accreditation (CALA) to ISO/IEC 17025:2017 for specific tests listed in the scope of accreditation approved by CALA.

Big Picture Sidekicks



You know that the sample you collected after snowshoeing to site, digging 5 meters, and racing to get it on a plane so you can submit it to the lab for time sensitive results needed to make important and expensive decisions (whew) is VERY important. We know that too.

We've Got Chemistry



It's simple. We figure the more you enjoy working with our fun and engaged team members; the more likely you are to give us continued opportunities to support you.

Ahead of the Curve



Through research, regulation knowledge, and instrumentation, we are your analytical centre for the technical knowledge you need, BEFORE you need it, so you can stay up to date and in the know.

Work Order Comments:

Custody Seals Intact: n/a

By engaging our services, you are agreeing to CARO Analytical Service's Standard Terms and Conditions outlined here:
<https://www.caro.ca/terms-conditions>

If you have any questions or concerns, please contact me at hhannaoui@caro.ca

Authorized By:

Hanane El Hannaoui
Junior Account Manager



1-888-311-8846 | www.caro.ca

#110 4011 Viking Way Richmond, BC V6V 2K9 | #102 3677 Highway 97N Kelowna, BC V1X 5C3 | 17225 109 Avenue Edmonton, AB T5S 1H7 |
#108 4475 Wayburne Drive Burnaby, BC V5G 4X4

TEST RESULTS

REPORTED TO PROJECT Regional District of Okanagan Similkameen
Keremeos - TLDW

CARO WO# REPORTED 25G3083
2025-07-28 11:58

Analyte	Result	Guideline	RL Units	Analyzed	Qualifier
IW 900 (25G3083-01) Matrix: Ground Water Sampled: 2025-07-21 14:20					
Anions					
Bromide	< 0.10	N/A	0.10 mg/L	2025-07-23	
Chloride	13.8	AO ≤ 250	0.10 mg/L	2025-07-23	
Fluoride	< 0.10	MAC = 1.5	0.10 mg/L	2025-07-23	
Nitrate (as N)	0.582	MAC = 10	0.010 mg/L	2025-07-23	
Nitrite (as N)	< 0.010	MAC = 1	0.010 mg/L	2025-07-23	
Sulfate	79.9	AO ≤ 500	1.0 mg/L	2025-07-23	
Calculated Parameters					
Bicarbonate (HCO ₃)	239	N/A	1.22 mg/L	N/A	
Carbonate (CO ₃)	< 0.600	N/A	0.600 mg/L	N/A	
Hydroxide (OH)	< 0.340	N/A	0.340 mg/L	N/A	
Hardness, Dissolved (as CaCO ₃)	314	N/A	0.500 mg/L	N/A	
Nitrate+Nitrite (as N)	0.582	N/A	0.0100 mg/L	N/A	
Dissolved Metals					
Aluminum, dissolved	< 0.0050	N/A	0.0050 mg/L	2025-07-23	
Antimony, dissolved	< 0.00020	N/A	0.00020 mg/L	2025-07-23	
Arsenic, dissolved	0.00141	N/A	0.00050 mg/L	2025-07-23	
Barium, dissolved	0.0391	N/A	0.0050 mg/L	2025-07-23	
Beryllium, dissolved	< 0.00010	N/A	0.00010 mg/L	2025-07-23	
Bismuth, dissolved	< 0.00010	N/A	0.00010 mg/L	2025-07-23	
Boron, dissolved	< 0.0500	N/A	0.0500 mg/L	2025-07-23	
Cadmium, dissolved	0.000018	N/A	0.000010 mg/L	2025-07-23	
Calcium, dissolved	91.0	N/A	0.20 mg/L	2025-07-23	
Chromium, dissolved	0.00176	N/A	0.00050 mg/L	2025-07-23	
Cobalt, dissolved	< 0.00010	N/A	0.00010 mg/L	2025-07-23	
Copper, dissolved	< 0.00040	N/A	0.00040 mg/L	2025-07-23	
Iron, dissolved	< 0.010	N/A	0.010 mg/L	2025-07-23	
Lead, dissolved	< 0.00020	N/A	0.00020 mg/L	2025-07-23	
Lithium, dissolved	0.00376	N/A	0.00010 mg/L	2025-07-27	
Magnesium, dissolved	20.9	N/A	0.010 mg/L	2025-07-23	
Manganese, dissolved	< 0.00020	N/A	0.00020 mg/L	2025-07-23	
Mercury, dissolved	< 0.000010	N/A	0.000010 mg/L	2025-07-27	
Molybdenum, dissolved	0.00257	N/A	0.00010 mg/L	2025-07-23	
Nickel, dissolved	< 0.00040	N/A	0.00040 mg/L	2025-07-23	
Phosphorus, dissolved	< 0.050	N/A	0.050 mg/L	2025-07-23	
Potassium, dissolved	3.48	N/A	0.10 mg/L	2025-07-23	
Selenium, dissolved	0.00266	N/A	0.00050 mg/L	2025-07-23	
Silicon, dissolved	11.2	N/A	1.0 mg/L	2025-07-23	
Silver, dissolved	< 0.000050	N/A	0.000050 mg/L	2025-07-23	
Sodium, dissolved	17.3	N/A	0.10 mg/L	2025-07-23	
Strontium, dissolved	0.609	N/A	0.0010 mg/L	2025-07-23	
Sulfur, dissolved	31.2	N/A	3.0 mg/L	2025-07-23	
Tellurium, dissolved	< 0.00050	N/A	0.00050 mg/L	2025-07-23	

TEST RESULTS

REPORTED TO PROJECT Regional District of Okanagan Similkameen
Keremeos - TLDW

CARO WO# REPORTED 25G3083
2025-07-28 11:58

Analyte	Result	Guideline	RL Units	Analyzed	Qualifier
IW 900 (25G3083-01) Matrix: Ground Water Sampled: 2025-07-21 14:20, Continued					
<i>Dissolved Metals, Continued</i>					
Thallium, dissolved	< 0.000020	N/A	0.000020 mg/L	2025-07-23	
Thorium, dissolved	< 0.00010	N/A	0.00010 mg/L	2025-07-23	
Tin, dissolved	< 0.00020	N/A	0.00020 mg/L	2025-07-23	
Titanium, dissolved	< 0.0050	N/A	0.0050 mg/L	2025-07-23	
Tungsten, dissolved	< 0.0010	N/A	0.0010 mg/L	2025-07-23	
Uranium, dissolved	0.00195	N/A	0.000020 mg/L	2025-07-23	
Vanadium, dissolved	< 0.0050	N/A	0.0050 mg/L	2025-07-23	
Zinc, dissolved	< 0.0040	N/A	0.0040 mg/L	2025-07-23	
Zirconium, dissolved	< 0.00010	N/A	0.00010 mg/L	2025-07-23	
<i>General Parameters</i>					
Alkalinity, Total (as CaCO ₃)	196	N/A	1.0 mg/L	2025-07-22	
Alkalinity, Phenolphthalein (as CaCO ₃)	< 1.0	N/A	1.0 mg/L	2025-07-22	
Alkalinity, Bicarbonate (as CaCO ₃)	196	N/A	1.0 mg/L	2025-07-22	
Alkalinity, Carbonate (as CaCO ₃)	< 1.0	N/A	1.0 mg/L	2025-07-22	
Alkalinity, Hydroxide (as CaCO ₃)	< 1.0	N/A	1.0 mg/L	2025-07-22	
Ammonia, Total (as N)	< 0.050	None Required	0.050 mg/L	2025-07-26	
Chemical Oxygen Demand	< 20	N/A	20 mg/L	2025-07-24	
Conductivity (EC)	602	N/A	2.0 µS/cm	2025-07-22	
pH	7.92	7.0-10.5	0.10 pH units	2025-07-22	HT2
<i>Microbiological Parameters</i>					
Coliforms, Total	< 1	MAC = 0	1 CFU/100 mL	2025-07-22	
E. coli	< 1	MAC = 0	1 CFU/100 mL	2025-07-22	
<i>Total Metals</i>					
Aluminum, total	< 0.0050	OG < 0.1	0.0050 mg/L	2025-07-25	
Antimony, total	< 0.00020	MAC = 0.006	0.00020 mg/L	2025-07-25	
Arsenic, total	0.00129	MAC = 0.01	0.00050 mg/L	2025-07-25	
Barium, total	0.0335	MAC = 2	0.0050 mg/L	2025-07-25	
Beryllium, total	< 0.00010	N/A	0.00010 mg/L	2025-07-25	
Bismuth, total	< 0.00010	N/A	0.00010 mg/L	2025-07-25	
Boron, total	< 0.0500	MAC = 5	0.0500 mg/L	2025-07-25	
Cadmium, total	0.000016	MAC = 0.007	0.000010 mg/L	2025-07-25	
Calcium, total	85.4	None Required	0.20 mg/L	2025-07-25	
Chromium, total	0.00174	MAC = 0.05	0.00050 mg/L	2025-07-25	
Cobalt, total	< 0.00010	N/A	0.00010 mg/L	2025-07-25	
Copper, total	< 0.00040	MAC = 2	0.00040 mg/L	2025-07-25	
Iron, total	< 0.010	AO ≤ 0.1	0.010 mg/L	2025-07-25	
Lead, total	< 0.00020	MAC = 0.005	0.00020 mg/L	2025-07-25	
Lithium, total	0.00335	N/A	0.00010 mg/L	2025-07-25	
Magnesium, total	17.1	None Required	0.010 mg/L	2025-07-25	
Manganese, total	< 0.00020	MAC = 0.12	0.00020 mg/L	2025-07-25	
Mercury, total	< 0.000010	MAC = 0.001	0.000010 mg/L	2025-07-24	
Molybdenum, total	0.00235	N/A	0.00010 mg/L	2025-07-25	

TEST RESULTS

REPORTED TO PROJECT Regional District of Okanagan Similkameen
Keremeos - TLDW

CARO WO# REPORTED 25G3083
2025-07-28 11:58

Analyte	Result	Guideline	RL Units	Analyzed	Qualifier
IW 900 (25G3083-01) Matrix: Ground Water Sampled: 2025-07-21 14:20, Continued					
Total Metals, Continued					
Nickel, total	< 0.00040	N/A	0.00040 mg/L	2025-07-25	
Phosphorus, total	< 0.050	N/A	0.050 mg/L	2025-07-25	
Potassium, total	3.03	N/A	0.10 mg/L	2025-07-25	
Selenium, total	0.00250	MAC = 0.05	0.00050 mg/L	2025-07-25	
Silicon, total	10.0	N/A	1.0 mg/L	2025-07-25	
Silver, total	< 0.000050	None Required	0.000050 mg/L	2025-07-25	
Sodium, total	14.9	AO ≤ 200	0.10 mg/L	2025-07-25	
Strontium, total	0.546	MAC = 7	0.0010 mg/L	2025-07-25	
Sulfur, total	30.6	N/A	3.0 mg/L	2025-07-25	
Tellurium, total	< 0.00050	N/A	0.00050 mg/L	2025-07-25	
Thallium, total	< 0.000020	N/A	0.000020 mg/L	2025-07-25	
Thorium, total	< 0.00010	N/A	0.00010 mg/L	2025-07-25	
Tin, total	< 0.00020	N/A	0.00020 mg/L	2025-07-25	
Titanium, total	< 0.0050	N/A	0.0050 mg/L	2025-07-25	
Tungsten, total	< 0.0010	N/A	0.0010 mg/L	2025-07-25	
Uranium, total	0.00180	MAC = 0.02	0.000020 mg/L	2025-07-25	
Vanadium, total	< 0.0050	N/A	0.0050 mg/L	2025-07-25	
Zinc, total	< 0.0040	AO ≤ 5	0.0040 mg/L	2025-07-25	
Zirconium, total	< 0.00010	N/A	0.00010 mg/L	2025-07-25	

Sample Qualifiers:

HT2 The 15 minute recommended holding time (from sampling to analysis) has been exceeded - field analysis is recommended.

APPENDIX 1: SUPPORTING INFORMATION

REPORTED TO PROJECT Regional District of Okanagan Similkameen
Keremeos - TLDW

CARO WO# REPORTED 25G3083
2025-07-28 11:58

Analysis Description	Method Ref.	Technique	Accredited	Location
Alkalinity in Water	SM 2320 B* (2021)	Titration with H ₂ SO ₄	✓	Kelowna
Ammonia, Total in Water	SM 4500-NH ₃ G* (2021)	Automated Colorimetry (Phenate)	✓	Kelowna
Anions in Water	SM 4110 B (2020)	Ion Chromatography	✓	Kelowna
Chemical Oxygen Demand in Water	SM 5220 D* (2022)	Closed Reflux, Colorimetry	✓	Kelowna
Coliforms, Total in Water	SM 9222* (2015)	Membrane Filtration / Chromocult Agar	✓	Kelowna
Conductivity in Water	SM 2510 B (2021)	Conductivity Meter	✓	Kelowna
Dissolved Metals in Water	EPA 200.8 / EPA 6020B	0.45 µm Filtration / Inductively Coupled Plasma-Mass Spectrometry (ICP-MS)	✓	Richmond
E. coli in Water	SM 9222* (2015)	Membrane Filtration / Chromocult Agar	✓	Kelowna
Hardness in Water	SM 2340 B (2021)	Calculation: 2.497 [diss Ca] + 4.118 [diss Mg]	✓	N/A
Mercury, dissolved in Water	EPA 245.7*	BrCl ₂ Oxidation / Cold Vapor Atomic Fluorescence Spectrometry (CVAFS)	✓	Richmond
Mercury, total in Water	EPA 245.7*	BrCl ₂ Oxidation / Cold Vapor Atomic Fluorescence Spectrometry (CVAFS)	✓	Richmond
pH in Water	SM 4500-H+ B (2021)	Electrometry	✓	Kelowna
Total Metals in Water	EPA 200.2 / EPA 6020B	HNO ₃ +HCl Hot Block Digestion / Inductively Coupled Plasma-Mass Spectrometry (ICP-MS)	✓	Richmond

Note: An asterisk in the Method Reference indicates that the CARO method has been modified from the reference method

Glossary of Terms:

RL	Reporting Limit (default)
<	Less than the specified Reporting Limit (RL) - the actual RL may be higher than the default RL due to various factors
AO	Aesthetic Objective
CFU/100 mL	Colony Forming Units per 100 millilitres
MAC	Maximum Acceptable Concentration (health based)
mg/L	Milligrams per litre
OG	Operational Guideline (treated water)
pH units	pH < 7 = acidic, pH > 7 = basic
µS/cm	Microsiemens per centimetre
EPA	United States Environmental Protection Agency Test Methods
SM	Standard Methods for the Examination of Water and Wastewater, American Public Health Association

APPENDIX 1: SUPPORTING INFORMATION

REPORTED TO PROJECT Regional District of Okanagan Similkameen
Keremeos - TLDW

CARO WO# 25G3083
REPORTED 2025-07-28 11:58

General Comments:

The results in this report apply to the received samples analyzed in accordance with the Chain of Custody document. This analytical report must be reproduced in its entirety. CARO is not responsible for any loss or damage resulting directly or indirectly from error or omission in the conduct of testing. Liability is limited to the cost of analysis. Samples will be disposed of 30 days after the test report has been issued or once samples expire, whichever comes first. Longer hold is possible if agreed to in writing.

Results in **Bold** indicate values that are above CARO's method reporting limits. Any results that are above regulatory limits are highlighted **red**. Please note that results will only be highlighted red if the regulatory limits are included on the CARO report. Any Bold and/or highlighted results do not take into account method uncertainty. If you would like method uncertainty or regulatory limits to be included on your report, please contact your Account Manager: [@Email](#)

Please note any regulatory guidelines applied to this report are added as a convenience to the client, at their request, to help provide some initial context to analytical results obtained. Although CARO makes every effort to ensure accuracy of the associated regulatory guideline(s) applied, the guidelines applied cannot be assumed to be correct due to a variety of factors and as such CARO Analytical Services assumes no liability or responsibility for the use of those guidelines to make any decisions. The original source of the regulation should be verified and a review of the guideline(s) should be validated as correct in order to make any decisions arising from the comparison of the analytical data obtained to the relevant regulatory guideline for one's particular circumstances. Further, CARO Analytical Services assumes no liability

APPENDIX 2: QUALITY CONTROL RESULTS

REPORTED TO PROJECT Regional District of Okanagan Similkameen
Keremeos - TLDW

CARO WO# 25G3083
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The following section displays the quality control (QC) data that is associated with your sample data. Groups of samples are prepared in "batches" and analyzed in conjunction with QC samples that ensure your data is of the highest quality. Common QC types include:

- **Method Blank (Blk):** A blank sample that undergoes sample processing identical to that carried out for the test samples. Method blank results are used to assess contamination from the laboratory environment and reagents.
- **Duplicate (Dup):** An additional or second portion of a randomly selected sample in the analytical run carried through the entire analytical process. Duplicates provide a measure of the analytical method's precision (reproducibility).
- **Blank Spike (BS):** A sample of known concentration which undergoes processing identical to that carried out for test samples, also referred to as a laboratory control sample (LCS). Blank spikes provide a measure of the analytical method's accuracy.
- **Matrix Spike (MS):** A second aliquot of sample is fortified with a known concentration of target analytes and carried through the entire analytical process. Matrix spikes evaluate potential matrix effects that may affect the analyte recovery.
- **Reference Material (SRM):** A homogenous material of similar matrix to the samples, certified for the parameter(s) listed. Reference Materials ensure that the analytical process is adequate to achieve acceptable recoveries of the parameter(s) tested.

Each QC type is analyzed at a 5-10% frequency, i.e. one blank/duplicate/spike for every 10-20 samples. For all types of QC, the specified recovery (% Rec) and relative percent difference (RPD) limits are derived from long-term method performance averages and/or prescribed by the reference method.

Analyte	Result	MRL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Notes

Anions, Batch B5G4186

Blank (B5G4186-BLK1)			Prepared: 2025-07-23, Analyzed: 2025-07-23						
Bromide	< 0.10	0.10 mg/L							
Chloride	< 0.10	0.10 mg/L							
Fluoride	< 0.10	0.10 mg/L							
Nitrate (as N)	< 0.010	0.010 mg/L							
Nitrite (as N)	< 0.010	0.010 mg/L							
Sulfate	< 1.0	1.0 mg/L							
LCS (B5G4186-BS1)			Prepared: 2025-07-23, Analyzed: 2025-07-23						
Bromide	3.93	0.10 mg/L	4.00		98	85-115			
Chloride	15.7	0.10 mg/L	16.0		98	90-110			
Fluoride	4.09	0.10 mg/L	4.00		102	88-108			
Nitrate (as N)	4.00	0.010 mg/L	4.00		100	90-110			
Nitrite (as N)	1.94	0.010 mg/L	2.00		97	85-115			
Sulfate	15.7	1.0 mg/L	16.0		98	90-110			

Dissolved Metals, Batch B5G4379

Blank (B5G4379-BLK1)			Prepared: 2025-07-22, Analyzed: 2025-07-23						
Aluminum, dissolved	< 0.0050	0.0050 mg/L							
Antimony, dissolved	< 0.00020	0.00020 mg/L							
Arsenic, dissolved	< 0.00050	0.00050 mg/L							
Barium, dissolved	< 0.0050	0.0050 mg/L							
Beryllium, dissolved	< 0.00010	0.00010 mg/L							
Bismuth, dissolved	< 0.00010	0.00010 mg/L							
Boron, dissolved	< 0.0500	0.0500 mg/L							
Cadmium, dissolved	< 0.000010	0.000010 mg/L							
Calcium, dissolved	< 0.20	0.20 mg/L							
Chromium, dissolved	< 0.00050	0.00050 mg/L							
Cobalt, dissolved	< 0.00010	0.00010 mg/L							
Copper, dissolved	< 0.00040	0.00040 mg/L							
Iron, dissolved	< 0.010	0.010 mg/L							
Lead, dissolved	< 0.00020	0.00020 mg/L							
Lithium, dissolved	< 0.00010	0.00010 mg/L							
Magnesium, dissolved	< 0.010	0.010 mg/L							
Manganese, dissolved	< 0.00020	0.00020 mg/L							
Molybdenum, dissolved	< 0.00010	0.00010 mg/L							

APPENDIX 2: QUALITY CONTROL RESULTS

REPORTED TO PROJECT Regional District of Okanagan Similkameen
Keremeos - TLDW

CARO WO# 25G3083
REPORTED 2025-07-28 11:58

Analyte	Result	MRL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Notes
Dissolved Metals, Batch B5G4379, Continued									
Blank (B5G4379-BLK1), Continued					Prepared: 2025-07-22, Analyzed: 2025-07-23				
Nickel, dissolved	< 0.00040	0.00040 mg/L							
Phosphorus, dissolved	< 0.050	0.050 mg/L							
Potassium, dissolved	< 0.10	0.10 mg/L							
Selenium, dissolved	< 0.00050	0.00050 mg/L							
Silicon, dissolved	< 1.0	1.0 mg/L							
Silver, dissolved	< 0.000050	0.000050 mg/L							
Sodium, dissolved	< 0.10	0.10 mg/L							
Strontium, dissolved	< 0.0010	0.0010 mg/L							
Sulfur, dissolved	< 3.0	3.0 mg/L							
Tellurium, dissolved	< 0.00050	0.00050 mg/L							
Thallium, dissolved	< 0.000020	0.000020 mg/L							
Thorium, dissolved	< 0.00010	0.00010 mg/L							
Tin, dissolved	< 0.00020	0.00020 mg/L							
Titanium, dissolved	< 0.0050	0.0050 mg/L							
Tungsten, dissolved	< 0.0010	0.0010 mg/L							
Uranium, dissolved	< 0.000020	0.000020 mg/L							
Vanadium, dissolved	< 0.0050	0.0050 mg/L							
Zinc, dissolved	< 0.0040	0.0040 mg/L							
Zirconium, dissolved	< 0.00010	0.00010 mg/L							
LCS (B5G4379-BS1)					Prepared: 2025-07-23, Analyzed: 2025-07-23				
Aluminum, dissolved	4.03	0.0050 mg/L	4.00		101	80-120			
Antimony, dissolved	0.0434	0.00020 mg/L	0.0400		109	80-120			
Arsenic, dissolved	0.422	0.00050 mg/L	0.400		105	80-120			
Barium, dissolved	0.0441	0.0050 mg/L	0.0400		110	80-120			
Beryllium, dissolved	0.0419	0.00010 mg/L	0.0400		105	80-120			
Bismuth, dissolved	0.0426	0.00010 mg/L	0.0400		106	80-120			
Boron, dissolved	0.417	0.0500 mg/L	0.400		104	80-120			
Cadmium, dissolved	0.0443	0.000010 mg/L	0.0400		111	80-120			
Calcium, dissolved	4.30	0.20 mg/L	4.00		107	80-120			
Chromium, dissolved	0.0424	0.00050 mg/L	0.0400		106	80-120			
Cobalt, dissolved	0.0423	0.00010 mg/L	0.0400		106	80-120			
Copper, dissolved	0.0424	0.00040 mg/L	0.0400		106	80-120			
Iron, dissolved	4.19	0.010 mg/L	4.00		105	80-120			
Lead, dissolved	0.0430	0.00020 mg/L	0.0400		107	80-120			
Lithium, dissolved	0.0410	0.00010 mg/L	0.0400		102	80-120			
Magnesium, dissolved	4.12	0.010 mg/L	4.00		103	80-120			
Manganese, dissolved	0.0419	0.00020 mg/L	0.0400		105	80-120			
Molybdenum, dissolved	0.0446	0.00010 mg/L	0.0400		111	80-120			
Nickel, dissolved	0.0421	0.00040 mg/L	0.0400		105	80-120			
Phosphorus, dissolved	4.03	0.050 mg/L	4.00		101	80-120			
Potassium, dissolved	4.05	0.10 mg/L	4.00		101	80-120			
Selenium, dissolved	0.441	0.00050 mg/L	0.400		110	80-120			
Silicon, dissolved	4.1	1.0 mg/L	4.00		103	80-120			
Silver, dissolved	0.0438	0.000050 mg/L	0.0400		109	80-120			
Sodium, dissolved	4.12	0.10 mg/L	4.00		103	80-120			
Strontium, dissolved	0.0417	0.0010 mg/L	0.0400		104	80-120			
Sulfur, dissolved	42.1	3.0 mg/L	40.0		105	80-120			
Tellurium, dissolved	0.0417	0.00050 mg/L	0.0400		104	80-120			
Thallium, dissolved	0.0428	0.000020 mg/L	0.0400		107	80-120			
Thorium, dissolved	0.0434	0.00010 mg/L	0.0400		108	80-120			
Tin, dissolved	0.0451	0.00020 mg/L	0.0400		113	80-120			
Titanium, dissolved	0.0408	0.0050 mg/L	0.0400		102	80-120			
Tungsten, dissolved	0.0435	0.0010 mg/L	0.0400		109	80-120			
Uranium, dissolved	0.0437	0.000020 mg/L	0.0400		109	80-120			
Vanadium, dissolved	0.0425	0.0050 mg/L	0.0400		106	80-120			

APPENDIX 2: QUALITY CONTROL RESULTS

REPORTED TO PROJECT Regional District of Okanagan Similkameen
Keremeos - TLDW

CARO WO# REPORTED 25G3083
2025-07-28 11:58

Analyte	Result	MRL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Notes

Dissolved Metals, Batch B5G4379, Continued

LCS (B5G4379-BS1), Continued			Prepared: 2025-07-23, Analyzed: 2025-07-23						
Zinc, dissolved	0.422	0.0040 mg/L	0.400		106	80-120			
Zirconium, dissolved	0.0444	0.00010 mg/L	0.0400		111	80-120			

Matrix Spike (B5G4379-MS1)			Source: 25G3083-01		Prepared: 2025-07-23, Analyzed: 2025-07-23				
Aluminum, dissolved	4.09	0.0050 mg/L	4.00	< 0.0050	102	70-130			
Antimony, dissolved	0.0453	0.00020 mg/L	0.0400	< 0.00020	113	70-130			
Arsenic, dissolved	0.426	0.00050 mg/L	0.400	0.00141	106	70-130			
Barium, dissolved	0.0802	0.0050 mg/L	0.0400	0.0391	103	70-130			
Beryllium, dissolved	0.0428	0.00010 mg/L	0.0400	< 0.00010	107	70-130			
Bismuth, dissolved	0.0407	0.00010 mg/L	0.0400	< 0.00010	102	70-130			
Boron, dissolved	0.432	0.0500 mg/L	0.400	< 0.0500	103	70-130			
Cadmium, dissolved	0.0438	0.000010 mg/L	0.0400	0.000018	109	70-130			
Calcium, dissolved	88.1	0.20 mg/L	4.00	91.0	NR	70-130			MS2
Chromium, dissolved	0.0429	0.00050 mg/L	0.0400	0.00176	103	70-130			
Cobalt, dissolved	0.0398	0.00010 mg/L	0.0400	< 0.00010	99	70-130			
Copper, dissolved	0.0394	0.00040 mg/L	0.0400	< 0.00040	98	70-130			
Iron, dissolved	4.08	0.010 mg/L	4.00	< 0.010	102	70-130			
Lead, dissolved	0.0416	0.00020 mg/L	0.0400	< 0.00020	104	70-130			
Lithium, dissolved	0.0452	0.00010 mg/L	0.0400	0.00376	104	70-130			
Magnesium, dissolved	22.4	0.010 mg/L	4.00	20.9	39	70-130			MS2
Manganese, dissolved	0.0407	0.00020 mg/L	0.0400	< 0.00020	102	70-130			
Molybdenum, dissolved	0.0477	0.00010 mg/L	0.0400	0.00257	113	70-130			
Nickel, dissolved	0.0396	0.00040 mg/L	0.0400	< 0.00040	99	70-130			
Phosphorus, dissolved	4.30	0.050 mg/L	4.00	< 0.050	107	70-130			
Potassium, dissolved	7.51	0.10 mg/L	4.00	3.48	101	70-130			
Selenium, dissolved	0.444	0.00050 mg/L	0.400	0.00266	110	70-130			
Silicon, dissolved	14.4	1.0 mg/L	4.00	11.2	80	70-130			
Silver, dissolved	0.0394	0.000050 mg/L	0.0400	< 0.000050	99	70-130			
Sodium, dissolved	19.2	0.10 mg/L	4.00	17.3	48	70-130			MS2
Strontium, dissolved	0.608	0.0010 mg/L	0.0400	0.609	NR	70-130			MS2
Sulfur, dissolved	71.8	3.0 mg/L	40.0	31.2	102	70-130			
Tellurium, dissolved	0.0448	0.00050 mg/L	0.0400	< 0.00050	112	70-130			
Thallium, dissolved	0.0417	0.000020 mg/L	0.0400	< 0.000020	104	70-130			
Thorium, dissolved	0.0431	0.00010 mg/L	0.0400	< 0.00010	108	70-130			
Tin, dissolved	0.0455	0.00020 mg/L	0.0400	< 0.00020	114	70-130			
Titanium, dissolved	0.0406	0.0050 mg/L	0.0400	< 0.0050	101	70-130			
Tungsten, dissolved	0.0436	0.0010 mg/L	0.0400	< 0.0010	109	70-130			
Uranium, dissolved	0.0452	0.000020 mg/L	0.0400	0.00195	108	70-130			
Vanadium, dissolved	0.0428	0.0050 mg/L	0.0400	< 0.0050	104	70-130			
Zinc, dissolved	0.410	0.0040 mg/L	0.400	< 0.0040	102	70-130			
Zirconium, dissolved	0.0449	0.00010 mg/L	0.0400	< 0.00010	112	70-130			

Dissolved Metals, Batch B5G4781

Blank (B5G4781-BLK1)			Prepared: 2025-07-27, Analyzed: 2025-07-27						
Mercury, dissolved	< 0.000010	0.000010 mg/L							
Blank (B5G4781-BLK2)			Prepared: 2025-07-27, Analyzed: 2025-07-27						
Mercury, dissolved	< 0.000010	0.000010 mg/L							
Blank (B5G4781-BLK3)			Prepared: 2025-07-27, Analyzed: 2025-07-27						
Mercury, dissolved	< 0.000010	0.000010 mg/L							

APPENDIX 2: QUALITY CONTROL RESULTS

REPORTED TO PROJECT Regional District of Okanagan Similkameen
Keremeos - TLDW

CARO WO# 25G3083
REPORTED 2025-07-28 11:58

Analyte	Result	MRL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Notes
Dissolved Metals, Batch B5G4781, Continued									
Blank (B5G4781-BLK4)				Prepared: 2025-07-27, Analyzed: 2025-07-27					
Mercury, dissolved	< 0.000010	0.000010 mg/L							
LCS (B5G4781-BS1)				Prepared: 2025-07-27, Analyzed: 2025-07-27					
Mercury, dissolved	0.00259	0.000010 mg/L	0.00250		104	80-120			
LCS (B5G4781-BS2)				Prepared: 2025-07-27, Analyzed: 2025-07-27					
Mercury, dissolved	0.00252	0.000010 mg/L	0.00250		101	80-120			
LCS (B5G4781-BS3)				Prepared: 2025-07-27, Analyzed: 2025-07-27					
Mercury, dissolved	0.00269	0.000010 mg/L	0.00250		107	80-120			
LCS (B5G4781-BS4)				Prepared: 2025-07-27, Analyzed: 2025-07-27					
Mercury, dissolved	0.00256	0.000010 mg/L	0.00250		102	80-120			
Matrix Spike (B5G4781-MS3)				Source: 25G3083-01		Prepared: 2025-07-27, Analyzed: 2025-07-27			
Mercury, dissolved	0.00235	0.000010 mg/L	0.00250	< 0.000010	94	70-130			

General Parameters, Batch B5G4223

Blank (B5G4223-BLK1)				Prepared: 2025-07-22, Analyzed: 2025-07-22					
Alkalinity, Total (as CaCO ₃)	< 1.0	1.0 mg/L							
Alkalinity, Phenolphthalein (as CaCO ₃)	< 1.0	1.0 mg/L							
Alkalinity, Bicarbonate (as CaCO ₃)	< 1.0	1.0 mg/L							
Alkalinity, Carbonate (as CaCO ₃)	< 1.0	1.0 mg/L							
Alkalinity, Hydroxide (as CaCO ₃)	< 1.0	1.0 mg/L							
Conductivity (EC)	1.6	1.0 µS/cm							
Blank (B5G4223-BLK2)				Prepared: 2025-07-22, Analyzed: 2025-07-22					
Alkalinity, Total (as CaCO ₃)	< 1.0	1.0 mg/L							
Alkalinity, Phenolphthalein (as CaCO ₃)	< 1.0	1.0 mg/L							
Alkalinity, Bicarbonate (as CaCO ₃)	< 1.0	1.0 mg/L							
Alkalinity, Carbonate (as CaCO ₃)	< 1.0	1.0 mg/L							
Alkalinity, Hydroxide (as CaCO ₃)	< 1.0	1.0 mg/L							
Conductivity (EC)	1.2	1.0 µS/cm							
Blank (B5G4223-BLK3)				Prepared: 2025-07-22, Analyzed: 2025-07-22					
Alkalinity, Total (as CaCO ₃)	< 1.0	1.0 mg/L							
Alkalinity, Phenolphthalein (as CaCO ₃)	< 1.0	1.0 mg/L							
Alkalinity, Bicarbonate (as CaCO ₃)	< 1.0	1.0 mg/L							
Alkalinity, Carbonate (as CaCO ₃)	< 1.0	1.0 mg/L							
Alkalinity, Hydroxide (as CaCO ₃)	< 1.0	1.0 mg/L							
Conductivity (EC)	1.9	1.0 µS/cm							

General Parameters, Batch B5G4327

Blank (B5G4327-BLK1)				Prepared: 2025-07-24, Analyzed: 2025-07-24					
Chemical Oxygen Demand	< 20	20 mg/L							
LCS (B5G4327-BS1)				Prepared: 2025-07-24, Analyzed: 2025-07-24					
Chemical Oxygen Demand	498	20 mg/L	500		100	89-115			

General Parameters, Batch B5G4707

Blank (B5G4707-BLK1)				Prepared: 2025-07-26, Analyzed: 2025-07-26					
Ammonia, Total (as N)	< 0.050	0.050 mg/L							

APPENDIX 2: QUALITY CONTROL RESULTS

REPORTED TO PROJECT Regional District of Okanagan Similkameen
Keremeos - TLDW

CARO WO# 25G3083
REPORTED 2025-07-28 11:58

Analyte	Result	MRL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Notes
General Parameters, Batch B5G4707, Continued									
Blank (B5G4707-BLK2)				Prepared: 2025-07-26, Analyzed: 2025-07-26					
Ammonia, Total (as N)	< 0.050	0.050 mg/L							
LCS (B5G4707-BS1)				Prepared: 2025-07-26, Analyzed: 2025-07-26					
Ammonia, Total (as N)	1.00	0.050 mg/L	1.00		100	85-115			
LCS (B5G4707-BS2)				Prepared: 2025-07-26, Analyzed: 2025-07-26					
Ammonia, Total (as N)	0.981	0.050 mg/L	1.00		98	85-115			
Microbiological Parameters, Batch B5G4090									
Blank (B5G4090-BLK1)				Prepared: 2025-07-22, Analyzed: 2025-07-22					
Coliforms, Total	< 1	1 CFU/100 mL							
E. coli	< 1	1 CFU/100 mL							
Blank (B5G4090-BLK2)				Prepared: 2025-07-22, Analyzed: 2025-07-22					
Coliforms, Total	< 1	1 CFU/100 mL							
E. coli	< 1	1 CFU/100 mL							
Blank (B5G4090-BLK3)				Prepared: 2025-07-22, Analyzed: 2025-07-22					
Coliforms, Total	< 1	1 CFU/100 mL							
E. coli	< 1	1 CFU/100 mL							
Blank (B5G4090-BLK4)				Prepared: 2025-07-22, Analyzed: 2025-07-22					
Coliforms, Total	< 1	1 CFU/100 mL							
E. coli	< 1	1 CFU/100 mL							
Blank (B5G4090-BLK5)				Prepared: 2025-07-22, Analyzed: 2025-07-22					
Coliforms, Total	< 1	1 CFU/100 mL							
E. coli	< 1	1 CFU/100 mL							
Blank (B5G4090-BLK6)				Prepared: 2025-07-22, Analyzed: 2025-07-22					
Coliforms, Total	< 1	1 CFU/100 mL							
E. coli	< 1	1 CFU/100 mL							
Blank (B5G4090-BLK7)				Prepared: 2025-07-22, Analyzed: 2025-07-22					
Coliforms, Total	< 1	1 CFU/100 mL							
E. coli	< 1	1 CFU/100 mL							
Blank (B5G4090-BLK8)				Prepared: 2025-07-22, Analyzed: 2025-07-22					
Coliforms, Total	< 1	1 CFU/100 mL							
E. coli	< 1	1 CFU/100 mL							
Blank (B5G4090-BLK9)				Prepared: 2025-07-22, Analyzed: 2025-07-22					
Coliforms, Total	< 1	1 CFU/100 mL							
E. coli	< 1	1 CFU/100 mL							
Blank (B5G4090-BLKA)				Prepared: 2025-07-22, Analyzed: 2025-07-22					
Coliforms, Total	< 1	1 CFU/100 mL							
E. coli	< 1	1 CFU/100 mL							
Blank (B5G4090-BLKB)				Prepared: 2025-07-22, Analyzed: 2025-07-22					
Coliforms, Total	< 1	1 CFU/100 mL							
E. coli	< 1	1 CFU/100 mL							
Blank (B5G4090-BLKC)				Prepared: 2025-07-22, Analyzed: 2025-07-22					
Coliforms, Total	< 1	1 CFU/100 mL							
E. coli	< 1	1 CFU/100 mL							

APPENDIX 2: QUALITY CONTROL RESULTS

REPORTED TO PROJECT Regional District of Okanagan Similkameen
Keremeos - TLDW

CARO WO# 25G3083
REPORTED 2025-07-28 11:58

Analyte	Result	MRL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Notes
Total Metals, Batch B5G4448									
Blank (B5G4448-BLK1)				Prepared: 2025-07-24, Analyzed: 2025-07-24					
Mercury, total	< 0.000010	0.000010 mg/L							
Blank (B5G4448-BLK2)				Prepared: 2025-07-24, Analyzed: 2025-07-24					
Mercury, total	< 0.000010	0.000010 mg/L							
Blank (B5G4448-BLK3)				Prepared: 2025-07-24, Analyzed: 2025-07-24					
Mercury, total	< 0.000010	0.000010 mg/L							
Blank (B5G4448-BLK4)				Prepared: 2025-07-24, Analyzed: 2025-07-24					
Mercury, total	< 0.000010	0.000010 mg/L							
LCS (B5G4448-BS1)				Prepared: 2025-07-24, Analyzed: 2025-07-24					
Mercury, total	0.00280	0.000010 mg/L	0.00250		112	80-120			
LCS (B5G4448-BS2)				Prepared: 2025-07-24, Analyzed: 2025-07-24					
Mercury, total	0.00246	0.000010 mg/L	0.00250		98	80-120			
LCS (B5G4448-BS3)				Prepared: 2025-07-24, Analyzed: 2025-07-24					
Mercury, total	0.00288	0.000010 mg/L	0.00250		115	80-120			
LCS (B5G4448-BS4)				Prepared: 2025-07-24, Analyzed: 2025-07-24					
Mercury, total	0.00251	0.000010 mg/L	0.00250		101	80-120			
Matrix Spike (B5G4448-MS4)				Source: 25G3083-01		Prepared: 2025-07-24, Analyzed: 2025-07-24			
Mercury, total	0.00224	0.000010 mg/L	0.00250	< 0.000010	90	70-130			

Total Metals, Batch B5G4462

Blank (B5G4462-BLK1)				Prepared: 2025-07-24, Analyzed: 2025-07-25					
Aluminum, total	< 0.0050	0.0050 mg/L							
Antimony, total	< 0.00020	0.00020 mg/L							
Arsenic, total	< 0.00050	0.00050 mg/L							
Barium, total	< 0.0050	0.0050 mg/L							
Beryllium, total	< 0.00010	0.00010 mg/L							
Bismuth, total	< 0.00010	0.00010 mg/L							
Boron, total	< 0.0500	0.0500 mg/L							
Cadmium, total	< 0.000010	0.000010 mg/L							
Calcium, total	< 0.20	0.20 mg/L							
Chromium, total	< 0.00050	0.00050 mg/L							
Cobalt, total	< 0.00010	0.00010 mg/L							
Copper, total	< 0.00040	0.00040 mg/L							
Iron, total	< 0.010	0.010 mg/L							
Lead, total	< 0.00020	0.00020 mg/L							
Lithium, total	< 0.00010	0.00010 mg/L							
Magnesium, total	< 0.010	0.010 mg/L							
Manganese, total	< 0.00020	0.00020 mg/L							
Molybdenum, total	< 0.00010	0.00010 mg/L							
Nickel, total	< 0.00040	0.00040 mg/L							
Phosphorus, total	< 0.050	0.050 mg/L							
Potassium, total	< 0.10	0.10 mg/L							
Selenium, total	< 0.00050	0.00050 mg/L							
Silicon, total	< 1.0	1.0 mg/L							
Silver, total	< 0.000050	0.000050 mg/L							
Sodium, total	< 0.10	0.10 mg/L							
Strontium, total	< 0.0010	0.0010 mg/L							
Sulfur, total	< 3.0	3.0 mg/L							

APPENDIX 2: QUALITY CONTROL RESULTS

REPORTED TO PROJECT Regional District of Okanagan Similkameen
Keremeos - TLDW

CARO WO# REPORTED 25G3083
2025-07-28 11:58

Analyte	Result	MRL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Notes
Total Metals, Batch B5G4462, Continued									
Blank (B5G4462-BLK1), Continued			Prepared: 2025-07-24, Analyzed: 2025-07-25						
Tellurium, total	< 0.00050	0.00050 mg/L							
Thallium, total	< 0.000020	0.000020 mg/L							
Thorium, total	< 0.00010	0.00010 mg/L							
Tin, total	< 0.00020	0.00020 mg/L							
Titanium, total	< 0.0050	0.0050 mg/L							
Tungsten, total	< 0.0010	0.0010 mg/L							
Uranium, total	< 0.000020	0.000020 mg/L							
Vanadium, total	< 0.0050	0.0050 mg/L							
Zinc, total	< 0.0040	0.0040 mg/L							
Zirconium, total	< 0.00010	0.00010 mg/L							
LCS (B5G4462-BS1)			Prepared: 2025-07-24, Analyzed: 2025-07-25						
Aluminum, total	4.04	0.0050 mg/L	4.00		101	80-120			
Antimony, total	0.0387	0.00020 mg/L	0.0400		97	80-120			
Arsenic, total	0.395	0.00050 mg/L	0.400		99	80-120			
Barium, total	0.0403	0.0050 mg/L	0.0400		101	80-120			
Beryllium, total	0.0387	0.00010 mg/L	0.0400		97	80-120			
Bismuth, total	0.0401	0.00010 mg/L	0.0400		100	80-120			
Boron, total	0.396	0.0500 mg/L	0.400		99	80-120			
Cadmium, total	0.0392	0.000010 mg/L	0.0400		98	80-120			
Calcium, total	4.11	0.20 mg/L	4.00		103	80-120			
Chromium, total	0.0406	0.00050 mg/L	0.0400		102	80-120			
Cobalt, total	0.0400	0.00010 mg/L	0.0400		100	80-120			
Copper, total	0.0397	0.00040 mg/L	0.0400		99	80-120			
Iron, total	3.95	0.010 mg/L	4.00		99	80-120			
Lead, total	0.0405	0.00020 mg/L	0.0400		101	80-120			
Lithium, total	0.0384	0.00010 mg/L	0.0400		96	80-120			
Magnesium, total	3.94	0.010 mg/L	4.00		98	80-120			
Manganese, total	0.0407	0.00020 mg/L	0.0400		102	80-120			
Molybdenum, total	0.0397	0.00010 mg/L	0.0400		99	80-120			
Nickel, total	0.0398	0.00040 mg/L	0.0400		99	80-120			
Phosphorus, total	4.01	0.050 mg/L	4.00		100	80-120			
Potassium, total	4.06	0.10 mg/L	4.00		101	80-120			
Selenium, total	0.397	0.00050 mg/L	0.400		99	80-120			
Silicon, total	4.2	1.0 mg/L	4.00		105	80-120			
Silver, total	0.0390	0.000050 mg/L	0.0400		97	80-120			
Sodium, total	3.91	0.10 mg/L	4.00		98	80-120			
Strontium, total	0.0399	0.0010 mg/L	0.0400		100	80-120			
Sulfur, total	44.0	3.0 mg/L	40.0		110	80-120			
Tellurium, total	0.0380	0.00050 mg/L	0.0400		95	80-120			
Thallium, total	0.0403	0.000020 mg/L	0.0400		101	80-120			
Thorium, total	0.0398	0.00010 mg/L	0.0400		100	80-120			
Tin, total	0.0397	0.00020 mg/L	0.0400		99	80-120			
Titanium, total	0.0410	0.0050 mg/L	0.0400		102	80-120			
Tungsten, total	0.0397	0.0010 mg/L	0.0400		99	80-120			
Uranium, total	0.0401	0.000020 mg/L	0.0400		100	80-120			
Vanadium, total	0.0397	0.0050 mg/L	0.0400		99	80-120			
Zinc, total	0.395	0.0040 mg/L	0.400		99	80-120			
Zirconium, total	0.0407	0.00010 mg/L	0.0400		102	80-120			
Matrix Spike (B5G4462-MS1)			Source: 25G3083-01 Prepared: 2025-07-24, Analyzed: 2025-07-25						
Aluminum, total	4.03	0.0050 mg/L	4.00	< 0.0050	101	70-130			
Antimony, total	0.0436	0.00020 mg/L	0.0400	< 0.00020	109	70-130			
Arsenic, total	0.413	0.00050 mg/L	0.400	0.00129	103	70-130			
Barium, total	0.0780	0.0050 mg/L	0.0400	0.0335	111	70-130			
Beryllium, total	0.0412	0.00010 mg/L	0.0400	< 0.00010	103	70-130			

APPENDIX 2: QUALITY CONTROL RESULTS

REPORTED TO PROJECT Regional District of Okanagan Similkameen
Keremeos - TLDW

CARO WO# REPORTED 25G3083
2025-07-28 11:58

Analyte	Result	MRL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Notes
Total Metals, Batch B5G4462, Continued									
Matrix Spike (B5G4462-MS1), Continued		Source: 25G3083-01		Prepared: 2025-07-24, Analyzed: 2025-07-25					
Bismuth, total	0.0407	0.00010 mg/L	0.0400	< 0.00010	102	70-130			
Boron, total	0.430	0.0500 mg/L	0.400	< 0.0500	103	70-130			
Cadmium, total	0.0421	0.000010 mg/L	0.0400	0.000016	105	70-130			
Calcium, total	88.3	0.20 mg/L	4.00	85.4	74	70-130			
Chromium, total	0.0428	0.00050 mg/L	0.0400	0.00174	103	70-130			
Cobalt, total	0.0396	0.00010 mg/L	0.0400	< 0.00010	99	70-130			
Copper, total	0.0388	0.00040 mg/L	0.0400	< 0.00040	96	70-130			
Iron, total	4.08	0.010 mg/L	4.00	< 0.010	102	70-130			
Lead, total	0.0413	0.00020 mg/L	0.0400	< 0.00020	103	70-130			
Lithium, total	0.0447	0.00010 mg/L	0.0400	0.00335	103	70-130			
Magnesium, total	21.0	0.010 mg/L	4.00	17.1	98	70-130			
Manganese, total	0.0410	0.00020 mg/L	0.0400	< 0.00020	102	70-130			
Molybdenum, total	0.0461	0.00010 mg/L	0.0400	0.00235	109	70-130			
Nickel, total	0.0392	0.00040 mg/L	0.0400	< 0.00040	97	70-130			
Phosphorus, total	4.22	0.050 mg/L	4.00	< 0.050	105	70-130			
Potassium, total	7.21	0.10 mg/L	4.00	3.03	105	70-130			
Selenium, total	0.419	0.00050 mg/L	0.400	0.00250	104	70-130			
Silicon, total	14.2	1.0 mg/L	4.00	10.0	105	70-130			
Silver, total	0.0282	0.000050 mg/L	0.0400	< 0.000050	71	70-130			
Sodium, total	18.6	0.10 mg/L	4.00	14.9	93	70-130			
Strontium, total	0.579	0.0010 mg/L	0.0400	0.546	84	70-130			
Sulfur, total	72.0	3.0 mg/L	40.0	30.6	103	70-130			
Tellurium, total	0.0409	0.00050 mg/L	0.0400	< 0.00050	102	70-130			
Thallium, total	0.0412	0.000020 mg/L	0.0400	< 0.000020	103	70-130			
Thorium, total	0.0424	0.00010 mg/L	0.0400	< 0.00010	106	70-130			
Tin, total	0.0438	0.00020 mg/L	0.0400	< 0.00020	110	70-130			
Titanium, total	0.0420	0.0050 mg/L	0.0400	< 0.0050	105	70-130			
Tungsten, total	0.0413	0.0010 mg/L	0.0400	< 0.0010	103	70-130			
Uranium, total	0.0439	0.000020 mg/L	0.0400	0.00180	105	70-130			
Vanadium, total	0.0419	0.0050 mg/L	0.0400	< 0.0050	102	70-130			
Zinc, total	0.401	0.0040 mg/L	0.400	< 0.0040	100	70-130			
Zirconium, total	0.0440	0.00010 mg/L	0.0400	< 0.00010	110	70-130			

QC Qualifiers:

MS2 The native sample concentration is greater than the spike concentration hence the matrix spike limits do not apply.

CERTIFICATE OF ANALYSIS

REPORTED TO Regional District of Okanagan Similkameen
101 Martin Street
Penticton, BC V2A 5J9

ATTENTION Rob Palmer

PO NUMBER 20259001-TLGW
PROJECT Keremeos - TLGW

PROJECT INFO

WORK ORDER 25G3085

RECEIVED / TEMP 2025-07-22 10:17 / 5.6°C
REPORTED 2025-07-28 09:34
COC NUMBER eCOC#00025874

Introduction:

CARO Analytical Services is a testing laboratory full of smart, engaged scientists driven to make the world a safer and healthier place. Through our clients' projects we become an essential element for a better world. We employ methods conducted in accordance with recognized professional standards using accepted testing methodologies and quality control efforts. CARO is accredited by the Canadian Association for Laboratories Accreditation (CALA) to ISO/IEC 17025:2017 for specific tests listed in the scope of accreditation approved by CALA.

Big Picture Sidekicks



You know that the sample you collected after snowshoeing to site, digging 5 meters, and racing to get it on a plane so you can submit it to the lab for time sensitive results needed to make important and expensive decisions (whew) is VERY important. We know that too.

We've Got Chemistry



It's simple. We figure the more you enjoy working with our fun and engaged team members; the more likely you are to give us continued opportunities to support you.

Ahead of the Curve



Through research, regulation knowledge, and instrumentation, we are your analytical centre for the technical knowledge you need, BEFORE you need it, so you can stay up to date and in the know.

Work Order Comments:

Custody Seals Intact: n/a

By engaging our services, you are agreeing to CARO Analytical Service's Standard Terms and Conditions outlined here:
<https://www.caro.ca/terms-conditions>

If you have any questions or concerns, please contact me at hhannaoui@caro.ca

Authorized By:

Hanane El Hannaoui
Junior Account Manager

1-888-311-8846 | www.caro.ca

#110 4011 Viking Way Richmond, BC V6V 2K9 | #102 3677 Highway 97N Kelowna, BC V1X 5C3 | 17225 109 Avenue Edmonton, AB T5S 1H7 |
#108 4475 Wayburne Drive Burnaby, BC V5G 4X4

TEST RESULTS

REPORTED TO PROJECT Regional District of Okanagan Similkameen
Keremeos - TLGW

WORK ORDER REPORTED 25G3085
2025-07-28 09:34

Analyte	Result	Guideline	RL Units	Analyzed	Qualifier
MW 20-01 (25G3085-01) Matrix: Ground Water Sampled: 2025-07-21 11:40					
Anions					
Bromide	< 0.10	N/A	0.10 mg/L	2025-07-23	
Chloride	14.6	AO ≤ 250	0.10 mg/L	2025-07-23	
Fluoride	0.15	MAC = 1.5	0.10 mg/L	2025-07-23	
Nitrate (as N)	6.74	MAC = 10	0.010 mg/L	2025-07-23	
Nitrite (as N)	< 0.010	MAC = 1	0.010 mg/L	2025-07-23	
Sulfate	180	AO ≤ 500	1.0 mg/L	2025-07-23	
Calculated Parameters					
Bicarbonate (HCO ₃)	346	N/A	1.22 mg/L	N/A	
Carbonate (CO ₃)	< 0.600	N/A	0.600 mg/L	N/A	
Hydroxide (OH)	< 0.340	N/A	0.340 mg/L	N/A	
Hardness, Dissolved (as CaCO ₃)	483	N/A	0.500 mg/L	N/A	
Nitrate+Nitrite (as N)	6.74	N/A	0.100 mg/L	N/A	
Dissolved Metals					
Aluminum, dissolved	< 0.0050	N/A	0.0050 mg/L	2025-07-24	
Antimony, dissolved	< 0.00020	N/A	0.00020 mg/L	2025-07-24	
Arsenic, dissolved	0.00088	N/A	0.00050 mg/L	2025-07-24	
Barium, dissolved	0.0619	N/A	0.0050 mg/L	2025-07-24	
Beryllium, dissolved	< 0.00010	N/A	0.00010 mg/L	2025-07-24	
Bismuth, dissolved	< 0.00010	N/A	0.00010 mg/L	2025-07-24	
Boron, dissolved	< 0.0500	N/A	0.0500 mg/L	2025-07-24	
Cadmium, dissolved	0.000031	N/A	0.000010 mg/L	2025-07-24	
Calcium, dissolved	136	N/A	0.20 mg/L	2025-07-24	
Chromium, dissolved	0.00244	N/A	0.00050 mg/L	2025-07-24	
Cobalt, dissolved	< 0.00010	N/A	0.00010 mg/L	2025-07-24	
Copper, dissolved	< 0.00040	N/A	0.00040 mg/L	2025-07-24	
Iron, dissolved	< 0.010	N/A	0.010 mg/L	2025-07-24	
Lead, dissolved	< 0.00020	N/A	0.00020 mg/L	2025-07-24	
Lithium, dissolved	0.00795	N/A	0.00010 mg/L	2025-07-24	
Magnesium, dissolved	35.0	N/A	0.010 mg/L	2025-07-24	
Manganese, dissolved	< 0.00020	N/A	0.00020 mg/L	2025-07-24	
Mercury, dissolved	< 0.000010	N/A	0.000010 mg/L	2025-07-27	
Molybdenum, dissolved	0.00210	N/A	0.00010 mg/L	2025-07-24	
Nickel, dissolved	0.00054	N/A	0.00040 mg/L	2025-07-24	
Phosphorus, dissolved	< 0.050	N/A	0.050 mg/L	2025-07-24	
Potassium, dissolved	4.04	N/A	0.10 mg/L	2025-07-24	
Selenium, dissolved	0.0109	N/A	0.00050 mg/L	2025-07-24	
Silicon, dissolved	12.4	N/A	1.0 mg/L	2025-07-24	
Silver, dissolved	< 0.000050	N/A	0.000050 mg/L	2025-07-24	
Sodium, dissolved	26.1	N/A	0.10 mg/L	2025-07-24	
Strontium, dissolved	0.911	N/A	0.0010 mg/L	2025-07-24	
Sulfur, dissolved	61.5	N/A	3.0 mg/L	2025-07-24	
Tellurium, dissolved	< 0.00050	N/A	0.00050 mg/L	2025-07-24	

TEST RESULTS

REPORTED TO PROJECT Regional District of Okanagan Similkameen
Keremeos - TLGW

WORK ORDER REPORTED 25G3085
2025-07-28 09:34

Analyte	Result	Guideline	RL	Units	Analyzed	Qualifier

MW 20-01 (25G3085-01) | Matrix: Ground Water | Sampled: 2025-07-21 11:40, Continued

Dissolved Metals, Continued

Thallium, dissolved	< 0.000020	N/A	0.000020	mg/L	2025-07-24	
Thorium, dissolved	< 0.00010	N/A	0.00010	mg/L	2025-07-24	
Tin, dissolved	< 0.00020	N/A	0.00020	mg/L	2025-07-24	
Titanium, dissolved	< 0.0050	N/A	0.0050	mg/L	2025-07-24	
Tungsten, dissolved	< 0.0010	N/A	0.0010	mg/L	2025-07-24	
Uranium, dissolved	0.00405	N/A	0.000020	mg/L	2025-07-24	
Vanadium, dissolved	< 0.0050	N/A	0.0050	mg/L	2025-07-24	
Zinc, dissolved	< 0.0040	N/A	0.0040	mg/L	2025-07-24	
Zirconium, dissolved	< 0.00010	N/A	0.00010	mg/L	2025-07-24	

General Parameters

Alkalinity, Total (as CaCO ₃)	284	N/A	1.0	mg/L	2025-07-22	
Alkalinity, Phenolphthalein (as CaCO ₃)	< 1.0	N/A	1.0	mg/L	2025-07-22	
Alkalinity, Bicarbonate (as CaCO ₃)	284	N/A	1.0	mg/L	2025-07-22	
Alkalinity, Carbonate (as CaCO ₃)	< 1.0	N/A	1.0	mg/L	2025-07-22	
Alkalinity, Hydroxide (as CaCO ₃)	< 1.0	N/A	1.0	mg/L	2025-07-22	
Ammonia, Total (as N)	< 0.050	None Required	0.050	mg/L	2025-07-26	
Chemical Oxygen Demand	< 20	N/A	20	mg/L	2025-07-24	
Conductivity (EC)	923	N/A	2.0	µS/cm	2025-07-22	
pH	7.84	7.0-10.5	0.10	pH units	2025-07-22	HT2

MW 20-02 (25G3085-02) | Matrix: Ground Water | Sampled: 2025-07-21 13:10

Anions

Bromide	< 0.10	N/A	0.10	mg/L	2025-07-23	
Chloride	20.2	AO ≤ 250	0.10	mg/L	2025-07-23	
Fluoride	< 0.10	MAC = 1.5	0.10	mg/L	2025-07-23	
Nitrate (as N)	3.46	MAC = 10	0.010	mg/L	2025-07-23	
Nitrite (as N)	< 0.010	MAC = 1	0.010	mg/L	2025-07-23	
Sulfate	177	AO ≤ 500	1.0	mg/L	2025-07-23	

Calculated Parameters

Bicarbonate (HCO ₃)	361	N/A	1.22	mg/L	N/A	
Carbonate (CO ₃)	< 0.600	N/A	0.600	mg/L	N/A	
Hydroxide (OH)	< 0.340	N/A	0.340	mg/L	N/A	
Hardness, Dissolved (as CaCO ₃)	514	N/A	0.500	mg/L	N/A	
Nitrate+Nitrite (as N)	3.46	N/A	0.100	mg/L	N/A	

Dissolved Metals

Aluminum, dissolved	< 0.0050	N/A	0.0050	mg/L	2025-07-24	
Antimony, dissolved	< 0.00020	N/A	0.00020	mg/L	2025-07-24	
Arsenic, dissolved	0.00085	N/A	0.00050	mg/L	2025-07-24	
Barium, dissolved	0.0663	N/A	0.0050	mg/L	2025-07-24	
Beryllium, dissolved	< 0.00010	N/A	0.00010	mg/L	2025-07-24	

TEST RESULTS

REPORTED TO PROJECT Regional District of Okanagan Similkameen
Keremeos - TLGW

WORK ORDER REPORTED 25G3085
2025-07-28 09:34

Analyte	Result	Guideline	RL	Units	Analyzed	Qualifier

MW 20-02 (25G3085-02) | Matrix: Ground Water | Sampled: 2025-07-21 13:10, Continued

Dissolved Metals, Continued

Bismuth, dissolved	< 0.00010	N/A	0.00010	mg/L	2025-07-24	
Boron, dissolved	< 0.0500	N/A	0.0500	mg/L	2025-07-24	
Cadmium, dissolved	0.000030	N/A	0.000010	mg/L	2025-07-24	
Calcium, dissolved	142	N/A	0.20	mg/L	2025-07-24	
Chromium, dissolved	0.00227	N/A	0.00050	mg/L	2025-07-24	
Cobalt, dissolved	< 0.00010	N/A	0.00010	mg/L	2025-07-24	
Copper, dissolved	< 0.00040	N/A	0.00040	mg/L	2025-07-24	
Iron, dissolved	< 0.010	N/A	0.010	mg/L	2025-07-24	
Lead, dissolved	< 0.00020	N/A	0.00020	mg/L	2025-07-24	
Lithium, dissolved	0.00781	N/A	0.00010	mg/L	2025-07-24	
Magnesium, dissolved	38.4	N/A	0.010	mg/L	2025-07-24	
Manganese, dissolved	< 0.00020	N/A	0.00020	mg/L	2025-07-24	
Mercury, dissolved	< 0.000010	N/A	0.000010	mg/L	2025-07-27	
Molybdenum, dissolved	0.00195	N/A	0.00010	mg/L	2025-07-24	
Nickel, dissolved	0.00067	N/A	0.00040	mg/L	2025-07-24	
Phosphorus, dissolved	< 0.050	N/A	0.050	mg/L	2025-07-24	
Potassium, dissolved	4.07	N/A	0.10	mg/L	2025-07-24	
Selenium, dissolved	0.00956	N/A	0.00050	mg/L	2025-07-24	
Silicon, dissolved	12.3	N/A	1.0	mg/L	2025-07-24	
Silver, dissolved	< 0.000050	N/A	0.000050	mg/L	2025-07-24	
Sodium, dissolved	25.3	N/A	0.10	mg/L	2025-07-24	
Strontium, dissolved	0.984	N/A	0.0010	mg/L	2025-07-24	
Sulfur, dissolved	66.2	N/A	3.0	mg/L	2025-07-24	
Tellurium, dissolved	< 0.00050	N/A	0.00050	mg/L	2025-07-24	
Thallium, dissolved	< 0.000020	N/A	0.000020	mg/L	2025-07-24	
Thorium, dissolved	< 0.00010	N/A	0.00010	mg/L	2025-07-24	
Tin, dissolved	< 0.00020	N/A	0.00020	mg/L	2025-07-24	
Titanium, dissolved	< 0.0050	N/A	0.0050	mg/L	2025-07-24	
Tungsten, dissolved	< 0.0010	N/A	0.0010	mg/L	2025-07-24	
Uranium, dissolved	0.00472	N/A	0.000020	mg/L	2025-07-24	
Vanadium, dissolved	< 0.0050	N/A	0.0050	mg/L	2025-07-24	
Zinc, dissolved	< 0.0040	N/A	0.0040	mg/L	2025-07-24	
Zirconium, dissolved	< 0.00010	N/A	0.00010	mg/L	2025-07-24	

General Parameters

Alkalinity, Total (as CaCO3)	296	N/A	1.0	mg/L	2025-07-22	
Alkalinity, Phenolphthalein (as CaCO3)	< 1.0	N/A	1.0	mg/L	2025-07-22	
Alkalinity, Bicarbonate (as CaCO3)	296	N/A	1.0	mg/L	2025-07-22	
Alkalinity, Carbonate (as CaCO3)	< 1.0	N/A	1.0	mg/L	2025-07-22	
Alkalinity, Hydroxide (as CaCO3)	< 1.0	N/A	1.0	mg/L	2025-07-22	
Ammonia, Total (as N)	< 0.050	None Required	0.050	mg/L	2025-07-26	
Chemical Oxygen Demand	< 20	N/A	20	mg/L	2025-07-24	
Conductivity (EC)	978	N/A	2.0	µS/cm	2025-07-22	

TEST RESULTS

REPORTED TO PROJECT Regional District of Okanagan Similkameen
Keremeos - TLGW

WORK ORDER REPORTED 25G3085
2025-07-28 09:34

Analyte	Result	Guideline	RL	Units	Analyzed	Qualifier
MW 20-02 (25G3085-02) Matrix: Ground Water Sampled: 2025-07-21 13:10, Continued						
<i>General Parameters, Continued</i>						
pH	7.81	7.0-10.5	0.10	pH units	2025-07-22	HT2

BH 99-1 (25G3085-03) | Matrix: Ground Water | Sampled: 2025-07-21 14:00

Anions

Bromide	< 0.10	N/A	0.10	mg/L	2025-07-23	
Chloride	16.7	AO ≤ 250	0.10	mg/L	2025-07-23	
Fluoride	0.16	MAC = 1.5	0.10	mg/L	2025-07-23	
Nitrate (as N)	2.95	MAC = 10	0.010	mg/L	2025-07-23	
Nitrite (as N)	< 0.010	MAC = 1	0.010	mg/L	2025-07-23	
Sulfate	121	AO ≤ 500	1.0	mg/L	2025-07-23	

Calculated Parameters

Bicarbonate (HCO ₃)	305	N/A	1.22	mg/L	N/A	
Carbonate (CO ₃)	< 0.600	N/A	0.600	mg/L	N/A	
Hydroxide (OH)	< 0.340	N/A	0.340	mg/L	N/A	
Hardness, Dissolved (as CaCO ₃)	392	N/A	0.500	mg/L	N/A	
Nitrate+Nitrite (as N)	2.95	N/A	0.100	mg/L	N/A	

Dissolved Metals

Aluminum, dissolved	< 0.0050	N/A	0.0050	mg/L	2025-07-24	
Antimony, dissolved	< 0.00020	N/A	0.00020	mg/L	2025-07-24	
Arsenic, dissolved	0.00103	N/A	0.00050	mg/L	2025-07-24	
Barium, dissolved	0.0476	N/A	0.0050	mg/L	2025-07-24	
Beryllium, dissolved	< 0.00010	N/A	0.00010	mg/L	2025-07-24	
Bismuth, dissolved	< 0.00010	N/A	0.00010	mg/L	2025-07-24	
Boron, dissolved	< 0.0500	N/A	0.0500	mg/L	2025-07-24	
Cadmium, dissolved	0.000027	N/A	0.000010	mg/L	2025-07-24	
Calcium, dissolved	112	N/A	0.20	mg/L	2025-07-24	
Chromium, dissolved	0.00255	N/A	0.00050	mg/L	2025-07-24	
Cobalt, dissolved	< 0.00010	N/A	0.00010	mg/L	2025-07-24	
Copper, dissolved	< 0.00040	N/A	0.00040	mg/L	2025-07-24	
Iron, dissolved	< 0.010	N/A	0.010	mg/L	2025-07-24	
Lead, dissolved	< 0.00020	N/A	0.00020	mg/L	2025-07-24	
Lithium, dissolved	0.00537	N/A	0.00010	mg/L	2025-07-24	
Magnesium, dissolved	27.0	N/A	0.010	mg/L	2025-07-24	
Manganese, dissolved	< 0.00020	N/A	0.00020	mg/L	2025-07-24	
Mercury, dissolved	< 0.000010	N/A	0.000010	mg/L	2025-07-27	
Molybdenum, dissolved	0.00207	N/A	0.00010	mg/L	2025-07-24	
Nickel, dissolved	0.00137	N/A	0.00040	mg/L	2025-07-24	
Phosphorus, dissolved	< 0.050	N/A	0.050	mg/L	2025-07-24	
Potassium, dissolved	3.78	N/A	0.10	mg/L	2025-07-24	
Selenium, dissolved	0.00357	N/A	0.00050	mg/L	2025-07-24	

TEST RESULTS

REPORTED TO PROJECT Regional District of Okanagan Similkameen
Keremeos - TLGW

WORK ORDER REPORTED 25G3085
2025-07-28 09:34

Analyte	Result	Guideline	RL	Units	Analyzed	Qualifier

BH 99-1 (25G3085-03) | Matrix: Ground Water | Sampled: 2025-07-21 14:00, Continued

Dissolved Metals, Continued

Silicon, dissolved	12.0	N/A	1.0	mg/L	2025-07-24	
Silver, dissolved	< 0.000050	N/A	0.000050	mg/L	2025-07-24	
Sodium, dissolved	20.0	N/A	0.10	mg/L	2025-07-24	
Strontium, dissolved	0.761	N/A	0.0010	mg/L	2025-07-24	
Sulfur, dissolved	40.4	N/A	3.0	mg/L	2025-07-24	
Tellurium, dissolved	< 0.00050	N/A	0.00050	mg/L	2025-07-24	
Thallium, dissolved	< 0.000020	N/A	0.000020	mg/L	2025-07-24	
Thorium, dissolved	< 0.00010	N/A	0.00010	mg/L	2025-07-24	
Tin, dissolved	< 0.00020	N/A	0.00020	mg/L	2025-07-24	
Titanium, dissolved	< 0.0050	N/A	0.0050	mg/L	2025-07-24	
Tungsten, dissolved	< 0.0010	N/A	0.0010	mg/L	2025-07-24	
Uranium, dissolved	0.00276	N/A	0.000020	mg/L	2025-07-24	
Vanadium, dissolved	< 0.0050	N/A	0.0050	mg/L	2025-07-24	
Zinc, dissolved	< 0.0040	N/A	0.0040	mg/L	2025-07-24	
Zirconium, dissolved	< 0.00010	N/A	0.00010	mg/L	2025-07-24	

General Parameters

Alkalinity, Total (as CaCO ₃)	250	N/A	1.0	mg/L	2025-07-22	
Alkalinity, Phenolphthalein (as CaCO ₃)	< 1.0	N/A	1.0	mg/L	2025-07-22	
Alkalinity, Bicarbonate (as CaCO ₃)	250	N/A	1.0	mg/L	2025-07-22	
Alkalinity, Carbonate (as CaCO ₃)	< 1.0	N/A	1.0	mg/L	2025-07-22	
Alkalinity, Hydroxide (as CaCO ₃)	< 1.0	N/A	1.0	mg/L	2025-07-22	
Ammonia, Total (as N)	< 0.050	None Required	0.050	mg/L	2025-07-26	
Chemical Oxygen Demand	< 20	N/A	20	mg/L	2025-07-24	
Conductivity (EC)	770	N/A	2.0	µS/cm	2025-07-22	
pH	7.89	7.0-10.5	0.10	pH units	2025-07-22	HT2

MW 24-03 (25G3085-04) | Matrix: Ground Water | Sampled: 2025-07-21 15:30

Anions

Bromide	< 0.10	N/A	0.10	mg/L	2025-07-23	
Chloride	22.9	AO ≤ 250	0.10	mg/L	2025-07-23	
Fluoride	< 0.10	MAC = 1.5	0.10	mg/L	2025-07-23	
Nitrate (as N)	7.32	MAC = 10	0.010	mg/L	2025-07-23	
Nitrite (as N)	< 0.010	MAC = 1	0.010	mg/L	2025-07-23	
Sulfate	283	AO ≤ 500	1.0	mg/L	2025-07-23	

Calculated Parameters

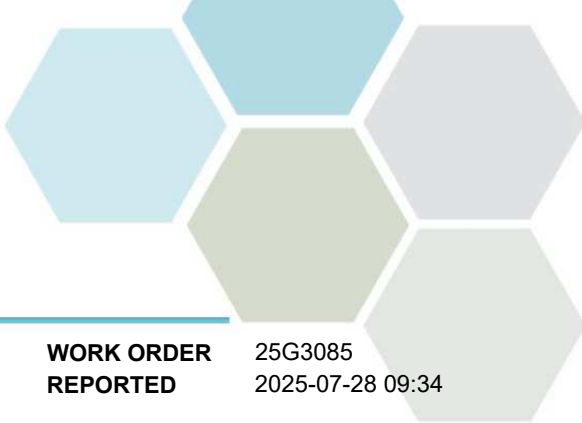
Bicarbonate (HCO ₃)	437	N/A	1.22	mg/L	N/A	
Carbonate (CO ₃)	< 0.600	N/A	0.600	mg/L	N/A	
Hydroxide (OH)	< 0.340	N/A	0.340	mg/L	N/A	
Hardness, Dissolved (as CaCO ₃)	702	N/A	0.500	mg/L	N/A	
Nitrate+Nitrite (as N)	7.32	N/A	0.100	mg/L	N/A	

TEST RESULTS

REPORTED TO PROJECT Regional District of Okanagan Similkameen
Keremeos - TLGW

WORK ORDER REPORTED 25G3085
2025-07-28 09:34

Analyte	Result	Guideline	RL	Units	Analyzed	Qualifier
MW 24-03 (25G3085-04) Matrix: Ground Water Sampled: 2025-07-21 15:30, Continued						
Dissolved Metals						
Aluminum, dissolved	< 0.0050	N/A	0.0050	mg/L	2025-07-24	
Antimony, dissolved	< 0.00020	N/A	0.00020	mg/L	2025-07-24	
Arsenic, dissolved	0.00106	N/A	0.00050	mg/L	2025-07-24	
Barium, dissolved	0.0784	N/A	0.0050	mg/L	2025-07-24	
Beryllium, dissolved	< 0.00010	N/A	0.00010	mg/L	2025-07-24	
Bismuth, dissolved	< 0.00010	N/A	0.00010	mg/L	2025-07-24	
Boron, dissolved	< 0.0500	N/A	0.0500	mg/L	2025-07-24	
Cadmium, dissolved	0.000042	N/A	0.000010	mg/L	2025-07-24	
Calcium, dissolved	136	N/A	0.20	mg/L	2025-07-24	
Chromium, dissolved	0.00306	N/A	0.00050	mg/L	2025-07-24	
Cobalt, dissolved	< 0.00010	N/A	0.00010	mg/L	2025-07-24	
Copper, dissolved	< 0.00040	N/A	0.00040	mg/L	2025-07-24	
Iron, dissolved	< 0.010	N/A	0.010	mg/L	2025-07-24	
Lead, dissolved	< 0.00020	N/A	0.00020	mg/L	2025-07-24	
Lithium, dissolved	0.0149	N/A	0.00010	mg/L	2025-07-24	
Magnesium, dissolved	88.1	N/A	0.010	mg/L	2025-07-24	
Manganese, dissolved	0.00026	N/A	0.00020	mg/L	2025-07-24	
Mercury, dissolved	< 0.000010	N/A	0.000010	mg/L	2025-07-27	
Molybdenum, dissolved	0.00288	N/A	0.00010	mg/L	2025-07-24	
Nickel, dissolved	0.00100	N/A	0.00040	mg/L	2025-07-24	
Phosphorus, dissolved	< 0.050	N/A	0.050	mg/L	2025-07-24	
Potassium, dissolved	4.95	N/A	0.10	mg/L	2025-07-24	
Selenium, dissolved	0.00795	N/A	0.00050	mg/L	2025-07-24	
Silicon, dissolved	13.0	N/A	1.0	mg/L	2025-07-24	
Silver, dissolved	< 0.000050	N/A	0.000050	mg/L	2025-07-24	
Sodium, dissolved	36.8	N/A	0.10	mg/L	2025-07-24	
Strontium, dissolved	1.27	N/A	0.0010	mg/L	2025-07-24	
Sulfur, dissolved	101	N/A	3.0	mg/L	2025-07-24	
Tellurium, dissolved	< 0.00050	N/A	0.00050	mg/L	2025-07-24	
Thallium, dissolved	< 0.000020	N/A	0.000020	mg/L	2025-07-24	
Thorium, dissolved	< 0.00010	N/A	0.00010	mg/L	2025-07-24	
Tin, dissolved	< 0.00020	N/A	0.00020	mg/L	2025-07-24	
Titanium, dissolved	< 0.0050	N/A	0.0050	mg/L	2025-07-24	
Tungsten, dissolved	< 0.0010	N/A	0.0010	mg/L	2025-07-24	
Uranium, dissolved	0.00838	N/A	0.000020	mg/L	2025-07-24	
Vanadium, dissolved	< 0.0050	N/A	0.0050	mg/L	2025-07-24	
Zinc, dissolved	< 0.0040	N/A	0.0040	mg/L	2025-07-24	
Zirconium, dissolved	< 0.00010	N/A	0.00010	mg/L	2025-07-24	
General Parameters						
Alkalinity, Total (as CaCO ₃)	358	N/A	1.0	mg/L	2025-07-22	
Alkalinity, Phenolphthalein (as CaCO ₃)	< 1.0	N/A	1.0	mg/L	2025-07-22	
Alkalinity, Bicarbonate (as CaCO ₃)	358	N/A	1.0	mg/L	2025-07-22	



TEST RESULTS

REPORTED TO PROJECT	Regional District of Okanagan Similkameen Keremeos - TLGW	WORK ORDER REPORTED	25G3085 2025-07-28 09:34

Analyte	Result	Guideline	RL	Units	Analyzed	Qualifier
MW 24-03 (25G3085-04) Matrix: Ground Water Sampled: 2025-07-21 15:30, Continued						
General Parameters, Continued						
Alkalinity, Carbonate (as CaCO3)	< 1.0	N/A	1.0	mg/L	2025-07-22	
Alkalinity, Hydroxide (as CaCO3)	< 1.0	N/A	1.0	mg/L	2025-07-22	
Ammonia, Total (as N)	< 0.050	None Required	0.050	mg/L	2025-07-26	
Chemical Oxygen Demand	< 20	N/A	20	mg/L	2025-07-24	
Conductivity (EC)	1260	N/A	2.0	µS/cm	2025-07-22	
pH	7.92	7.0-10.5	0.10	pH units	2025-07-22	HT2

Sample Qualifiers:

HT2 The 15 minute recommended holding time (from sampling to analysis) has been exceeded - field analysis is recommended.

APPENDIX 1: SUPPORTING INFORMATION

REPORTED TO PROJECT Regional District of Okanagan Similkameen
Keremeos - TLGW

WORK ORDER REPORTED 25G3085
2025-07-28 09:34

Analysis Description	Method Ref.	Technique	Accredited	Location
Alkalinity in Water	SM 2320 B* (2021)	Titration with H ₂ SO ₄	✓	Kelowna
Ammonia, Total in Water	SM 4500-NH ₃ G* (2021)	Automated Colorimetry (Phenate)	✓	Kelowna
Anions in Water	SM 4110 B (2020)	Ion Chromatography	✓	Kelowna
Chemical Oxygen Demand in Water	SM 5220 D* (2022)	Closed Reflux, Colorimetry	✓	Kelowna
Conductivity in Water	SM 2510 B (2021)	Conductivity Meter	✓	Kelowna
Dissolved Metals in Water	EPA 200.8 / EPA 6020B	0.45 µm Filtration / Inductively Coupled Plasma-Mass Spectroscopy (ICP-MS)	✓	Richmond
Hardness in Water	SM 2340 B (2021)	Calculation: 2.497 [diss Ca] + 4.118 [diss Mg]	✓	N/A
Mercury, dissolved in Water	EPA 245.7*	BrCl ₂ Oxidation / Cold Vapor Atomic Fluorescence Spectrometry (CVAFS)	✓	Richmond
pH in Water	SM 4500-H+ B (2021)	Electrometry	✓	Kelowna

Note: An asterisk in the Method Reference indicates that the CARO method has been modified from the reference method

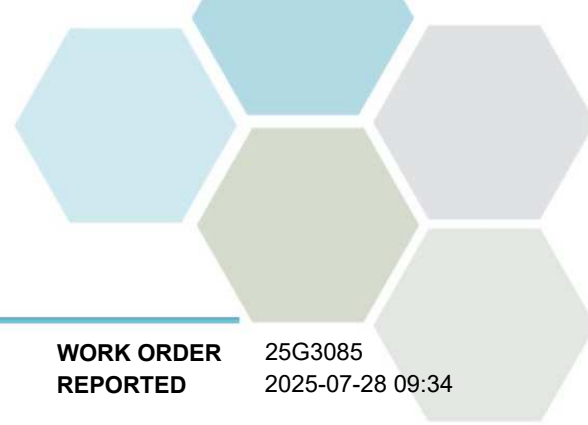
Glossary of Terms:

RL	Reporting Limit (default)
<	Less than the specified Reporting Limit (RL) - the actual RL may be higher than the default RL due to various factors
AO	Aesthetic Objective
MAC	Maximum Acceptable Concentration (health based)
mg/L	Milligrams per litre
pH units	pH < 7 = acidic, pH > 7 = basic
µS/cm	Microsiemens per centimetre
EPA	United States Environmental Protection Agency Test Methods
SM	Standard Methods for the Examination of Water and Wastewater, American Public Health Association

Guidelines Referenced in this Report:

[Guidelines for Canadian Drinking Water Quality \(Health Canada, September 2022\)](#)

Note: In some cases, the values displayed on the report represent the lowest guideline and are to be verified by the end user



APPENDIX 1: SUPPORTING INFORMATION

REPORTED TO PROJECT Regional District of Okanagan Similkameen
Keremeos - TLGW

WORK ORDER REPORTED 25G3085
2025-07-28 09:34

General Comments:

The results in this report apply to samples received by CARO and analyzed in accordance with the Chain of Custody document. This analytical report must be reproduced in its entirety and must not be modified. CARO is not responsible for losses or damages resulting directly or indirectly from errors or omissions in the conduct of the testing. Any liability is limited to the cost of analysis. CARO will dispose of all samples within 30 days of sample receipt, unless otherwise agreed.

Results in **Bold** indicate values that are above CARO's method reporting limits. Results in **red** indicate values above the regulatory limits where these have been included. Any Bold and/or highlighted results do not take into account method uncertainty. If you would like method uncertainty or regulatory limits to be included on your report, please contact your Account Manager: hhannaoui@caro.ca

Regulatory limits are added to test reports on request and are as a convenience only. While CARO makes every effort to ensure accuracy of regulatory limits, CARO assumes no liability for the use of this information. It remains the client's responsibility to ensure that regulatory limits are correct for their circumstances.

APPENDIX 2: QUALITY CONTROL RESULTS

REPORTED TO PROJECT Regional District of Okanagan Similkameen
Keremeos - TLGW

WORK ORDER REPORTED 25G3085
2025-07-28 09:34

The following section displays the quality control (QC) data that is associated with your sample data. Groups of samples are prepared in "batches" and analyzed in conjunction with QC samples that ensure your data is of the highest quality. Common QC types include:

- **Method Blank (Blk):** A blank sample that undergoes sample processing identical to that carried out for the test samples. Method blank results are used to assess contamination from the laboratory environment and reagents.
- **Duplicate (Dup):** An additional or second portion of a randomly selected sample in the analytical run carried through the entire analytical process. Duplicates provide a measure of the analytical method's precision (reproducibility).
- **Blank Spike (BS):** A sample of known concentration which undergoes processing identical to that carried out for test samples, also referred to as a laboratory control sample (LCS). Blank spikes provide a measure of the analytical method's accuracy.
- **Matrix Spike (MS):** A second aliquot of sample is fortified with a known concentration of target analytes and carried through the entire analytical process. Matrix spikes evaluate potential matrix effects that may affect the analyte recovery.
- **Reference Material (SRM):** A homogenous material of similar matrix to the samples, certified for the parameter(s) listed. Reference Materials ensure that the analytical process is adequate to achieve acceptable recoveries of the parameter(s) tested.

Each QC type is analyzed at a 5-10% frequency, i.e. one blank/duplicate/spike for every 10-20 samples. For all types of QC, the specified recovery (% Rec) and relative percent difference (RPD) limits are derived from long-term method performance averages and/or prescribed by the reference method.

Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier

Anions, Batch B5G4310

Blank (B5G4310-BLK1)			Prepared: 2025-07-23, Analyzed: 2025-07-23						
Bromide	< 0.10	0.10 mg/L							
Chloride	< 0.10	0.10 mg/L							
Fluoride	< 0.10	0.10 mg/L							
Nitrate (as N)	< 0.010	0.010 mg/L							
Nitrite (as N)	< 0.010	0.010 mg/L							
Sulfate	< 1.0	1.0 mg/L							
LCS (B5G4310-BS1)			Prepared: 2025-07-23, Analyzed: 2025-07-23						
Bromide	4.01	0.10 mg/L	4.00		100	85-115			
Chloride	16.4	0.10 mg/L	16.0		102	90-110			
Fluoride	4.09	0.10 mg/L	4.00		102	88-108			
Nitrate (as N)	3.99	0.010 mg/L	4.00		100	90-110			
Nitrite (as N)	2.03	0.010 mg/L	2.00		101	85-115			
Sulfate	16.2	1.0 mg/L	16.0		102	90-110			

Dissolved Metals, Batch B5G4506

Blank (B5G4506-BLK1)			Prepared: 2025-07-24, Analyzed: 2025-07-24						
Aluminum, dissolved	< 0.0050	0.0050 mg/L							
Antimony, dissolved	< 0.00020	0.00020 mg/L							
Arsenic, dissolved	< 0.00050	0.00050 mg/L							
Barium, dissolved	< 0.0050	0.0050 mg/L							
Beryllium, dissolved	< 0.00010	0.00010 mg/L							
Bismuth, dissolved	< 0.00010	0.00010 mg/L							
Boron, dissolved	< 0.0500	0.0500 mg/L							
Cadmium, dissolved	< 0.000010	0.000010 mg/L							
Calcium, dissolved	< 0.20	0.20 mg/L							
Chromium, dissolved	< 0.00050	0.00050 mg/L							
Cobalt, dissolved	< 0.00010	0.00010 mg/L							
Copper, dissolved	< 0.00040	0.00040 mg/L							
Iron, dissolved	< 0.010	0.010 mg/L							
Lead, dissolved	< 0.00020	0.00020 mg/L							
Lithium, dissolved	< 0.00010	0.00010 mg/L							
Magnesium, dissolved	< 0.010	0.010 mg/L							
Manganese, dissolved	< 0.00020	0.00020 mg/L							
Molybdenum, dissolved	< 0.00010	0.00010 mg/L							

APPENDIX 2: QUALITY CONTROL RESULTS

REPORTED TO PROJECT Regional District of Okanagan Similkameen
Keremeos - TLGW

WORK ORDER REPORTED 25G3085
2025-07-28 09:34

Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier

Dissolved Metals, Batch B5G4506, Continued

Blank (B5G4506-BLK1), Continued

Prepared: 2025-07-24, Analyzed: 2025-07-24

Nickel, dissolved	< 0.00040	0.00040 mg/L							
Phosphorus, dissolved	< 0.050	0.050 mg/L							
Potassium, dissolved	< 0.10	0.10 mg/L							
Selenium, dissolved	< 0.00050	0.00050 mg/L							
Silicon, dissolved	< 1.0	1.0 mg/L							
Silver, dissolved	< 0.000050	0.000050 mg/L							
Sodium, dissolved	< 0.10	0.10 mg/L							
Strontium, dissolved	< 0.0010	0.0010 mg/L							
Sulfur, dissolved	< 3.0	3.0 mg/L							
Tellurium, dissolved	< 0.00050	0.00050 mg/L							
Thallium, dissolved	< 0.000020	0.000020 mg/L							
Thorium, dissolved	< 0.00010	0.00010 mg/L							
Tin, dissolved	< 0.00020	0.00020 mg/L							
Titanium, dissolved	< 0.0050	0.0050 mg/L							
Tungsten, dissolved	< 0.0010	0.0010 mg/L							
Uranium, dissolved	< 0.000020	0.000020 mg/L							
Vanadium, dissolved	< 0.0050	0.0050 mg/L							
Zinc, dissolved	< 0.0040	0.0040 mg/L							
Zirconium, dissolved	< 0.00010	0.00010 mg/L							

LCS (B5G4506-BS1)

Prepared: 2025-07-24, Analyzed: 2025-07-24

Aluminum, dissolved	4.05	0.0050 mg/L	4.00		101	80-120			
Antimony, dissolved	0.0397	0.00020 mg/L	0.0400		99	80-120			
Arsenic, dissolved	0.403	0.00050 mg/L	0.400		101	80-120			
Barium, dissolved	0.0401	0.0050 mg/L	0.0400		100	80-120			
Beryllium, dissolved	0.0398	0.00010 mg/L	0.0400		99	80-120			
Bismuth, dissolved	0.0401	0.00010 mg/L	0.0400		100	80-120			
Boron, dissolved	0.400	0.0500 mg/L	0.400		100	80-120			
Cadmium, dissolved	0.0400	0.000010 mg/L	0.0400		100	80-120			
Calcium, dissolved	4.06	0.20 mg/L	4.00		101	80-120			
Chromium, dissolved	0.0403	0.00050 mg/L	0.0400		101	80-120			
Cobalt, dissolved	0.0405	0.00010 mg/L	0.0400		101	80-120			
Copper, dissolved	0.0408	0.00040 mg/L	0.0400		102	80-120			
Iron, dissolved	4.06	0.010 mg/L	4.00		102	80-120			
Lead, dissolved	0.0400	0.00020 mg/L	0.0400		100	80-120			
Lithium, dissolved	0.0408	0.00010 mg/L	0.0400		102	80-120			
Magnesium, dissolved	4.07	0.010 mg/L	4.00		102	80-120			
Manganese, dissolved	0.0405	0.00020 mg/L	0.0400		101	80-120			
Molybdenum, dissolved	0.0392	0.00010 mg/L	0.0400		98	80-120			
Nickel, dissolved	0.0401	0.00040 mg/L	0.0400		100	80-120			
Phosphorus, dissolved	4.06	0.050 mg/L	4.00		101	80-120			
Potassium, dissolved	4.03	0.10 mg/L	4.00		101	80-120			
Selenium, dissolved	0.404	0.00050 mg/L	0.400		101	80-120			
Silicon, dissolved	4.0	1.0 mg/L	4.00		99	80-120			
Silver, dissolved	0.0394	0.000050 mg/L	0.0400		98	80-120			
Sodium, dissolved	4.05	0.10 mg/L	4.00		101	80-120			
Strontium, dissolved	0.0404	0.0010 mg/L	0.0400		101	80-120			
Sulfur, dissolved	40.4	3.0 mg/L	40.0		101	80-120			
Tellurium, dissolved	0.0391	0.00050 mg/L	0.0400		98	80-120			
Thallium, dissolved	0.0401	0.000020 mg/L	0.0400		100	80-120			
Thorium, dissolved	0.0399	0.00010 mg/L	0.0400		100	80-120			
Tin, dissolved	0.0392	0.00020 mg/L	0.0400		98	80-120			
Titanium, dissolved	0.0398	0.0050 mg/L	0.0400		99	80-120			
Tungsten, dissolved	0.0397	0.0010 mg/L	0.0400		99	80-120			
Uranium, dissolved	0.0398	0.000020 mg/L	0.0400		99	80-120			
Vanadium, dissolved	0.0405	0.0050 mg/L	0.0400		101	80-120			

APPENDIX 2: QUALITY CONTROL RESULTS

REPORTED TO PROJECT Regional District of Okanagan Similkameen
Keremeos - TLGW

WORK ORDER REPORTED 25G3085
2025-07-28 09:34

Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
Dissolved Metals, Batch B5G4506, Continued									
LCS (B5G4506-BS1), Continued				Prepared: 2025-07-24, Analyzed: 2025-07-24					
Zinc, dissolved	0.402	0.0040 mg/L	0.400		101	80-120			
Zirconium, dissolved	0.0392	0.00010 mg/L	0.0400		98	80-120			
Duplicate (B5G4506-DUP1)				Source: 25G3085-01 Prepared: 2025-07-24, Analyzed: 2025-07-24					
Aluminum, dissolved	< 0.0050	0.0050 mg/L		< 0.0050			20		
Antimony, dissolved	< 0.00020	0.00020 mg/L		< 0.00020			20		
Arsenic, dissolved	0.00088	0.00050 mg/L		0.00088			20		
Barium, dissolved	0.0601	0.0050 mg/L		0.0619		3	20		
Beryllium, dissolved	< 0.00010	0.00010 mg/L		< 0.00010			20		
Bismuth, dissolved	< 0.00010	0.00010 mg/L		< 0.00010			20		
Boron, dissolved	< 0.0500	0.0500 mg/L		< 0.0500			20		
Cadmium, dissolved	0.000033	0.000010 mg/L		0.000031			20		
Calcium, dissolved	127	0.20 mg/L		136		6	20		
Chromium, dissolved	0.00259	0.00050 mg/L		0.00244		6	20		
Cobalt, dissolved	< 0.00010	0.00010 mg/L		< 0.00010			20		
Copper, dissolved	< 0.00040	0.00040 mg/L		< 0.00040			20		
Iron, dissolved	< 0.010	0.010 mg/L		< 0.010			20		
Lead, dissolved	< 0.00020	0.00020 mg/L		< 0.00020			20		
Lithium, dissolved	0.00728	0.00010 mg/L		0.00795		9	20		
Magnesium, dissolved	34.5	0.010 mg/L		35.0		1	20		
Manganese, dissolved	< 0.00020	0.00020 mg/L		< 0.00020			20		
Molybdenum, dissolved	0.00203	0.00010 mg/L		0.00210		3	20		
Nickel, dissolved	0.00059	0.00040 mg/L		0.00054			20		
Phosphorus, dissolved	< 0.050	0.050 mg/L		< 0.050			20		
Potassium, dissolved	4.02	0.10 mg/L		4.04		< 1	20		
Selenium, dissolved	0.0106	0.00050 mg/L		0.0109		3	20		
Silicon, dissolved	11.1	1.0 mg/L		12.4		11	20		
Silver, dissolved	< 0.000050	0.000050 mg/L		< 0.000050			20		
Sodium, dissolved	25.8	0.10 mg/L		26.1		< 1	20		
Strontium, dissolved	0.902	0.0010 mg/L		0.911		< 1	20		
Sulfur, dissolved	57.1	3.0 mg/L		61.5		7	20		
Tellurium, dissolved	< 0.00050	0.00050 mg/L		< 0.00050			20		
Thallium, dissolved	< 0.000020	0.000020 mg/L		< 0.000020			20		
Thorium, dissolved	< 0.00010	0.00010 mg/L		< 0.00010			20		
Tin, dissolved	< 0.00020	0.00020 mg/L		< 0.00020			20		
Titanium, dissolved	< 0.0050	0.0050 mg/L		< 0.0050			20		
Tungsten, dissolved	< 0.0010	0.0010 mg/L		< 0.0010			20		
Uranium, dissolved	0.00397	0.000020 mg/L		0.00405		2	20		
Vanadium, dissolved	< 0.0050	0.0050 mg/L		< 0.0050			20		
Zinc, dissolved	< 0.0040	0.0040 mg/L		< 0.0040			20		
Zirconium, dissolved	< 0.00010	0.00010 mg/L		< 0.00010			20		

Dissolved Metals, Batch B5G4781

Blank (B5G4781-BLK1)				Prepared: 2025-07-27, Analyzed: 2025-07-27					
Mercury, dissolved	< 0.000010	0.000010 mg/L							
Blank (B5G4781-BLK2)				Prepared: 2025-07-27, Analyzed: 2025-07-27					
Mercury, dissolved	< 0.000010	0.000010 mg/L							
Blank (B5G4781-BLK3)				Prepared: 2025-07-27, Analyzed: 2025-07-27					
Mercury, dissolved	< 0.000010	0.000010 mg/L							
Blank (B5G4781-BLK4)				Prepared: 2025-07-27, Analyzed: 2025-07-27					
Mercury, dissolved	< 0.000010	0.000010 mg/L							

APPENDIX 2: QUALITY CONTROL RESULTS

REPORTED TO PROJECT Regional District of Okanagan Similkameen
Keremeos - TLGW

WORK ORDER REPORTED 25G3085
2025-07-28 09:34

Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
Dissolved Metals, Batch B5G4781, Continued									
LCS (B5G4781-BS1)				Prepared: 2025-07-27, Analyzed: 2025-07-27					
Mercury, dissolved	0.00259	0.000010 mg/L	0.00250		104	80-120			
LCS (B5G4781-BS2)				Prepared: 2025-07-27, Analyzed: 2025-07-27					
Mercury, dissolved	0.00252	0.000010 mg/L	0.00250		101	80-120			
LCS (B5G4781-BS3)				Prepared: 2025-07-27, Analyzed: 2025-07-27					
Mercury, dissolved	0.00269	0.000010 mg/L	0.00250		107	80-120			
LCS (B5G4781-BS4)				Prepared: 2025-07-27, Analyzed: 2025-07-27					
Mercury, dissolved	0.00256	0.000010 mg/L	0.00250		102	80-120			
General Parameters, Batch B5G4223									
Blank (B5G4223-BLK1)				Prepared: 2025-07-22, Analyzed: 2025-07-22					
Alkalinity, Total (as CaCO ₃)	< 1.0	1.0 mg/L							
Alkalinity, Phenolphthalein (as CaCO ₃)	< 1.0	1.0 mg/L							
Alkalinity, Bicarbonate (as CaCO ₃)	< 1.0	1.0 mg/L							
Alkalinity, Carbonate (as CaCO ₃)	< 1.0	1.0 mg/L							
Alkalinity, Hydroxide (as CaCO ₃)	< 1.0	1.0 mg/L							
Conductivity (EC)	1.6	1.0 µS/cm							
Blank (B5G4223-BLK2)				Prepared: 2025-07-22, Analyzed: 2025-07-22					
Alkalinity, Total (as CaCO ₃)	< 1.0	1.0 mg/L							
Alkalinity, Phenolphthalein (as CaCO ₃)	< 1.0	1.0 mg/L							
Alkalinity, Bicarbonate (as CaCO ₃)	< 1.0	1.0 mg/L							
Alkalinity, Carbonate (as CaCO ₃)	< 1.0	1.0 mg/L							
Alkalinity, Hydroxide (as CaCO ₃)	< 1.0	1.0 mg/L							
Conductivity (EC)	1.2	1.0 µS/cm							
Blank (B5G4223-BLK3)				Prepared: 2025-07-22, Analyzed: 2025-07-22					
Alkalinity, Total (as CaCO ₃)	< 1.0	1.0 mg/L							
Alkalinity, Phenolphthalein (as CaCO ₃)	< 1.0	1.0 mg/L							
Alkalinity, Bicarbonate (as CaCO ₃)	< 1.0	1.0 mg/L							
Alkalinity, Carbonate (as CaCO ₃)	< 1.0	1.0 mg/L							
Alkalinity, Hydroxide (as CaCO ₃)	< 1.0	1.0 mg/L							
Conductivity (EC)	1.9	1.0 µS/cm							
General Parameters, Batch B5G4327									
Blank (B5G4327-BLK1)				Prepared: 2025-07-24, Analyzed: 2025-07-24					
Chemical Oxygen Demand	< 20	20 mg/L							
LCS (B5G4327-BS1)				Prepared: 2025-07-24, Analyzed: 2025-07-24					
Chemical Oxygen Demand	498	20 mg/L	500		100	89-115			
General Parameters, Batch B5G4707									
Blank (B5G4707-BLK1)				Prepared: 2025-07-26, Analyzed: 2025-07-26					
Ammonia, Total (as N)	< 0.050	0.050 mg/L							
Blank (B5G4707-BLK2)				Prepared: 2025-07-26, Analyzed: 2025-07-26					
Ammonia, Total (as N)	< 0.050	0.050 mg/L							
LCS (B5G4707-BS1)				Prepared: 2025-07-26, Analyzed: 2025-07-26					
Ammonia, Total (as N)	1.00	0.050 mg/L	1.00		100	85-115			

APPENDIX 2: QUALITY CONTROL RESULTS

REPORTED TO PROJECT					Regional District of Okanagan Similkameen Keremeos - TLGW		WORK ORDER REPORTED		25G3085 2025-07-28 09:34	
Analyte		Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
General Parameters, Batch B5G4707, Continued										
LCS (B5G4707-BS2)				Prepared: 2025-07-26, Analyzed: 2025-07-26						
Ammonia, Total (as N)		0.981	0.050 mg/L	1.00		98	85-115			
Duplicate (B5G4707-DUP2)				Source: 25G3085-04		Prepared: 2025-07-26, Analyzed: 2025-07-26				
Ammonia, Total (as N)		< 0.050	0.050 mg/L		< 0.050			15		
Matrix Spike (B5G4707-MS2)				Source: 25G3085-04		Prepared: 2025-07-26, Analyzed: 2025-07-26				
Ammonia, Total (as N)		0.253	0.050 mg/L	0.204	< 0.050	124	75-125			

CERTIFICATE OF ANALYSIS

REPORTED TO	Regional District of Okanagan Similkameen 101 Martin Street Penticton, BC V2A 5J9	WORK ORDER	25G3327
ATTENTION	Rob Palmer	RECEIVED / TEMP	2025-07-23 10:46 / 5°C
PO NUMBER	20259001- TLDW	REPORTED	2025-07-30 09:11
PROJECT	Keremeos - TLDW	COC NUMBER	eCOC#00025911
PROJECT INFO			

Introduction:

CARO Analytical Services is a testing laboratory full of smart, engaged scientists driven to make the world a safer and healthier place. Through our clients' projects we become an essential element for a better world. We employ methods conducted in accordance with recognized professional standards using accepted testing methodologies and quality control efforts. CARO is accredited by the Canadian Association for Laboratories Accreditation (CALA) to ISO/IEC 17025:2017 for specific tests listed in the scope of accreditation approved by CALA.

Big Picture Sidekicks



You know that the sample you collected after snowshoeing to site, digging 5 meters, and racing to get it on a plane so you can submit it to the lab for time sensitive results needed to make important and expensive decisions (whew) is VERY important. We know that too.

We've Got Chemistry



It's simple. We figure the more you enjoy working with our fun and engaged team members; the more likely you are to give us continued opportunities to support you.

Ahead of the Curve



Through research, regulation knowledge, and instrumentation, we are your analytical centre for the technical knowledge you need, BEFORE you need it, so you can stay up to date and in the know.

Work Order Comments:

Custody Seals Intact: n/a

By engaging our services, you are agreeing to CARO Analytical Service's Standard Terms and Conditions outlined here:
<https://www.caro.ca/terms-conditions>

If you have any questions or concerns, please contact me at hhannaoui@caro.ca

Authorized By:

Hanane El Hannaoui
Junior Account Manager



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TEST RESULTS

REPORTED TO PROJECT Regional District of Okanagan Similkameen
Keremeos - TLDW

CARO WO# REPORTED 25G3327
2025-07-30 09:11

Analyte	Result	Guideline	RL Units	Analyzed	Qualifier
DW-848 (25G3327-01) Matrix: Drinking Water Sampled: 2025-07-22 11:10					
Anions					
Bromide	< 0.10	N/A	0.10 mg/L	2025-07-23	
Chloride	19.5	AO ≤ 250	0.10 mg/L	2025-07-23	
Fluoride	0.10	MAC = 1.5	0.10 mg/L	2025-07-23	
Nitrate (as N)	5.76	MAC = 10	0.010 mg/L	2025-07-23	
Nitrite (as N)	< 0.010	MAC = 1	0.010 mg/L	2025-07-23	
Sulfate	230	AO ≤ 500	1.0 mg/L	2025-07-23	
Calculated Parameters					
Bicarbonate (HCO ₃)	397	N/A	1.22 mg/L	N/A	
Carbonate (CO ₃)	< 0.600	N/A	0.600 mg/L	N/A	
Hydroxide (OH)	< 0.340	N/A	0.340 mg/L	N/A	
Hardness, Dissolved (as CaCO ₃)	619	N/A	0.500 mg/L	N/A	
Nitrate+Nitrite (as N)	5.76	N/A	0.200 mg/L	N/A	
Dissolved Metals					
Aluminum, dissolved	< 0.0050	N/A	0.0050 mg/L	2025-07-24	
Antimony, dissolved	< 0.00020	N/A	0.00020 mg/L	2025-07-24	
Arsenic, dissolved	0.00123	N/A	0.00050 mg/L	2025-07-24	
Barium, dissolved	0.0608	N/A	0.0050 mg/L	2025-07-24	
Beryllium, dissolved	< 0.00010	N/A	0.00010 mg/L	2025-07-24	
Bismuth, dissolved	< 0.00010	N/A	0.00010 mg/L	2025-07-24	
Boron, dissolved	< 0.0500	N/A	0.0500 mg/L	2025-07-24	
Cadmium, dissolved	0.000035	N/A	0.000010 mg/L	2025-07-24	
Calcium, dissolved	115	N/A	0.20 mg/L	2025-07-24	
Chromium, dissolved	0.00268	N/A	0.00050 mg/L	2025-07-24	
Cobalt, dissolved	< 0.00010	N/A	0.00010 mg/L	2025-07-24	
Copper, dissolved	0.00327	N/A	0.00040 mg/L	2025-07-24	
Iron, dissolved	< 0.010	N/A	0.010 mg/L	2025-07-24	
Lead, dissolved	< 0.00020	N/A	0.00020 mg/L	2025-07-24	
Lithium, dissolved	0.0158	N/A	0.00010 mg/L	2025-07-24	
Magnesium, dissolved	80.6	N/A	0.010 mg/L	2025-07-24	
Manganese, dissolved	0.00037	N/A	0.00020 mg/L	2025-07-24	
Mercury, dissolved	< 0.000010	N/A	0.000010 mg/L	2025-07-27	
Molybdenum, dissolved	0.00296	N/A	0.00010 mg/L	2025-07-24	
Nickel, dissolved	0.00095	N/A	0.00040 mg/L	2025-07-24	
Phosphorus, dissolved	< 0.050	N/A	0.050 mg/L	2025-07-24	
Potassium, dissolved	4.46	N/A	0.10 mg/L	2025-07-24	
Selenium, dissolved	0.00582	N/A	0.00050 mg/L	2025-07-24	
Silicon, dissolved	12.9	N/A	1.0 mg/L	2025-07-24	
Silver, dissolved	< 0.000050	N/A	0.000050 mg/L	2025-07-24	
Sodium, dissolved	33.1	N/A	0.10 mg/L	2025-07-24	
Strontium, dissolved	1.15	N/A	0.0010 mg/L	2025-07-24	
Sulfur, dissolved	87.5	N/A	3.0 mg/L	2025-07-24	
Tellurium, dissolved	< 0.00050	N/A	0.00050 mg/L	2025-07-24	

TEST RESULTS

REPORTED TO PROJECT Regional District of Okanagan Similkameen
Keremeos - TLDW

CARO WO# REPORTED 25G3327
2025-07-30 09:11

Analyte	Result	Guideline	RL Units	Analyzed	Qualifier
DW-848 (25G3327-01) Matrix: Drinking Water Sampled: 2025-07-22 11:10, Continued					
<i>Dissolved Metals, Continued</i>					
Thallium, dissolved	< 0.000020	N/A	0.000020 mg/L	2025-07-24	
Thorium, dissolved	< 0.00010	N/A	0.00010 mg/L	2025-07-24	
Tin, dissolved	< 0.00020	N/A	0.00020 mg/L	2025-07-24	
Titanium, dissolved	< 0.0050	N/A	0.0050 mg/L	2025-07-24	
Tungsten, dissolved	< 0.0010	N/A	0.0010 mg/L	2025-07-24	
Uranium, dissolved	0.00565	N/A	0.000020 mg/L	2025-07-24	
Vanadium, dissolved	< 0.0050	N/A	0.0050 mg/L	2025-07-24	
Zinc, dissolved	0.0155	N/A	0.0040 mg/L	2025-07-24	
Zirconium, dissolved	< 0.00010	N/A	0.00010 mg/L	2025-07-24	
<i>General Parameters</i>					
Alkalinity, Total (as CaCO ₃)	325	N/A	1.0 mg/L	2025-07-24	
Alkalinity, Phenolphthalein (as CaCO ₃)	< 1.0	N/A	1.0 mg/L	2025-07-24	
Alkalinity, Bicarbonate (as CaCO ₃)	325	N/A	1.0 mg/L	2025-07-24	
Alkalinity, Carbonate (as CaCO ₃)	< 1.0	N/A	1.0 mg/L	2025-07-24	
Alkalinity, Hydroxide (as CaCO ₃)	< 1.0	N/A	1.0 mg/L	2025-07-24	
Ammonia, Total (as N)	< 0.050	None Required	0.050 mg/L	2025-07-29	
Chemical Oxygen Demand	< 20	N/A	20 mg/L	2025-07-24	
Conductivity (EC)	1130	N/A	2.0 µS/cm	2025-07-24	
pH	8.01	7.0-10.5	0.10 pH units	2025-07-24	HT2

Sample Qualifiers:

HT2 The 15 minute recommended holding time (from sampling to analysis) has been exceeded - field analysis is recommended.

APPENDIX 1: SUPPORTING INFORMATION

REPORTED TO PROJECT Regional District of Okanagan Similkameen
Keremeos - TLDW

CARO WO# REPORTED 25G3327
2025-07-30 09:11

Analysis Description	Method Ref.	Technique	Accredited	Location
Alkalinity in Water	SM 2320 B* (2021)	Titration with H ₂ SO ₄	✓	Kelowna
Ammonia, Total in Water	SM 4500-NH ₃ G* (2021)	Automated Colorimetry (Phenate)	✓	Kelowna
Anions in Water	SM 4110 B (2020)	Ion Chromatography	✓	Kelowna
Chemical Oxygen Demand in Water	SM 5220 D* (2022)	Closed Reflux, Colorimetry	✓	Kelowna
Conductivity in Water	SM 2510 B (2021)	Conductivity Meter	✓	Kelowna
Dissolved Metals in Water	EPA 200.8 / EPA 6020B	0.45 µm Filtration / Inductively Coupled Plasma-Mass Spectroscopy (ICP-MS)	✓	Richmond
Hardness in Water	SM 2340 B (2021)	Calculation: 2.497 [diss Ca] + 4.118 [diss Mg]	✓	N/A
Mercury, dissolved in Water	EPA 245.7*	BrCl ₂ Oxidation / Cold Vapor Atomic Fluorescence Spectrometry (CVAFS)	✓	Richmond
pH in Water	SM 4500-H+ B (2021)	Electrometry	✓	Kelowna

Note: An asterisk in the Method Reference indicates that the CARO method has been modified from the reference method

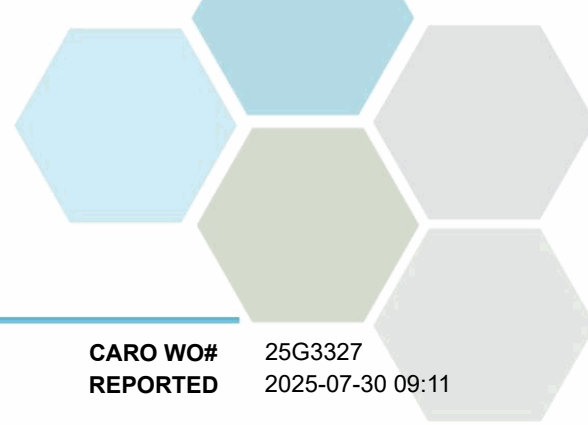
Glossary of Terms:

RL	Reporting Limit (default)
<	Less than the specified Reporting Limit (RL) - the actual RL may be higher than the default RL due to various factors
AO	Aesthetic Objective
MAC	Maximum Acceptable Concentration (health based)
mg/L	Milligrams per litre
pH units	pH < 7 = acidic, pH > 7 = basic
µS/cm	Microsiemens per centimetre
EPA	United States Environmental Protection Agency Test Methods
SM	Standard Methods for the Examination of Water and Wastewater, American Public Health Association

Guidelines Referenced in this Report:

[Guidelines for Canadian Drinking Water Quality \(Health Canada, September 2022\)](#)

Note: In some cases, the values displayed on the report represent the lowest guideline and are to be verified by the end user



APPENDIX 1: SUPPORTING INFORMATION

REPORTED TO PROJECT Regional District of Okanagan Similkameen
Keremeos - TLDW

CARO WO# 25G3327
REPORTED 2025-07-30 09:11

General Comments:

The results in this report apply to the received samples analyzed in accordance with the Chain of Custody document. This analytical report must be reproduced in its entirety. CARO is not responsible for any loss or damage resulting directly or indirectly from error or omission in the conduct of testing. Liability is limited to the cost of analysis. Samples will be disposed of 30 days after the test report has been issued or once samples expire, whichever comes first. Longer hold is possible if agreed to in writing.

Results in **Bold** indicate values that are above CARO's method reporting limits. Any results that are above regulatory limits are highlighted **red**. Please note that results will only be highlighted red if the regulatory limits are included on the CARO report. Any Bold and/or highlighted results do not take into account method uncertainty. If you would like method uncertainty or regulatory limits to be included on your report, please contact your Account Manager: [{@Email}](#)

Please note any regulatory guidelines applied to this report are added as a convenience to the client, at their request, to help provide some initial context to analytical results obtained. Although CARO makes every effort to ensure accuracy of the associated regulatory guideline(s) applied, the guidelines applied cannot be assumed to be correct due to a variety of factors and as such CARO Analytical Services assumes no liability or responsibility for the use of those guidelines to make any decisions. The original source of the regulation should be verified and a review of the guideline(s) should be validated as correct in order to make any decisions arising from the comparison of the analytical data obtained to the relevant regulatory guideline for one's particular circumstances. Further, CARO Analytical Services assumes no liability

APPENDIX 2: QUALITY CONTROL RESULTS

REPORTED TO PROJECT Regional District of Okanagan Similkameen
Keremeos - TLDW

CARO WO# 25G3327
REPORTED 2025-07-30 09:11

The following section displays the quality control (QC) data that is associated with your sample data. Groups of samples are prepared in "batches" and analyzed in conjunction with QC samples that ensure your data is of the highest quality. Common QC types include:

- **Method Blank (Blk):** A blank sample that undergoes sample processing identical to that carried out for the test samples. Method blank results are used to assess contamination from the laboratory environment and reagents.
- **Duplicate (Dup):** An additional or second portion of a randomly selected sample in the analytical run carried through the entire analytical process. Duplicates provide a measure of the analytical method's precision (reproducibility).
- **Blank Spike (BS):** A sample of known concentration which undergoes processing identical to that carried out for test samples, also referred to as a laboratory control sample (LCS). Blank spikes provide a measure of the analytical method's accuracy.
- **Matrix Spike (MS):** A second aliquot of sample is fortified with a known concentration of target analytes and carried through the entire analytical process. Matrix spikes evaluate potential matrix effects that may affect the analyte recovery.
- **Reference Material (SRM):** A homogenous material of similar matrix to the samples, certified for the parameter(s) listed. Reference Materials ensure that the analytical process is adequate to achieve acceptable recoveries of the parameter(s) tested.

Each QC type is analyzed at a 5-10% frequency, i.e. one blank/duplicate/spike for every 10-20 samples. For all types of QC, the specified recovery (% Rec) and relative percent difference (RPD) limits are derived from long-term method performance averages and/or prescribed by the reference method.

Analyte	Result	MRL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Notes

Anions, Batch B5G4358

Blank (B5G4358-BLK1)			Prepared: 2025-07-23, Analyzed: 2025-07-23						
Bromide	< 0.10	0.10 mg/L							
Chloride	< 0.10	0.10 mg/L							
Fluoride	< 0.10	0.10 mg/L							
Nitrate (as N)	< 0.010	0.010 mg/L							
Nitrite (as N)	< 0.010	0.010 mg/L							
Sulfate	< 1.0	1.0 mg/L							
LCS (B5G4358-BS1)			Prepared: 2025-07-23, Analyzed: 2025-07-23						
Bromide	4.11	0.10 mg/L	4.00		103	85-115			
Chloride	15.9	0.10 mg/L	16.0		99	90-110			
Fluoride	4.08	0.10 mg/L	4.00		102	88-108			
Nitrate (as N)	4.03	0.010 mg/L	4.00		101	90-110			
Nitrite (as N)	1.97	0.010 mg/L	2.00		99	85-115			
Sulfate	15.9	1.0 mg/L	16.0		99	90-110			

Dissolved Metals, Batch B5G4506

Blank (B5G4506-BLK1)			Prepared: 2025-07-24, Analyzed: 2025-07-24						
Aluminum, dissolved	< 0.0050	0.0050 mg/L							
Antimony, dissolved	< 0.00020	0.00020 mg/L							
Arsenic, dissolved	< 0.00050	0.00050 mg/L							
Barium, dissolved	< 0.0050	0.0050 mg/L							
Beryllium, dissolved	< 0.00010	0.00010 mg/L							
Bismuth, dissolved	< 0.00010	0.00010 mg/L							
Boron, dissolved	< 0.0500	0.0500 mg/L							
Cadmium, dissolved	< 0.000010	0.000010 mg/L							
Calcium, dissolved	< 0.20	0.20 mg/L							
Chromium, dissolved	< 0.00050	0.00050 mg/L							
Cobalt, dissolved	< 0.00010	0.00010 mg/L							
Copper, dissolved	< 0.00040	0.00040 mg/L							
Iron, dissolved	< 0.010	0.010 mg/L							
Lead, dissolved	< 0.00020	0.00020 mg/L							
Lithium, dissolved	< 0.00010	0.00010 mg/L							
Magnesium, dissolved	< 0.010	0.010 mg/L							
Manganese, dissolved	< 0.00020	0.00020 mg/L							
Molybdenum, dissolved	< 0.00010	0.00010 mg/L							

APPENDIX 2: QUALITY CONTROL RESULTS

REPORTED TO PROJECT Regional District of Okanagan Similkameen
Keremeos - TLDW

CARO WO# 25G3327
REPORTED 2025-07-30 09:11

Analyte	Result	MRL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Notes
Dissolved Metals, Batch B5G4506, Continued									
Blank (B5G4506-BLK1), Continued				Prepared: 2025-07-24, Analyzed: 2025-07-24					
Nickel, dissolved	< 0.00040	0.00040 mg/L							
Phosphorus, dissolved	< 0.050	0.050 mg/L							
Potassium, dissolved	< 0.10	0.10 mg/L							
Selenium, dissolved	< 0.00050	0.00050 mg/L							
Silicon, dissolved	< 1.0	1.0 mg/L							
Silver, dissolved	< 0.000050	0.000050 mg/L							
Sodium, dissolved	< 0.10	0.10 mg/L							
Strontium, dissolved	< 0.0010	0.0010 mg/L							
Sulfur, dissolved	< 3.0	3.0 mg/L							
Tellurium, dissolved	< 0.00050	0.00050 mg/L							
Thallium, dissolved	< 0.000020	0.000020 mg/L							
Thorium, dissolved	< 0.00010	0.00010 mg/L							
Tin, dissolved	< 0.00020	0.00020 mg/L							
Titanium, dissolved	< 0.0050	0.0050 mg/L							
Tungsten, dissolved	< 0.0010	0.0010 mg/L							
Uranium, dissolved	< 0.000020	0.000020 mg/L							
Vanadium, dissolved	< 0.0050	0.0050 mg/L							
Zinc, dissolved	< 0.0040	0.0040 mg/L							
Zirconium, dissolved	< 0.00010	0.00010 mg/L							
LCS (B5G4506-BS1)				Prepared: 2025-07-24, Analyzed: 2025-07-24					
Aluminum, dissolved	4.05	0.0050 mg/L	4.00		101	80-120			
Antimony, dissolved	0.0397	0.00020 mg/L	0.0400		99	80-120			
Arsenic, dissolved	0.403	0.00050 mg/L	0.400		101	80-120			
Barium, dissolved	0.0401	0.0050 mg/L	0.0400		100	80-120			
Beryllium, dissolved	0.0398	0.00010 mg/L	0.0400		99	80-120			
Bismuth, dissolved	0.0401	0.00010 mg/L	0.0400		100	80-120			
Boron, dissolved	0.400	0.0500 mg/L	0.400		100	80-120			
Cadmium, dissolved	0.0400	0.000010 mg/L	0.0400		100	80-120			
Calcium, dissolved	4.06	0.20 mg/L	4.00		101	80-120			
Chromium, dissolved	0.0403	0.00050 mg/L	0.0400		101	80-120			
Cobalt, dissolved	0.0405	0.00010 mg/L	0.0400		101	80-120			
Copper, dissolved	0.0408	0.00040 mg/L	0.0400		102	80-120			
Iron, dissolved	4.06	0.010 mg/L	4.00		102	80-120			
Lead, dissolved	0.0400	0.00020 mg/L	0.0400		100	80-120			
Lithium, dissolved	0.0408	0.00010 mg/L	0.0400		102	80-120			
Magnesium, dissolved	4.07	0.010 mg/L	4.00		102	80-120			
Manganese, dissolved	0.0405	0.00020 mg/L	0.0400		101	80-120			
Molybdenum, dissolved	0.0392	0.00010 mg/L	0.0400		98	80-120			
Nickel, dissolved	0.0401	0.00040 mg/L	0.0400		100	80-120			
Phosphorus, dissolved	4.06	0.050 mg/L	4.00		101	80-120			
Potassium, dissolved	4.03	0.10 mg/L	4.00		101	80-120			
Selenium, dissolved	0.404	0.00050 mg/L	0.400		101	80-120			
Silicon, dissolved	4.0	1.0 mg/L	4.00		99	80-120			
Silver, dissolved	0.0394	0.000050 mg/L	0.0400		98	80-120			
Sodium, dissolved	4.05	0.10 mg/L	4.00		101	80-120			
Strontium, dissolved	0.0404	0.0010 mg/L	0.0400		101	80-120			
Sulfur, dissolved	40.4	3.0 mg/L	40.0		101	80-120			
Tellurium, dissolved	0.0391	0.00050 mg/L	0.0400		98	80-120			
Thallium, dissolved	0.0401	0.000020 mg/L	0.0400		100	80-120			
Thorium, dissolved	0.0399	0.00010 mg/L	0.0400		100	80-120			
Tin, dissolved	0.0392	0.00020 mg/L	0.0400		98	80-120			
Titanium, dissolved	0.0398	0.0050 mg/L	0.0400		99	80-120			
Tungsten, dissolved	0.0397	0.0010 mg/L	0.0400		99	80-120			
Uranium, dissolved	0.0398	0.000020 mg/L	0.0400		99	80-120			
Vanadium, dissolved	0.0405	0.0050 mg/L	0.0400		101	80-120			

APPENDIX 2: QUALITY CONTROL RESULTS

REPORTED TO PROJECT Regional District of Okanagan Similkameen
Keremeos - TLDW

CARO WO# REPORTED 25G3327
2025-07-30 09:11

Analyte	Result	MRL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Notes

Dissolved Metals, Batch B5G4506, Continued

LCS (B5G4506-BS1), Continued Prepared: 2025-07-24, Analyzed: 2025-07-24

Zinc, dissolved	0.402	0.0040 mg/L	0.400		101	80-120			
Zirconium, dissolved	0.0392	0.00010 mg/L	0.0400		98	80-120			

Matrix Spike (B5G4506-MS1) Source: 25G3327-01 Prepared: 2025-07-24, Analyzed: 2025-07-24

Aluminum, dissolved	4.25	0.0050 mg/L	4.00	< 0.0050	106	70-130			
Antimony, dissolved	0.0434	0.00020 mg/L	0.0400	< 0.00020	108	70-130			
Arsenic, dissolved	0.420	0.00050 mg/L	0.400	0.00123	105	70-130			
Barium, dissolved	0.104	0.0050 mg/L	0.0400	0.0608	108	70-130			
Beryllium, dissolved	0.0416	0.00010 mg/L	0.0400	< 0.00010	104	70-130			
Bismuth, dissolved	0.0377	0.00010 mg/L	0.0400	< 0.00010	94	70-130			
Boron, dissolved	0.440	0.0500 mg/L	0.400	< 0.0500	100	70-130			
Cadmium, dissolved	0.0412	0.000010 mg/L	0.0400	0.000035	103	70-130			
Calcium, dissolved	114	0.20 mg/L	4.00	115	NR	70-130			MS2
Chromium, dissolved	0.0432	0.00050 mg/L	0.0400	0.00268	101	70-130			
Cobalt, dissolved	0.0385	0.00010 mg/L	0.0400	< 0.00010	96	70-130			
Copper, dissolved	0.0402	0.00040 mg/L	0.0400	0.00327	92	70-130			
Iron, dissolved	3.99	0.010 mg/L	4.00	< 0.010	100	70-130			
Lead, dissolved	0.0412	0.00020 mg/L	0.0400	< 0.00020	103	70-130			
Lithium, dissolved	0.0601	0.00010 mg/L	0.0400	0.0158	111	70-130			
Magnesium, dissolved	82.4	0.010 mg/L	4.00	80.6	43	70-130			MS2
Manganese, dissolved	0.0404	0.00020 mg/L	0.0400	0.00037	100	70-130			
Molybdenum, dissolved	0.0452	0.00010 mg/L	0.0400	0.00296	106	70-130			
Nickel, dissolved	0.0384	0.00040 mg/L	0.0400	0.00095	94	70-130			
Phosphorus, dissolved	4.53	0.050 mg/L	4.00	< 0.050	113	70-130			
Potassium, dissolved	9.00	0.10 mg/L	4.00	4.46	113	70-130			
Selenium, dissolved	0.426	0.00050 mg/L	0.400	0.00582	105	70-130			
Silicon, dissolved	16.7	1.0 mg/L	4.00	12.9	94	70-130			
Silver, dissolved	0.0327	0.000050 mg/L	0.0400	< 0.000050	82	70-130			
Sodium, dissolved	36.1	0.10 mg/L	4.00	33.1	76	70-130			
Strontium, dissolved	1.14	0.0010 mg/L	0.0400	1.15	NR	70-130			MS2
Sulfur, dissolved	125	3.0 mg/L	40.0	87.5	93	70-130			
Tellurium, dissolved	0.0434	0.00050 mg/L	0.0400	< 0.00050	108	70-130			
Thallium, dissolved	0.0412	0.000020 mg/L	0.0400	< 0.000020	103	70-130			
Thorium, dissolved	0.0426	0.00010 mg/L	0.0400	< 0.00010	106	70-130			
Tin, dissolved	0.0431	0.00020 mg/L	0.0400	< 0.00020	108	70-130			
Titanium, dissolved	0.0413	0.0050 mg/L	0.0400	< 0.0050	103	70-130			
Tungsten, dissolved	0.0416	0.0010 mg/L	0.0400	< 0.0010	104	70-130			
Uranium, dissolved	0.0479	0.000020 mg/L	0.0400	0.00565	106	70-130			
Vanadium, dissolved	0.0429	0.0050 mg/L	0.0400	< 0.0050	104	70-130			
Zinc, dissolved	0.402	0.0040 mg/L	0.400	0.0155	97	70-130			
Zirconium, dissolved	0.0430	0.00010 mg/L	0.0400	< 0.00010	107	70-130			

Dissolved Metals, Batch B5G4781

Blank (B5G4781-BLK1) Prepared: 2025-07-27, Analyzed: 2025-07-27

Mercury, dissolved	< 0.000010	0.000010 mg/L							

Blank (B5G4781-BLK2) Prepared: 2025-07-27, Analyzed: 2025-07-27

Mercury, dissolved	< 0.000010	0.000010 mg/L							

Blank (B5G4781-BLK3) Prepared: 2025-07-27, Analyzed: 2025-07-27

Mercury, dissolved	< 0.000010	0.000010 mg/L							

APPENDIX 2: QUALITY CONTROL RESULTS

REPORTED TO PROJECT Regional District of Okanagan Similkameen
Keremeos - TLDW

CARO WO# REPORTED 25G3327
2025-07-30 09:11

Analyte	Result	MRL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Notes

Dissolved Metals, Batch B5G4781, Continued

Blank (B5G4781-BLK4)			Prepared: 2025-07-27, Analyzed: 2025-07-27						
Mercury, dissolved	< 0.000010	0.000010 mg/L							
LCS (B5G4781-BS1)			Prepared: 2025-07-27, Analyzed: 2025-07-27						
Mercury, dissolved	0.00259	0.000010 mg/L	0.00250		104	80-120			
LCS (B5G4781-BS2)			Prepared: 2025-07-27, Analyzed: 2025-07-27						
Mercury, dissolved	0.00252	0.000010 mg/L	0.00250		101	80-120			
LCS (B5G4781-BS3)			Prepared: 2025-07-27, Analyzed: 2025-07-27						
Mercury, dissolved	0.00269	0.000010 mg/L	0.00250		107	80-120			
LCS (B5G4781-BS4)			Prepared: 2025-07-27, Analyzed: 2025-07-27						
Mercury, dissolved	0.00256	0.000010 mg/L	0.00250		102	80-120			

General Parameters, Batch B5G4444

Blank (B5G4444-BLK1)			Prepared: 2025-07-24, Analyzed: 2025-07-24						
Alkalinity, Total (as CaCO ₃)	< 1.0	1.0 mg/L							
Alkalinity, Phenolphthalein (as CaCO ₃)	< 1.0	1.0 mg/L							
Alkalinity, Bicarbonate (as CaCO ₃)	< 1.0	1.0 mg/L							
Alkalinity, Carbonate (as CaCO ₃)	< 1.0	1.0 mg/L							
Alkalinity, Hydroxide (as CaCO ₃)	< 1.0	1.0 mg/L							
Conductivity (EC)	< 2.0	2.0 µS/cm							
Blank (B5G4444-BLK2)			Prepared: 2025-07-24, Analyzed: 2025-07-24						
Alkalinity, Total (as CaCO ₃)	< 1.0	1.0 mg/L							
Alkalinity, Phenolphthalein (as CaCO ₃)	< 1.0	1.0 mg/L							
Alkalinity, Bicarbonate (as CaCO ₃)	< 1.0	1.0 mg/L							
Alkalinity, Carbonate (as CaCO ₃)	< 1.0	1.0 mg/L							
Alkalinity, Hydroxide (as CaCO ₃)	< 1.0	1.0 mg/L							
Conductivity (EC)	< 2.0	2.0 µS/cm							
LCS (B5G4444-BS1)			Prepared: 2025-07-24, Analyzed: 2025-07-24						
Alkalinity, Total (as CaCO ₃)	89.5	1.0 mg/L	100		89	80-120			
LCS (B5G4444-BS2)			Prepared: 2025-07-24, Analyzed: 2025-07-24						
Conductivity (EC)	1420	2.0 µS/cm	1410		100	95-105			
LCS (B5G4444-BS3)			Prepared: 2025-07-24, Analyzed: 2025-07-24						
Alkalinity, Total (as CaCO ₃)	88.2	1.0 mg/L	100		88	80-120			
LCS (B5G4444-BS4)			Prepared: 2025-07-24, Analyzed: 2025-07-24						
Conductivity (EC)	1420	2.0 µS/cm	1410		101	95-105			
Reference (B5G4444-SRM1)			Prepared: 2025-07-24, Analyzed: 2025-07-24						
pH	7.00	0.10 pH units	7.01		100	98-102			
Reference (B5G4444-SRM2)			Prepared: 2025-07-24, Analyzed: 2025-07-24						
pH	7.00	0.10 pH units	7.01		100	98-102			

General Parameters, Batch B5G4466

Blank (B5G4466-BLK1)			Prepared: 2025-07-24, Analyzed: 2025-07-24						
Chemical Oxygen Demand	< 20	20 mg/L							
LCS (B5G4466-BS1)			Prepared: 2025-07-24, Analyzed: 2025-07-24						
Chemical Oxygen Demand	504	20 mg/L	500		101	89-115			

APPENDIX 2: QUALITY CONTROL RESULTS

REPORTED TO PROJECT Regional District of Okanagan Similkameen
Keremeos - TLDW

CARO WO# 25G3327
REPORTED 2025-07-30 09:11

Analyte	Result	MRL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Notes
General Parameters, Batch B5G4466, Continued									
Duplicate (B5G4466-DUP1)		Source: 25G3327-01		Prepared: 2025-07-24, Analyzed: 2025-07-24					
Chemical Oxygen Demand	< 20	20 mg/L		< 20				14	
Matrix Spike (B5G4466-MS1)		Source: 25G3327-01		Prepared: 2025-07-24, Analyzed: 2025-07-24					
Chemical Oxygen Demand	141	20 mg/L	125	< 20	112	75-125			

General Parameters, Batch B5G4918

Blank (B5G4918-BLK1)		Prepared: 2025-07-29, Analyzed: 2025-07-29							
Ammonia, Total (as N)	< 0.050	0.050 mg/L							
LCS (B5G4918-BS1)		Prepared: 2025-07-29, Analyzed: 2025-07-29							
Ammonia, Total (as N)	0.968	0.050 mg/L	1.00		97	85-115			

QC Qualifiers:

MS2 The native sample concentration is greater than the spike concentration hence the matrix spike limits do not apply.

CERTIFICATE OF ANALYSIS

REPORTED TO	Regional District of Okanagan Similkameen 101 Martin Street Penticton, BC V2A 5J9	WORK ORDER	25G3486
ATTENTION	Rob Palmer	RECEIVED / TEMP	2025-07-23 10:46 / 5°C
PO NUMBER	20259001- TLDW	REPORTED	2025-07-30 12:24
PROJECT	Keremeos - TLDW	COC NUMBER	eCOC#00025911
PROJECT INFO			

Introduction:

CARO Analytical Services is a testing laboratory full of smart, engaged scientists driven to make the world a safer and healthier place. Through our clients' projects we become an essential element for a better world. We employ methods conducted in accordance with recognized professional standards using accepted testing methodologies and quality control efforts. CARO is accredited by the Canadian Association for Laboratories Accreditation (CALA) to ISO/IEC 17025:2017 for specific tests listed in the scope of accreditation approved by CALA.

Big Picture Sidekicks



You know that the sample you collected after snowshoeing to site, digging 5 meters, and racing to get it on a plane so you can submit it to the lab for time sensitive results needed to make important and expensive decisions (whew) is VERY important. We know that too.

We've Got Chemistry



It's simple. We figure the more you enjoy working with our fun and engaged team members; the more likely you are to give us continued opportunities to support you.

Ahead of the Curve



Through research, regulation knowledge, and instrumentation, we are your analytical centre for the technical knowledge you need, BEFORE you need it, so you can stay up to date and in the know.

Work Order Comments:

Custody Seals Intact: n/a

By engaging our services, you are agreeing to CARO Analytical Service's Standard Terms and Conditions outlined here:
<https://www.caro.ca/terms-conditions>

If you have any questions or concerns, please contact me at hhannaoui@caro.ca

Authorized By:

Hanane El Hannaoui
Junior Account Manager

1-888-311-8846 | www.caro.ca

#110 4011 Viking Way Richmond, BC V6V 2K9 | #102 3677 Highway 97N Kelowna, BC V1X 5C3 | 17225 109 Avenue Edmonton, AB T5S 1H7 |
#108 4475 Wayburne Drive Burnaby, BC V5G 4X4

TEST RESULTS

REPORTED TO PROJECT Regional District of Okanagan Similkameen
Keremeos - TLDW

CARO WO# REPORTED 25G3486
2025-07-30 12:24

Analyte	Result	Guideline	RL Units	Analyzed	Qualifier
DW-960 (25G3486-01) Matrix: Drinking Water Sampled: 2025-07-22 11:50					
Anions					
Bromide	< 0.10	N/A	0.10 mg/L	2025-07-25	
Chloride	14.1	AO ≤ 250	0.10 mg/L	2025-07-25	
Fluoride	< 0.10	MAC = 1.5	0.10 mg/L	2025-07-25	
Nitrate (as N)	0.680	MAC = 10	0.010 mg/L	2025-07-25	
Nitrite (as N)	< 0.010	MAC = 1	0.010 mg/L	2025-07-25	
Sulfate	65.1	AO ≤ 500	1.0 mg/L	2025-07-25	
Calculated Parameters					
Bicarbonate (HCO ₃)	216	N/A	1.22 mg/L	N/A	
Carbonate (CO ₃)	< 0.600	N/A	0.600 mg/L	N/A	
Hydroxide (OH)	< 0.340	N/A	0.340 mg/L	N/A	
Hardness, Dissolved (as CaCO ₃)	264	N/A	0.500 mg/L	N/A	
Nitrate+Nitrite (as N)	0.680	N/A	0.0100 mg/L	N/A	
Dissolved Metals					
Aluminum, dissolved	< 0.0050	N/A	0.0050 mg/L	2025-07-24	
Antimony, dissolved	< 0.00020	N/A	0.00020 mg/L	2025-07-24	
Arsenic, dissolved	0.00122	N/A	0.00050 mg/L	2025-07-24	
Barium, dissolved	0.0304	N/A	0.0050 mg/L	2025-07-24	
Beryllium, dissolved	< 0.00010	N/A	0.00010 mg/L	2025-07-24	
Bismuth, dissolved	< 0.00010	N/A	0.00010 mg/L	2025-07-24	
Boron, dissolved	< 0.0500	N/A	0.0500 mg/L	2025-07-24	
Cadmium, dissolved	< 0.000010	N/A	0.000010 mg/L	2025-07-24	
Calcium, dissolved	78.3	N/A	0.20 mg/L	2025-07-24	
Chromium, dissolved	0.00116	N/A	0.00050 mg/L	2025-07-24	
Cobalt, dissolved	< 0.00010	N/A	0.00010 mg/L	2025-07-24	
Copper, dissolved	0.00354	N/A	0.00040 mg/L	2025-07-24	
Iron, dissolved	< 0.010	N/A	0.010 mg/L	2025-07-24	
Lead, dissolved	< 0.00020	N/A	0.00020 mg/L	2025-07-24	
Lithium, dissolved	0.00301	N/A	0.00010 mg/L	2025-07-24	
Magnesium, dissolved	16.6	N/A	0.010 mg/L	2025-07-24	
Manganese, dissolved	< 0.00020	N/A	0.00020 mg/L	2025-07-24	
Mercury, dissolved	< 0.000010	N/A	0.000010 mg/L	2025-07-28	
Molybdenum, dissolved	0.00256	N/A	0.00010 mg/L	2025-07-24	
Nickel, dissolved	0.00077	N/A	0.00040 mg/L	2025-07-24	
Phosphorus, dissolved	< 0.050	N/A	0.050 mg/L	2025-07-24	
Potassium, dissolved	2.96	N/A	0.10 mg/L	2025-07-24	
Selenium, dissolved	0.00207	N/A	0.00050 mg/L	2025-07-24	
Silicon, dissolved	9.8	N/A	1.0 mg/L	2025-07-24	
Silver, dissolved	< 0.000050	N/A	0.000050 mg/L	2025-07-24	
Sodium, dissolved	13.2	N/A	0.10 mg/L	2025-07-24	
Strontium, dissolved	0.533	N/A	0.0010 mg/L	2025-07-24	
Sulfur, dissolved	24.6	N/A	3.0 mg/L	2025-07-24	
Tellurium, dissolved	< 0.00050	N/A	0.00050 mg/L	2025-07-24	

TEST RESULTS

REPORTED TO PROJECT Regional District of Okanagan Similkameen
Keremeos - TLDW

CARO WO# REPORTED 25G3486
2025-07-30 12:24

Analyte	Result	Guideline	RL Units	Analyzed	Qualifier
DW-960 (25G3486-01) Matrix: Drinking Water Sampled: 2025-07-22 11:50, Continued					
<i>Dissolved Metals, Continued</i>					
Thallium, dissolved	< 0.000020	N/A	0.000020 mg/L	2025-07-24	
Thorium, dissolved	< 0.00010	N/A	0.00010 mg/L	2025-07-24	
Tin, dissolved	< 0.00020	N/A	0.00020 mg/L	2025-07-24	
Titanium, dissolved	< 0.0050	N/A	0.0050 mg/L	2025-07-24	
Tungsten, dissolved	< 0.0010	N/A	0.0010 mg/L	2025-07-24	
Uranium, dissolved	0.00169	N/A	0.000020 mg/L	2025-07-24	
Vanadium, dissolved	< 0.0050	N/A	0.0050 mg/L	2025-07-24	
Zinc, dissolved	< 0.0040	N/A	0.0040 mg/L	2025-07-24	
Zirconium, dissolved	< 0.00010	N/A	0.00010 mg/L	2025-07-24	
<i>General Parameters</i>					
Alkalinity, Total (as CaCO ₃)	177	N/A	1.0 mg/L	2025-07-25	
Alkalinity, Phenolphthalein (as CaCO ₃)	< 1.0	N/A	1.0 mg/L	2025-07-25	
Alkalinity, Bicarbonate (as CaCO ₃)	177	N/A	1.0 mg/L	2025-07-25	
Alkalinity, Carbonate (as CaCO ₃)	< 1.0	N/A	1.0 mg/L	2025-07-25	
Alkalinity, Hydroxide (as CaCO ₃)	< 1.0	N/A	1.0 mg/L	2025-07-25	
Ammonia, Total (as N)	< 0.050	None Required	0.050 mg/L	2025-07-29	
Chemical Oxygen Demand	< 20	N/A	20 mg/L	2025-07-29	
Conductivity (EC)	553	N/A	2.0 µS/cm	2025-07-25	
pH	8.00	7.0-10.5	0.10 pH units	2025-07-25	HT2
<i>Microbiological Parameters</i>					
Coliforms, Total	< 1	MAC = 0	1 CFU/100 mL	2025-07-23	
E. coli	< 1	MAC = 0	1 CFU/100 mL	2025-07-23	

Sample Qualifiers:

HT2 The 15 minute recommended holding time (from sampling to analysis) has been exceeded - field analysis is recommended.

APPENDIX 1: SUPPORTING INFORMATION

REPORTED TO PROJECT Regional District of Okanagan Similkameen
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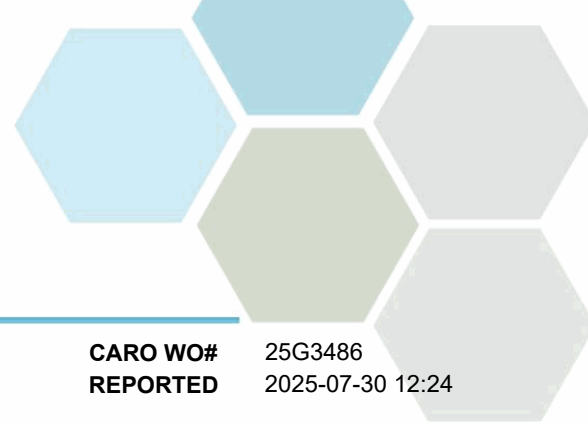
CARO WO# REPORTED 25G3486
2025-07-30 12:24

Analysis Description	Method Ref.	Technique	Accredited	Location
Alkalinity in Water	SM 2320 B* (2021)	Titration with H ₂ SO ₄	✓	Kelowna
Ammonia, Total in Water	SM 4500-NH ₃ G* (2021)	Automated Colorimetry (Phenate)	✓	Kelowna
Anions in Water	SM 4110 B (2020)	Ion Chromatography	✓	Kelowna
Chemical Oxygen Demand in Water	SM 5220 D* (2022)	Closed Reflux, Colorimetry	✓	Kelowna
Coliforms, Total in Water	SM 9222* (2015)	Membrane Filtration / Chromocult Agar	✓	Kelowna
Conductivity in Water	SM 2510 B (2021)	Conductivity Meter	✓	Kelowna
Dissolved Metals in Water	EPA 200.8 / EPA 6020B	0.45 µm Filtration / Inductively Coupled Plasma-Mass Spectroscopy (ICP-MS)	✓	Richmond
E. coli in Water	SM 9222* (2015)	Membrane Filtration / Chromocult Agar	✓	Kelowna
Hardness in Water	SM 2340 B (2021)	Calculation: 2.497 [diss Ca] + 4.118 [diss Mg]	✓	N/A
Mercury, dissolved in Water	EPA 245.7*	BrCl ₂ Oxidation / Cold Vapor Atomic Fluorescence Spectrometry (CVAFS)	✓	Richmond
pH in Water	SM 4500-H+ B (2021)	Electrometry	✓	Kelowna

Note: An asterisk in the Method Reference indicates that the CARO method has been modified from the reference method

Glossary of Terms:

RL	Reporting Limit (default)
<	Less than the specified Reporting Limit (RL) - the actual RL may be higher than the default RL due to various factors
AO	Aesthetic Objective
CFU/100 mL	Colony Forming Units per 100 millilitres
MAC	Maximum Acceptable Concentration (health based)
mg/L	Milligrams per litre
pH units	pH < 7 = acidic, pH > 7 = basic
µS/cm	Microsiemens per centimetre
EPA	United States Environmental Protection Agency Test Methods
SM	Standard Methods for the Examination of Water and Wastewater, American Public Health Association



APPENDIX 1: SUPPORTING INFORMATION

REPORTED TO PROJECT Regional District of Okanagan Similkameen
Keremeos - TLDW

CARO WO# 25G3486
REPORTED 2025-07-30 12:24

General Comments:

The results in this report apply to the received samples analyzed in accordance with the Chain of Custody document. This analytical report must be reproduced in its entirety. CARO is not responsible for any loss or damage resulting directly or indirectly from error or omission in the conduct of testing. Liability is limited to the cost of analysis. Samples will be disposed of 30 days after the test report has been issued or once samples expire, whichever comes first. Longer hold is possible if agreed to in writing.

Results in **Bold** indicate values that are above CARO's method reporting limits. Any results that are above regulatory limits are highlighted **red**. Please note that results will only be highlighted red if the regulatory limits are included on the CARO report. Any Bold and/or highlighted results do not take into account method uncertainty. If you would like method uncertainty or regulatory limits to be included on your report, please contact your Account Manager: [{@Email}](#)

Please note any regulatory guidelines applied to this report are added as a convenience to the client, at their request, to help provide some initial context to analytical results obtained. Although CARO makes every effort to ensure accuracy of the associated regulatory guideline(s) applied, the guidelines applied cannot be assumed to be correct due to a variety of factors and as such CARO Analytical Services assumes no liability or responsibility for the use of those guidelines to make any decisions. The original source of the regulation should be verified and a review of the guideline(s) should be validated as correct in order to make any decisions arising from the comparison of the analytical data obtained to the relevant regulatory guideline for one's particular circumstances. Further, CARO Analytical Services assumes no liability

APPENDIX 2: QUALITY CONTROL RESULTS

REPORTED TO PROJECT Regional District of Okanagan Similkameen
Keremeos - TLDW

CARO WO# 25G3486
REPORTED 2025-07-30 12:24

The following section displays the quality control (QC) data that is associated with your sample data. Groups of samples are prepared in "batches" and analyzed in conjunction with QC samples that ensure your data is of the highest quality. Common QC types include:

- **Method Blank (Blk):** A blank sample that undergoes sample processing identical to that carried out for the test samples. Method blank results are used to assess contamination from the laboratory environment and reagents.
- **Duplicate (Dup):** An additional or second portion of a randomly selected sample in the analytical run carried through the entire analytical process. Duplicates provide a measure of the analytical method's precision (reproducibility).
- **Blank Spike (BS):** A sample of known concentration which undergoes processing identical to that carried out for test samples, also referred to as a laboratory control sample (LCS). Blank spikes provide a measure of the analytical method's accuracy.
- **Matrix Spike (MS):** A second aliquot of sample is fortified with a known concentration of target analytes and carried through the entire analytical process. Matrix spikes evaluate potential matrix effects that may affect the analyte recovery.
- **Reference Material (SRM):** A homogenous material of similar matrix to the samples, certified for the parameter(s) listed. Reference Materials ensure that the analytical process is adequate to achieve acceptable recoveries of the parameter(s) tested.

Each QC type is analyzed at a 5-10% frequency, i.e. one blank/duplicate/spike for every 10-20 samples. For all types of QC, the specified recovery (% Rec) and relative percent difference (RPD) limits are derived from long-term method performance averages and/or prescribed by the reference method.

Analyte	Result	MRL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Notes

Anions, Batch B5G4574

Blank (B5G4574-BLK1)			Prepared: 2025-07-25, Analyzed: 2025-07-25						
Bromide	< 0.10	0.10 mg/L							
Chloride	< 0.10	0.10 mg/L							
Fluoride	< 0.10	0.10 mg/L							
Nitrate (as N)	< 0.005	0.005 mg/L							
Nitrite (as N)	< 0.005	0.005 mg/L							
Sulfate	< 1.0	1.0 mg/L							
LCS (B5G4574-BS1)			Prepared: 2025-07-25, Analyzed: 2025-07-25						
Bromide	3.93	0.10 mg/L	4.00		98	85-115			
Chloride	15.8	0.10 mg/L	16.0		99	90-110			
Fluoride	4.10	0.10 mg/L	4.00		103	88-108			
Nitrate (as N)	4.00	0.005 mg/L	4.00		100	90-110			
Nitrite (as N)	1.88	0.005 mg/L	2.00		94	85-115			
Sulfate	15.4	1.0 mg/L	16.0		96	90-110			

Dissolved Metals, Batch B5G4543

Blank (B5G4543-BLK1)			Prepared: 2025-07-24, Analyzed: 2025-07-24						
Aluminum, dissolved	< 0.0050	0.0050 mg/L							
Antimony, dissolved	< 0.00020	0.00020 mg/L							
Arsenic, dissolved	< 0.00050	0.00050 mg/L							
Barium, dissolved	< 0.0050	0.0050 mg/L							
Beryllium, dissolved	< 0.00010	0.00010 mg/L							
Bismuth, dissolved	< 0.00010	0.00010 mg/L							
Boron, dissolved	< 0.0500	0.0500 mg/L							
Cadmium, dissolved	< 0.000010	0.000010 mg/L							
Calcium, dissolved	< 0.20	0.20 mg/L							
Chromium, dissolved	< 0.00050	0.00050 mg/L							
Cobalt, dissolved	< 0.00010	0.00010 mg/L							
Copper, dissolved	< 0.00040	0.00040 mg/L							
Iron, dissolved	< 0.010	0.010 mg/L							
Lead, dissolved	< 0.00020	0.00020 mg/L							
Lithium, dissolved	< 0.00010	0.00010 mg/L							
Magnesium, dissolved	< 0.010	0.010 mg/L							
Manganese, dissolved	< 0.00020	0.00020 mg/L							
Molybdenum, dissolved	< 0.00010	0.00010 mg/L							

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Keremeos - TLDW

CARO WO# 25G3486
REPORTED 2025-07-30 12:24

Analyte	Result	MRL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Notes
Dissolved Metals, Batch B5G4543, Continued									
Blank (B5G4543-BLK1), Continued					Prepared: 2025-07-24, Analyzed: 2025-07-24				
Nickel, dissolved	< 0.00040	0.00040 mg/L							
Phosphorus, dissolved	< 0.050	0.050 mg/L							
Potassium, dissolved	< 0.10	0.10 mg/L							
Selenium, dissolved	< 0.00050	0.00050 mg/L							
Silicon, dissolved	< 1.0	1.0 mg/L							
Silver, dissolved	< 0.000050	0.000050 mg/L							
Sodium, dissolved	< 0.10	0.10 mg/L							
Strontium, dissolved	< 0.0010	0.0010 mg/L							
Sulfur, dissolved	< 3.0	3.0 mg/L							
Tellurium, dissolved	< 0.00050	0.00050 mg/L							
Thallium, dissolved	< 0.000020	0.000020 mg/L							
Thorium, dissolved	< 0.00010	0.00010 mg/L							
Tin, dissolved	< 0.00020	0.00020 mg/L							
Titanium, dissolved	< 0.0050	0.0050 mg/L							
Tungsten, dissolved	< 0.0010	0.0010 mg/L							
Uranium, dissolved	< 0.000020	0.000020 mg/L							
Vanadium, dissolved	< 0.0050	0.0050 mg/L							
Zinc, dissolved	< 0.0040	0.0040 mg/L							
Zirconium, dissolved	< 0.00010	0.00010 mg/L							
LCS (B5G4543-BS1)					Prepared: 2025-07-24, Analyzed: 2025-07-24				
Aluminum, dissolved	4.07	0.0050 mg/L	4.00		102	80-120			
Antimony, dissolved	0.0398	0.00020 mg/L	0.0400		99	80-120			
Arsenic, dissolved	0.407	0.00050 mg/L	0.400		102	80-120			
Barium, dissolved	0.0408	0.0050 mg/L	0.0400		102	80-120			
Beryllium, dissolved	0.0405	0.00010 mg/L	0.0400		101	80-120			
Bismuth, dissolved	0.0412	0.00010 mg/L	0.0400		103	80-120			
Boron, dissolved	0.404	0.0500 mg/L	0.400		101	80-120			
Cadmium, dissolved	0.0397	0.000010 mg/L	0.0400		99	80-120			
Calcium, dissolved	4.14	0.20 mg/L	4.00		103	80-120			
Chromium, dissolved	0.0413	0.00050 mg/L	0.0400		103	80-120			
Cobalt, dissolved	0.0408	0.00010 mg/L	0.0400		102	80-120			
Copper, dissolved	0.0411	0.00040 mg/L	0.0400		103	80-120			
Iron, dissolved	4.10	0.010 mg/L	4.00		102	80-120			
Lead, dissolved	0.0411	0.00020 mg/L	0.0400		103	80-120			
Lithium, dissolved	0.0411	0.00010 mg/L	0.0400		103	80-120			
Magnesium, dissolved	4.09	0.010 mg/L	4.00		102	80-120			
Manganese, dissolved	0.0407	0.00020 mg/L	0.0400		102	80-120			
Molybdenum, dissolved	0.0393	0.00010 mg/L	0.0400		98	80-120			
Nickel, dissolved	0.0402	0.00040 mg/L	0.0400		101	80-120			
Phosphorus, dissolved	4.11	0.050 mg/L	4.00		103	80-120			
Potassium, dissolved	4.06	0.10 mg/L	4.00		102	80-120			
Selenium, dissolved	0.411	0.00050 mg/L	0.400		103	80-120			
Silicon, dissolved	4.0	1.0 mg/L	4.00		101	80-120			
Silver, dissolved	0.0389	0.000050 mg/L	0.0400		97	80-120			
Sodium, dissolved	4.07	0.10 mg/L	4.00		102	80-120			
Strontium, dissolved	0.0404	0.0010 mg/L	0.0400		101	80-120			
Sulfur, dissolved	41.0	3.0 mg/L	40.0		103	80-120			
Tellurium, dissolved	0.0385	0.00050 mg/L	0.0400		96	80-120			
Thallium, dissolved	0.0407	0.000020 mg/L	0.0400		102	80-120			
Thorium, dissolved	0.0412	0.00010 mg/L	0.0400		103	80-120			
Tin, dissolved	0.0398	0.00020 mg/L	0.0400		100	80-120			
Titanium, dissolved	0.0401	0.0050 mg/L	0.0400		100	80-120			
Tungsten, dissolved	0.0404	0.0010 mg/L	0.0400		101	80-120			
Uranium, dissolved	0.0411	0.000020 mg/L	0.0400		103	80-120			
Vanadium, dissolved	0.0408	0.0050 mg/L	0.0400		102	80-120			

APPENDIX 2: QUALITY CONTROL RESULTS

REPORTED TO PROJECT Regional District of Okanagan Similkameen
Keremeos - TLDW

CARO WO# REPORTED 25G3486
2025-07-30 12:24

Analyte	Result	MRL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Notes

Dissolved Metals, Batch B5G4543, Continued

LCS (B5G4543-BS1), Continued			Prepared: 2025-07-24, Analyzed: 2025-07-24						
Zinc, dissolved	0.408	0.0040 mg/L	0.400		102	80-120			
Zirconium, dissolved	0.0390	0.00010 mg/L	0.0400		98	80-120			

Duplicate (B5G4543-DUP1)			Source: 25G3486-01		Prepared: 2025-07-24, Analyzed: 2025-07-24				
Aluminum, dissolved	< 0.0050	0.0050 mg/L		< 0.0050				20	
Antimony, dissolved	< 0.00020	0.00020 mg/L		< 0.00020				20	
Arsenic, dissolved	0.00127	0.00050 mg/L		0.00122				20	
Barium, dissolved	0.0308	0.0050 mg/L		0.0304			1	20	
Beryllium, dissolved	< 0.00010	0.00010 mg/L		< 0.00010				20	
Bismuth, dissolved	< 0.00010	0.00010 mg/L		< 0.00010				20	
Boron, dissolved	< 0.0500	0.0500 mg/L		< 0.0500				20	
Cadmium, dissolved	0.000012	0.000010 mg/L		0.000010				20	
Calcium, dissolved	80.7	0.20 mg/L		78.3			3	20	
Chromium, dissolved	0.00111	0.00050 mg/L		0.00116				20	
Cobalt, dissolved	< 0.00010	0.00010 mg/L		< 0.00010				20	
Copper, dissolved	0.00351	0.00040 mg/L		0.00354			< 1	20	
Iron, dissolved	< 0.010	0.010 mg/L		< 0.010				20	
Lead, dissolved	< 0.00020	0.00020 mg/L		< 0.00020				20	
Lithium, dissolved	0.00308	0.00010 mg/L		0.00301			3	20	
Magnesium, dissolved	16.6	0.010 mg/L		16.6			< 1	20	
Manganese, dissolved	< 0.00020	0.00020 mg/L		< 0.00020				20	
Molybdenum, dissolved	0.00256	0.00010 mg/L		0.00256			< 1	20	
Nickel, dissolved	0.00081	0.00040 mg/L		0.00077				20	
Phosphorus, dissolved	< 0.050	0.050 mg/L		< 0.050				20	
Potassium, dissolved	2.97	0.10 mg/L		2.96			< 1	20	
Selenium, dissolved	0.00210	0.00050 mg/L		0.00207				20	
Silicon, dissolved	9.9	1.0 mg/L		9.8			2	20	
Silver, dissolved	< 0.000050	0.000050 mg/L		< 0.000050				20	
Sodium, dissolved	13.2	0.10 mg/L		13.2			< 1	20	
Strontium, dissolved	0.523	0.0010 mg/L		0.533			2	20	
Sulfur, dissolved	25.1	3.0 mg/L		24.6			2	20	
Tellurium, dissolved	< 0.00050	0.00050 mg/L		< 0.00050				20	
Thallium, dissolved	< 0.000020	0.000020 mg/L		< 0.000020				20	
Thorium, dissolved	< 0.00010	0.00010 mg/L		< 0.00010				20	
Tin, dissolved	< 0.00020	0.00020 mg/L		< 0.00020				20	
Titanium, dissolved	< 0.0050	0.0050 mg/L		< 0.0050				20	
Tungsten, dissolved	< 0.0010	0.0010 mg/L		< 0.0010				20	
Uranium, dissolved	0.00170	0.000020 mg/L		0.00169			< 1	20	
Vanadium, dissolved	< 0.0050	0.0050 mg/L		< 0.0050				20	
Zinc, dissolved	< 0.0040	0.0040 mg/L		< 0.0040				20	
Zirconium, dissolved	< 0.00010	0.00010 mg/L		< 0.00010				20	

Dissolved Metals, Batch B5G4793

Blank (B5G4793-BLK1)			Prepared: 2025-07-27, Analyzed: 2025-07-28						
Mercury, dissolved	< 0.000010	0.000010 mg/L							
Blank (B5G4793-BLK2)			Prepared: 2025-07-27, Analyzed: 2025-07-28						
Mercury, dissolved	< 0.000010	0.000010 mg/L							
Blank (B5G4793-BLK3)			Prepared: 2025-07-27, Analyzed: 2025-07-28						
Mercury, dissolved	< 0.000010	0.000010 mg/L							

APPENDIX 2: QUALITY CONTROL RESULTS

REPORTED TO PROJECT Regional District of Okanagan Similkameen
Keremeos - TLDW

CARO WO# 25G3486
REPORTED 2025-07-30 12:24

Analyte	Result	MRL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Notes
Dissolved Metals, Batch B5G4793, Continued									
Blank (B5G4793-BLK4)				Prepared: 2025-07-27, Analyzed: 2025-07-28					
Mercury, dissolved	< 0.000010	0.000010 mg/L							
LCS (B5G4793-BS1)				Prepared: 2025-07-27, Analyzed: 2025-07-28					
Mercury, dissolved	0.00264	0.000010 mg/L	0.00250		105	80-120			
LCS (B5G4793-BS2)				Prepared: 2025-07-27, Analyzed: 2025-07-28					
Mercury, dissolved	0.00289	0.000010 mg/L	0.00250		116	80-120			
LCS (B5G4793-BS3)				Prepared: 2025-07-27, Analyzed: 2025-07-28					
Mercury, dissolved	0.00295	0.000010 mg/L	0.00250		118	80-120			
LCS (B5G4793-BS4)				Prepared: 2025-07-27, Analyzed: 2025-07-28					
Mercury, dissolved	0.00270	0.000010 mg/L	0.00250		108	80-120			
General Parameters, Batch B5G4597									
Blank (B5G4597-BLK1)				Prepared: 2025-07-25, Analyzed: 2025-07-25					
Alkalinity, Total (as CaCO ₃)	< 1.0	1.0 mg/L							
Alkalinity, Phenolphthalein (as CaCO ₃)	< 1.0	1.0 mg/L							
Alkalinity, Bicarbonate (as CaCO ₃)	< 1.0	1.0 mg/L							
Alkalinity, Carbonate (as CaCO ₃)	< 1.0	1.0 mg/L							
Alkalinity, Hydroxide (as CaCO ₃)	< 1.0	1.0 mg/L							
Conductivity (EC)	< 1.0	1.0 µS/cm							BLK
Blank (B5G4597-BLK2)				Prepared: 2025-07-25, Analyzed: 2025-07-25					
Alkalinity, Total (as CaCO ₃)	< 1.0	1.0 mg/L							
Alkalinity, Phenolphthalein (as CaCO ₃)	< 1.0	1.0 mg/L							
Alkalinity, Bicarbonate (as CaCO ₃)	< 1.0	1.0 mg/L							
Alkalinity, Carbonate (as CaCO ₃)	< 1.0	1.0 mg/L							
Alkalinity, Hydroxide (as CaCO ₃)	< 1.0	1.0 mg/L							
Conductivity (EC)	< 1.0	1.0 µS/cm							BLK
Blank (B5G4597-BLK3)				Prepared: 2025-07-25, Analyzed: 2025-07-25					
Alkalinity, Total (as CaCO ₃)	< 1.0	1.0 mg/L							
Alkalinity, Phenolphthalein (as CaCO ₃)	< 1.0	1.0 mg/L							
Alkalinity, Bicarbonate (as CaCO ₃)	< 1.0	1.0 mg/L							
Alkalinity, Carbonate (as CaCO ₃)	< 1.0	1.0 mg/L							
Alkalinity, Hydroxide (as CaCO ₃)	< 1.0	1.0 mg/L							
Conductivity (EC)	1.8	1.0 µS/cm							BLK
General Parameters, Batch B5G4802									
Blank (B5G4802-BLK1)				Prepared: 2025-07-29, Analyzed: 2025-07-29					
Chemical Oxygen Demand	< 20	20 mg/L							
Blank (B5G4802-BLK2)				Prepared: 2025-07-29, Analyzed: 2025-07-29					
Chemical Oxygen Demand	< 20	20 mg/L							
LCS (B5G4802-BS1)				Prepared: 2025-07-29, Analyzed: 2025-07-29					
Chemical Oxygen Demand	490	20 mg/L	500		98	89-115			
LCS (B5G4802-BS2)				Prepared: 2025-07-29, Analyzed: 2025-07-29					
Chemical Oxygen Demand	497	20 mg/L	500		99	89-115			

General Parameters, Batch B5G4918

APPENDIX 2: QUALITY CONTROL RESULTS

REPORTED TO PROJECT Regional District of Okanagan Similkameen
Keremeos - TLDW

CARO WO# 25G3486
REPORTED 2025-07-30 12:24

Analyte	Result	MRL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Notes
General Parameters, Batch B5G4918, Continued									
Blank (B5G4918-BLK1)				Prepared: 2025-07-29, Analyzed: 2025-07-29					
Ammonia, Total (as N)	< 0.050	0.050 mg/L							
LCS (B5G4918-BS1)				Prepared: 2025-07-29, Analyzed: 2025-07-29					
Ammonia, Total (as N)	0.968	0.050 mg/L	1.00		97	85-115			
Microbiological Parameters, Batch B5G4287									
Blank (B5G4287-BLK1)				Prepared: 2025-07-23, Analyzed: 2025-07-23					
Coliforms, Total	< 1	1 CFU/100 mL							
E. coli	< 1	1 CFU/100 mL							
Blank (B5G4287-BLK2)				Prepared: 2025-07-23, Analyzed: 2025-07-23					
Coliforms, Total	< 1	1 CFU/100 mL							
E. coli	< 1	1 CFU/100 mL							
Blank (B5G4287-BLK3)				Prepared: 2025-07-23, Analyzed: 2025-07-23					
Coliforms, Total	< 1	1 CFU/100 mL							
E. coli	< 1	1 CFU/100 mL							
Blank (B5G4287-BLK4)				Prepared: 2025-07-23, Analyzed: 2025-07-23					
Coliforms, Total	< 1	1 CFU/100 mL							
E. coli	< 1	1 CFU/100 mL							
Blank (B5G4287-BLK5)				Prepared: 2025-07-23, Analyzed: 2025-07-23					
Coliforms, Total	< 1	1 CFU/100 mL							
E. coli	< 1	1 CFU/100 mL							
Blank (B5G4287-BLK6)				Prepared: 2025-07-23, Analyzed: 2025-07-23					
Coliforms, Total	< 1	1 CFU/100 mL							
E. coli	< 1	1 CFU/100 mL							
Blank (B5G4287-BLK7)				Prepared: 2025-07-23, Analyzed: 2025-07-23					
Coliforms, Total	< 1	1 CFU/100 mL							
E. coli	< 1	1 CFU/100 mL							
Blank (B5G4287-BLK8)				Prepared: 2025-07-23, Analyzed: 2025-07-23					
Coliforms, Total	< 1	1 CFU/100 mL							
E. coli	< 1	1 CFU/100 mL							

QC Qualifiers:

BLK Analyte concentration in the Method Blank is above the Reporting Limit (RL).

CERTIFICATE OF ANALYSIS

REPORTED TO	Regional District of Okanagan Similkameen 101 Martin Street Penticton, BC V2A 5J9	WORK ORDER	25J4035
ATTENTION	Rob Palmer	RECEIVED / TEMP	2025-10-29 10:43 / 7°C
PO NUMBER	20259001- TLDW	REPORTED	2025-11-05 08:31
PROJECT	Keremeos - TLDW	COC NUMBER	eCOC#00029456
PROJECT INFO			

Introduction:

CARO Analytical Services is a testing laboratory full of smart, engaged scientists driven to make the world a safer and healthier place. Through our clients' projects we become an essential element for a better world. We employ methods conducted in accordance with recognized professional standards using accepted testing methodologies and quality control efforts. CARO is accredited by the Canadian Association for Laboratories Accreditation (CALA) to ISO/IEC 17025:2017 for specific tests listed in the scope of accreditation approved by CALA.

Big Picture Sidekicks



You know that the sample you collected after snowshoeing to site, digging 5 meters, and racing to get it on a plane so you can submit it to the lab for time sensitive results needed to make important and expensive decisions (whew) is VERY important. We know that too.

We've Got Chemistry



It's simple. We figure the more you enjoy working with our fun and engaged team members; the more likely you are to give us continued opportunities to support you.

Ahead of the Curve



Through research, regulation knowledge, and instrumentation, we are your analytical centre for the technical knowledge you need, BEFORE you need it, so you can stay up to date and in the know.

Work Order Comments:

Custody Seals Intact: N/A

By engaging our services, you are agreeing to CARO Analytical Service's Standard Terms and Conditions outlined here:
<https://www.caro.ca/terms-conditions>

If you have any questions or concerns, please contact me at hhannaoui@caro.ca

Authorized By:

Hanane El Hannaoui
Junior Account Manager



1-888-311-8846 | www.caro.ca

#110 4011 Viking Way Richmond, BC V6V 2K9 | #102 3677 Highway 97N Kelowna, BC V1X 5C3 | 17225 109 Avenue Edmonton, AB T5S 1H7 |
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TEST RESULTS

REPORTED TO PROJECT Regional District of Okanagan Similkameen
Keremeos - TLDW

CARO WO# REPORTED 25J4035
2025-11-05 08:31

Analyte	Result	Guideline	RL Units	Analyzed	Qualifier
DW-960 (25J4035-01) Matrix: Drinking Water Sampled: 2025-10-28 16:40					
Anions					
Bromide	< 0.10	N/A	0.10 mg/L	2025-10-30	
Chloride	15.0	AO ≤ 250	0.10 mg/L	2025-10-30	
Fluoride	< 0.10	MAC = 1.5	0.10 mg/L	2025-10-30	
Nitrate (as N)	0.561	MAC = 10	0.010 mg/L	2025-10-30	
Nitrite (as N)	< 0.010	MAC = 1	0.010 mg/L	2025-10-30	
Sulfate	74.8	AO ≤ 500	1.0 mg/L	2025-10-30	
Calculated Parameters					
Bicarbonate (HCO ₃)	242	N/A	1.22 mg/L	N/A	
Carbonate (CO ₃)	< 0.600	N/A	0.600 mg/L	N/A	
Hydroxide (OH)	< 0.340	N/A	0.340 mg/L	N/A	
Hardness, Dissolved (as CaCO ₃)	259	N/A	0.500 mg/L	N/A	
Nitrate+Nitrite (as N)	0.561	N/A	0.0100 mg/L	N/A	
Dissolved Metals					
Aluminum, dissolved	< 0.0050	N/A	0.0050 mg/L	2025-11-01	
Antimony, dissolved	< 0.00020	N/A	0.00020 mg/L	2025-11-01	
Arsenic, dissolved	0.00123	N/A	0.00050 mg/L	2025-11-01	
Barium, dissolved	0.0300	N/A	0.0050 mg/L	2025-11-01	
Beryllium, dissolved	< 0.00010	N/A	0.00010 mg/L	2025-11-01	
Bismuth, dissolved	< 0.00010	N/A	0.00010 mg/L	2025-11-01	
Boron, dissolved	< 0.0500	N/A	0.0500 mg/L	2025-11-01	
Cadmium, dissolved	0.000012	N/A	0.000010 mg/L	2025-11-01	
Calcium, dissolved	78.3	N/A	0.20 mg/L	2025-11-01	
Chromium, dissolved	0.00111	N/A	0.00050 mg/L	2025-11-01	
Cobalt, dissolved	< 0.00010	N/A	0.00010 mg/L	2025-11-01	
Copper, dissolved	0.00508	N/A	0.00040 mg/L	2025-11-01	
Iron, dissolved	< 0.010	N/A	0.010 mg/L	2025-11-01	
Lead, dissolved	< 0.00020	N/A	0.00020 mg/L	2025-11-01	
Lithium, dissolved	0.00298	N/A	0.00010 mg/L	2025-11-01	
Magnesium, dissolved	15.4	N/A	0.010 mg/L	2025-11-01	
Manganese, dissolved	0.00022	N/A	0.00020 mg/L	2025-11-01	
Mercury, dissolved	< 0.000010	N/A	0.000010 mg/L	2025-11-03	
Molybdenum, dissolved	0.00232	N/A	0.00010 mg/L	2025-11-01	
Nickel, dissolved	0.00066	N/A	0.00040 mg/L	2025-11-01	
Phosphorus, dissolved	< 0.050	N/A	0.050 mg/L	2025-11-01	
Potassium, dissolved	2.98	N/A	0.10 mg/L	2025-11-01	
Selenium, dissolved	0.00230	N/A	0.00050 mg/L	2025-11-01	
Silicon, dissolved	9.5	N/A	1.0 mg/L	2025-11-01	
Silver, dissolved	< 0.000050	N/A	0.000050 mg/L	2025-11-01	
Sodium, dissolved	13.2	N/A	0.10 mg/L	2025-11-01	
Strontium, dissolved	0.591	N/A	0.0010 mg/L	2025-11-01	
Sulfur, dissolved	24.0	N/A	3.0 mg/L	2025-11-01	
Tellurium, dissolved	< 0.00050	N/A	0.00050 mg/L	2025-11-01	

TEST RESULTS

REPORTED TO PROJECT Regional District of Okanagan Similkameen
Keremeos - TLDW

CARO WO# REPORTED 25J4035
2025-11-05 08:31

Analyte	Result	Guideline	RL Units	Analyzed	Qualifier
DW-960 (25J4035-01) Matrix: Drinking Water Sampled: 2025-10-28 16:40, Continued					
<i>Dissolved Metals, Continued</i>					
Thallium, dissolved	< 0.000020	N/A	0.000020 mg/L	2025-11-01	
Thorium, dissolved	< 0.00010	N/A	0.00010 mg/L	2025-11-01	
Tin, dissolved	< 0.00020	N/A	0.00020 mg/L	2025-11-01	
Titanium, dissolved	< 0.0050	N/A	0.0050 mg/L	2025-11-01	
Tungsten, dissolved	< 0.0010	N/A	0.0010 mg/L	2025-11-01	
Uranium, dissolved	0.00167	N/A	0.000020 mg/L	2025-11-01	
Vanadium, dissolved	< 0.0050	N/A	0.0050 mg/L	2025-11-01	
Zinc, dissolved	0.0042	N/A	0.0040 mg/L	2025-11-01	
Zirconium, dissolved	< 0.00010	N/A	0.00010 mg/L	2025-11-01	
<i>General Parameters</i>					
Alkalinity, Total (as CaCO ₃)	199	N/A	1.0 mg/L	2025-10-31	
Alkalinity, Phenolphthalein (as CaCO ₃)	< 1.0	N/A	1.0 mg/L	2025-10-31	
Alkalinity, Bicarbonate (as CaCO ₃)	199	N/A	1.0 mg/L	2025-10-31	
Alkalinity, Carbonate (as CaCO ₃)	< 1.0	N/A	1.0 mg/L	2025-10-31	
Alkalinity, Hydroxide (as CaCO ₃)	< 1.0	N/A	1.0 mg/L	2025-10-31	
Ammonia, Total (as N)	< 0.050	None Required	0.050 mg/L	2025-11-04	
Chemical Oxygen Demand	< 20	N/A	20 mg/L	2025-10-31	
Conductivity (EC)	556	N/A	2.0 µS/cm	2025-10-31	
pH	7.87	7.0-10.5	0.10 pH units	2025-10-31	HT2
<i>Microbiological Parameters</i>					
Coliforms, Total	< 1	MAC = 0	1 CFU/100 mL	2025-10-29	
E. coli	< 1	MAC = 0	1 CFU/100 mL	2025-10-29	

Sample Qualifiers:

HT2 The 15 minute recommended holding time (from sampling to analysis) has been exceeded - field analysis is recommended.

APPENDIX 1: SUPPORTING INFORMATION

REPORTED TO PROJECT Regional District of Okanagan Similkameen
Keremeos - TLDW

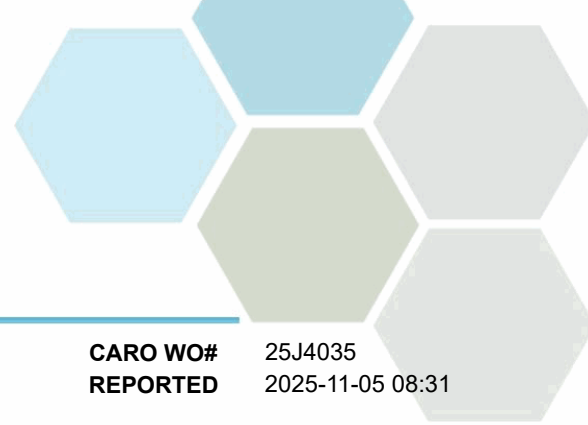
CARO WO# REPORTED 25J4035
2025-11-05 08:31

Analysis Description	Method Ref.	Technique	Accredited	Location
Alkalinity in Water	SM 2320 B* (2021)	Titration with H ₂ SO ₄	✓	Kelowna
Ammonia, Total in Water	SM 4500-NH ₃ G* (2021)	Automated Colorimetry (Phenate)	✓	Kelowna
Anions in Water	SM 4110 B (2020)	Ion Chromatography	✓	Kelowna
Chemical Oxygen Demand in Water	SM 5220 D* (2022)	Closed Reflux, Colorimetry	✓	Kelowna
Coliforms, Total in Water	SM 9222* (2015)	Membrane Filtration / Chromocult Agar	✓	Kelowna
Conductivity in Water	SM 2510 B (2021)	Conductivity Meter	✓	Kelowna
Dissolved Metals in Water	EPA 200.8 / EPA 6020B	0.45 µm Filtration / Inductively Coupled Plasma-Mass Spectroscopy (ICP-MS)	✓	Richmond
E. coli in Water	SM 9222* (2015)	Membrane Filtration / Chromocult Agar	✓	Kelowna
Hardness in Water	SM 2340 B (2021)	Calculation: 2.497 [diss Ca] + 4.118 [diss Mg]	✓	N/A
Mercury, dissolved in Water	EPA 245.7*	BrCl ₂ Oxidation / Cold Vapor Atomic Fluorescence Spectrometry (CVAFS)	✓	Richmond
pH in Water	SM 4500-H+ B (2021)	Electrometry	✓	Kelowna

Note: An asterisk in the Method Reference indicates that the CARO method has been modified from the reference method

Glossary of Terms:

RL	Reporting Limit (default)
<	Less than the specified Reporting Limit (RL) - the actual RL may be higher than the default RL due to various factors
AO	Aesthetic Objective
CFU/100 mL	Colony Forming Units per 100 millilitres
MAC	Maximum Acceptable Concentration (health based)
mg/L	Milligrams per litre
pH units	pH < 7 = acidic, pH > 7 = basic
µS/cm	Microsiemens per centimetre
EPA	United States Environmental Protection Agency Test Methods
SM	Standard Methods for the Examination of Water and Wastewater, American Public Health Association



APPENDIX 1: SUPPORTING INFORMATION

REPORTED TO PROJECT Regional District of Okanagan Similkameen
Keremeos - TLDW

CARO WO# 25J4035
REPORTED 2025-11-05 08:31

General Comments:

The results in this report apply to the received samples analyzed in accordance with the Chain of Custody document. This analytical report must be reproduced in its entirety. CARO is not responsible for any loss or damage resulting directly or indirectly from error or omission in the conduct of testing. Liability is limited to the cost of analysis. Samples will be disposed of 30 days after the test report has been issued or once samples expire, whichever comes first. Longer hold is possible if agreed to in writing.

Results in **Bold** indicate values that are above CARO's method reporting limits. Any results that are above regulatory limits are highlighted **red**. Please note that results will only be highlighted red if the regulatory limits are included on the CARO report. Any Bold and/or highlighted results do not take into account method uncertainty. If you would like method uncertainty or regulatory limits to be included on your report, please contact your Account Manager: [{@Email}](#)

Please note any regulatory guidelines applied to this report are added as a convenience to the client, at their request, to help provide some initial context to analytical results obtained. Although CARO makes every effort to ensure accuracy of the associated regulatory guideline(s) applied, the guidelines applied cannot be assumed to be correct due to a variety of factors and as such CARO Analytical Services assumes no liability or responsibility for the use of those guidelines to make any decisions. The original source of the regulation should be verified and a review of the guideline(s) should be validated as correct in order to make any decisions arising from the comparison of the analytical data obtained to the relevant regulatory guideline for one's particular circumstances. Further, CARO Analytical Services assumes no liability

APPENDIX 2: QUALITY CONTROL RESULTS

REPORTED TO PROJECT Regional District of Okanagan Similkameen
Keremeos - TLDW

CARO WO# 25J4035
REPORTED 2025-11-05 08:31

The following section displays the quality control (QC) data that is associated with your sample data. Groups of samples are prepared in "batches" and analyzed in conjunction with QC samples that ensure your data is of the highest quality. Common QC types include:

- **Method Blank (Blk):** A blank sample that undergoes sample processing identical to that carried out for the test samples. Method blank results are used to assess contamination from the laboratory environment and reagents.
- **Duplicate (Dup):** An additional or second portion of a randomly selected sample in the analytical run carried through the entire analytical process. Duplicates provide a measure of the analytical method's precision (reproducibility).
- **Blank Spike (BS):** A sample of known concentration which undergoes processing identical to that carried out for test samples, also referred to as a laboratory control sample (LCS). Blank spikes provide a measure of the analytical method's accuracy.
- **Matrix Spike (MS):** A second aliquot of sample is fortified with a known concentration of target analytes and carried through the entire analytical process. Matrix spikes evaluate potential matrix effects that may affect the analyte recovery.
- **Reference Material (SRM):** A homogenous material of similar matrix to the samples, certified for the parameter(s) listed. Reference Materials ensure that the analytical process is adequate to achieve acceptable recoveries of the parameter(s) tested.

Each QC type is analyzed at a 5-10% frequency, i.e. one blank/duplicate/spike for every 10-20 samples. For all types of QC, the specified recovery (% Rec) and relative percent difference (RPD) limits are derived from long-term method performance averages and/or prescribed by the reference method.

Analyte	Result	MRL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Notes

Anions, Batch B5J5300

Blank (B5J5300-BLK2)			Prepared: 2025-10-30, Analyzed: 2025-10-30						
Bromide	< 0.10	0.10 mg/L							
Chloride	< 0.10	0.10 mg/L							
Fluoride	< 0.10	0.10 mg/L							
Nitrate (as N)	< 0.010	0.010 mg/L							
Nitrite (as N)	< 0.010	0.010 mg/L							
Sulfate	< 1.0	1.0 mg/L							
LCS (B5J5300-BS1)			Prepared: 2025-10-30, Analyzed: 2025-10-30						
Bromide	4.01	0.10 mg/L	4.00		100	85-115			
Chloride	16.8	0.10 mg/L	16.0		105	90-110			
Fluoride	3.95	0.10 mg/L	4.00		99	88-108			
Nitrate (as N)	4.13	0.010 mg/L	4.00		103	90-110			
Nitrite (as N)	2.00	0.010 mg/L	2.00		100	85-115			
Sulfate	15.6	1.0 mg/L	16.0		98	90-110			
LCS (B5J5300-BS2)			Prepared: 2025-10-30, Analyzed: 2025-10-30						
Bromide	3.94	0.10 mg/L	4.00		98	85-115			
Chloride	16.2	0.10 mg/L	16.0		101	90-110			
Fluoride	3.79	0.10 mg/L	4.00		95	88-108			
Nitrate (as N)	4.14	0.010 mg/L	4.00		104	90-110			
Nitrite (as N)	1.99	0.010 mg/L	2.00		100	85-115			
Sulfate	16.4	1.0 mg/L	16.0		103	90-110			

Dissolved Metals, Batch B5K1816

Blank (B5K1816-BLK1)			Prepared: 2025-11-01, Analyzed: 2025-11-01						
Aluminum, dissolved	< 0.0050	0.0050 mg/L							
Antimony, dissolved	< 0.00020	0.00020 mg/L							
Arsenic, dissolved	< 0.00050	0.00050 mg/L							
Barium, dissolved	< 0.0050	0.0050 mg/L							
Beryllium, dissolved	< 0.00010	0.00010 mg/L							
Bismuth, dissolved	< 0.00010	0.00010 mg/L							
Boron, dissolved	< 0.0500	0.0500 mg/L							
Cadmium, dissolved	< 0.000010	0.000010 mg/L							
Calcium, dissolved	< 0.20	0.20 mg/L							
Chromium, dissolved	< 0.00050	0.00050 mg/L							

APPENDIX 2: QUALITY CONTROL RESULTS

REPORTED TO PROJECT Regional District of Okanagan Similkameen
Keremeos - TLDW

CARO WO# 25J4035
REPORTED 2025-11-05 08:31

Analyte	Result	MRL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Notes
Dissolved Metals, Batch B5K1816, Continued									
Blank (B5K1816-BLK1), Continued				Prepared: 2025-11-01, Analyzed: 2025-11-01					
Cobalt, dissolved	< 0.00010	0.00010 mg/L							
Copper, dissolved	< 0.00040	0.00040 mg/L							
Iron, dissolved	< 0.010	0.010 mg/L							
Lead, dissolved	< 0.00020	0.00020 mg/L							
Lithium, dissolved	< 0.00010	0.00010 mg/L							
Magnesium, dissolved	< 0.010	0.010 mg/L							
Manganese, dissolved	< 0.00020	0.00020 mg/L							
Molybdenum, dissolved	< 0.00010	0.00010 mg/L							
Nickel, dissolved	< 0.00040	0.00040 mg/L							
Phosphorus, dissolved	< 0.050	0.050 mg/L							
Potassium, dissolved	< 0.10	0.10 mg/L							
Selenium, dissolved	< 0.00050	0.00050 mg/L							
Silicon, dissolved	< 1.0	1.0 mg/L							
Silver, dissolved	< 0.000050	0.000050 mg/L							
Sodium, dissolved	< 0.10	0.10 mg/L							
Strontium, dissolved	< 0.0010	0.0010 mg/L							
Sulfur, dissolved	< 3.0	3.0 mg/L							
Tellurium, dissolved	< 0.00050	0.00050 mg/L							
Thallium, dissolved	< 0.000020	0.000020 mg/L							
Thorium, dissolved	< 0.00010	0.00010 mg/L							
Tin, dissolved	< 0.00020	0.00020 mg/L							
Titanium, dissolved	< 0.0050	0.0050 mg/L							
Tungsten, dissolved	< 0.0010	0.0010 mg/L							
Uranium, dissolved	< 0.000020	0.000020 mg/L							
Vanadium, dissolved	< 0.0050	0.0050 mg/L							
Zinc, dissolved	< 0.0040	0.0040 mg/L							
Zirconium, dissolved	< 0.00010	0.00010 mg/L							
Blank (B5K1816-BLK2)				Prepared: 2025-11-01, Analyzed: 2025-11-01					
Aluminum, dissolved	< 0.0050	0.0050 mg/L							
Antimony, dissolved	< 0.00020	0.00020 mg/L							
Arsenic, dissolved	< 0.00050	0.00050 mg/L							
Barium, dissolved	< 0.0050	0.0050 mg/L							
Beryllium, dissolved	< 0.00010	0.00010 mg/L							
Bismuth, dissolved	< 0.00010	0.00010 mg/L							
Boron, dissolved	< 0.0500	0.0500 mg/L							
Cadmium, dissolved	< 0.000010	0.000010 mg/L							
Calcium, dissolved	< 0.20	0.20 mg/L							
Chromium, dissolved	< 0.00050	0.00050 mg/L							
Cobalt, dissolved	< 0.00010	0.00010 mg/L							
Copper, dissolved	< 0.00040	0.00040 mg/L							
Iron, dissolved	< 0.010	0.010 mg/L							
Lead, dissolved	< 0.00020	0.00020 mg/L							
Lithium, dissolved	< 0.00010	0.00010 mg/L							
Magnesium, dissolved	< 0.010	0.010 mg/L							
Manganese, dissolved	< 0.00020	0.00020 mg/L							
Molybdenum, dissolved	< 0.00010	0.00010 mg/L							
Nickel, dissolved	< 0.00040	0.00040 mg/L							
Phosphorus, dissolved	< 0.050	0.050 mg/L							
Potassium, dissolved	< 0.10	0.10 mg/L							
Selenium, dissolved	< 0.00050	0.00050 mg/L							
Silicon, dissolved	< 1.0	1.0 mg/L							
Silver, dissolved	< 0.000050	0.000050 mg/L							
Sodium, dissolved	< 0.10	0.10 mg/L							
Strontium, dissolved	< 0.0010	0.0010 mg/L							
Sulfur, dissolved	< 3.0	3.0 mg/L							

APPENDIX 2: QUALITY CONTROL RESULTS

REPORTED TO PROJECT Regional District of Okanagan Similkameen
Keremeos - TLDW

CARO WO# REPORTED 25J4035
2025-11-05 08:31

Analyte	Result	MRL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Notes

Dissolved Metals, Batch B5K1816, Continued

Blank (B5K1816-BLK2), Continued

Prepared: 2025-11-01, Analyzed: 2025-11-01

Tellurium, dissolved	< 0.00050	0.00050 mg/L							
Thallium, dissolved	< 0.000020	0.000020 mg/L							
Thorium, dissolved	< 0.00010	0.00010 mg/L							
Tin, dissolved	< 0.00020	0.00020 mg/L							
Titanium, dissolved	< 0.0050	0.0050 mg/L							
Tungsten, dissolved	< 0.0010	0.0010 mg/L							
Uranium, dissolved	< 0.000020	0.000020 mg/L							
Vanadium, dissolved	< 0.0050	0.0050 mg/L							
Zinc, dissolved	< 0.0040	0.0040 mg/L							
Zirconium, dissolved	< 0.00010	0.00010 mg/L							

LCS (B5K1816-BS1)

Prepared: 2025-11-01, Analyzed: 2025-11-01

Aluminum, dissolved	4.12	0.0050 mg/L	4.00		103	80-120			
Antimony, dissolved	0.0397	0.00020 mg/L	0.0400		99	80-120			
Arsenic, dissolved	0.394	0.00050 mg/L	0.400		98	80-120			
Barium, dissolved	0.0408	0.0050 mg/L	0.0400		102	80-120			
Beryllium, dissolved	0.0408	0.00010 mg/L	0.0400		102	80-120			
Bismuth, dissolved	0.0397	0.00010 mg/L	0.0400		99	80-120			
Boron, dissolved	0.399	0.0500 mg/L	0.400		100	80-120			
Cadmium, dissolved	0.0405	0.000010 mg/L	0.0400		101	80-120			
Calcium, dissolved	3.99	0.20 mg/L	4.00		100	80-120			
Chromium, dissolved	0.0401	0.00050 mg/L	0.0400		100	80-120			
Cobalt, dissolved	0.0401	0.00010 mg/L	0.0400		100	80-120			
Copper, dissolved	0.0395	0.00040 mg/L	0.0400		99	80-120			
Iron, dissolved	4.05	0.010 mg/L	4.00		101	80-120			
Lead, dissolved	0.0405	0.00020 mg/L	0.0400		101	80-120			
Lithium, dissolved	0.0414	0.00010 mg/L	0.0400		103	80-120			
Magnesium, dissolved	4.04	0.010 mg/L	4.00		101	80-120			
Manganese, dissolved	0.0409	0.00020 mg/L	0.0400		102	80-120			
Molybdenum, dissolved	0.0403	0.00010 mg/L	0.0400		101	80-120			
Nickel, dissolved	0.0396	0.00040 mg/L	0.0400		99	80-120			
Phosphorus, dissolved	4.04	0.050 mg/L	4.00		101	80-120			
Potassium, dissolved	4.26	0.10 mg/L	4.00		107	80-120			
Selenium, dissolved	0.395	0.00050 mg/L	0.400		99	80-120			
Silicon, dissolved	4.0	1.0 mg/L	4.00		100	80-120			
Silver, dissolved	0.0404	0.000050 mg/L	0.0400		101	80-120			
Sodium, dissolved	4.32	0.10 mg/L	4.00		108	80-120			
Strontium, dissolved	0.0408	0.0010 mg/L	0.0400		102	80-120			
Sulfur, dissolved	40.0	3.0 mg/L	40.0		100	80-120			
Tellurium, dissolved	0.0394	0.00050 mg/L	0.0400		99	80-120			
Thallium, dissolved	0.0412	0.000020 mg/L	0.0400		103	80-120			
Thorium, dissolved	0.0396	0.00010 mg/L	0.0400		99	80-120			
Tin, dissolved	0.0406	0.00020 mg/L	0.0400		101	80-120			
Titanium, dissolved	0.0408	0.0050 mg/L	0.0400		102	80-120			
Tungsten, dissolved	0.0406	0.0010 mg/L	0.0400		101	80-120			
Uranium, dissolved	0.0393	0.000020 mg/L	0.0400		98	80-120			
Vanadium, dissolved	0.0403	0.0050 mg/L	0.0400		101	80-120			
Zinc, dissolved	0.396	0.0040 mg/L	0.400		99	80-120			
Zirconium, dissolved	0.0413	0.00010 mg/L	0.0400		103	80-120			

LCS (B5K1816-BS2)

Prepared: 2025-11-01, Analyzed: 2025-11-01

Aluminum, dissolved	4.01	0.0050 mg/L	4.00		100	80-120			
Antimony, dissolved	0.0394	0.00020 mg/L	0.0400		99	80-120			
Arsenic, dissolved	0.397	0.00050 mg/L	0.400		99	80-120			
Barium, dissolved	0.0401	0.0050 mg/L	0.0400		100	80-120			
Beryllium, dissolved	0.0397	0.00010 mg/L	0.0400		99	80-120			

APPENDIX 2: QUALITY CONTROL RESULTS

REPORTED TO PROJECT Regional District of Okanagan Similkameen
Keremeos - TLDW

CARO WO# REPORTED 25J4035
2025-11-05 08:31

Analyte	Result	MRL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Notes
Dissolved Metals, Batch B5K1816, Continued									
LCS (B5K1816-BS2), Continued					Prepared: 2025-11-01, Analyzed: 2025-11-01				
Bismuth, dissolved	0.0391	0.00010 mg/L	0.0400		98	80-120			
Boron, dissolved	0.382	0.0500 mg/L	0.400		96	80-120			
Cadmium, dissolved	0.0404	0.000010 mg/L	0.0400		101	80-120			
Calcium, dissolved	3.91	0.20 mg/L	4.00		98	80-120			
Chromium, dissolved	0.0402	0.00050 mg/L	0.0400		101	80-120			
Cobalt, dissolved	0.0401	0.00010 mg/L	0.0400		100	80-120			
Copper, dissolved	0.0396	0.00040 mg/L	0.0400		99	80-120			
Iron, dissolved	4.07	0.010 mg/L	4.00		102	80-120			
Lead, dissolved	0.0400	0.00020 mg/L	0.0400		100	80-120			
Lithium, dissolved	0.0399	0.00010 mg/L	0.0400		100	80-120			
Magnesium, dissolved	4.03	0.010 mg/L	4.00		101	80-120			
Manganese, dissolved	0.0406	0.00020 mg/L	0.0400		102	80-120			
Molybdenum, dissolved	0.0397	0.00010 mg/L	0.0400		99	80-120			
Nickel, dissolved	0.0400	0.00040 mg/L	0.0400		100	80-120			
Phosphorus, dissolved	3.98	0.050 mg/L	4.00		100	80-120			
Potassium, dissolved	4.03	0.10 mg/L	4.00		101	80-120			
Selenium, dissolved	0.397	0.00050 mg/L	0.400		99	80-120			
Silicon, dissolved	3.8	1.0 mg/L	4.00		96	80-120			
Silver, dissolved	0.0398	0.000050 mg/L	0.0400		100	80-120			
Sodium, dissolved	4.16	0.10 mg/L	4.00		104	80-120			
Strontium, dissolved	0.0415	0.0010 mg/L	0.0400		104	80-120			
Sulfur, dissolved	38.2	3.0 mg/L	40.0		96	80-120			
Tellurium, dissolved	0.0392	0.00050 mg/L	0.0400		98	80-120			
Thallium, dissolved	0.0410	0.000020 mg/L	0.0400		102	80-120			
Thorium, dissolved	0.0396	0.00010 mg/L	0.0400		99	80-120			
Tin, dissolved	0.0398	0.00020 mg/L	0.0400		100	80-120			
Titanium, dissolved	0.0399	0.0050 mg/L	0.0400		100	80-120			
Tungsten, dissolved	0.0404	0.0010 mg/L	0.0400		101	80-120			
Uranium, dissolved	0.0395	0.000020 mg/L	0.0400		99	80-120			
Vanadium, dissolved	0.0398	0.0050 mg/L	0.0400		100	80-120			
Zinc, dissolved	0.400	0.0040 mg/L	0.400		100	80-120			
Zirconium, dissolved	0.0409	0.00010 mg/L	0.0400		102	80-120			

Dissolved Metals, Batch B5K1876

Blank (B5K1876-BLK1)					Prepared: 2025-11-03, Analyzed: 2025-11-03				
Mercury, dissolved	< 0.000010	0.000010 mg/L							
Blank (B5K1876-BLK2)					Prepared: 2025-11-03, Analyzed: 2025-11-03				
Mercury, dissolved	< 0.000010	0.000010 mg/L							
Blank (B5K1876-BLK3)					Prepared: 2025-11-03, Analyzed: 2025-11-03				
Mercury, dissolved	< 0.000010	0.000010 mg/L							
Blank (B5K1876-BLK4)					Prepared: 2025-11-03, Analyzed: 2025-11-03				
Mercury, dissolved	< 0.000010	0.000010 mg/L							
LCS (B5K1876-BS1)					Prepared: 2025-11-03, Analyzed: 2025-11-03				
Mercury, dissolved	0.00258	0.000010 mg/L	0.00250		103	80-120			
LCS (B5K1876-BS2)					Prepared: 2025-11-03, Analyzed: 2025-11-03				
Mercury, dissolved	0.00270	0.000010 mg/L	0.00250		108	80-120			
LCS (B5K1876-BS3)					Prepared: 2025-11-03, Analyzed: 2025-11-03				
Mercury, dissolved	0.00237	0.000010 mg/L	0.00250		95	80-120			

APPENDIX 2: QUALITY CONTROL RESULTS

REPORTED TO PROJECT Regional District of Okanagan Similkameen
Keremeos - TLDW

CARO WO# 25J4035
REPORTED 2025-11-05 08:31

Analyte	Result	MRL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Notes

Dissolved Metals, Batch B5K1876, Continued

LCS (B5K1876-BS4)			Prepared: 2025-11-03, Analyzed: 2025-11-03						
Mercury, dissolved	0.00275	0.000010 mg/L	0.00250		110	80-120			

General Parameters, Batch B5J5466

Blank (B5J5466-BLK1)			Prepared: 2025-10-31, Analyzed: 2025-10-31						
Chemical Oxygen Demand	< 20	20 mg/L							
LCS (B5J5466-BS1)			Prepared: 2025-10-31, Analyzed: 2025-10-31						
Chemical Oxygen Demand	501	20 mg/L	500		100	89-115			
Duplicate (B5J5466-DUP1)			Source: 25J4035-01		Prepared: 2025-10-31, Analyzed: 2025-10-31				
Chemical Oxygen Demand	< 20	20 mg/L		< 20				14	
Matrix Spike (B5J5466-MS1)			Source: 25J4035-01		Prepared: 2025-10-31, Analyzed: 2025-10-31				
Chemical Oxygen Demand	119	20 mg/L	125	< 20	95	75-125			

General Parameters, Batch B5J5551

Blank (B5J5551-BLK1)			Prepared: 2025-10-31, Analyzed: 2025-10-31						
Alkalinity, Total (as CaCO ₃)	< 1.0	1.0 mg/L							
Alkalinity, Phenolphthalein (as CaCO ₃)	< 1.0	1.0 mg/L							
Alkalinity, Bicarbonate (as CaCO ₃)	< 1.0	1.0 mg/L							
Alkalinity, Carbonate (as CaCO ₃)	< 1.0	1.0 mg/L							
Alkalinity, Hydroxide (as CaCO ₃)	< 1.0	1.0 mg/L							
Conductivity (EC)	< 2.0	2.0 µS/cm							
Blank (B5J5551-BLK2)			Prepared: 2025-10-31, Analyzed: 2025-10-31						
Alkalinity, Total (as CaCO ₃)	< 1.0	1.0 mg/L							
Alkalinity, Phenolphthalein (as CaCO ₃)	< 1.0	1.0 mg/L							
Alkalinity, Bicarbonate (as CaCO ₃)	< 1.0	1.0 mg/L							
Alkalinity, Carbonate (as CaCO ₃)	< 1.0	1.0 mg/L							
Alkalinity, Hydroxide (as CaCO ₃)	< 1.0	1.0 mg/L							
Conductivity (EC)	< 2.0	2.0 µS/cm							
Blank (B5J5551-BLK3)			Prepared: 2025-10-31, Analyzed: 2025-10-31						
Alkalinity, Total (as CaCO ₃)	< 1.0	1.0 mg/L							
Alkalinity, Phenolphthalein (as CaCO ₃)	< 1.0	1.0 mg/L							
Alkalinity, Bicarbonate (as CaCO ₃)	< 1.0	1.0 mg/L							
Alkalinity, Carbonate (as CaCO ₃)	< 1.0	1.0 mg/L							
Alkalinity, Hydroxide (as CaCO ₃)	< 1.0	1.0 mg/L							
Conductivity (EC)	< 2.0	2.0 µS/cm							

General Parameters, Batch B5K1878

Blank (B5K1878-BLK1)			Prepared: 2025-11-04, Analyzed: 2025-11-04						
Ammonia, Total (as N)	< 0.050	0.050 mg/L							
Blank (B5K1878-BLK2)			Prepared: 2025-11-04, Analyzed: 2025-11-04						
Ammonia, Total (as N)	< 0.050	0.050 mg/L							
LCS (B5K1878-BS1)			Prepared: 2025-11-04, Analyzed: 2025-11-04						
Ammonia, Total (as N)	0.949	0.050 mg/L	1.00		95	85-115			
LCS (B5K1878-BS2)			Prepared: 2025-11-04, Analyzed: 2025-11-04						
Ammonia, Total (as N)	0.993	0.050 mg/L	1.00		99	85-115			

APPENDIX 2: QUALITY CONTROL RESULTS

REPORTED TO PROJECT Regional District of Okanagan Similkameen
Keremeos - TLDW

CARO WO# 25J4035
REPORTED 2025-11-05 08:31

Analyte	Result	MRL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Notes
Microbiological Parameters, Batch B5J5191									
Blank (B5J5191-BLK1)				Prepared: 2025-10-29, Analyzed: 2025-10-29					
Coliforms, Total	< 1	1 CFU/100 mL							
E. coli	< 1	1 CFU/100 mL							
Blank (B5J5191-BLK2)				Prepared: 2025-10-29, Analyzed: 2025-10-29					
Coliforms, Total	< 1	1 CFU/100 mL							
E. coli	< 1	1 CFU/100 mL							
Blank (B5J5191-BLK3)				Prepared: 2025-10-29, Analyzed: 2025-10-29					
Coliforms, Total	< 1	1 CFU/100 mL							
E. coli	< 1	1 CFU/100 mL							
Blank (B5J5191-BLK4)				Prepared: 2025-10-29, Analyzed: 2025-10-29					
Coliforms, Total	< 1	1 CFU/100 mL							
E. coli	< 1	1 CFU/100 mL							
Blank (B5J5191-BLK5)				Prepared: 2025-10-29, Analyzed: 2025-10-29					
Coliforms, Total	< 1	1 CFU/100 mL							
E. coli	< 1	1 CFU/100 mL							
Blank (B5J5191-BLK6)				Prepared: 2025-10-29, Analyzed: 2025-10-29					
Coliforms, Total	< 1	1 CFU/100 mL							
E. coli	< 1	1 CFU/100 mL							
Blank (B5J5191-BLK7)				Prepared: 2025-10-29, Analyzed: 2025-10-29					
Coliforms, Total	< 1	1 CFU/100 mL							
E. coli	< 1	1 CFU/100 mL							
Blank (B5J5191-BLK8)				Prepared: 2025-10-29, Analyzed: 2025-10-29					
Coliforms, Total	< 1	1 CFU/100 mL							
E. coli	< 1	1 CFU/100 mL							
Blank (B5J5191-BLK9)				Prepared: 2025-10-29, Analyzed: 2025-10-29					
Coliforms, Total	< 1	1 CFU/100 mL							
E. coli	< 1	1 CFU/100 mL							
Blank (B5J5191-BLKA)				Prepared: 2025-10-29, Analyzed: 2025-10-29					
Coliforms, Total	< 1	1 CFU/100 mL							
E. coli	< 1	1 CFU/100 mL							
Blank (B5J5191-BLKB)				Prepared: 2025-10-29, Analyzed: 2025-10-29					
Coliforms, Total	< 1	1 CFU/100 mL							
E. coli	< 1	1 CFU/100 mL							

CERTIFICATE OF ANALYSIS

REPORTED TO Regional District of Okanagan Similkameen
101 Martin Street
Penticton, BC V2A 5J9

ATTENTION Rob Palmer

PO NUMBER 20259001-TLGW
PROJECT Keremeos - TLGW

PROJECT INFO

WORK ORDER 25J4041

RECEIVED / TEMP 2025-10-29 10:43 / 6.7°C
REPORTED 2025-11-05 14:39
COC NUMBER eCOC#00029417

Introduction:

CARO Analytical Services is a testing laboratory full of smart, engaged scientists driven to make the world a safer and healthier place. Through our clients' projects we become an essential element for a better world. We employ methods conducted in accordance with recognized professional standards using accepted testing methodologies and quality control efforts. CARO is accredited by the Canadian Association for Laboratories Accreditation (CALA) to ISO/IEC 17025:2017 for specific tests listed in the scope of accreditation approved by CALA.

Big Picture Sidekicks



You know that the sample you collected after snowshoeing to site, digging 5 meters, and racing to get it on a plane so you can submit it to the lab for time sensitive results needed to make important and expensive decisions (whew) is VERY important. We know that too.

We've Got Chemistry



It's simple. We figure the more you enjoy working with our fun and engaged team members; the more likely you are to give us continued opportunities to support you.

Ahead of the Curve



Through research, regulation knowledge, and instrumentation, we are your analytical centre for the technical knowledge you need, BEFORE you need it, so you can stay up to date and in the know.

Work Order Comments:

Custody Seals Intact: N/A

By engaging our services, you are agreeing to CARO Analytical Service's Standard Terms and Conditions outlined here:
<https://www.caro.ca/terms-conditions>

If you have any questions or concerns, please contact me at hhannaoui@caro.ca

Authorized By:

Hanane El Hannaoui
Junior Account Manager



1-888-311-8846 | www.caro.ca

#110 4011 Viking Way Richmond, BC V6V 2K9 | #102 3677 Highway 97N Kelowna, BC V1X 5C3 | 17225 109 Avenue Edmonton, AB T5S 1H7 |
#108 4475 Wayburne Drive Burnaby, BC V5G 4X4

TEST RESULTS

REPORTED TO PROJECT Regional District of Okanagan Similkameen
Keremeos - TLGW

WORK ORDER REPORTED 25J4041
2025-11-05 14:39

Analyte	Result	Guideline	RL Units	Analyzed	Qualifier
MW 20-01 (25J4041-01) Matrix: Ground Water Sampled: 2025-10-28 11:55					
Anions					
Bromide	< 0.10	N/A	0.10 mg/L	2025-10-30	
Chloride	17.7	AO ≤ 250	0.10 mg/L	2025-10-30	
Fluoride	< 0.10	MAC = 1.5	0.10 mg/L	2025-10-30	
Nitrate (as N)	2.47	MAC = 10	0.010 mg/L	2025-10-30	
Nitrite (as N)	< 0.010	MAC = 1	0.010 mg/L	2025-10-30	
Sulfate	165	AO ≤ 500	1.0 mg/L	2025-10-30	
Calculated Parameters					
Bicarbonate (HCO ₃)	413	N/A	1.22 mg/L	N/A	
Carbonate (CO ₃)	< 0.600	N/A	0.600 mg/L	N/A	
Hydroxide (OH)	< 0.340	N/A	0.340 mg/L	N/A	
Hardness, Dissolved (as CaCO ₃)	477	N/A	0.500 mg/L	N/A	
Nitrate+Nitrite (as N)	2.47	N/A	0.0100 mg/L	N/A	
Dissolved Metals					
Aluminum, dissolved	< 0.0050	N/A	0.0050 mg/L	2025-11-01	
Antimony, dissolved	< 0.00020	N/A	0.00020 mg/L	2025-11-01	
Arsenic, dissolved	0.00090	N/A	0.00050 mg/L	2025-11-01	
Barium, dissolved	0.0629	N/A	0.0050 mg/L	2025-11-01	
Beryllium, dissolved	< 0.00010	N/A	0.00010 mg/L	2025-11-01	
Bismuth, dissolved	< 0.00010	N/A	0.00010 mg/L	2025-11-01	
Boron, dissolved	< 0.0500	N/A	0.0500 mg/L	2025-11-01	
Cadmium, dissolved	0.000034	N/A	0.000010 mg/L	2025-11-01	
Calcium, dissolved	136	N/A	0.20 mg/L	2025-11-01	
Chromium, dissolved	0.00218	N/A	0.00050 mg/L	2025-11-01	
Cobalt, dissolved	< 0.00010	N/A	0.00010 mg/L	2025-11-01	
Copper, dissolved	< 0.00040	N/A	0.00040 mg/L	2025-11-01	
Iron, dissolved	< 0.010	N/A	0.010 mg/L	2025-11-01	
Lead, dissolved	< 0.00020	N/A	0.00020 mg/L	2025-11-01	
Lithium, dissolved	0.00686	N/A	0.00010 mg/L	2025-11-01	
Magnesium, dissolved	33.2	N/A	0.010 mg/L	2025-11-01	
Manganese, dissolved	< 0.00020	N/A	0.00020 mg/L	2025-11-01	
Mercury, dissolved	< 0.000010	N/A	0.000010 mg/L	2025-11-03	
Molybdenum, dissolved	0.00194	N/A	0.00010 mg/L	2025-11-01	
Nickel, dissolved	0.00068	N/A	0.00040 mg/L	2025-11-01	
Phosphorus, dissolved	< 0.050	N/A	0.050 mg/L	2025-11-01	
Potassium, dissolved	4.03	N/A	0.10 mg/L	2025-11-01	
Selenium, dissolved	0.00701	N/A	0.00050 mg/L	2025-11-01	
Silicon, dissolved	10.1	N/A	1.0 mg/L	2025-11-01	
Silver, dissolved	< 0.000050	N/A	0.000050 mg/L	2025-11-01	
Sodium, dissolved	22.4	N/A	0.10 mg/L	2025-11-01	
Strontium, dissolved	1.05	N/A	0.0010 mg/L	2025-11-01	
Sulfur, dissolved	51.9	N/A	3.0 mg/L	2025-11-01	
Tellurium, dissolved	< 0.00050	N/A	0.00050 mg/L	2025-11-01	

TEST RESULTS

REPORTED TO PROJECT Regional District of Okanagan Similkameen
Keremeos - TLGW

WORK ORDER REPORTED 25J4041
2025-11-05 14:39

Analyte	Result	Guideline	RL	Units	Analyzed	Qualifier

MW 20-01 (25J4041-01) | Matrix: Ground Water | Sampled: 2025-10-28 11:55, Continued

Dissolved Metals, Continued

Thallium, dissolved	< 0.000020	N/A	0.000020	mg/L	2025-11-01	
Thorium, dissolved	< 0.00010	N/A	0.00010	mg/L	2025-11-01	
Tin, dissolved	< 0.00020	N/A	0.00020	mg/L	2025-11-01	
Titanium, dissolved	< 0.0050	N/A	0.0050	mg/L	2025-11-01	
Tungsten, dissolved	< 0.0010	N/A	0.0010	mg/L	2025-11-01	
Uranium, dissolved	0.00397	N/A	0.000020	mg/L	2025-11-01	
Vanadium, dissolved	< 0.0050	N/A	0.0050	mg/L	2025-11-01	
Zinc, dissolved	< 0.0040	N/A	0.0040	mg/L	2025-11-01	
Zirconium, dissolved	< 0.00010	N/A	0.00010	mg/L	2025-11-01	

General Parameters

Alkalinity, Total (as CaCO ₃)	339	N/A	1.0	mg/L	2025-10-31	
Alkalinity, Phenolphthalein (as CaCO ₃)	< 1.0	N/A	1.0	mg/L	2025-10-31	
Alkalinity, Bicarbonate (as CaCO ₃)	339	N/A	1.0	mg/L	2025-10-31	
Alkalinity, Carbonate (as CaCO ₃)	< 1.0	N/A	1.0	mg/L	2025-10-31	
Alkalinity, Hydroxide (as CaCO ₃)	< 1.0	N/A	1.0	mg/L	2025-10-31	
Ammonia, Total (as N)	< 0.050	None Required	0.050	mg/L	2025-11-04	
Chemical Oxygen Demand	< 20	N/A	20	mg/L	2025-10-31	
Conductivity (EC)	953	N/A	2.0	µS/cm	2025-10-31	
pH	7.88	7.0-10.5	0.10	pH units	2025-10-31	HT2

Total Metals

Aluminum, total	< 0.0050	OG < 0.1	0.0050	mg/L	2025-10-31	
Antimony, total	< 0.00020	MAC = 0.006	0.00020	mg/L	2025-10-31	
Arsenic, total	0.00093	MAC = 0.01	0.00050	mg/L	2025-10-31	
Barium, total	0.0605	MAC = 2	0.0050	mg/L	2025-10-31	
Beryllium, total	< 0.00010	N/A	0.00010	mg/L	2025-10-31	
Bismuth, total	< 0.00010	N/A	0.00010	mg/L	2025-10-31	
Boron, total	< 0.0500	MAC = 5	0.0500	mg/L	2025-10-31	
Cadmium, total	0.000032	MAC = 0.007	0.000010	mg/L	2025-10-31	
Calcium, total	137	None Required	0.20	mg/L	2025-10-31	
Chromium, total	0.00226	MAC = 0.05	0.00050	mg/L	2025-10-31	
Cobalt, total	< 0.00010	N/A	0.00010	mg/L	2025-10-31	
Copper, total	< 0.00040	MAC = 2	0.00040	mg/L	2025-10-31	
Iron, total	< 0.010	AO ≤ 0.1	0.010	mg/L	2025-10-31	
Lead, total	< 0.00020	MAC = 0.005	0.00020	mg/L	2025-10-31	
Lithium, total	0.00681	N/A	0.00010	mg/L	2025-10-31	
Magnesium, total	33.1	None Required	0.010	mg/L	2025-10-31	
Manganese, total	< 0.00020	MAC = 0.12	0.00020	mg/L	2025-10-31	
Mercury, total	< 0.000010	MAC = 0.001	0.000010	mg/L	2025-11-03	
Molybdenum, total	0.00214	N/A	0.00010	mg/L	2025-10-31	
Nickel, total	0.00064	N/A	0.00040	mg/L	2025-10-31	
Phosphorus, total	< 0.050	N/A	0.050	mg/L	2025-10-31	
Potassium, total	3.99	N/A	0.10	mg/L	2025-10-31	

TEST RESULTS

REPORTED TO PROJECT Regional District of Okanagan Similkameen
Keremeos - TLGW

WORK ORDER REPORTED 25J4041
2025-11-05 14:39

Analyte	Result	Guideline	RL	Units	Analyzed	Qualifier
MW 20-01 (25J4041-01) Matrix: Ground Water Sampled: 2025-10-28 11:55, Continued						
<i>Total Metals, Continued</i>						
Selenium, total	0.00653	MAC = 0.05	0.00050	mg/L	2025-10-31	
Silicon, total	10.6	N/A	1.0	mg/L	2025-10-31	
Silver, total	< 0.000050	None Required	0.000050	mg/L	2025-10-31	
Sodium, total	22.9	AO ≤ 200	0.10	mg/L	2025-10-31	
Strontium, total	1.01	MAC = 7	0.0010	mg/L	2025-10-31	
Sulfur, total	54.4	N/A	3.0	mg/L	2025-10-31	
Tellurium, total	< 0.00050	N/A	0.00050	mg/L	2025-10-31	
Thallium, total	< 0.000020	N/A	0.000020	mg/L	2025-10-31	
Thorium, total	< 0.00010	N/A	0.00010	mg/L	2025-10-31	
Tin, total	< 0.00020	N/A	0.00020	mg/L	2025-10-31	
Titanium, total	< 0.0050	N/A	0.0050	mg/L	2025-10-31	
Tungsten, total	< 0.0010	N/A	0.0010	mg/L	2025-10-31	
Uranium, total	0.00392	MAC = 0.02	0.000020	mg/L	2025-10-31	
Vanadium, total	< 0.0050	N/A	0.0050	mg/L	2025-10-31	
Zinc, total	< 0.0040	AO ≤ 5	0.0040	mg/L	2025-10-31	
Zirconium, total	< 0.00010	N/A	0.00010	mg/L	2025-10-31	

MW 20-02 (25J4041-02) | Matrix: Ground Water | Sampled: 2025-10-28 12:50

<i>Anions</i>						
Bromide	< 0.10	N/A	0.10	mg/L	2025-10-30	
Chloride	16.0	AO ≤ 250	0.10	mg/L	2025-10-30	
Fluoride	< 0.10	MAC = 1.5	0.10	mg/L	2025-10-30	
Nitrate (as N)	1.91	MAC = 10	0.010	mg/L	2025-10-30	
Nitrite (as N)	< 0.010	MAC = 1	0.010	mg/L	2025-10-30	
Sulfate	150	AO ≤ 500	1.0	mg/L	2025-10-30	

<i>Calculated Parameters</i>						
Bicarbonate (HCO ₃)	382	N/A	1.22	mg/L	N/A	
Carbonate (CO ₃)	< 0.600	N/A	0.600	mg/L	N/A	
Hydroxide (OH)	< 0.340	N/A	0.340	mg/L	N/A	
Hardness, Dissolved (as CaCO ₃)	433	N/A	0.500	mg/L	N/A	
Nitrate+Nitrite (as N)	1.91	N/A	0.0100	mg/L	N/A	

<i>Dissolved Metals</i>						
Aluminum, dissolved	< 0.0050	N/A	0.0050	mg/L	2025-11-01	
Antimony, dissolved	< 0.00020	N/A	0.00020	mg/L	2025-11-01	
Arsenic, dissolved	0.00085	N/A	0.00050	mg/L	2025-11-01	
Barium, dissolved	0.0583	N/A	0.0050	mg/L	2025-11-01	
Beryllium, dissolved	< 0.00010	N/A	0.00010	mg/L	2025-11-01	
Bismuth, dissolved	< 0.00010	N/A	0.00010	mg/L	2025-11-01	
Boron, dissolved	< 0.0500	N/A	0.0500	mg/L	2025-11-01	
Cadmium, dissolved	0.000027	N/A	0.000010	mg/L	2025-11-01	

TEST RESULTS

REPORTED TO PROJECT Regional District of Okanagan Similkameen
Keremeos - TLGW

WORK ORDER REPORTED 25J4041
2025-11-05 14:39

Analyte	Result	Guideline	RL	Units	Analyzed	Qualifier

MW 20-02 (25J4041-02) | Matrix: Ground Water | Sampled: 2025-10-28 12:50, Continued

Dissolved Metals, Continued

Calcium, dissolved	121	N/A	0.20	mg/L	2025-11-01	
Chromium, dissolved	0.00232	N/A	0.00050	mg/L	2025-11-01	
Cobalt, dissolved	< 0.00010	N/A	0.00010	mg/L	2025-11-01	
Copper, dissolved	< 0.00040	N/A	0.00040	mg/L	2025-11-01	
Iron, dissolved	< 0.010	N/A	0.010	mg/L	2025-11-01	
Lead, dissolved	< 0.00020	N/A	0.00020	mg/L	2025-11-01	
Lithium, dissolved	0.00660	N/A	0.00010	mg/L	2025-11-01	
Magnesium, dissolved	31.4	N/A	0.010	mg/L	2025-11-01	
Manganese, dissolved	< 0.00020	N/A	0.00020	mg/L	2025-11-01	
Mercury, dissolved	< 0.000010	N/A	0.000010	mg/L	2025-11-03	
Molybdenum, dissolved	0.00186	N/A	0.00010	mg/L	2025-11-01	
Nickel, dissolved	0.00055	N/A	0.00040	mg/L	2025-11-01	
Phosphorus, dissolved	< 0.050	N/A	0.050	mg/L	2025-11-01	
Potassium, dissolved	3.80	N/A	0.10	mg/L	2025-11-01	
Selenium, dissolved	0.00665	N/A	0.00050	mg/L	2025-11-01	
Silicon, dissolved	10.2	N/A	1.0	mg/L	2025-11-01	
Silver, dissolved	< 0.000050	N/A	0.000050	mg/L	2025-11-01	
Sodium, dissolved	22.0	N/A	0.10	mg/L	2025-11-01	
Strontium, dissolved	0.949	N/A	0.0010	mg/L	2025-11-01	
Sulfur, dissolved	46.9	N/A	3.0	mg/L	2025-11-01	
Tellurium, dissolved	< 0.00050	N/A	0.00050	mg/L	2025-11-01	
Thallium, dissolved	< 0.000020	N/A	0.000020	mg/L	2025-11-01	
Thorium, dissolved	< 0.00010	N/A	0.00010	mg/L	2025-11-01	
Tin, dissolved	< 0.00020	N/A	0.00020	mg/L	2025-11-01	
Titanium, dissolved	< 0.0050	N/A	0.0050	mg/L	2025-11-01	
Tungsten, dissolved	< 0.0010	N/A	0.0010	mg/L	2025-11-01	
Uranium, dissolved	0.00396	N/A	0.000020	mg/L	2025-11-01	
Vanadium, dissolved	< 0.0050	N/A	0.0050	mg/L	2025-11-01	
Zinc, dissolved	< 0.0040	N/A	0.0040	mg/L	2025-11-01	
Zirconium, dissolved	< 0.00010	N/A	0.00010	mg/L	2025-11-01	

General Parameters

Alkalinity, Total (as CaCO3)	313	N/A	1.0	mg/L	2025-11-01	
Alkalinity, Phenolphthalein (as CaCO3)	< 1.0	N/A	1.0	mg/L	2025-11-01	
Alkalinity, Bicarbonate (as CaCO3)	313	N/A	1.0	mg/L	2025-11-01	
Alkalinity, Carbonate (as CaCO3)	< 1.0	N/A	1.0	mg/L	2025-11-01	
Alkalinity, Hydroxide (as CaCO3)	< 1.0	N/A	1.0	mg/L	2025-11-01	
Ammonia, Total (as N)	< 0.050	None Required	0.050	mg/L	2025-11-04	
Chemical Oxygen Demand	< 20	N/A	20	mg/L	2025-10-31	
Conductivity (EC)	872	N/A	2.0	µS/cm	2025-11-01	
pH	7.91	7.0-10.5	0.10	pH units	2025-11-01	HT2

Total Metals

Aluminum, total	0.0487	OG < 0.1	0.0050	mg/L	2025-10-31	

TEST RESULTS

REPORTED TO PROJECT Regional District of Okanagan Similkameen
Keremeos - TLGW

WORK ORDER REPORTED 25J4041
2025-11-05 14:39

Analyte	Result	Guideline	RL	Units	Analyzed	Qualifier

MW 20-02 (25J4041-02) | Matrix: Ground Water | Sampled: 2025-10-28 12:50, Continued

Total Metals, Continued

Antimony, total	< 0.00020	MAC = 0.006	0.00020	mg/L	2025-10-31	
Arsenic, total	0.00114	MAC = 0.01	0.00050	mg/L	2025-10-31	
Barium, total	0.0544	MAC = 2	0.0050	mg/L	2025-10-31	
Beryllium, total	< 0.00010	N/A	0.00010	mg/L	2025-10-31	
Bismuth, total	< 0.00010	N/A	0.00010	mg/L	2025-10-31	
Boron, total	< 0.0500	MAC = 5	0.0500	mg/L	2025-10-31	
Cadmium, total	0.000034	MAC = 0.007	0.000010	mg/L	2025-10-31	
Calcium, total	121	None Required	0.20	mg/L	2025-10-31	
Chromium, total	0.00271	MAC = 0.05	0.00050	mg/L	2025-10-31	
Cobalt, total	0.00012	N/A	0.00010	mg/L	2025-11-04	
Copper, total	0.00100	MAC = 2	0.00040	mg/L	2025-10-31	
Iron, total	0.396	AO ≤ 0.1	0.010	mg/L	2025-10-31	
Lead, total	< 0.00020	MAC = 0.005	0.00020	mg/L	2025-10-31	
Lithium, total	0.00632	N/A	0.00010	mg/L	2025-10-31	
Magnesium, total	30.8	None Required	0.010	mg/L	2025-10-31	
Manganese, total	0.00336	MAC = 0.12	0.00020	mg/L	2025-10-31	
Mercury, total	< 0.000010	MAC = 0.001	0.000010	mg/L	2025-11-03	
Molybdenum, total	0.00217	N/A	0.00010	mg/L	2025-10-31	
Nickel, total	0.00067	N/A	0.00040	mg/L	2025-10-31	
Phosphorus, total	< 0.050	N/A	0.050	mg/L	2025-10-31	
Potassium, total	3.69	N/A	0.10	mg/L	2025-10-31	
Selenium, total	0.00622	MAC = 0.05	0.00050	mg/L	2025-10-31	
Silicon, total	10.7	N/A	1.0	mg/L	2025-10-31	
Silver, total	< 0.000050	None Required	0.000050	mg/L	2025-10-31	
Sodium, total	21.5	AO ≤ 200	0.10	mg/L	2025-10-31	
Strontium, total	0.909	MAC = 7	0.0010	mg/L	2025-10-31	
Sulfur, total	48.7	N/A	3.0	mg/L	2025-10-31	
Tellurium, total	< 0.00050	N/A	0.00050	mg/L	2025-10-31	
Thallium, total	< 0.000020	N/A	0.000020	mg/L	2025-10-31	
Thorium, total	< 0.00010	N/A	0.00010	mg/L	2025-10-31	
Tin, total	< 0.00020	N/A	0.00020	mg/L	2025-10-31	
Titanium, total	< 0.0050	N/A	0.0050	mg/L	2025-10-31	
Tungsten, total	< 0.0010	N/A	0.0010	mg/L	2025-10-31	
Uranium, total	0.00393	MAC = 0.02	0.000020	mg/L	2025-10-31	
Vanadium, total	< 0.0050	N/A	0.0050	mg/L	2025-10-31	
Zinc, total	< 0.0040	AO ≤ 5	0.0040	mg/L	2025-10-31	
Zirconium, total	< 0.00010	N/A	0.00010	mg/L	2025-10-31	

BH 99-01 (25J4041-03) | Matrix: Ground Water | Sampled: 2025-10-28 13:55

Anions

Bromide	< 0.10	N/A	0.10	mg/L	2025-10-30	
Chloride	17.7	AO ≤ 250	0.10	mg/L	2025-10-30	

TEST RESULTS

REPORTED TO PROJECT Regional District of Okanagan Similkameen
Keremeos - TLGW

WORK ORDER REPORTED 25J4041
2025-11-05 14:39

Analyte	Result	Guideline	RL Units	Analyzed	Qualifier

BH 99-01 (25J4041-03) | Matrix: Ground Water | Sampled: 2025-10-28 13:55, Continued

Anions, Continued

Fluoride	< 0.10	MAC = 1.5	0.10 mg/L	2025-10-30	
Nitrate (as N)	2.60	MAC = 10	0.010 mg/L	2025-10-30	
Nitrite (as N)	< 0.010	MAC = 1	0.010 mg/L	2025-10-30	
Sulfate	119	AO ≤ 500	1.0 mg/L	2025-10-30	

Calculated Parameters

Bicarbonate (HCO ₃)	345	N/A	1.22 mg/L	N/A	
Carbonate (CO ₃)	< 0.600	N/A	0.600 mg/L	N/A	
Hydroxide (OH)	< 0.340	N/A	0.340 mg/L	N/A	
Hardness, Dissolved (as CaCO ₃)	386	N/A	0.500 mg/L	N/A	
Nitrate+Nitrite (as N)	2.60	N/A	0.0100 mg/L	N/A	

Dissolved Metals

Aluminum, dissolved	< 0.0050	N/A	0.0050 mg/L	2025-10-31	
Antimony, dissolved	< 0.00020	N/A	0.00020 mg/L	2025-10-31	
Arsenic, dissolved	0.00106	N/A	0.00050 mg/L	2025-10-31	
Barium, dissolved	0.0470	N/A	0.0050 mg/L	2025-10-31	
Beryllium, dissolved	< 0.00010	N/A	0.00010 mg/L	2025-10-31	
Bismuth, dissolved	< 0.00010	N/A	0.00010 mg/L	2025-10-31	
Boron, dissolved	< 0.0500	N/A	0.0500 mg/L	2025-10-31	
Cadmium, dissolved	0.000022	N/A	0.000010 mg/L	2025-10-31	
Calcium, dissolved	113	N/A	0.20 mg/L	2025-10-31	
Chromium, dissolved	0.00304	N/A	0.00050 mg/L	2025-10-31	
Cobalt, dissolved	< 0.00010	N/A	0.00010 mg/L	2025-10-31	
Copper, dissolved	< 0.00040	N/A	0.00040 mg/L	2025-10-31	
Iron, dissolved	< 0.010	N/A	0.010 mg/L	2025-10-31	
Lead, dissolved	< 0.00020	N/A	0.00020 mg/L	2025-10-31	
Lithium, dissolved	0.00485	N/A	0.00010 mg/L	2025-10-31	
Magnesium, dissolved	25.3	N/A	0.010 mg/L	2025-10-31	
Manganese, dissolved	< 0.00020	N/A	0.00020 mg/L	2025-10-31	
Mercury, dissolved	< 0.000010	N/A	0.000010 mg/L	2025-11-03	
Molybdenum, dissolved	0.00197	N/A	0.00010 mg/L	2025-10-31	
Nickel, dissolved	0.00052	N/A	0.00040 mg/L	2025-10-31	
Phosphorus, dissolved	< 0.050	N/A	0.050 mg/L	2025-10-31	
Potassium, dissolved	3.76	N/A	0.10 mg/L	2025-10-31	
Selenium, dissolved	0.00362	N/A	0.00050 mg/L	2025-10-31	
Silicon, dissolved	10.7	N/A	1.0 mg/L	2025-10-31	
Silver, dissolved	< 0.000050	N/A	0.000050 mg/L	2025-10-31	
Sodium, dissolved	20.6	N/A	0.10 mg/L	2025-10-31	
Strontium, dissolved	0.860	N/A	0.0010 mg/L	2025-10-31	
Sulfur, dissolved	39.2	N/A	3.0 mg/L	2025-10-31	
Tellurium, dissolved	< 0.00050	N/A	0.00050 mg/L	2025-10-31	
Thallium, dissolved	< 0.000020	N/A	0.000020 mg/L	2025-10-31	
Thorium, dissolved	< 0.00010	N/A	0.00010 mg/L	2025-10-31	

TEST RESULTS

REPORTED TO PROJECT Regional District of Okanagan Similkameen
Keremeos - TLGW

WORK ORDER REPORTED 25J4041
2025-11-05 14:39

Analyte	Result	Guideline	RL	Units	Analyzed	Qualifier

BH 99-01 (25J4041-03) | Matrix: Ground Water | Sampled: 2025-10-28 13:55, Continued

Dissolved Metals, Continued

Tin, dissolved	< 0.00020	N/A	0.00020	mg/L	2025-10-31	
Titanium, dissolved	< 0.0050	N/A	0.0050	mg/L	2025-10-31	
Tungsten, dissolved	< 0.0010	N/A	0.0010	mg/L	2025-10-31	
Uranium, dissolved	0.00304	N/A	0.000020	mg/L	2025-10-31	
Vanadium, dissolved	< 0.0050	N/A	0.0050	mg/L	2025-10-31	
Zinc, dissolved	< 0.0040	N/A	0.0040	mg/L	2025-10-31	
Zirconium, dissolved	< 0.00010	N/A	0.00010	mg/L	2025-10-31	

General Parameters

Alkalinity, Total (as CaCO ₃)	283	N/A	1.0	mg/L	2025-11-01	
Alkalinity, Phenolphthalein (as CaCO ₃)	< 1.0	N/A	1.0	mg/L	2025-11-01	
Alkalinity, Bicarbonate (as CaCO ₃)	283	N/A	1.0	mg/L	2025-11-01	
Alkalinity, Carbonate (as CaCO ₃)	< 1.0	N/A	1.0	mg/L	2025-11-01	
Alkalinity, Hydroxide (as CaCO ₃)	< 1.0	N/A	1.0	mg/L	2025-11-01	
Ammonia, Total (as N)	< 0.050	None Required	0.050	mg/L	2025-11-04	
Chemical Oxygen Demand	< 20	N/A	20	mg/L	2025-10-31	
Conductivity (EC)	786	N/A	2.0	µS/cm	2025-11-01	
pH	7.88	7.0-10.5	0.10	pH units	2025-11-01	HT2

Field Blank (25J4041-04) | Matrix: Ground Water | Sampled: 2025-10-28 14:05

Anions

Bromide	< 0.10	N/A	0.10	mg/L	2025-10-30	
Chloride	< 0.10	AO ≤ 250	0.10	mg/L	2025-10-30	
Fluoride	< 0.10	MAC = 1.5	0.10	mg/L	2025-10-30	
Nitrate (as N)	< 0.010	MAC = 10	0.010	mg/L	2025-10-30	
Nitrite (as N)	< 0.010	MAC = 1	0.010	mg/L	2025-10-30	
Sulfate	< 1.0	AO ≤ 500	1.0	mg/L	2025-10-30	

Calculated Parameters

Bicarbonate (HCO ₃)	< 1.22	N/A	1.22	mg/L	N/A	
Carbonate (CO ₃)	< 0.600	N/A	0.600	mg/L	N/A	
Hydroxide (OH)	< 0.340	N/A	0.340	mg/L	N/A	
Hardness, Dissolved (as CaCO ₃)	< 0.500	N/A	0.500	mg/L	N/A	
Nitrate+Nitrite (as N)	< 0.0100	N/A	0.0100	mg/L	N/A	

Dissolved Metals

Aluminum, dissolved	< 0.0050	N/A	0.0050	mg/L	2025-11-01	
Antimony, dissolved	< 0.00020	N/A	0.00020	mg/L	2025-11-01	
Arsenic, dissolved	< 0.00050	N/A	0.00050	mg/L	2025-11-01	
Barium, dissolved	< 0.0050	N/A	0.0050	mg/L	2025-11-01	
Beryllium, dissolved	< 0.00010	N/A	0.00010	mg/L	2025-11-01	
Bismuth, dissolved	< 0.00010	N/A	0.00010	mg/L	2025-11-01	
Boron, dissolved	< 0.0500	N/A	0.0500	mg/L	2025-11-01	

TEST RESULTS

REPORTED TO PROJECT Regional District of Okanagan Similkameen
Keremeos - TLGW

WORK ORDER REPORTED 25J4041
2025-11-05 14:39

Analyte	Result	Guideline	RL	Units	Analyzed	Qualifier

Field Blank (25J4041-04) | Matrix: Ground Water | Sampled: 2025-10-28 14:05, Continued

Dissolved Metals, Continued

Cadmium, dissolved	< 0.000010	N/A	0.000010	mg/L	2025-11-01	
Calcium, dissolved	< 0.20	N/A	0.20	mg/L	2025-11-01	
Chromium, dissolved	< 0.00050	N/A	0.00050	mg/L	2025-11-01	
Cobalt, dissolved	< 0.00010	N/A	0.00010	mg/L	2025-11-01	
Copper, dissolved	< 0.00040	N/A	0.00040	mg/L	2025-11-01	
Iron, dissolved	< 0.010	N/A	0.010	mg/L	2025-11-01	
Lead, dissolved	< 0.00020	N/A	0.00020	mg/L	2025-11-01	
Lithium, dissolved	< 0.00010	N/A	0.00010	mg/L	2025-11-01	
Magnesium, dissolved	0.012	N/A	0.010	mg/L	2025-11-05	RE2
Manganese, dissolved	0.00125	N/A	0.00020	mg/L	2025-11-05	RE2
Mercury, dissolved	< 0.000010	N/A	0.000010	mg/L	2025-11-03	
Molybdenum, dissolved	< 0.00010	N/A	0.00010	mg/L	2025-11-01	
Nickel, dissolved	< 0.00040	N/A	0.00040	mg/L	2025-11-01	
Phosphorus, dissolved	< 0.050	N/A	0.050	mg/L	2025-11-01	
Potassium, dissolved	< 0.10	N/A	0.10	mg/L	2025-11-01	
Selenium, dissolved	< 0.00050	N/A	0.00050	mg/L	2025-11-01	
Silicon, dissolved	< 1.0	N/A	1.0	mg/L	2025-11-01	
Silver, dissolved	< 0.000050	N/A	0.000050	mg/L	2025-11-01	
Sodium, dissolved	< 0.10	N/A	0.10	mg/L	2025-11-01	
Strontium, dissolved	< 0.0010	N/A	0.0010	mg/L	2025-11-01	
Sulfur, dissolved	< 3.0	N/A	3.0	mg/L	2025-11-01	
Tellurium, dissolved	< 0.00050	N/A	0.00050	mg/L	2025-11-01	
Thallium, dissolved	< 0.000020	N/A	0.000020	mg/L	2025-11-01	
Thorium, dissolved	< 0.00010	N/A	0.00010	mg/L	2025-11-01	
Tin, dissolved	< 0.00020	N/A	0.00020	mg/L	2025-11-01	
Titanium, dissolved	< 0.0050	N/A	0.0050	mg/L	2025-11-01	
Tungsten, dissolved	< 0.0010	N/A	0.0010	mg/L	2025-11-01	
Uranium, dissolved	< 0.000020	N/A	0.000020	mg/L	2025-11-01	
Vanadium, dissolved	< 0.0050	N/A	0.0050	mg/L	2025-11-01	
Zinc, dissolved	< 0.0040	N/A	0.0040	mg/L	2025-11-01	
Zirconium, dissolved	< 0.00010	N/A	0.00010	mg/L	2025-11-01	

General Parameters

Alkalinity, Total (as CaCO ₃)	< 1.0	N/A	1.0	mg/L	2025-11-01	
Alkalinity, Phenolphthalein (as CaCO ₃)	< 1.0	N/A	1.0	mg/L	2025-11-01	
Alkalinity, Bicarbonate (as CaCO ₃)	< 1.0	N/A	1.0	mg/L	2025-11-01	
Alkalinity, Carbonate (as CaCO ₃)	< 1.0	N/A	1.0	mg/L	2025-11-01	
Alkalinity, Hydroxide (as CaCO ₃)	< 1.0	N/A	1.0	mg/L	2025-11-01	
Ammonia, Total (as N)	< 0.050	None Required	0.050	mg/L	2025-11-04	
Chemical Oxygen Demand	< 20	N/A	20	mg/L	2025-10-31	
Conductivity (EC)	< 2.0	N/A	2.0	µS/cm	2025-11-01	
pH	5.76	7.0-10.5	0.10	pH units	2025-11-01	HT2

TEST RESULTS

REPORTED TO PROJECT Regional District of Okanagan Similkameen
Keremeos - TLGW

WORK ORDER REPORTED 25J4041
2025-11-05 14:39

Analyte	Result	Guideline	RL Units	Analyzed	Qualifier

MW 24-03 (25J4041-05) | Matrix: Ground Water | Sampled: 2025-10-28 15:15

Anions

Bromide	2.36	N/A	0.10 mg/L	2025-10-30	
Chloride	27.2	AO ≤ 250	0.10 mg/L	2025-10-30	
Fluoride	< 0.10	MAC = 1.5	0.10 mg/L	2025-10-30	
Nitrate (as N)	5.82	MAC = 10	0.010 mg/L	2025-10-30	
Nitrite (as N)	< 0.010	MAC = 1	0.010 mg/L	2025-10-30	
Sulfate	304	AO ≤ 500	1.0 mg/L	2025-10-30	

Calculated Parameters

Bicarbonate (HCO ₃)	490	N/A	1.22 mg/L	N/A	
Carbonate (CO ₃)	< 0.600	N/A	0.600 mg/L	N/A	
Hydroxide (OH)	< 0.340	N/A	0.340 mg/L	N/A	
Hardness, Dissolved (as CaCO ₃)	695	N/A	0.500 mg/L	N/A	
Nitrate+Nitrite (as N)	5.82	N/A	0.0100 mg/L	N/A	

Dissolved Metals

Aluminum, dissolved	< 0.0050	N/A	0.0050 mg/L	2025-11-01	
Antimony, dissolved	< 0.00020	N/A	0.00020 mg/L	2025-11-01	
Arsenic, dissolved	0.00100	N/A	0.00050 mg/L	2025-11-01	
Barium, dissolved	0.0778	N/A	0.0050 mg/L	2025-11-01	
Beryllium, dissolved	< 0.00010	N/A	0.00010 mg/L	2025-11-01	
Bismuth, dissolved	< 0.00010	N/A	0.00010 mg/L	2025-11-01	
Boron, dissolved	< 0.0500	N/A	0.0500 mg/L	2025-11-01	
Cadmium, dissolved	0.000045	N/A	0.000010 mg/L	2025-11-01	
Calcium, dissolved	134	N/A	0.20 mg/L	2025-11-01	
Chromium, dissolved	0.00317	N/A	0.00050 mg/L	2025-11-01	
Cobalt, dissolved	< 0.00010	N/A	0.00010 mg/L	2025-11-01	
Copper, dissolved	< 0.00040	N/A	0.00040 mg/L	2025-11-01	
Iron, dissolved	< 0.010	N/A	0.010 mg/L	2025-11-02	
Lead, dissolved	< 0.00020	N/A	0.00020 mg/L	2025-11-01	
Lithium, dissolved	0.0145	N/A	0.00010 mg/L	2025-11-01	
Magnesium, dissolved	87.6	N/A	0.010 mg/L	2025-11-01	
Manganese, dissolved	0.00026	N/A	0.00020 mg/L	2025-11-02	
Mercury, dissolved	< 0.000010	N/A	0.000010 mg/L	2025-11-03	
Molybdenum, dissolved	0.00268	N/A	0.00010 mg/L	2025-11-01	
Nickel, dissolved	0.00123	N/A	0.00040 mg/L	2025-11-01	
Phosphorus, dissolved	< 0.050	N/A	0.050 mg/L	2025-11-01	
Potassium, dissolved	4.88	N/A	0.10 mg/L	2025-11-01	
Selenium, dissolved	0.00917	N/A	0.00050 mg/L	2025-11-01	
Silicon, dissolved	10.8	N/A	1.0 mg/L	2025-11-01	
Silver, dissolved	< 0.000050	N/A	0.000050 mg/L	2025-11-01	
Sodium, dissolved	37.7	N/A	0.10 mg/L	2025-11-01	
Strontium, dissolved	1.49	N/A	0.0010 mg/L	2025-11-01	
Sulfur, dissolved	108	N/A	3.0 mg/L	2025-11-01	
Tellurium, dissolved	< 0.00050	N/A	0.00050 mg/L	2025-11-01	

TEST RESULTS

REPORTED TO PROJECT Regional District of Okanagan Similkameen
Keremeos - TLGW

WORK ORDER REPORTED 25J4041
2025-11-05 14:39

Analyte	Result	Guideline	RL	Units	Analyzed	Qualifier

MW 24-03 (25J4041-05) | Matrix: Ground Water | Sampled: 2025-10-28 15:15, Continued

Dissolved Metals, Continued

Thallium, dissolved	< 0.000020	N/A	0.000020	mg/L	2025-11-01	
Thorium, dissolved	< 0.00010	N/A	0.00010	mg/L	2025-11-01	
Tin, dissolved	< 0.00020	N/A	0.00020	mg/L	2025-11-01	
Titanium, dissolved	< 0.0050	N/A	0.0050	mg/L	2025-11-01	
Tungsten, dissolved	< 0.0010	N/A	0.0010	mg/L	2025-11-01	
Uranium, dissolved	0.00793	N/A	0.000020	mg/L	2025-11-01	
Vanadium, dissolved	< 0.0050	N/A	0.0050	mg/L	2025-11-01	
Zinc, dissolved	< 0.0040	N/A	0.0040	mg/L	2025-11-01	
Zirconium, dissolved	< 0.00010	N/A	0.00010	mg/L	2025-11-01	

General Parameters

Alkalinity, Total (as CaCO ₃)	402	N/A	1.0	mg/L	2025-11-01	
Alkalinity, Phenolphthalein (as CaCO ₃)	< 1.0	N/A	1.0	mg/L	2025-11-01	
Alkalinity, Bicarbonate (as CaCO ₃)	402	N/A	1.0	mg/L	2025-11-01	
Alkalinity, Carbonate (as CaCO ₃)	< 1.0	N/A	1.0	mg/L	2025-11-01	
Alkalinity, Hydroxide (as CaCO ₃)	< 1.0	N/A	1.0	mg/L	2025-11-01	
Ammonia, Total (as N)	< 0.050	None Required	0.050	mg/L	2025-11-04	
Chemical Oxygen Demand	< 20	N/A	20	mg/L	2025-10-31	
Conductivity (EC)	1340	N/A	2.0	µS/cm	2025-11-01	
pH	8.00	7.0-10.5	0.10	pH units	2025-11-01	HT2

Total Metals

Aluminum, total	< 0.0050	OG < 0.1	0.0050	mg/L	2025-10-31	
Antimony, total	< 0.00020	MAC = 0.006	0.00020	mg/L	2025-10-31	
Arsenic, total	0.00108	MAC = 0.01	0.00050	mg/L	2025-10-31	
Barium, total	0.0753	MAC = 2	0.0050	mg/L	2025-10-31	
Beryllium, total	< 0.00010	N/A	0.00010	mg/L	2025-10-31	
Bismuth, total	< 0.00010	N/A	0.00010	mg/L	2025-10-31	
Boron, total	< 0.0500	MAC = 5	0.0500	mg/L	2025-10-31	
Cadmium, total	0.000046	MAC = 0.007	0.000010	mg/L	2025-10-31	
Calcium, total	139	None Required	0.20	mg/L	2025-10-31	
Chromium, total	0.00321	MAC = 0.05	0.00050	mg/L	2025-10-31	
Cobalt, total	< 0.00010	N/A	0.00010	mg/L	2025-10-31	
Copper, total	0.00045	MAC = 2	0.00040	mg/L	2025-10-31	
Iron, total	< 0.010	AO ≤ 0.1	0.010	mg/L	2025-10-31	
Lead, total	< 0.00020	MAC = 0.005	0.00020	mg/L	2025-10-31	
Lithium, total	0.0145	N/A	0.00010	mg/L	2025-10-31	
Magnesium, total	87.6	None Required	0.010	mg/L	2025-10-31	
Manganese, total	0.00067	MAC = 0.12	0.00020	mg/L	2025-10-31	
Mercury, total	< 0.000010	MAC = 0.001	0.000010	mg/L	2025-11-03	
Molybdenum, total	0.00292	N/A	0.00010	mg/L	2025-10-31	
Nickel, total	0.00114	N/A	0.00040	mg/L	2025-10-31	
Phosphorus, total	< 0.050	N/A	0.050	mg/L	2025-10-31	
Potassium, total	4.79	N/A	0.10	mg/L	2025-10-31	

TEST RESULTS

REPORTED TO PROJECT Regional District of Okanagan Similkameen
Keremeos - TLGW

WORK ORDER REPORTED 25J4041
2025-11-05 14:39

Analyte	Result	Guideline	RL	Units	Analyzed	Qualifier
MW 24-03 (25J4041-05) Matrix: Ground Water Sampled: 2025-10-28 15:15, Continued						
<i>Total Metals, Continued</i>						
Selenium, total	0.00934	MAC = 0.05	0.00050	mg/L	2025-10-31	
Silicon, total	11.5	N/A	1.0	mg/L	2025-10-31	
Silver, total	< 0.000050	None Required	0.000050	mg/L	2025-10-31	
Sodium, total	37.7	AO ≤ 200	0.10	mg/L	2025-10-31	
Strontium, total	1.44	MAC = 7	0.0010	mg/L	2025-10-31	
Sulfur, total	115	N/A	3.0	mg/L	2025-10-31	
Tellurium, total	< 0.00050	N/A	0.00050	mg/L	2025-10-31	
Thallium, total	< 0.000020	N/A	0.000020	mg/L	2025-10-31	
Thorium, total	< 0.00010	N/A	0.00010	mg/L	2025-10-31	
Tin, total	< 0.00020	N/A	0.00020	mg/L	2025-10-31	
Titanium, total	< 0.0050	N/A	0.0050	mg/L	2025-10-31	
Tungsten, total	< 0.0010	N/A	0.0010	mg/L	2025-10-31	
Uranium, total	0.00820	MAC = 0.02	0.000020	mg/L	2025-10-31	
Vanadium, total	< 0.0050	N/A	0.0050	mg/L	2025-10-31	
Zinc, total	< 0.0040	AO ≤ 5	0.0040	mg/L	2025-10-31	
Zirconium, total	< 0.00010	N/A	0.00010	mg/L	2025-10-31	

Rep-001 (25J4041-06) | Matrix: Ground Water | Sampled: 2025-10-28 15:15

Anions

Bromide	< 0.10	N/A	0.10	mg/L	2025-10-30	
Chloride	26.9	AO ≤ 250	0.10	mg/L	2025-10-30	
Fluoride	< 0.10	MAC = 1.5	0.10	mg/L	2025-10-30	
Nitrate (as N)	5.33	MAC = 10	0.010	mg/L	2025-10-30	
Nitrite (as N)	< 0.010	MAC = 1	0.010	mg/L	2025-10-30	
Sulfate	322	AO ≤ 500	1.0	mg/L	2025-10-30	

Calculated Parameters

Bicarbonate (HCO ₃)	493	N/A	1.22	mg/L	N/A	
Carbonate (CO ₃)	< 0.600	N/A	0.600	mg/L	N/A	
Hydroxide (OH)	< 0.340	N/A	0.340	mg/L	N/A	
Hardness, Dissolved (as CaCO ₃)	700	N/A	0.500	mg/L	N/A	
Nitrate+Nitrite (as N)	5.33	N/A	0.0100	mg/L	N/A	

Dissolved Metals

Aluminum, dissolved	< 0.0050	N/A	0.0050	mg/L	2025-11-01	
Antimony, dissolved	< 0.00020	N/A	0.00020	mg/L	2025-11-01	
Arsenic, dissolved	0.00105	N/A	0.00050	mg/L	2025-11-01	
Barium, dissolved	0.0784	N/A	0.0050	mg/L	2025-11-01	
Beryllium, dissolved	< 0.00010	N/A	0.00010	mg/L	2025-11-01	
Bismuth, dissolved	< 0.00010	N/A	0.00010	mg/L	2025-11-01	
Boron, dissolved	< 0.0500	N/A	0.0500	mg/L	2025-11-01	
Cadmium, dissolved	0.000045	N/A	0.000010	mg/L	2025-11-01	

TEST RESULTS

REPORTED TO PROJECT Regional District of Okanagan Similkameen
Keremeos - TLGW

WORK ORDER REPORTED 25J4041
2025-11-05 14:39

Analyte	Result	Guideline	RL	Units	Analyzed	Qualifier

Rep-001 (25J4041-06) | Matrix: Ground Water | Sampled: 2025-10-28 15:15, Continued

Dissolved Metals, Continued

Calcium, dissolved	137	N/A	0.20	mg/L	2025-11-01	
Chromium, dissolved	0.00313	N/A	0.00050	mg/L	2025-11-01	
Cobalt, dissolved	< 0.00010	N/A	0.00010	mg/L	2025-11-01	
Copper, dissolved	< 0.00040	N/A	0.00040	mg/L	2025-11-01	
Iron, dissolved	< 0.010	N/A	0.010	mg/L	2025-11-02	
Lead, dissolved	< 0.00020	N/A	0.00020	mg/L	2025-11-01	
Lithium, dissolved	0.0146	N/A	0.00010	mg/L	2025-11-01	
Magnesium, dissolved	87.0	N/A	0.010	mg/L	2025-11-01	
Manganese, dissolved	0.00027	N/A	0.00020	mg/L	2025-11-02	
Mercury, dissolved	< 0.000010	N/A	0.000010	mg/L	2025-11-03	
Molybdenum, dissolved	0.00265	N/A	0.00010	mg/L	2025-11-01	
Nickel, dissolved	0.00108	N/A	0.00040	mg/L	2025-11-01	
Phosphorus, dissolved	< 0.050	N/A	0.050	mg/L	2025-11-01	
Potassium, dissolved	4.83	N/A	0.10	mg/L	2025-11-01	
Selenium, dissolved	0.00927	N/A	0.00050	mg/L	2025-11-01	
Silicon, dissolved	10.9	N/A	1.0	mg/L	2025-11-01	
Silver, dissolved	< 0.000050	N/A	0.000050	mg/L	2025-11-01	
Sodium, dissolved	36.7	N/A	0.10	mg/L	2025-11-01	
Strontium, dissolved	1.47	N/A	0.0010	mg/L	2025-11-01	
Sulfur, dissolved	109	N/A	3.0	mg/L	2025-11-01	
Tellurium, dissolved	< 0.00050	N/A	0.00050	mg/L	2025-11-01	
Thallium, dissolved	< 0.000020	N/A	0.000020	mg/L	2025-11-01	
Thorium, dissolved	< 0.00010	N/A	0.00010	mg/L	2025-11-01	
Tin, dissolved	< 0.00020	N/A	0.00020	mg/L	2025-11-01	
Titanium, dissolved	< 0.0050	N/A	0.0050	mg/L	2025-11-01	
Tungsten, dissolved	< 0.0010	N/A	0.0010	mg/L	2025-11-01	
Uranium, dissolved	0.00807	N/A	0.000020	mg/L	2025-11-01	
Vanadium, dissolved	< 0.0050	N/A	0.0050	mg/L	2025-11-01	
Zinc, dissolved	< 0.0040	N/A	0.0040	mg/L	2025-11-01	
Zirconium, dissolved	< 0.00010	N/A	0.00010	mg/L	2025-11-01	

General Parameters

Alkalinity, Total (as CaCO3)	404	N/A	1.0	mg/L	2025-11-01	
Alkalinity, Phenolphthalein (as CaCO3)	< 1.0	N/A	1.0	mg/L	2025-11-01	
Alkalinity, Bicarbonate (as CaCO3)	404	N/A	1.0	mg/L	2025-11-01	
Alkalinity, Carbonate (as CaCO3)	< 1.0	N/A	1.0	mg/L	2025-11-01	
Alkalinity, Hydroxide (as CaCO3)	< 1.0	N/A	1.0	mg/L	2025-11-01	
Ammonia, Total (as N)	< 0.050	None Required	0.050	mg/L	2025-11-04	
Chemical Oxygen Demand	< 20	N/A	20	mg/L	2025-10-31	
Conductivity (EC)	1350	N/A	2.0	µS/cm	2025-11-01	
pH	7.96	7.0-10.5	0.10	pH units	2025-11-01	HT2

Rep-002 (25J4041-07) | Matrix: Ground Water | Sampled: 2025-10-28 15:15

TEST RESULTS

REPORTED TO PROJECT Regional District of Okanagan Similkameen
Keremeos - TLGW

WORK ORDER REPORTED 25J4041
2025-11-05 14:39

Analyte	Result	Guideline	RL	Units	Analyzed	Qualifier

Rep-002 (25J4041-07) | Matrix: Ground Water | Sampled: 2025-10-28 15:15, Continued

Anions

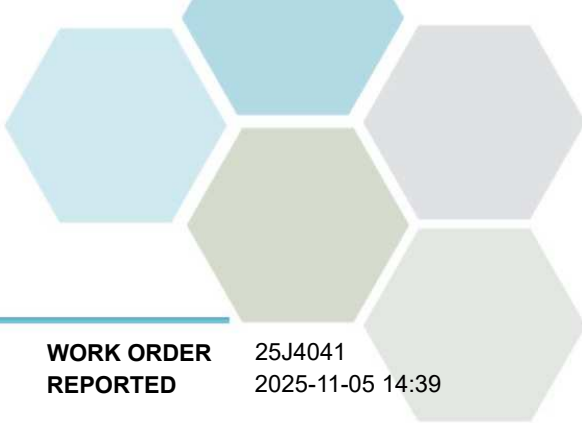
Bromide	< 0.10	N/A	0.10	mg/L	2025-10-30	
Chloride	26.8	AO ≤ 250	0.10	mg/L	2025-10-30	
Fluoride	< 0.10	MAC = 1.5	0.10	mg/L	2025-10-30	
Nitrate (as N)	5.33	MAC = 10	0.010	mg/L	2025-10-30	
Nitrite (as N)	< 0.010	MAC = 1	0.010	mg/L	2025-10-30	
Sulfate	332	AO ≤ 500	1.0	mg/L	2025-10-30	

Calculated Parameters

Bicarbonate (HCO ₃)	492	N/A	1.22	mg/L	N/A	
Carbonate (CO ₃)	< 0.600	N/A	0.600	mg/L	N/A	
Hydroxide (OH)	< 0.340	N/A	0.340	mg/L	N/A	
Hardness, Dissolved (as CaCO ₃)	701	N/A	0.500	mg/L	N/A	
Nitrate+Nitrite (as N)	5.33	N/A	0.0100	mg/L	N/A	

Dissolved Metals

Aluminum, dissolved	< 0.0050	N/A	0.0050	mg/L	2025-11-01	
Antimony, dissolved	< 0.00020	N/A	0.00020	mg/L	2025-11-01	
Arsenic, dissolved	0.00103	N/A	0.00050	mg/L	2025-11-01	
Barium, dissolved	0.0785	N/A	0.0050	mg/L	2025-11-01	
Beryllium, dissolved	< 0.00010	N/A	0.00010	mg/L	2025-11-01	
Bismuth, dissolved	< 0.00010	N/A	0.00010	mg/L	2025-11-01	
Boron, dissolved	< 0.0500	N/A	0.0500	mg/L	2025-11-01	
Cadmium, dissolved	0.000045	N/A	0.000010	mg/L	2025-11-01	
Calcium, dissolved	135	N/A	0.20	mg/L	2025-11-01	
Chromium, dissolved	0.00319	N/A	0.00050	mg/L	2025-11-01	
Cobalt, dissolved	< 0.00010	N/A	0.00010	mg/L	2025-11-01	
Copper, dissolved	0.00041	N/A	0.00040	mg/L	2025-11-01	
Iron, dissolved	< 0.010	N/A	0.010	mg/L	2025-11-02	
Lead, dissolved	< 0.00020	N/A	0.00020	mg/L	2025-11-01	
Lithium, dissolved	0.0149	N/A	0.00010	mg/L	2025-11-01	
Magnesium, dissolved	88.3	N/A	0.010	mg/L	2025-11-01	
Manganese, dissolved	0.00028	N/A	0.00020	mg/L	2025-11-02	
Mercury, dissolved	< 0.000010	N/A	0.000010	mg/L	2025-11-03	
Molybdenum, dissolved	0.00272	N/A	0.00010	mg/L	2025-11-01	
Nickel, dissolved	0.00109	N/A	0.00040	mg/L	2025-11-01	
Phosphorus, dissolved	< 0.050	N/A	0.050	mg/L	2025-11-01	
Potassium, dissolved	5.00	N/A	0.10	mg/L	2025-11-01	
Selenium, dissolved	0.00938	N/A	0.00050	mg/L	2025-11-01	
Silicon, dissolved	10.8	N/A	1.0	mg/L	2025-11-01	
Silver, dissolved	< 0.000050	N/A	0.000050	mg/L	2025-11-01	
Sodium, dissolved	38.1	N/A	0.10	mg/L	2025-11-01	
Strontium, dissolved	1.51	N/A	0.0010	mg/L	2025-11-01	
Sulfur, dissolved	107	N/A	3.0	mg/L	2025-11-01	
Tellurium, dissolved	< 0.00050	N/A	0.00050	mg/L	2025-11-01	



TEST RESULTS

REPORTED TO PROJECT	Regional District of Okanagan Similkameen Keremeos - TLGW	WORK ORDER REPORTED	25J4041 2025-11-05 14:39

Analyte	Result	Guideline	RL	Units	Analyzed	Qualifier

Rep-002 (25J4041-07) | Matrix: Ground Water | Sampled: 2025-10-28 15:15, Continued

Dissolved Metals, Continued

Thallium, dissolved	< 0.000020	N/A	0.000020	mg/L	2025-11-01	
Thorium, dissolved	< 0.00010	N/A	0.00010	mg/L	2025-11-01	
Tin, dissolved	< 0.00020	N/A	0.00020	mg/L	2025-11-01	
Titanium, dissolved	< 0.0050	N/A	0.0050	mg/L	2025-11-01	
Tungsten, dissolved	< 0.0010	N/A	0.0010	mg/L	2025-11-01	
Uranium, dissolved	0.00796	N/A	0.000020	mg/L	2025-11-01	
Vanadium, dissolved	< 0.0050	N/A	0.0050	mg/L	2025-11-01	
Zinc, dissolved	< 0.0040	N/A	0.0040	mg/L	2025-11-01	
Zirconium, dissolved	< 0.00010	N/A	0.00010	mg/L	2025-11-01	

General Parameters

Alkalinity, Total (as CaCO3)	403	N/A	1.0	mg/L	2025-11-01	
Alkalinity, Phenolphthalein (as CaCO3)	< 1.0	N/A	1.0	mg/L	2025-11-01	
Alkalinity, Bicarbonate (as CaCO3)	403	N/A	1.0	mg/L	2025-11-01	
Alkalinity, Carbonate (as CaCO3)	< 1.0	N/A	1.0	mg/L	2025-11-01	
Alkalinity, Hydroxide (as CaCO3)	< 1.0	N/A	1.0	mg/L	2025-11-01	
Ammonia, Total (as N)	< 0.050	None Required	0.050	mg/L	2025-11-04	
Chemical Oxygen Demand	< 20	N/A	20	mg/L	2025-11-04	
Conductivity (EC)	1350	N/A	2.0	µS/cm	2025-11-01	
pH	8.03	7.0-10.5	0.10	pH units	2025-11-01	HT2

Sample Qualifiers:

HT2	The 15 minute recommended holding time (from sampling to analysis) has been exceeded - field analysis is recommended.
RE2	Result was confirmed by re-analysis prior to reporting.

APPENDIX 1: SUPPORTING INFORMATION

REPORTED TO PROJECT Regional District of Okanagan Similkameen
Keremeos - TLGW

WORK ORDER REPORTED 25J4041
2025-11-05 14:39

Analysis Description	Method Ref.	Technique	Accredited	Location
Alkalinity in Water	SM 2320 B* (2021)	Titration with H ₂ SO ₄	✓	Kelowna
Ammonia, Total in Water	SM 4500-NH ₃ G* (2021)	Automated Colorimetry (Phenate)	✓	Kelowna
Anions in Water	SM 4110 B (2020)	Ion Chromatography	✓	Kelowna
Chemical Oxygen Demand in Water	SM 5220 D* (2022)	Closed Reflux, Colorimetry	✓	Kelowna
Conductivity in Water	SM 2510 B (2021)	Conductivity Meter	✓	Kelowna
Dissolved Metals in Water	EPA 200.8 / EPA 6020B	0.45 µm Filtration / Inductively Coupled Plasma-Mass Spectroscopy (ICP-MS)	✓	Richmond
Hardness in Water	SM 2340 B (2021)	Calculation: 2.497 [diss Ca] + 4.118 [diss Mg]	✓	N/A
Hardness in Water	SM 2340 B* (2021)	Calculation: 2.497 [total Ca] + 4.118 [total Mg] (Est)	✓	N/A
Mercury, dissolved in Water	EPA 245.7*	BrCl ₂ Oxidation / Cold Vapor Atomic Fluorescence Spectrometry (CVAFS)	✓	Richmond
Mercury, total in Water	EPA 245.7*	BrCl ₂ Oxidation / Cold Vapor Atomic Fluorescence Spectrometry (CVAFS)	✓	Richmond
pH in Water	SM 4500-H+ B (2021)	Electrometry	✓	Kelowna
Total Metals in Water	EPA 200.2 / EPA 6020B	HNO ₃ +HCl Hot Block Digestion / Inductively Coupled Plasma-Mass Spectroscopy (ICP-MS)	✓	Richmond

Note: An asterisk in the Method Reference indicates that the CARO method has been modified from the reference method

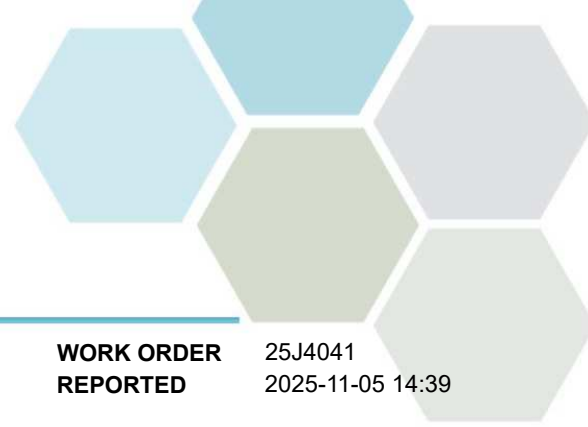
Glossary of Terms:

RL	Reporting Limit (default)
<	Less than the specified Reporting Limit (RL) - the actual RL may be higher than the default RL due to various factors
AO	Aesthetic Objective
MAC	Maximum Acceptable Concentration (health based)
mg/L	Milligrams per litre
OG	Operational Guideline (treated water)
pH units	pH < 7 = acidic, pH > 7 = basic
µS/cm	Microsiemens per centimetre
EPA	United States Environmental Protection Agency Test Methods
SM	Standard Methods for the Examination of Water and Wastewater, American Public Health Association

Guidelines Referenced in this Report:

[Guidelines for Canadian Drinking Water Quality \(Health Canada\)](#)

Note: In some cases, the values displayed on the report represent the lowest guideline and are to be verified by the end user



APPENDIX 1: SUPPORTING INFORMATION

REPORTED TO PROJECT	Regional District of Okanagan Similkameen Keremeos - TLGW	WORK ORDER REPORTED	25J4041 2025-11-05 14:39

General Comments:
The results in this report apply to samples received by CARO and analyzed in accordance with the Chain of Custody document. This analytical report must be reproduced in its entirety and must not be modified. CARO is not responsible for losses or damages resulting directly or indirectly from errors or omissions in the conduct of the testing. Any liability is limited to the cost of analysis. CARO will dispose of all samples within 30 days of sample receipt, unless otherwise agreed .

Results in **Bold** indicate values that are above CARO's method reporting limits. Results in **red** indicate values above the regulatory limits where these have been included. Any Bold and/or highlighted results do not take into account method uncertainty. If you would like method uncertainty or regulatory limits to be included on your report, please contact your Account Manager: hhannaoui@caro.ca

Regulatory limits are added to test reports on request and are as a convenience only. While CARO makes every effort to ensure accuracy of regulatory limits, CARO assumes no liability for the use of this information. It remains the client's responsibility to ensure that regulatory limits are correct for their circumstances.

APPENDIX 2: QUALITY CONTROL RESULTS

REPORTED TO PROJECT Regional District of Okanagan Similkameen
Keremeos - TLGW

WORK ORDER REPORTED 25J4041
2025-11-05 14:39

The following section displays the quality control (QC) data that is associated with your sample data. Groups of samples are prepared in "batches" and analyzed in conjunction with QC samples that ensure your data is of the highest quality. Common QC types include:

- **Method Blank (Blk):** A blank sample that undergoes sample processing identical to that carried out for the test samples. Method blank results are used to assess contamination from the laboratory environment and reagents.
- **Duplicate (Dup):** An additional or second portion of a randomly selected sample in the analytical run carried through the entire analytical process. Duplicates provide a measure of the analytical method's precision (reproducibility).
- **Blank Spike (BS):** A sample of known concentration which undergoes processing identical to that carried out for test samples, also referred to as a laboratory control sample (LCS). Blank spikes provide a measure of the analytical method's accuracy.
- **Matrix Spike (MS):** A second aliquot of sample is fortified with a known concentration of target analytes and carried through the entire analytical process. Matrix spikes evaluate potential matrix effects that may affect the analyte recovery.
- **Reference Material (SRM):** A homogenous material of similar matrix to the samples, certified for the parameter(s) listed. Reference Materials ensure that the analytical process is adequate to achieve acceptable recoveries of the parameter(s) tested.

Each QC type is analyzed at a 5-10% frequency, i.e. one blank/duplicate/spike for every 10-20 samples. For all types of QC, the specified recovery (% Rec) and relative percent difference (RPD) limits are derived from long-term method performance averages and/or prescribed by the reference method.

Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier

Anions, Batch B5J5300

Blank (B5J5300-BLK2)			Prepared: 2025-10-30, Analyzed: 2025-10-30						
Bromide	< 0.10	0.10 mg/L							
Chloride	< 0.10	0.10 mg/L							
Fluoride	< 0.10	0.10 mg/L							
Nitrate (as N)	< 0.010	0.010 mg/L							
Nitrite (as N)	< 0.010	0.010 mg/L							
Sulfate	< 1.0	1.0 mg/L							
LCS (B5J5300-BS1)			Prepared: 2025-10-30, Analyzed: 2025-10-30						
Bromide	4.01	0.10 mg/L	4.00		100	85-115			
Chloride	16.8	0.10 mg/L	16.0		105	90-110			
Fluoride	3.95	0.10 mg/L	4.00		99	88-108			
Nitrate (as N)	4.13	0.010 mg/L	4.00		103	90-110			
Nitrite (as N)	2.00	0.010 mg/L	2.00		100	85-115			
Sulfate	15.6	1.0 mg/L	16.0		98	90-110			
LCS (B5J5300-BS2)			Prepared: 2025-10-30, Analyzed: 2025-10-30						
Bromide	3.94	0.10 mg/L	4.00		98	85-115			
Chloride	16.2	0.10 mg/L	16.0		101	90-110			
Fluoride	3.79	0.10 mg/L	4.00		95	88-108			
Nitrate (as N)	4.14	0.010 mg/L	4.00		104	90-110			
Nitrite (as N)	1.99	0.010 mg/L	2.00		100	85-115			
Sulfate	16.4	1.0 mg/L	16.0		103	90-110			

Dissolved Metals, Batch B5J5573

Blank (B5J5573-BLK1)			Prepared: 2025-10-31, Analyzed: 2025-10-31						
Aluminum, dissolved	< 0.0050	0.0050 mg/L							
Antimony, dissolved	< 0.00020	0.00020 mg/L							
Arsenic, dissolved	< 0.00050	0.00050 mg/L							
Barium, dissolved	< 0.0050	0.0050 mg/L							
Beryllium, dissolved	< 0.00010	0.00010 mg/L							
Bismuth, dissolved	< 0.00010	0.00010 mg/L							
Boron, dissolved	< 0.0500	0.0500 mg/L							
Cadmium, dissolved	< 0.000010	0.000010 mg/L							
Calcium, dissolved	< 0.20	0.20 mg/L							
Chromium, dissolved	< 0.00050	0.00050 mg/L							

APPENDIX 2: QUALITY CONTROL RESULTS

REPORTED TO PROJECT Regional District of Okanagan Similkameen
Keremeos - TLGW

WORK ORDER REPORTED 25J4041
2025-11-05 14:39

Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
Dissolved Metals, Batch B5J5573, Continued									
Blank (B5J5573-BLK1), Continued				Prepared: 2025-10-31, Analyzed: 2025-10-31					
Cobalt, dissolved	< 0.00010	0.00010 mg/L							
Copper, dissolved	< 0.00040	0.00040 mg/L							
Iron, dissolved	< 0.010	0.010 mg/L							
Lead, dissolved	< 0.00020	0.00020 mg/L							
Lithium, dissolved	< 0.00010	0.00010 mg/L							
Magnesium, dissolved	< 0.010	0.010 mg/L							
Manganese, dissolved	< 0.00020	0.00020 mg/L							
Molybdenum, dissolved	< 0.00010	0.00010 mg/L							
Nickel, dissolved	< 0.00040	0.00040 mg/L							
Phosphorus, dissolved	< 0.050	0.050 mg/L							
Potassium, dissolved	< 0.10	0.10 mg/L							
Selenium, dissolved	< 0.00050	0.00050 mg/L							
Silicon, dissolved	< 1.0	1.0 mg/L							
Silver, dissolved	< 0.000050	0.000050 mg/L							
Sodium, dissolved	< 0.10	0.10 mg/L							
Strontium, dissolved	< 0.0010	0.0010 mg/L							
Sulfur, dissolved	< 3.0	3.0 mg/L							
Tellurium, dissolved	< 0.00050	0.00050 mg/L							
Thallium, dissolved	< 0.000020	0.000020 mg/L							
Thorium, dissolved	< 0.00010	0.00010 mg/L							
Tin, dissolved	< 0.00020	0.00020 mg/L							
Titanium, dissolved	< 0.0050	0.0050 mg/L							
Tungsten, dissolved	< 0.0010	0.0010 mg/L							
Uranium, dissolved	< 0.000020	0.000020 mg/L							
Vanadium, dissolved	< 0.0050	0.0050 mg/L							
Zinc, dissolved	< 0.0040	0.0040 mg/L							
Zirconium, dissolved	< 0.00010	0.00010 mg/L							
Blank (B5J5573-BLK2)				Prepared: 2025-10-31, Analyzed: 2025-10-31					
Aluminum, dissolved	< 0.0050	0.0050 mg/L							
Antimony, dissolved	< 0.00020	0.00020 mg/L							
Arsenic, dissolved	< 0.00050	0.00050 mg/L							
Barium, dissolved	< 0.0050	0.0050 mg/L							
Beryllium, dissolved	< 0.00010	0.00010 mg/L							
Bismuth, dissolved	< 0.00010	0.00010 mg/L							
Boron, dissolved	< 0.0500	0.0500 mg/L							
Cadmium, dissolved	< 0.000010	0.000010 mg/L							
Calcium, dissolved	< 0.20	0.20 mg/L							
Chromium, dissolved	< 0.00050	0.00050 mg/L							
Cobalt, dissolved	< 0.00010	0.00010 mg/L							
Copper, dissolved	< 0.00040	0.00040 mg/L							
Iron, dissolved	< 0.010	0.010 mg/L							
Lead, dissolved	< 0.00020	0.00020 mg/L							
Lithium, dissolved	< 0.00010	0.00010 mg/L							
Magnesium, dissolved	< 0.010	0.010 mg/L							
Manganese, dissolved	< 0.00020	0.00020 mg/L							
Molybdenum, dissolved	< 0.00010	0.00010 mg/L							
Nickel, dissolved	< 0.00040	0.00040 mg/L							
Phosphorus, dissolved	< 0.050	0.050 mg/L							
Potassium, dissolved	< 0.10	0.10 mg/L							
Selenium, dissolved	< 0.00050	0.00050 mg/L							
Silicon, dissolved	< 1.0	1.0 mg/L							
Silver, dissolved	< 0.000050	0.000050 mg/L							
Sodium, dissolved	< 0.10	0.10 mg/L							
Strontium, dissolved	< 0.0010	0.0010 mg/L							
Sulfur, dissolved	< 3.0	3.0 mg/L							

APPENDIX 2: QUALITY CONTROL RESULTS

REPORTED TO PROJECT Regional District of Okanagan Similkameen
Keremeos - TLGW

WORK ORDER REPORTED 25J4041
2025-11-05 14:39

Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier

Dissolved Metals, Batch B5J5573, Continued

Blank (B5J5573-BLK2), Continued

Prepared: 2025-10-31, Analyzed: 2025-10-31

Tellurium, dissolved	< 0.00050	0.00050 mg/L							
Thallium, dissolved	< 0.000020	0.000020 mg/L							
Thorium, dissolved	< 0.00010	0.00010 mg/L							
Tin, dissolved	< 0.00020	0.00020 mg/L							
Titanium, dissolved	< 0.0050	0.0050 mg/L							
Tungsten, dissolved	< 0.0010	0.0010 mg/L							
Uranium, dissolved	< 0.000020	0.000020 mg/L							
Vanadium, dissolved	< 0.0050	0.0050 mg/L							
Zinc, dissolved	< 0.0040	0.0040 mg/L							
Zirconium, dissolved	< 0.00010	0.00010 mg/L							

LCS (B5J5573-BS1)

Prepared: 2025-10-31, Analyzed: 2025-10-31

Aluminum, dissolved	4.03	0.0050 mg/L	4.00		101	80-120			
Antimony, dissolved	0.0398	0.00020 mg/L	0.0400		99	80-120			
Arsenic, dissolved	0.405	0.00050 mg/L	0.400		101	80-120			
Barium, dissolved	0.0395	0.0050 mg/L	0.0400		99	80-120			
Beryllium, dissolved	0.0392	0.00010 mg/L	0.0400		98	80-120			
Bismuth, dissolved	0.0393	0.00010 mg/L	0.0400		98	80-120			
Boron, dissolved	0.397	0.0500 mg/L	0.400		99	80-120			
Cadmium, dissolved	0.0395	0.000010 mg/L	0.0400		99	80-120			
Calcium, dissolved	4.02	0.20 mg/L	4.00		101	80-120			
Chromium, dissolved	0.0402	0.00050 mg/L	0.0400		100	80-120			
Cobalt, dissolved	0.0406	0.00010 mg/L	0.0400		101	80-120			
Copper, dissolved	0.0401	0.00040 mg/L	0.0400		100	80-120			
Iron, dissolved	4.09	0.010 mg/L	4.00		102	80-120			
Lead, dissolved	0.0398	0.00020 mg/L	0.0400		99	80-120			
Lithium, dissolved	0.0404	0.00010 mg/L	0.0400		101	80-120			
Magnesium, dissolved	4.04	0.010 mg/L	4.00		101	80-120			
Manganese, dissolved	0.0408	0.00020 mg/L	0.0400		102	80-120			
Molybdenum, dissolved	0.0397	0.00010 mg/L	0.0400		99	80-120			
Nickel, dissolved	0.0408	0.00040 mg/L	0.0400		102	80-120			
Phosphorus, dissolved	4.00	0.050 mg/L	4.00		100	80-120			
Potassium, dissolved	4.03	0.10 mg/L	4.00		101	80-120			
Selenium, dissolved	0.401	0.00050 mg/L	0.400		100	80-120			
Silicon, dissolved	4.0	1.0 mg/L	4.00		100	80-120			
Silver, dissolved	0.0400	0.000050 mg/L	0.0400		100	80-120			
Sodium, dissolved	4.08	0.10 mg/L	4.00		102	80-120			
Strontium, dissolved	0.0411	0.0010 mg/L	0.0400		103	80-120			
Sulfur, dissolved	40.4	3.0 mg/L	40.0		101	80-120			
Tellurium, dissolved	0.0400	0.00050 mg/L	0.0400		100	80-120			
Thallium, dissolved	0.0383	0.000020 mg/L	0.0400		96	80-120			
Thorium, dissolved	0.0398	0.00010 mg/L	0.0400		99	80-120			
Tin, dissolved	0.0398	0.00020 mg/L	0.0400		99	80-120			
Titanium, dissolved	0.0400	0.0050 mg/L	0.0400		100	80-120			
Tungsten, dissolved	0.0394	0.0010 mg/L	0.0400		99	80-120			
Uranium, dissolved	0.0407	0.000020 mg/L	0.0400		102	80-120			
Vanadium, dissolved	0.0405	0.0050 mg/L	0.0400		101	80-120			
Zinc, dissolved	0.403	0.0040 mg/L	0.400		101	80-120			
Zirconium, dissolved	0.0395	0.00010 mg/L	0.0400		99	80-120			

LCS (B5J5573-BS2)

Prepared: 2025-10-31, Analyzed: 2025-10-31

Aluminum, dissolved	4.02	0.0050 mg/L	4.00		101	80-120			
Antimony, dissolved	0.0393	0.00020 mg/L	0.0400		98	80-120			
Arsenic, dissolved	0.406	0.00050 mg/L	0.400		102	80-120			
Barium, dissolved	0.0393	0.0050 mg/L	0.0400		98	80-120			
Beryllium, dissolved	0.0389	0.00010 mg/L	0.0400		97	80-120			
Bismuth, dissolved	0.0396	0.00010 mg/L	0.0400		99	80-120			

APPENDIX 2: QUALITY CONTROL RESULTS

REPORTED TO PROJECT Regional District of Okanagan Similkameen
Keremeos - TLGW

WORK ORDER REPORTED 25J4041
2025-11-05 14:39

Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier

Dissolved Metals, Batch B5J5573, Continued

LCS (B5J5573-BS2), Continued				Prepared: 2025-10-31, Analyzed: 2025-10-31					
Boron, dissolved	0.396	0.0500 mg/L	0.400		99	80-120			
Cadmium, dissolved	0.0396	0.000010 mg/L	0.0400		99	80-120			
Calcium, dissolved	4.09	0.20 mg/L	4.00		102	80-120			
Chromium, dissolved	0.0404	0.00050 mg/L	0.0400		101	80-120			
Cobalt, dissolved	0.0406	0.00010 mg/L	0.0400		102	80-120			
Copper, dissolved	0.0401	0.00040 mg/L	0.0400		100	80-120			
Iron, dissolved	4.09	0.010 mg/L	4.00		102	80-120			
Lead, dissolved	0.0395	0.00020 mg/L	0.0400		99	80-120			
Lithium, dissolved	0.0391	0.00010 mg/L	0.0400		98	80-120			
Magnesium, dissolved	3.95	0.010 mg/L	4.00		99	80-120			
Manganese, dissolved	0.0407	0.00020 mg/L	0.0400		102	80-120			
Molybdenum, dissolved	0.0396	0.00010 mg/L	0.0400		99	80-120			
Nickel, dissolved	0.0408	0.00040 mg/L	0.0400		102	80-120			
Phosphorus, dissolved	3.97	0.050 mg/L	4.00		99	80-120			
Potassium, dissolved	3.98	0.10 mg/L	4.00		100	80-120			
Selenium, dissolved	0.403	0.00050 mg/L	0.400		101	80-120			
Silicon, dissolved	4.0	1.0 mg/L	4.00		101	80-120			
Silver, dissolved	0.0401	0.000050 mg/L	0.0400		100	80-120			
Sodium, dissolved	4.12	0.10 mg/L	4.00		103	80-120			
Strontium, dissolved	0.0404	0.0010 mg/L	0.0400		101	80-120			
Sulfur, dissolved	40.8	3.0 mg/L	40.0		102	80-120			
Tellurium, dissolved	0.0403	0.00050 mg/L	0.0400		101	80-120			
Thallium, dissolved	0.0388	0.000020 mg/L	0.0400		97	80-120			
Thorium, dissolved	0.0397	0.00010 mg/L	0.0400		99	80-120			
Tin, dissolved	0.0398	0.00020 mg/L	0.0400		100	80-120			
Titanium, dissolved	0.0408	0.0050 mg/L	0.0400		102	80-120			
Tungsten, dissolved	0.0395	0.0010 mg/L	0.0400		99	80-120			
Uranium, dissolved	0.0412	0.000020 mg/L	0.0400		103	80-120			
Vanadium, dissolved	0.0405	0.0050 mg/L	0.0400		101	80-120			
Zinc, dissolved	0.406	0.0040 mg/L	0.400		101	80-120			
Zirconium, dissolved	0.0395	0.00010 mg/L	0.0400		99	80-120			

Matrix Spike (B5J5573-MS1)				Source: 25J4041-03		Prepared: 2025-10-31, Analyzed: 2025-10-31			
Aluminum, dissolved	4.00	0.0050 mg/L	4.00	< 0.0050	100	70-130			
Antimony, dissolved	0.0424	0.00020 mg/L	0.0400	< 0.00020	106	70-130			
Arsenic, dissolved	0.414	0.00050 mg/L	0.400	0.00106	103	70-130			
Barium, dissolved	0.0881	0.0050 mg/L	0.0400	0.0470	103	70-130			
Beryllium, dissolved	0.0385	0.00010 mg/L	0.0400	< 0.00010	96	70-130			
Bismuth, dissolved	0.0393	0.00010 mg/L	0.0400	< 0.00010	98	70-130			
Boron, dissolved	0.394	0.0500 mg/L	0.400	< 0.0500	93	70-130			
Cadmium, dissolved	0.0404	0.000010 mg/L	0.0400	0.000022	101	70-130			
Calcium, dissolved	113	0.20 mg/L	4.00	113	4	70-130			MS2
Chromium, dissolved	0.0425	0.00050 mg/L	0.0400	0.00304	99	70-130			
Cobalt, dissolved	0.0382	0.00010 mg/L	0.0400	< 0.00010	95	70-130			
Copper, dissolved	0.0369	0.00040 mg/L	0.0400	< 0.00040	92	70-130			
Iron, dissolved	4.01	0.010 mg/L	4.00	< 0.010	100	70-130			
Lead, dissolved	0.0427	0.00020 mg/L	0.0400	< 0.00020	107	70-130			
Lithium, dissolved	0.0429	0.00010 mg/L	0.0400	0.00485	95	70-130			
Magnesium, dissolved	28.4	0.010 mg/L	4.00	25.3	78	70-130			
Manganese, dissolved	0.0390	0.00020 mg/L	0.0400	< 0.00020	97	70-130			
Molybdenum, dissolved	0.0434	0.00010 mg/L	0.0400	0.00197	103	70-130			
Nickel, dissolved	0.0385	0.00040 mg/L	0.0400	0.00052	95	70-130			
Phosphorus, dissolved	4.19	0.050 mg/L	4.00	< 0.050	105	70-130			
Potassium, dissolved	7.39	0.10 mg/L	4.00	3.76	91	70-130			
Selenium, dissolved	0.422	0.00050 mg/L	0.400	0.00362	105	70-130			
Silicon, dissolved	14.6	1.0 mg/L	4.00	10.7	97	70-130			

APPENDIX 2: QUALITY CONTROL RESULTS

REPORTED TO PROJECT Regional District of Okanagan Similkameen
Keremeos - TLGW

WORK ORDER REPORTED 25J4041
2025-11-05 14:39

Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
Dissolved Metals, Batch B5J5573, Continued									
Matrix Spike (B5J5573-MS1), Continued		Source: 25J4041-03		Prepared: 2025-10-31, Analyzed: 2025-10-31					
Silver, dissolved	0.0336	0.000050 mg/L	0.0400	< 0.000050	84	70-130			
Sodium, dissolved	23.8	0.10 mg/L	4.00	20.6	82	70-130			
Strontium, dissolved	0.862	0.0010 mg/L	0.0400	0.860	5	70-130			MS2
Sulfur, dissolved	79.8	3.0 mg/L	40.0	39.2	102	70-130			
Tellurium, dissolved	0.0433	0.00050 mg/L	0.0400	< 0.00050	108	70-130			
Thallium, dissolved	0.0426	0.000020 mg/L	0.0400	< 0.000020	107	70-130			
Thorium, dissolved	0.0446	0.00010 mg/L	0.0400	< 0.00010	112	70-130			
Tin, dissolved	0.0421	0.00020 mg/L	0.0400	< 0.00020	105	70-130			
Titanium, dissolved	0.0413	0.0050 mg/L	0.0400	< 0.0050	103	70-130			
Tungsten, dissolved	0.0440	0.0010 mg/L	0.0400	< 0.0010	110	70-130			
Uranium, dissolved	0.0483	0.000020 mg/L	0.0400	0.00304	113	70-130			
Vanadium, dissolved	0.0417	0.0050 mg/L	0.0400	< 0.0050	101	70-130			
Zinc, dissolved	0.384	0.0040 mg/L	0.400	< 0.0040	96	70-130			
Zirconium, dissolved	0.0417	0.00010 mg/L	0.0400	< 0.00010	104	70-130			

Dissolved Metals, Batch B5K1816

Blank (B5K1816-BLK1)		Prepared: 2025-11-01, Analyzed: 2025-11-01							
Aluminum, dissolved	< 0.0050	0.0050 mg/L							
Antimony, dissolved	< 0.00020	0.00020 mg/L							
Arsenic, dissolved	< 0.00050	0.00050 mg/L							
Barium, dissolved	< 0.0050	0.0050 mg/L							
Beryllium, dissolved	< 0.00010	0.00010 mg/L							
Bismuth, dissolved	< 0.00010	0.00010 mg/L							
Boron, dissolved	< 0.0500	0.0500 mg/L							
Cadmium, dissolved	< 0.000010	0.000010 mg/L							
Calcium, dissolved	< 0.20	0.20 mg/L							
Chromium, dissolved	< 0.00050	0.00050 mg/L							
Cobalt, dissolved	< 0.00010	0.00010 mg/L							
Copper, dissolved	< 0.00040	0.00040 mg/L							
Iron, dissolved	< 0.010	0.010 mg/L							
Lead, dissolved	< 0.00020	0.00020 mg/L							
Lithium, dissolved	< 0.00010	0.00010 mg/L							
Magnesium, dissolved	< 0.010	0.010 mg/L							
Manganese, dissolved	< 0.00020	0.00020 mg/L							
Molybdenum, dissolved	< 0.00010	0.00010 mg/L							
Nickel, dissolved	< 0.00040	0.00040 mg/L							
Phosphorus, dissolved	< 0.050	0.050 mg/L							
Potassium, dissolved	< 0.10	0.10 mg/L							
Selenium, dissolved	< 0.00050	0.00050 mg/L							
Silicon, dissolved	< 1.0	1.0 mg/L							
Silver, dissolved	< 0.000050	0.000050 mg/L							
Sodium, dissolved	< 0.10	0.10 mg/L							
Strontium, dissolved	< 0.0010	0.0010 mg/L							
Sulfur, dissolved	< 3.0	3.0 mg/L							
Tellurium, dissolved	< 0.00050	0.00050 mg/L							
Thallium, dissolved	< 0.000020	0.000020 mg/L							
Thorium, dissolved	< 0.00010	0.00010 mg/L							
Tin, dissolved	< 0.00020	0.00020 mg/L							
Titanium, dissolved	< 0.0050	0.0050 mg/L							
Tungsten, dissolved	< 0.0010	0.0010 mg/L							
Uranium, dissolved	< 0.000020	0.000020 mg/L							
Vanadium, dissolved	< 0.0050	0.0050 mg/L							
Zinc, dissolved	< 0.0040	0.0040 mg/L							
Zirconium, dissolved	< 0.00010	0.00010 mg/L							

APPENDIX 2: QUALITY CONTROL RESULTS

REPORTED TO PROJECT Regional District of Okanagan Similkameen
Keremeos - TLGW

WORK ORDER REPORTED 25J4041
2025-11-05 14:39

Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier

Dissolved Metals, Batch B5K1816, Continued

Blank (B5K1816-BLK2)

Prepared: 2025-11-01, Analyzed: 2025-11-01

Aluminum, dissolved	< 0.0050	0.0050 mg/L							
Antimony, dissolved	< 0.00020	0.00020 mg/L							
Arsenic, dissolved	< 0.00050	0.00050 mg/L							
Barium, dissolved	< 0.0050	0.0050 mg/L							
Beryllium, dissolved	< 0.00010	0.00010 mg/L							
Bismuth, dissolved	< 0.00010	0.00010 mg/L							
Boron, dissolved	< 0.0500	0.0500 mg/L							
Cadmium, dissolved	< 0.000010	0.000010 mg/L							
Calcium, dissolved	< 0.20	0.20 mg/L							
Chromium, dissolved	< 0.00050	0.00050 mg/L							
Cobalt, dissolved	< 0.00010	0.00010 mg/L							
Copper, dissolved	< 0.00040	0.00040 mg/L							
Iron, dissolved	< 0.010	0.010 mg/L							
Lead, dissolved	< 0.00020	0.00020 mg/L							
Lithium, dissolved	< 0.00010	0.00010 mg/L							
Magnesium, dissolved	< 0.010	0.010 mg/L							
Manganese, dissolved	< 0.00020	0.00020 mg/L							
Molybdenum, dissolved	< 0.00010	0.00010 mg/L							
Nickel, dissolved	< 0.00040	0.00040 mg/L							
Phosphorus, dissolved	< 0.050	0.050 mg/L							
Potassium, dissolved	< 0.10	0.10 mg/L							
Selenium, dissolved	< 0.00050	0.00050 mg/L							
Silicon, dissolved	< 1.0	1.0 mg/L							
Silver, dissolved	< 0.000050	0.000050 mg/L							
Sodium, dissolved	< 0.10	0.10 mg/L							
Strontium, dissolved	< 0.0010	0.0010 mg/L							
Sulfur, dissolved	< 3.0	3.0 mg/L							
Tellurium, dissolved	< 0.00050	0.00050 mg/L							
Thallium, dissolved	< 0.000020	0.000020 mg/L							
Thorium, dissolved	< 0.00010	0.00010 mg/L							
Tin, dissolved	< 0.00020	0.00020 mg/L							
Titanium, dissolved	< 0.0050	0.0050 mg/L							
Tungsten, dissolved	< 0.0010	0.0010 mg/L							
Uranium, dissolved	< 0.000020	0.000020 mg/L							
Vanadium, dissolved	< 0.0050	0.0050 mg/L							
Zinc, dissolved	< 0.0040	0.0040 mg/L							
Zirconium, dissolved	< 0.00010	0.00010 mg/L							

LCS (B5K1816-BS1)

Prepared: 2025-11-01, Analyzed: 2025-11-01

Aluminum, dissolved	4.12	0.0050 mg/L	4.00		103	80-120
Antimony, dissolved	0.0397	0.00020 mg/L	0.0400		99	80-120
Arsenic, dissolved	0.394	0.00050 mg/L	0.400		98	80-120
Barium, dissolved	0.0408	0.0050 mg/L	0.0400		102	80-120
Beryllium, dissolved	0.0408	0.00010 mg/L	0.0400		102	80-120
Bismuth, dissolved	0.0397	0.00010 mg/L	0.0400		99	80-120
Boron, dissolved	0.399	0.0500 mg/L	0.400		100	80-120
Cadmium, dissolved	0.0405	0.000010 mg/L	0.0400		101	80-120
Calcium, dissolved	3.99	0.20 mg/L	4.00		100	80-120
Chromium, dissolved	0.0401	0.00050 mg/L	0.0400		100	80-120
Cobalt, dissolved	0.0401	0.00010 mg/L	0.0400		100	80-120
Copper, dissolved	0.0395	0.00040 mg/L	0.0400		99	80-120
Iron, dissolved	4.05	0.010 mg/L	4.00		101	80-120
Lead, dissolved	0.0405	0.00020 mg/L	0.0400		101	80-120
Lithium, dissolved	0.0414	0.00010 mg/L	0.0400		103	80-120
Magnesium, dissolved	4.04	0.010 mg/L	4.00		101	80-120
Manganese, dissolved	0.0409	0.00020 mg/L	0.0400		102	80-120

APPENDIX 2: QUALITY CONTROL RESULTS

REPORTED TO PROJECT Regional District of Okanagan Similkameen
Keremeos - TLGW

WORK ORDER REPORTED 25J4041
2025-11-05 14:39

Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
Dissolved Metals, Batch B5K1816, Continued									
LCS (B5K1816-BS1), Continued					Prepared: 2025-11-01, Analyzed: 2025-11-01				
Molybdenum, dissolved	0.0403	0.00010 mg/L	0.0400		101	80-120			
Nickel, dissolved	0.0396	0.00040 mg/L	0.0400		99	80-120			
Phosphorus, dissolved	4.04	0.050 mg/L	4.00		101	80-120			
Potassium, dissolved	4.26	0.10 mg/L	4.00		107	80-120			
Selenium, dissolved	0.395	0.00050 mg/L	0.400		99	80-120			
Silicon, dissolved	4.0	1.0 mg/L	4.00		100	80-120			
Silver, dissolved	0.0404	0.000050 mg/L	0.0400		101	80-120			
Sodium, dissolved	4.32	0.10 mg/L	4.00		108	80-120			
Strontium, dissolved	0.0408	0.0010 mg/L	0.0400		102	80-120			
Sulfur, dissolved	40.0	3.0 mg/L	40.0		100	80-120			
Tellurium, dissolved	0.0394	0.00050 mg/L	0.0400		99	80-120			
Thallium, dissolved	0.0412	0.000020 mg/L	0.0400		103	80-120			
Thorium, dissolved	0.0396	0.00010 mg/L	0.0400		99	80-120			
Tin, dissolved	0.0406	0.00020 mg/L	0.0400		101	80-120			
Titanium, dissolved	0.0408	0.0050 mg/L	0.0400		102	80-120			
Tungsten, dissolved	0.0406	0.0010 mg/L	0.0400		101	80-120			
Uranium, dissolved	0.0393	0.000020 mg/L	0.0400		98	80-120			
Vanadium, dissolved	0.0403	0.0050 mg/L	0.0400		101	80-120			
Zinc, dissolved	0.396	0.0040 mg/L	0.400		99	80-120			
Zirconium, dissolved	0.0413	0.00010 mg/L	0.0400		103	80-120			
LCS (B5K1816-BS2)					Prepared: 2025-11-01, Analyzed: 2025-11-01				
Aluminum, dissolved	4.01	0.0050 mg/L	4.00		100	80-120			
Antimony, dissolved	0.0394	0.00020 mg/L	0.0400		99	80-120			
Arsenic, dissolved	0.397	0.00050 mg/L	0.400		99	80-120			
Barium, dissolved	0.0401	0.0050 mg/L	0.0400		100	80-120			
Beryllium, dissolved	0.0397	0.00010 mg/L	0.0400		99	80-120			
Bismuth, dissolved	0.0391	0.00010 mg/L	0.0400		98	80-120			
Boron, dissolved	0.382	0.0500 mg/L	0.400		96	80-120			
Cadmium, dissolved	0.0404	0.000010 mg/L	0.0400		101	80-120			
Calcium, dissolved	3.91	0.20 mg/L	4.00		98	80-120			
Chromium, dissolved	0.0402	0.00050 mg/L	0.0400		101	80-120			
Cobalt, dissolved	0.0401	0.00010 mg/L	0.0400		100	80-120			
Copper, dissolved	0.0396	0.00040 mg/L	0.0400		99	80-120			
Iron, dissolved	4.07	0.010 mg/L	4.00		102	80-120			
Lead, dissolved	0.0400	0.00020 mg/L	0.0400		100	80-120			
Lithium, dissolved	0.0399	0.00010 mg/L	0.0400		100	80-120			
Magnesium, dissolved	4.03	0.010 mg/L	4.00		101	80-120			
Manganese, dissolved	0.0406	0.00020 mg/L	0.0400		102	80-120			
Molybdenum, dissolved	0.0397	0.00010 mg/L	0.0400		99	80-120			
Nickel, dissolved	0.0400	0.00040 mg/L	0.0400		100	80-120			
Phosphorus, dissolved	3.98	0.050 mg/L	4.00		100	80-120			
Potassium, dissolved	4.03	0.10 mg/L	4.00		101	80-120			
Selenium, dissolved	0.397	0.00050 mg/L	0.400		99	80-120			
Silicon, dissolved	3.8	1.0 mg/L	4.00		96	80-120			
Silver, dissolved	0.0398	0.000050 mg/L	0.0400		100	80-120			
Sodium, dissolved	4.16	0.10 mg/L	4.00		104	80-120			
Strontium, dissolved	0.0415	0.0010 mg/L	0.0400		104	80-120			
Sulfur, dissolved	38.2	3.0 mg/L	40.0		96	80-120			
Tellurium, dissolved	0.0392	0.00050 mg/L	0.0400		98	80-120			
Thallium, dissolved	0.0410	0.000020 mg/L	0.0400		102	80-120			
Thorium, dissolved	0.0396	0.00010 mg/L	0.0400		99	80-120			
Tin, dissolved	0.0398	0.00020 mg/L	0.0400		100	80-120			
Titanium, dissolved	0.0399	0.0050 mg/L	0.0400		100	80-120			
Tungsten, dissolved	0.0404	0.0010 mg/L	0.0400		101	80-120			
Uranium, dissolved	0.0395	0.000020 mg/L	0.0400		99	80-120			

APPENDIX 2: QUALITY CONTROL RESULTS

REPORTED TO PROJECT Regional District of Okanagan Similkameen
Keremeos - TLGW

WORK ORDER REPORTED 25J4041
2025-11-05 14:39

Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
Dissolved Metals, Batch B5K1816, Continued									
LCS (B5K1816-BS2), Continued				Prepared: 2025-11-01, Analyzed: 2025-11-01					
Vanadium, dissolved	0.0398	0.0050 mg/L	0.0400		100	80-120			
Zinc, dissolved	0.400	0.0040 mg/L	0.400		100	80-120			
Zirconium, dissolved	0.0409	0.00010 mg/L	0.0400		102	80-120			
Duplicate (B5K1816-DUP1)				Source: 25J4041-05		Prepared: 2025-11-02, Analyzed: 2025-11-02			
Aluminum, dissolved	< 0.0050	0.0050 mg/L		< 0.0050				20	
Antimony, dissolved	< 0.00020	0.00020 mg/L		< 0.00020				20	
Arsenic, dissolved	0.00103	0.00050 mg/L		0.00100				20	
Barium, dissolved	0.0773	0.0050 mg/L		0.0778			< 1	20	
Beryllium, dissolved	< 0.00010	0.00010 mg/L		< 0.00010				20	
Bismuth, dissolved	< 0.00010	0.00010 mg/L		< 0.00010				20	
Boron, dissolved	< 0.0500	0.0500 mg/L		< 0.0500				20	
Cadmium, dissolved	0.000045	0.000010 mg/L		0.000045				20	
Calcium, dissolved	136	0.20 mg/L		134			2	20	
Chromium, dissolved	0.00315	0.00050 mg/L		0.00317			< 1	20	
Cobalt, dissolved	< 0.00010	0.00010 mg/L		< 0.00010				20	
Copper, dissolved	< 0.00040	0.00040 mg/L		< 0.00040				20	
Iron, dissolved	< 0.010	0.010 mg/L		< 0.010				20	
Lead, dissolved	< 0.00020	0.00020 mg/L		< 0.00020				20	
Lithium, dissolved	0.0145	0.00010 mg/L		0.0145			< 1	20	
Magnesium, dissolved	87.3	0.010 mg/L		87.6			< 1	20	
Manganese, dissolved	0.00028	0.00020 mg/L		0.00026				20	
Molybdenum, dissolved	0.00267	0.00010 mg/L		0.00268			< 1	20	
Nickel, dissolved	0.00110	0.00040 mg/L		0.00123				20	
Phosphorus, dissolved	< 0.050	0.050 mg/L		< 0.050				20	
Potassium, dissolved	4.91	0.10 mg/L		4.88			< 1	20	
Selenium, dissolved	0.00929	0.00050 mg/L		0.00917			1	20	
Silicon, dissolved	11.0	1.0 mg/L		10.8			2	20	
Silver, dissolved	< 0.000050	0.000050 mg/L		< 0.000050				20	
Sodium, dissolved	37.3	0.10 mg/L		37.7			< 1	20	
Strontium, dissolved	1.49	0.0010 mg/L		1.49			< 1	20	
Sulfur, dissolved	109	3.0 mg/L		108			< 1	20	
Tellurium, dissolved	< 0.00050	0.00050 mg/L		< 0.00050				20	
Thallium, dissolved	< 0.000020	0.000020 mg/L		< 0.000020				20	
Thorium, dissolved	< 0.00010	0.00010 mg/L		< 0.00010				20	
Tin, dissolved	< 0.00020	0.00020 mg/L		< 0.00020				20	
Titanium, dissolved	< 0.0050	0.0050 mg/L		< 0.0050				20	
Tungsten, dissolved	< 0.0010	0.0010 mg/L		< 0.0010				20	
Uranium, dissolved	0.00799	0.000020 mg/L		0.00793			< 1	20	
Vanadium, dissolved	< 0.0050	0.0050 mg/L		< 0.0050				20	
Zinc, dissolved	< 0.0040	0.0040 mg/L		< 0.0040				20	
Zirconium, dissolved	< 0.00010	0.00010 mg/L		< 0.00010				20	
Duplicate (B5K1816-DUP2)				Source: 25J4041-06		Prepared: 2025-11-02, Analyzed: 2025-11-02			
Aluminum, dissolved	< 0.0050	0.0050 mg/L		< 0.0050				20	
Antimony, dissolved	< 0.00020	0.00020 mg/L		< 0.00020				20	
Arsenic, dissolved	0.00103	0.00050 mg/L		0.00105				20	
Barium, dissolved	0.0784	0.0050 mg/L		0.0784			< 1	20	
Beryllium, dissolved	< 0.00010	0.00010 mg/L		< 0.00010				20	
Bismuth, dissolved	< 0.00010	0.00010 mg/L		< 0.00010				20	
Boron, dissolved	< 0.0500	0.0500 mg/L		< 0.0500				20	
Cadmium, dissolved	0.000040	0.000010 mg/L		0.000045				20	
Calcium, dissolved	136	0.20 mg/L		137			< 1	20	
Chromium, dissolved	0.00314	0.00050 mg/L		0.00313			< 1	20	
Cobalt, dissolved	< 0.00010	0.00010 mg/L		< 0.00010				20	
Copper, dissolved	< 0.00040	0.00040 mg/L		< 0.00040				20	
Iron, dissolved	< 0.010	0.010 mg/L		< 0.010				20	

APPENDIX 2: QUALITY CONTROL RESULTS

REPORTED TO PROJECT Regional District of Okanagan Similkameen
Keremeos - TLGW

WORK ORDER REPORTED 25J4041
2025-11-05 14:39

Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
Dissolved Metals, Batch B5K1816, Continued									
Duplicate (B5K1816-DUP2), Continued		Source: 25J4041-06		Prepared: 2025-11-02, Analyzed: 2025-11-02					
Lead, dissolved	< 0.00020	0.00020 mg/L		< 0.00020				20	
Lithium, dissolved	0.0146	0.00010 mg/L		0.0146			< 1	20	
Magnesium, dissolved	87.4	0.010 mg/L		87.0			< 1	20	
Manganese, dissolved	0.00028	0.00020 mg/L		0.00027				20	
Molybdenum, dissolved	0.00270	0.00010 mg/L		0.00265			2	20	
Nickel, dissolved	0.00116	0.00040 mg/L		0.00108				20	
Phosphorus, dissolved	< 0.050	0.050 mg/L		< 0.050				20	
Potassium, dissolved	4.81	0.10 mg/L		4.83			< 1	20	
Selenium, dissolved	0.00945	0.00050 mg/L		0.00927			2	20	
Silicon, dissolved	10.9	1.0 mg/L		10.9			< 1	20	
Silver, dissolved	< 0.000050	0.000050 mg/L		< 0.000050				20	
Sodium, dissolved	37.1	0.10 mg/L		36.7			1	20	
Strontium, dissolved	1.48	0.0010 mg/L		1.47			< 1	20	
Sulfur, dissolved	108	3.0 mg/L		109			< 1	20	
Tellurium, dissolved	< 0.00050	0.00050 mg/L		< 0.00050				20	
Thallium, dissolved	< 0.000020	0.000020 mg/L		< 0.000020				20	
Thorium, dissolved	< 0.00010	0.00010 mg/L		< 0.00010				20	
Tin, dissolved	< 0.00020	0.00020 mg/L		< 0.00020				20	
Titanium, dissolved	< 0.0050	0.0050 mg/L		< 0.0050				20	
Tungsten, dissolved	< 0.0010	0.0010 mg/L		< 0.0010				20	
Uranium, dissolved	0.00797	0.000020 mg/L		0.00807			1	20	
Vanadium, dissolved	< 0.0050	0.0050 mg/L		< 0.0050				20	
Zinc, dissolved	< 0.0040	0.0040 mg/L		< 0.0040				20	
Zirconium, dissolved	< 0.00010	0.00010 mg/L		< 0.00010				20	
Matrix Spike (B5K1816-MS1)		Source: 25J4041-07		Prepared: 2025-11-01, Analyzed: 2025-11-01					
Aluminum, dissolved	4.01	0.0050 mg/L	4.00	< 0.0050	100	70-130			
Antimony, dissolved	0.0424	0.00020 mg/L	0.0400	< 0.00020	106	70-130			
Arsenic, dissolved	0.417	0.00050 mg/L	0.400	0.00103	104	70-130			
Barium, dissolved	0.120	0.0050 mg/L	0.0400	0.0785	104	70-130			
Beryllium, dissolved	0.0388	0.00010 mg/L	0.0400	< 0.00010	97	70-130			
Bismuth, dissolved	0.0369	0.00010 mg/L	0.0400	< 0.00010	92	70-130			
Boron, dissolved	0.419	0.0500 mg/L	0.400	< 0.0500	93	70-130			
Cadmium, dissolved	0.0407	0.000010 mg/L	0.0400	0.000045	102	70-130			
Calcium, dissolved	137	0.20 mg/L	4.00	135	50	70-130			MS2
Chromium, dissolved	0.0432	0.00050 mg/L	0.0400	0.00319	100	70-130			
Cobalt, dissolved	0.0386	0.00010 mg/L	0.0400	< 0.00010	97	70-130			
Copper, dissolved	0.0373	0.00040 mg/L	0.0400	0.00041	92	70-130			
Iron, dissolved	4.03	0.010 mg/L	4.00	< 0.010	101	70-130			
Lead, dissolved	0.0409	0.00020 mg/L	0.0400	< 0.00020	102	70-130			
Lithium, dissolved	0.0553	0.00010 mg/L	0.0400	0.0149	101	70-130			
Magnesium, dissolved	89.9	0.010 mg/L	4.00	88.3	41	70-130			MS2
Manganese, dissolved	0.0401	0.00020 mg/L	0.0400	0.00028	100	70-130			
Molybdenum, dissolved	0.0441	0.00010 mg/L	0.0400	0.00272	103	70-130			
Nickel, dissolved	0.0393	0.00040 mg/L	0.0400	0.00109	96	70-130			
Phosphorus, dissolved	4.24	0.050 mg/L	4.00	< 0.050	106	70-130			
Potassium, dissolved	8.77	0.10 mg/L	4.00	5.00	94	70-130			
Selenium, dissolved	0.425	0.00050 mg/L	0.400	0.00938	104	70-130			
Silicon, dissolved	14.3	1.0 mg/L	4.00	10.8	88	70-130			
Silver, dissolved	0.0309	0.000050 mg/L	0.0400	< 0.000050	77	70-130			
Sodium, dissolved	40.8	0.10 mg/L	4.00	38.1	69	70-130			MS2
Strontium, dissolved	1.50	0.0010 mg/L	0.0400	1.51	NR	70-130			MS2
Sulfur, dissolved	144	3.0 mg/L	40.0	107	91	70-130			
Tellurium, dissolved	0.0407	0.00050 mg/L	0.0400	< 0.00050	102	70-130			
Thallium, dissolved	0.0416	0.000020 mg/L	0.0400	< 0.000020	104	70-130			
Thorium, dissolved	0.0427	0.00010 mg/L	0.0400	< 0.00010	107	70-130			

APPENDIX 2: QUALITY CONTROL RESULTS

REPORTED TO PROJECT Regional District of Okanagan Similkameen
Keremeos - TLGW

WORK ORDER REPORTED 25J4041
2025-11-05 14:39

Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier

Dissolved Metals, Batch B5K1816, Continued

Matrix Spike (B5K1816-MS1), Continued		Source: 25J4041-07		Prepared: 2025-11-01, Analyzed: 2025-11-01					
Tin, dissolved	0.0423	0.00020 mg/L	0.0400	< 0.00020	106	70-130			
Titanium, dissolved	0.0419	0.0050 mg/L	0.0400	< 0.0050	105	70-130			
Tungsten, dissolved	0.0422	0.0010 mg/L	0.0400	< 0.0010	105	70-130			
Uranium, dissolved	0.0505	0.000020 mg/L	0.0400	0.00796	106	70-130			
Vanadium, dissolved	0.0416	0.0050 mg/L	0.0400	< 0.0050	101	70-130			
Zinc, dissolved	0.386	0.0040 mg/L	0.400	< 0.0040	96	70-130			
Zirconium, dissolved	0.0434	0.00010 mg/L	0.0400	< 0.00010	108	70-130			

Dissolved Metals, Batch B5K1876

Blank (B5K1876-BLK1)		Prepared: 2025-11-03, Analyzed: 2025-11-03							
Mercury, dissolved	< 0.000010	0.000010 mg/L							
Blank (B5K1876-BLK2)		Prepared: 2025-11-03, Analyzed: 2025-11-03							
Mercury, dissolved	< 0.000010	0.000010 mg/L							
Blank (B5K1876-BLK3)		Prepared: 2025-11-03, Analyzed: 2025-11-03							
Mercury, dissolved	< 0.000010	0.000010 mg/L							
Blank (B5K1876-BLK4)		Prepared: 2025-11-03, Analyzed: 2025-11-03							
Mercury, dissolved	< 0.000010	0.000010 mg/L							
LCS (B5K1876-BS1)		Prepared: 2025-11-03, Analyzed: 2025-11-03							
Mercury, dissolved	0.00258	0.000010 mg/L	0.00250		103	80-120			
LCS (B5K1876-BS2)		Prepared: 2025-11-03, Analyzed: 2025-11-03							
Mercury, dissolved	0.00270	0.000010 mg/L	0.00250		108	80-120			
LCS (B5K1876-BS3)		Prepared: 2025-11-03, Analyzed: 2025-11-03							
Mercury, dissolved	0.00237	0.000010 mg/L	0.00250		95	80-120			
LCS (B5K1876-BS4)		Prepared: 2025-11-03, Analyzed: 2025-11-03							
Mercury, dissolved	0.00275	0.000010 mg/L	0.00250		110	80-120			
Duplicate (B5K1876-DUP1)		Source: 25J4041-01		Prepared: 2025-11-03, Analyzed: 2025-11-03					
Mercury, dissolved	< 0.000010	0.000010 mg/L		< 0.000010				20	

General Parameters, Batch B5J5466

Blank (B5J5466-BLK1)		Prepared: 2025-10-31, Analyzed: 2025-10-31							
Chemical Oxygen Demand	< 20	20 mg/L							
LCS (B5J5466-BS1)		Prepared: 2025-10-31, Analyzed: 2025-10-31							
Chemical Oxygen Demand	501	20 mg/L	500		100	89-115			

General Parameters, Batch B5J5551

Blank (B5J5551-BLK1)		Prepared: 2025-10-31, Analyzed: 2025-10-31							
Alkalinity, Total (as CaCO ₃)	< 1.0	1.0 mg/L							
Alkalinity, Phenolphthalein (as CaCO ₃)	< 1.0	1.0 mg/L							
Alkalinity, Bicarbonate (as CaCO ₃)	< 1.0	1.0 mg/L							
Alkalinity, Carbonate (as CaCO ₃)	< 1.0	1.0 mg/L							
Alkalinity, Hydroxide (as CaCO ₃)	< 1.0	1.0 mg/L							
Conductivity (EC)	< 2.0	2.0 µS/cm							

APPENDIX 2: QUALITY CONTROL RESULTS

REPORTED TO PROJECT Regional District of Okanagan Similkameen
Keremeos - TLGW

WORK ORDER REPORTED 25J4041
2025-11-05 14:39

Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier

General Parameters, Batch B5J5551, Continued

Blank (B5J5551-BLK2)

Prepared: 2025-10-31, Analyzed: 2025-10-31

Alkalinity, Total (as CaCO ₃)	< 1.0	1.0 mg/L
Alkalinity, Phenolphthalein (as CaCO ₃)	< 1.0	1.0 mg/L
Alkalinity, Bicarbonate (as CaCO ₃)	< 1.0	1.0 mg/L
Alkalinity, Carbonate (as CaCO ₃)	< 1.0	1.0 mg/L
Alkalinity, Hydroxide (as CaCO ₃)	< 1.0	1.0 mg/L
Conductivity (EC)	< 2.0	2.0 µS/cm

Blank (B5J5551-BLK3)

Prepared: 2025-10-31, Analyzed: 2025-10-31

Alkalinity, Total (as CaCO ₃)	< 1.0	1.0 mg/L
Alkalinity, Phenolphthalein (as CaCO ₃)	< 1.0	1.0 mg/L
Alkalinity, Bicarbonate (as CaCO ₃)	< 1.0	1.0 mg/L
Alkalinity, Carbonate (as CaCO ₃)	< 1.0	1.0 mg/L
Alkalinity, Hydroxide (as CaCO ₃)	< 1.0	1.0 mg/L
Conductivity (EC)	< 2.0	2.0 µS/cm

General Parameters, Batch B5K1878

Blank (B5K1878-BLK1)

Prepared: 2025-11-04, Analyzed: 2025-11-04

Ammonia, Total (as N)	< 0.050	0.050 mg/L

Blank (B5K1878-BLK2)

Prepared: 2025-11-04, Analyzed: 2025-11-04

Ammonia, Total (as N)	< 0.050	0.050 mg/L

LCS (B5K1878-BS1)

Prepared: 2025-11-04, Analyzed: 2025-11-04

Ammonia, Total (as N)	0.949	0.050 mg/L	1.00	95	85-115

LCS (B5K1878-BS2)

Prepared: 2025-11-04, Analyzed: 2025-11-04

Ammonia, Total (as N)	0.993	0.050 mg/L	1.00	99	85-115

Total Metals, Batch B5J5561

Blank (B5J5561-BLK1)

Prepared: 2025-10-31, Analyzed: 2025-10-31

Aluminum, total	< 0.0050	0.0050 mg/L
Antimony, total	< 0.00020	0.00020 mg/L
Arsenic, total	< 0.00050	0.00050 mg/L
Barium, total	< 0.0050	0.0050 mg/L
Beryllium, total	< 0.00010	0.00010 mg/L
Bismuth, total	< 0.00010	0.00010 mg/L
Boron, total	< 0.0500	0.0500 mg/L
Cadmium, total	< 0.000010	0.000010 mg/L
Calcium, total	< 0.20	0.20 mg/L
Chromium, total	< 0.00050	0.00050 mg/L
Cobalt, total	< 0.00010	0.00010 mg/L
Copper, total	< 0.00040	0.00040 mg/L
Iron, total	< 0.010	0.010 mg/L
Lead, total	< 0.00020	0.00020 mg/L
Lithium, total	< 0.00010	0.00010 mg/L
Magnesium, total	< 0.010	0.010 mg/L
Manganese, total	< 0.00020	0.00020 mg/L
Molybdenum, total	< 0.00010	0.00010 mg/L
Nickel, total	< 0.00040	0.00040 mg/L
Phosphorus, total	< 0.050	0.050 mg/L
Potassium, total	< 0.10	0.10 mg/L
Selenium, total	< 0.00050	0.00050 mg/L
Silicon, total	< 1.0	1.0 mg/L
Silver, total	< 0.000050	0.000050 mg/L

APPENDIX 2: QUALITY CONTROL RESULTS

REPORTED TO PROJECT Regional District of Okanagan Similkameen
Keremeos - TLGW

WORK ORDER REPORTED 25J4041
2025-11-05 14:39

Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
Total Metals, Batch B5J5561, Continued									
Blank (B5J5561-BLK1), Continued				Prepared: 2025-10-31, Analyzed: 2025-10-31					
Sodium, total	< 0.10	0.10 mg/L							
Strontium, total	< 0.0010	0.0010 mg/L							
Sulfur, total	< 3.0	3.0 mg/L							
Tellurium, total	< 0.00050	0.00050 mg/L							
Thallium, total	< 0.000020	0.000020 mg/L							
Thorium, total	< 0.00010	0.00010 mg/L							
Tin, total	< 0.00020	0.00020 mg/L							
Titanium, total	< 0.0050	0.0050 mg/L							
Tungsten, total	< 0.0010	0.0010 mg/L							
Uranium, total	< 0.000020	0.000020 mg/L							
Vanadium, total	< 0.0050	0.0050 mg/L							
Zinc, total	< 0.0040	0.0040 mg/L							
Zirconium, total	< 0.00010	0.00010 mg/L							
LCS (B5J5561-BS1)				Prepared: 2025-10-31, Analyzed: 2025-10-31					
Aluminum, total	3.89	0.0050 mg/L	4.00		97	80-120			
Antimony, total	0.0387	0.00020 mg/L	0.0400		97	80-120			
Arsenic, total	0.391	0.00050 mg/L	0.400		98	80-120			
Barium, total	0.0391	0.0050 mg/L	0.0400		98	80-120			
Beryllium, total	0.0390	0.00010 mg/L	0.0400		98	80-120			
Bismuth, total	0.0384	0.00010 mg/L	0.0400		96	80-120			
Boron, total	0.404	0.0500 mg/L	0.400		101	80-120			
Cadmium, total	0.0386	0.000010 mg/L	0.0400		96	80-120			
Calcium, total	4.07	0.20 mg/L	4.00		102	80-120			
Chromium, total	0.0395	0.00050 mg/L	0.0400		99	80-120			
Cobalt, total	0.0395	0.00010 mg/L	0.0400		99	80-120			
Copper, total	0.0391	0.00040 mg/L	0.0400		98	80-120			
Iron, total	4.00	0.010 mg/L	4.00		100	80-120			
Lead, total	0.0384	0.00020 mg/L	0.0400		96	80-120			
Lithium, total	0.0387	0.00010 mg/L	0.0400		97	80-120			
Magnesium, total	3.91	0.010 mg/L	4.00		98	80-120			
Manganese, total	0.0395	0.00020 mg/L	0.0400		99	80-120			
Molybdenum, total	0.0393	0.00010 mg/L	0.0400		98	80-120			
Nickel, total	0.0395	0.00040 mg/L	0.0400		99	80-120			
Phosphorus, total	3.87	0.050 mg/L	4.00		97	80-120			
Potassium, total	3.91	0.10 mg/L	4.00		98	80-120			
Selenium, total	0.396	0.00050 mg/L	0.400		99	80-120			
Silicon, total	4.0	1.0 mg/L	4.00		100	80-120			
Silver, total	0.0399	0.000050 mg/L	0.0400		100	80-120			
Sodium, total	3.95	0.10 mg/L	4.00		99	80-120			
Strontium, total	0.0397	0.0010 mg/L	0.0400		99	80-120			
Sulfur, total	40.0	3.0 mg/L	40.0		100	80-120			
Tellurium, total	0.0384	0.00050 mg/L	0.0400		96	80-120			
Thallium, total	0.0379	0.000020 mg/L	0.0400		95	80-120			
Thorium, total	0.0385	0.00010 mg/L	0.0400		96	80-120			
Tin, total	0.0392	0.00020 mg/L	0.0400		98	80-120			
Titanium, total	0.0395	0.0050 mg/L	0.0400		99	80-120			
Tungsten, total	0.0388	0.0010 mg/L	0.0400		97	80-120			
Uranium, total	0.0399	0.000020 mg/L	0.0400		100	80-120			
Vanadium, total	0.0395	0.0050 mg/L	0.0400		99	80-120			
Zinc, total	0.389	0.0040 mg/L	0.400		97	80-120			
Zirconium, total	0.0387	0.00010 mg/L	0.0400		97	80-120			

Matrix Spike (B5J5561-MS1)		Source: 25J4041-05		Prepared: 2025-10-31, Analyzed: 2025-10-31					
Aluminum, total	3.95	0.0050 mg/L	4.00	< 0.0050	99	70-130			
Antimony, total	0.0420	0.00020 mg/L	0.0400	< 0.00020	105	70-130			
Arsenic, total	0.407	0.00050 mg/L	0.400	0.00108	101	70-130			

APPENDIX 2: QUALITY CONTROL RESULTS

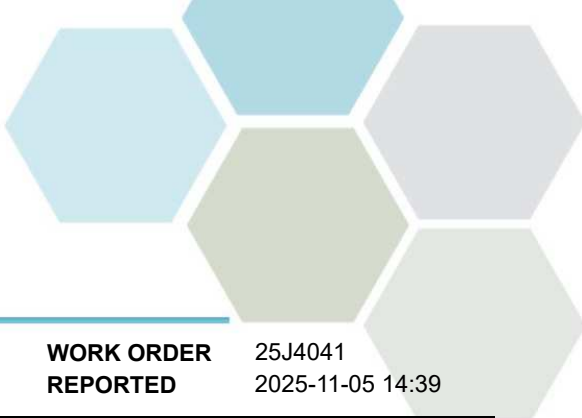
REPORTED TO PROJECT Regional District of Okanagan Similkameen
Keremeos - TLGW

WORK ORDER REPORTED 25J4041
2025-11-05 14:39

Analyte	Result	RL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
Total Metals, Batch B5J5561, Continued									
Matrix Spike (B5J5561-MS1), Continued		Source: 25J4041-05		Prepared: 2025-10-31, Analyzed: 2025-10-31					
Barium, total	0.115	0.0050 mg/L	0.0400	0.0753	100	70-130			
Beryllium, total	0.0379	0.00010 mg/L	0.0400	< 0.00010	95	70-130			
Bismuth, total	0.0373	0.00010 mg/L	0.0400	< 0.00010	93	70-130			
Boron, total	0.437	0.0500 mg/L	0.400	< 0.0500	98	70-130			
Cadmium, total	0.0398	0.000010 mg/L	0.0400	0.000046	99	70-130			
Calcium, total	137	0.20 mg/L	4.00	139	NR	70-130			MS2
Chromium, total	0.0422	0.00050 mg/L	0.0400	0.00321	98	70-130			
Cobalt, total	0.0379	0.00010 mg/L	0.0400	< 0.00010	94	70-130			
Copper, total	0.0367	0.00040 mg/L	0.0400	0.00045	91	70-130			
Iron, total	3.90	0.010 mg/L	4.00	< 0.010	97	70-130			
Lead, total	0.0384	0.00020 mg/L	0.0400	< 0.00020	96	70-130			
Lithium, total	0.0522	0.00010 mg/L	0.0400	0.0145	94	70-130			
Magnesium, total	87.7	0.010 mg/L	4.00	87.6	2	70-130			MS2
Manganese, total	0.0395	0.00020 mg/L	0.0400	0.00067	97	70-130			
Molybdenum, total	0.0463	0.00010 mg/L	0.0400	0.00292	108	70-130			
Nickel, total	0.0383	0.00040 mg/L	0.0400	0.00114	93	70-130			
Phosphorus, total	4.14	0.050 mg/L	4.00	< 0.050	103	70-130			
Potassium, total	8.40	0.10 mg/L	4.00	4.79	90	70-130			
Selenium, total	0.417	0.00050 mg/L	0.400	0.00934	102	70-130			
Silicon, total	15.1	1.0 mg/L	4.00	11.5	90	70-130			
Silver, total	0.0391	0.000050 mg/L	0.0400	< 0.000050	98	70-130			
Sodium, total	39.8	0.10 mg/L	4.00	37.7	51	70-130			MS2
Strontium, total	1.43	0.0010 mg/L	0.0400	1.44	NR	70-130			MS2
Sulfur, total	151	3.0 mg/L	40.0	115	90	70-130			
Tellurium, total	0.0425	0.00050 mg/L	0.0400	< 0.00050	106	70-130			
Thallium, total	0.0377	0.000020 mg/L	0.0400	< 0.000020	94	70-130			
Thorium, total	0.0400	0.00010 mg/L	0.0400	< 0.00010	100	70-130			
Tin, total	0.0427	0.00020 mg/L	0.0400	< 0.00020	107	70-130			
Titanium, total	0.0415	0.0050 mg/L	0.0400	< 0.0050	104	70-130			
Tungsten, total	0.0421	0.0010 mg/L	0.0400	< 0.0010	105	70-130			
Uranium, total	0.0493	0.000020 mg/L	0.0400	0.00820	103	70-130			
Vanadium, total	0.0417	0.0050 mg/L	0.0400	< 0.0050	101	70-130			
Zinc, total	0.374	0.0040 mg/L	0.400	< 0.0040	93	70-130			
Zirconium, total	0.0427	0.00010 mg/L	0.0400	< 0.00010	107	70-130			

Total Metals, Batch B5K1876

Blank (B5K1876-BLK1)			Prepared: 2025-11-03, Analyzed: 2025-11-03						
Mercury, total	< 0.000010	0.000010 mg/L							
Blank (B5K1876-BLK2)			Prepared: 2025-11-03, Analyzed: 2025-11-03						
Mercury, total	< 0.000010	0.000010 mg/L							
Blank (B5K1876-BLK3)			Prepared: 2025-11-03, Analyzed: 2025-11-03						
Mercury, total	< 0.000010	0.000010 mg/L							
Blank (B5K1876-BLK4)			Prepared: 2025-11-03, Analyzed: 2025-11-03						
Mercury, total	< 0.000010	0.000010 mg/L							
LCS (B5K1876-BS1)			Prepared: 2025-11-03, Analyzed: 2025-11-03						
Mercury, total	0.00258	0.000010 mg/L	0.00250		103	80-120			
LCS (B5K1876-BS2)			Prepared: 2025-11-03, Analyzed: 2025-11-03						
Mercury, total	0.00270	0.000010 mg/L	0.00250		108	80-120			
LCS (B5K1876-BS3)			Prepared: 2025-11-03, Analyzed: 2025-11-03						
Mercury, total	0.00237	0.000010 mg/L	0.00250		95	80-120			



APPENDIX 2: QUALITY CONTROL RESULTS

REPORTED TO PROJECT		Regional District of Okanagan Similkameen Keremeos - TLGW				WORK ORDER REPORTED		25J4041 2025-11-05 14:39		
Analyte	Result	RL	Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
Total Metals, Batch B5K1876, Continued										
LCS (B5K1876-BS4)					Prepared: 2025-11-03, Analyzed: 2025-11-03					
Mercury, total	0.00275	0.000010	mg/L	0.00250		110	80-120			

QC Qualifiers:

MS2 The native sample concentration is greater than the spike concentration hence the matrix spike limits do not apply.

CERTIFICATE OF ANALYSIS

REPORTED TO	Regional District of Okanagan Similkameen 101 Martin Street Penticton, BC V2A 5J9	WORK ORDER	25J4044
ATTENTION	Rob Palmer	RECEIVED / TEMP	2025-10-29 10:43 / 7°C
PO NUMBER	20259001- TLDW	REPORTED	2025-11-05 08:29
PROJECT	Keremeos - TLDW	COC NUMBER	eCOC#00029455
PROJECT INFO			

Introduction:

CARO Analytical Services is a testing laboratory full of smart, engaged scientists driven to make the world a safer and healthier place. Through our clients' projects we become an essential element for a better world. We employ methods conducted in accordance with recognized professional standards using accepted testing methodologies and quality control efforts. CARO is accredited by the Canadian Association for Laboratories Accreditation (CALA) to ISO/IEC 17025:2017 for specific tests listed in the scope of accreditation approved by CALA.

Big Picture Sidekicks



You know that the sample you collected after snowshoeing to site, digging 5 meters, and racing to get it on a plane so you can submit it to the lab for time sensitive results needed to make important and expensive decisions (whew) is VERY important. We know that too.

We've Got Chemistry



It's simple. We figure the more you enjoy working with our fun and engaged team members; the more likely you are to give us continued opportunities to support you.

Ahead of the Curve



Through research, regulation knowledge, and instrumentation, we are your analytical centre for the technical knowledge you need, BEFORE you need it, so you can stay up to date and in the know.

Work Order Comments:

Custody Seals Intact: N/A

By engaging our services, you are agreeing to CARO Analytical Service's Standard Terms and Conditions outlined here:
<https://www.caro.ca/terms-conditions>

If you have any questions or concerns, please contact me at hhannaoui@caro.ca

Authorized By:

Hanane El Hannaoui
Junior Account Manager

1-888-311-8846 | www.caro.ca

#110 4011 Viking Way Richmond, BC V6V 2K9 | #102 3677 Highway 97N Kelowna, BC V1X 5C3 | 17225 109 Avenue Edmonton, AB T5S 1H7 |
#108 4475 Wayburne Drive Burnaby, BC V5G 4X4

TEST RESULTS

REPORTED TO PROJECT Regional District of Okanagan Similkameen
Keremeos - TLDW

CARO WO# REPORTED 25J4044
2025-11-05 08:29

Analyte	Result	Guideline	RL Units	Analyzed	Qualifier
848 El Rancho Rd (25J4044-01) Matrix: Drinking Water Sampled: 2025-10-28 16:00					
Anions					
Bromide	< 0.10	N/A	0.10 mg/L	2025-10-30	
Chloride	23.8	AO ≤ 250	0.10 mg/L	2025-10-30	
Fluoride	0.13	MAC = 1.5	0.10 mg/L	2025-10-30	
Nitrate (as N)	5.23	MAC = 10	0.010 mg/L	2025-10-30	
Nitrite (as N)	< 0.010	MAC = 1	0.010 mg/L	2025-10-30	
Sulfate	262	AO ≤ 500	1.0 mg/L	2025-10-30	RE2
Calculated Parameters					
Bicarbonate (HCO ₃)	474	N/A	1.22 mg/L	N/A	
Carbonate (CO ₃)	< 0.600	N/A	0.600 mg/L	N/A	
Hydroxide (OH)	< 0.340	N/A	0.340 mg/L	N/A	
Hardness, Dissolved (as CaCO ₃)	630	N/A	0.500 mg/L	N/A	
Nitrate+Nitrite (as N)	5.23	N/A	0.0100 mg/L	N/A	
Dissolved Metals					
Aluminum, dissolved	< 0.0050	N/A	0.0050 mg/L	2025-11-01	
Antimony, dissolved	< 0.00020	N/A	0.00020 mg/L	2025-11-01	
Arsenic, dissolved	0.00119	N/A	0.00050 mg/L	2025-11-01	
Barium, dissolved	0.0683	N/A	0.0050 mg/L	2025-11-01	
Beryllium, dissolved	< 0.00010	N/A	0.00010 mg/L	2025-11-01	
Bismuth, dissolved	< 0.00010	N/A	0.00010 mg/L	2025-11-01	
Boron, dissolved	< 0.0500	N/A	0.0500 mg/L	2025-11-01	
Cadmium, dissolved	0.000041	N/A	0.000010 mg/L	2025-11-01	
Calcium, dissolved	118	N/A	0.20 mg/L	2025-11-01	
Chromium, dissolved	0.00290	N/A	0.00050 mg/L	2025-11-01	
Cobalt, dissolved	< 0.00010	N/A	0.00010 mg/L	2025-11-01	
Copper, dissolved	0.00474	N/A	0.00040 mg/L	2025-11-01	
Iron, dissolved	< 0.010	N/A	0.010 mg/L	2025-11-01	
Lead, dissolved	< 0.00020	N/A	0.00020 mg/L	2025-11-01	
Lithium, dissolved	0.0150	N/A	0.00010 mg/L	2025-11-01	
Magnesium, dissolved	81.2	N/A	0.010 mg/L	2025-11-01	
Manganese, dissolved	0.00079	N/A	0.00020 mg/L	2025-11-01	
Mercury, dissolved	< 0.000010	N/A	0.000010 mg/L	2025-11-03	
Molybdenum, dissolved	0.00271	N/A	0.00010 mg/L	2025-11-01	
Nickel, dissolved	0.00114	N/A	0.00040 mg/L	2025-11-01	
Phosphorus, dissolved	< 0.050	N/A	0.050 mg/L	2025-11-01	
Potassium, dissolved	4.60	N/A	0.10 mg/L	2025-11-01	
Selenium, dissolved	0.00696	N/A	0.00050 mg/L	2025-11-01	
Silicon, dissolved	10.9	N/A	1.0 mg/L	2025-11-01	
Silver, dissolved	< 0.000050	N/A	0.000050 mg/L	2025-11-01	
Sodium, dissolved	34.6	N/A	0.10 mg/L	2025-11-01	
Strontium, dissolved	1.36	N/A	0.0010 mg/L	2025-11-01	
Sulfur, dissolved	89.3	N/A	3.0 mg/L	2025-11-01	
Tellurium, dissolved	< 0.00050	N/A	0.00050 mg/L	2025-11-01	

TEST RESULTS

REPORTED TO PROJECT Regional District of Okanagan Similkameen
Keremeos - TLDW

CARO WO# REPORTED 25J4044
2025-11-05 08:29

Analyte	Result	Guideline	RL Units	Analyzed	Qualifier
848 El Rancho Rd (25J4044-01) Matrix: Drinking Water Sampled: 2025-10-28 16:00, Continued					
<i>Dissolved Metals, Continued</i>					
Thallium, dissolved	< 0.000020	N/A	0.000020 mg/L	2025-11-01	
Thorium, dissolved	< 0.00010	N/A	0.00010 mg/L	2025-11-01	
Tin, dissolved	< 0.00020	N/A	0.00020 mg/L	2025-11-01	
Titanium, dissolved	< 0.0050	N/A	0.0050 mg/L	2025-11-01	
Tungsten, dissolved	< 0.0010	N/A	0.0010 mg/L	2025-11-01	
Uranium, dissolved	0.00616	N/A	0.000020 mg/L	2025-11-01	
Vanadium, dissolved	< 0.0050	N/A	0.0050 mg/L	2025-11-01	
Zinc, dissolved	0.0142	N/A	0.0040 mg/L	2025-11-01	
Zirconium, dissolved	< 0.00010	N/A	0.00010 mg/L	2025-11-01	
<i>General Parameters</i>					
Alkalinity, Total (as CaCO ₃)	389	N/A	1.0 mg/L	2025-11-01	
Alkalinity, Phenolphthalein (as CaCO ₃)	< 1.0	N/A	1.0 mg/L	2025-11-01	
Alkalinity, Bicarbonate (as CaCO ₃)	389	N/A	1.0 mg/L	2025-11-01	
Alkalinity, Carbonate (as CaCO ₃)	< 1.0	N/A	1.0 mg/L	2025-11-01	
Alkalinity, Hydroxide (as CaCO ₃)	< 1.0	N/A	1.0 mg/L	2025-11-01	
Ammonia, Total (as N)	< 0.050	None Required	0.050 mg/L	2025-11-04	
Chemical Oxygen Demand	< 20	N/A	20 mg/L	2025-11-01	
Conductivity (EC)	1230	N/A	2.0 µS/cm	2025-11-01	
pH	8.04	7.0-10.5	0.10 pH units	2025-11-01	HT2

Sample Qualifiers:

HT2 The 15 minute recommended holding time (from sampling to analysis) has been exceeded - field analysis is recommended.

RE2 Result was confirmed by re-analysis prior to reporting.

APPENDIX 1: SUPPORTING INFORMATION

REPORTED TO PROJECT Regional District of Okanagan Similkameen
Keremeos - TLDW

CARO WO# REPORTED 25J4044
2025-11-05 08:29

Analysis Description	Method Ref.	Technique	Accredited	Location
Alkalinity in Water	SM 2320 B* (2021)	Titration with H2SO4	✓	Kelowna
Ammonia, Total in Water	SM 4500-NH3 G* (2021)	Automated Colorimetry (Phenate)	✓	Kelowna
Anions in Water	SM 4110 B (2020)	Ion Chromatography	✓	Kelowna
Chemical Oxygen Demand in Water	SM 5220 D* (2022)	Closed Reflux, Colorimetry	✓	Kelowna
Conductivity in Water	SM 2510 B (2021)	Conductivity Meter	✓	Kelowna
Dissolved Metals in Water	EPA 200.8 / EPA 6020B	0.45 µm Filtration / Inductively Coupled Plasma-Mass Spectroscopy (ICP-MS)	✓	Richmond
Hardness in Water	SM 2340 B (2021)	Calculation: 2.497 [diss Ca] + 4.118 [diss Mg]	✓	N/A
Mercury, dissolved in Water	EPA 245.7*	BrCl2 Oxidation / Cold Vapor Atomic Fluorescence Spectrometry (CVAFS)	✓	Richmond
pH in Water	SM 4500-H+ B (2021)	Electrometry	✓	Kelowna

Note: An asterisk in the Method Reference indicates that the CARO method has been modified from the reference method

Glossary of Terms:

RL	Reporting Limit (default)
<	Less than the specified Reporting Limit (RL) - the actual RL may be higher than the default RL due to various factors
AO	Aesthetic Objective
MAC	Maximum Acceptable Concentration (health based)
mg/L	Milligrams per litre
pH units	pH < 7 = acidic, pH > 7 = basic
µS/cm	Microsiemens per centimetre
EPA	United States Environmental Protection Agency Test Methods
SM	Standard Methods for the Examination of Water and Wastewater, American Public Health Association

Guidelines Referenced in this Report:

[Guidelines for Canadian Drinking Water Quality \(Health Canada\)](#)

Note: In some cases, the values displayed on the report represent the lowest guideline and are to be verified by the end user

APPENDIX 1: SUPPORTING INFORMATION

REPORTED TO PROJECT Regional District of Okanagan Similkameen
Keremeos - TLDW

CARO WO# 25J4044
REPORTED 2025-11-05 08:29

General Comments:

The results in this report apply to the received samples analyzed in accordance with the Chain of Custody document. This analytical report must be reproduced in its entirety. CARO is not responsible for any loss or damage resulting directly or indirectly from error or omission in the conduct of testing. Liability is limited to the cost of analysis. Samples will be disposed of 30 days after the test report has been issued or once samples expire, whichever comes first. Longer hold is possible if agreed to in writing.

Results in **Bold** indicate values that are above CARO's method reporting limits. Any results that are above regulatory limits are highlighted **red**. Please note that results will only be highlighted red if the regulatory limits are included on the CARO report. Any Bold and/or highlighted results do not take into account method uncertainty. If you would like method uncertainty or regulatory limits to be included on your report, please contact your Account Manager: [{@Email}](#)

Please note any regulatory guidelines applied to this report are added as a convenience to the client, at their request, to help provide some initial context to analytical results obtained. Although CARO makes every effort to ensure accuracy of the associated regulatory guideline(s) applied, the guidelines applied cannot be assumed to be correct due to a variety of factors and as such CARO Analytical Services assumes no liability or responsibility for the use of those guidelines to make any decisions. The original source of the regulation should be verified and a review of the guideline(s) should be validated as correct in order to make any decisions arising from the comparison of the analytical data obtained to the relevant regulatory guideline for one's particular circumstances. Further, CARO Analytical Services assumes no liability

APPENDIX 2: QUALITY CONTROL RESULTS

REPORTED TO PROJECT Regional District of Okanagan Similkameen
Keremeos - TLDW

CARO WO# 25J4044
REPORTED 2025-11-05 08:29

The following section displays the quality control (QC) data that is associated with your sample data. Groups of samples are prepared in "batches" and analyzed in conjunction with QC samples that ensure your data is of the highest quality. Common QC types include:

- **Method Blank (Blk):** A blank sample that undergoes sample processing identical to that carried out for the test samples. Method blank results are used to assess contamination from the laboratory environment and reagents.
- **Duplicate (Dup):** An additional or second portion of a randomly selected sample in the analytical run carried through the entire analytical process. Duplicates provide a measure of the analytical method's precision (reproducibility).
- **Blank Spike (BS):** A sample of known concentration which undergoes processing identical to that carried out for test samples, also referred to as a laboratory control sample (LCS). Blank spikes provide a measure of the analytical method's accuracy.
- **Matrix Spike (MS):** A second aliquot of sample is fortified with a known concentration of target analytes and carried through the entire analytical process. Matrix spikes evaluate potential matrix effects that may affect the analyte recovery.
- **Reference Material (SRM):** A homogenous material of similar matrix to the samples, certified for the parameter(s) listed. Reference Materials ensure that the analytical process is adequate to achieve acceptable recoveries of the parameter(s) tested.

Each QC type is analyzed at a 5-10% frequency, i.e. one blank/duplicate/spike for every 10-20 samples. For all types of QC, the specified recovery (% Rec) and relative percent difference (RPD) limits are derived from long-term method performance averages and/or prescribed by the reference method.

Analyte	Result	MRL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Notes

Anions, Batch B5J5300

Blank (B5J5300-BLK2)			Prepared: 2025-10-30, Analyzed: 2025-10-30						
Bromide	< 0.10	0.10 mg/L							
Chloride	< 0.10	0.10 mg/L							
Fluoride	< 0.10	0.10 mg/L							
Nitrate (as N)	< 0.010	0.010 mg/L							
Nitrite (as N)	< 0.010	0.010 mg/L							
Sulfate	< 1.0	1.0 mg/L							
LCS (B5J5300-BS1)			Prepared: 2025-10-30, Analyzed: 2025-10-30						
Bromide	4.01	0.10 mg/L	4.00		100	85-115			
Chloride	16.8	0.10 mg/L	16.0		105	90-110			
Fluoride	3.95	0.10 mg/L	4.00		99	88-108			
Nitrate (as N)	4.13	0.010 mg/L	4.00		103	90-110			
Nitrite (as N)	2.00	0.010 mg/L	2.00		100	85-115			
Sulfate	15.6	1.0 mg/L	16.0		98	90-110			
LCS (B5J5300-BS2)			Prepared: 2025-10-30, Analyzed: 2025-10-30						
Bromide	3.94	0.10 mg/L	4.00		98	85-115			
Chloride	16.2	0.10 mg/L	16.0		101	90-110			
Fluoride	3.79	0.10 mg/L	4.00		95	88-108			
Nitrate (as N)	4.14	0.010 mg/L	4.00		104	90-110			
Nitrite (as N)	1.99	0.010 mg/L	2.00		100	85-115			
Sulfate	16.4	1.0 mg/L	16.0		103	90-110			

Dissolved Metals, Batch B5K1816

Blank (B5K1816-BLK1)			Prepared: 2025-11-01, Analyzed: 2025-11-01						
Aluminum, dissolved	< 0.0050	0.0050 mg/L							
Antimony, dissolved	< 0.00020	0.00020 mg/L							
Arsenic, dissolved	< 0.00050	0.00050 mg/L							
Barium, dissolved	< 0.0050	0.0050 mg/L							
Beryllium, dissolved	< 0.00010	0.00010 mg/L							
Bismuth, dissolved	< 0.00010	0.00010 mg/L							
Boron, dissolved	< 0.0500	0.0500 mg/L							
Cadmium, dissolved	< 0.000010	0.000010 mg/L							
Calcium, dissolved	< 0.20	0.20 mg/L							
Chromium, dissolved	< 0.00050	0.00050 mg/L							

APPENDIX 2: QUALITY CONTROL RESULTS

REPORTED TO PROJECT Regional District of Okanagan Similkameen
Keremeos - TLDW

CARO WO# 25J4044
REPORTED 2025-11-05 08:29

Analyte	Result	MRL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Notes
Dissolved Metals, Batch B5K1816, Continued									
Blank (B5K1816-BLK1), Continued					Prepared: 2025-11-01, Analyzed: 2025-11-01				
Cobalt, dissolved	< 0.00010	0.00010 mg/L							
Copper, dissolved	< 0.00040	0.00040 mg/L							
Iron, dissolved	< 0.010	0.010 mg/L							
Lead, dissolved	< 0.00020	0.00020 mg/L							
Lithium, dissolved	< 0.00010	0.00010 mg/L							
Magnesium, dissolved	< 0.010	0.010 mg/L							
Manganese, dissolved	< 0.00020	0.00020 mg/L							
Molybdenum, dissolved	< 0.00010	0.00010 mg/L							
Nickel, dissolved	< 0.00040	0.00040 mg/L							
Phosphorus, dissolved	< 0.050	0.050 mg/L							
Potassium, dissolved	< 0.10	0.10 mg/L							
Selenium, dissolved	< 0.00050	0.00050 mg/L							
Silicon, dissolved	< 1.0	1.0 mg/L							
Silver, dissolved	< 0.000050	0.000050 mg/L							
Sodium, dissolved	< 0.10	0.10 mg/L							
Strontium, dissolved	< 0.0010	0.0010 mg/L							
Sulfur, dissolved	< 3.0	3.0 mg/L							
Tellurium, dissolved	< 0.00050	0.00050 mg/L							
Thallium, dissolved	< 0.000020	0.000020 mg/L							
Thorium, dissolved	< 0.00010	0.00010 mg/L							
Tin, dissolved	< 0.00020	0.00020 mg/L							
Titanium, dissolved	< 0.0050	0.0050 mg/L							
Tungsten, dissolved	< 0.0010	0.0010 mg/L							
Uranium, dissolved	< 0.000020	0.000020 mg/L							
Vanadium, dissolved	< 0.0050	0.0050 mg/L							
Zinc, dissolved	< 0.0040	0.0040 mg/L							
Zirconium, dissolved	< 0.00010	0.00010 mg/L							
Blank (B5K1816-BLK2)					Prepared: 2025-11-01, Analyzed: 2025-11-01				
Aluminum, dissolved	< 0.0050	0.0050 mg/L							
Antimony, dissolved	< 0.00020	0.00020 mg/L							
Arsenic, dissolved	< 0.00050	0.00050 mg/L							
Barium, dissolved	< 0.0050	0.0050 mg/L							
Beryllium, dissolved	< 0.00010	0.00010 mg/L							
Bismuth, dissolved	< 0.00010	0.00010 mg/L							
Boron, dissolved	< 0.0500	0.0500 mg/L							
Cadmium, dissolved	< 0.000010	0.000010 mg/L							
Calcium, dissolved	< 0.20	0.20 mg/L							
Chromium, dissolved	< 0.00050	0.00050 mg/L							
Cobalt, dissolved	< 0.00010	0.00010 mg/L							
Copper, dissolved	< 0.00040	0.00040 mg/L							
Iron, dissolved	< 0.010	0.010 mg/L							
Lead, dissolved	< 0.00020	0.00020 mg/L							
Lithium, dissolved	< 0.00010	0.00010 mg/L							
Magnesium, dissolved	< 0.010	0.010 mg/L							
Manganese, dissolved	< 0.00020	0.00020 mg/L							
Molybdenum, dissolved	< 0.00010	0.00010 mg/L							
Nickel, dissolved	< 0.00040	0.00040 mg/L							
Phosphorus, dissolved	< 0.050	0.050 mg/L							
Potassium, dissolved	< 0.10	0.10 mg/L							
Selenium, dissolved	< 0.00050	0.00050 mg/L							
Silicon, dissolved	< 1.0	1.0 mg/L							
Silver, dissolved	< 0.000050	0.000050 mg/L							
Sodium, dissolved	< 0.10	0.10 mg/L							
Strontium, dissolved	< 0.0010	0.0010 mg/L							
Sulfur, dissolved	< 3.0	3.0 mg/L							

APPENDIX 2: QUALITY CONTROL RESULTS

REPORTED TO PROJECT Regional District of Okanagan Similkameen
Keremeos - TLDW

CARO WO# REPORTED 25J4044
2025-11-05 08:29

Analyte	Result	MRL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Notes
Dissolved Metals, Batch B5K1816, Continued									
Blank (B5K1816-BLK2), Continued					Prepared: 2025-11-01, Analyzed: 2025-11-01				
Tellurium, dissolved	< 0.00050	0.00050 mg/L							
Thallium, dissolved	< 0.000020	0.000020 mg/L							
Thorium, dissolved	< 0.00010	0.00010 mg/L							
Tin, dissolved	< 0.00020	0.00020 mg/L							
Titanium, dissolved	< 0.0050	0.0050 mg/L							
Tungsten, dissolved	< 0.0010	0.0010 mg/L							
Uranium, dissolved	< 0.000020	0.000020 mg/L							
Vanadium, dissolved	< 0.0050	0.0050 mg/L							
Zinc, dissolved	< 0.0040	0.0040 mg/L							
Zirconium, dissolved	< 0.00010	0.00010 mg/L							
LCS (B5K1816-BS1)					Prepared: 2025-11-01, Analyzed: 2025-11-01				
Aluminum, dissolved	4.12	0.0050 mg/L	4.00		103	80-120			
Antimony, dissolved	0.0397	0.00020 mg/L	0.0400		99	80-120			
Arsenic, dissolved	0.394	0.00050 mg/L	0.400		98	80-120			
Barium, dissolved	0.0408	0.0050 mg/L	0.0400		102	80-120			
Beryllium, dissolved	0.0408	0.00010 mg/L	0.0400		102	80-120			
Bismuth, dissolved	0.0397	0.00010 mg/L	0.0400		99	80-120			
Boron, dissolved	0.399	0.0500 mg/L	0.400		100	80-120			
Cadmium, dissolved	0.0405	0.000010 mg/L	0.0400		101	80-120			
Calcium, dissolved	3.99	0.20 mg/L	4.00		100	80-120			
Chromium, dissolved	0.0401	0.00050 mg/L	0.0400		100	80-120			
Cobalt, dissolved	0.0401	0.00010 mg/L	0.0400		100	80-120			
Copper, dissolved	0.0395	0.00040 mg/L	0.0400		99	80-120			
Iron, dissolved	4.05	0.010 mg/L	4.00		101	80-120			
Lead, dissolved	0.0405	0.00020 mg/L	0.0400		101	80-120			
Lithium, dissolved	0.0414	0.00010 mg/L	0.0400		103	80-120			
Magnesium, dissolved	4.04	0.010 mg/L	4.00		101	80-120			
Manganese, dissolved	0.0409	0.00020 mg/L	0.0400		102	80-120			
Molybdenum, dissolved	0.0403	0.00010 mg/L	0.0400		101	80-120			
Nickel, dissolved	0.0396	0.00040 mg/L	0.0400		99	80-120			
Phosphorus, dissolved	4.04	0.050 mg/L	4.00		101	80-120			
Potassium, dissolved	4.26	0.10 mg/L	4.00		107	80-120			
Selenium, dissolved	0.395	0.00050 mg/L	0.400		99	80-120			
Silicon, dissolved	4.0	1.0 mg/L	4.00		100	80-120			
Silver, dissolved	0.0404	0.000050 mg/L	0.0400		101	80-120			
Sodium, dissolved	4.32	0.10 mg/L	4.00		108	80-120			
Strontium, dissolved	0.0408	0.0010 mg/L	0.0400		102	80-120			
Sulfur, dissolved	40.0	3.0 mg/L	40.0		100	80-120			
Tellurium, dissolved	0.0394	0.00050 mg/L	0.0400		99	80-120			
Thallium, dissolved	0.0412	0.000020 mg/L	0.0400		103	80-120			
Thorium, dissolved	0.0396	0.00010 mg/L	0.0400		99	80-120			
Tin, dissolved	0.0406	0.00020 mg/L	0.0400		101	80-120			
Titanium, dissolved	0.0408	0.0050 mg/L	0.0400		102	80-120			
Tungsten, dissolved	0.0406	0.0010 mg/L	0.0400		101	80-120			
Uranium, dissolved	0.0393	0.000020 mg/L	0.0400		98	80-120			
Vanadium, dissolved	0.0403	0.0050 mg/L	0.0400		101	80-120			
Zinc, dissolved	0.396	0.0040 mg/L	0.400		99	80-120			
Zirconium, dissolved	0.0413	0.00010 mg/L	0.0400		103	80-120			
LCS (B5K1816-BS2)					Prepared: 2025-11-01, Analyzed: 2025-11-01				
Aluminum, dissolved	4.01	0.0050 mg/L	4.00		100	80-120			
Antimony, dissolved	0.0394	0.00020 mg/L	0.0400		99	80-120			
Arsenic, dissolved	0.397	0.00050 mg/L	0.400		99	80-120			
Barium, dissolved	0.0401	0.0050 mg/L	0.0400		100	80-120			
Beryllium, dissolved	0.0397	0.00010 mg/L	0.0400		99	80-120			

APPENDIX 2: QUALITY CONTROL RESULTS

REPORTED TO PROJECT Regional District of Okanagan Similkameen
Keremeos - TLDW

CARO WO# REPORTED 25J4044
2025-11-05 08:29

Analyte	Result	MRL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Notes

Dissolved Metals, Batch B5K1816, Continued

LCS (B5K1816-BS2), Continued				Prepared: 2025-11-01, Analyzed: 2025-11-01					
Bismuth, dissolved	0.0391	0.00010 mg/L	0.0400		98	80-120			
Boron, dissolved	0.382	0.0500 mg/L	0.400		96	80-120			
Cadmium, dissolved	0.0404	0.000010 mg/L	0.0400		101	80-120			
Calcium, dissolved	3.91	0.20 mg/L	4.00		98	80-120			
Chromium, dissolved	0.0402	0.00050 mg/L	0.0400		101	80-120			
Cobalt, dissolved	0.0401	0.00010 mg/L	0.0400		100	80-120			
Copper, dissolved	0.0396	0.00040 mg/L	0.0400		99	80-120			
Iron, dissolved	4.07	0.010 mg/L	4.00		102	80-120			
Lead, dissolved	0.0400	0.00020 mg/L	0.0400		100	80-120			
Lithium, dissolved	0.0399	0.00010 mg/L	0.0400		100	80-120			
Magnesium, dissolved	4.03	0.010 mg/L	4.00		101	80-120			
Manganese, dissolved	0.0406	0.00020 mg/L	0.0400		102	80-120			
Molybdenum, dissolved	0.0397	0.00010 mg/L	0.0400		99	80-120			
Nickel, dissolved	0.0400	0.00040 mg/L	0.0400		100	80-120			
Phosphorus, dissolved	3.98	0.050 mg/L	4.00		100	80-120			
Potassium, dissolved	4.03	0.10 mg/L	4.00		101	80-120			
Selenium, dissolved	0.397	0.00050 mg/L	0.400		99	80-120			
Silicon, dissolved	3.8	1.0 mg/L	4.00		96	80-120			
Silver, dissolved	0.0398	0.000050 mg/L	0.0400		100	80-120			
Sodium, dissolved	4.16	0.10 mg/L	4.00		104	80-120			
Strontium, dissolved	0.0415	0.0010 mg/L	0.0400		104	80-120			
Sulfur, dissolved	38.2	3.0 mg/L	40.0		96	80-120			
Tellurium, dissolved	0.0392	0.00050 mg/L	0.0400		98	80-120			
Thallium, dissolved	0.0410	0.000020 mg/L	0.0400		102	80-120			
Thorium, dissolved	0.0396	0.00010 mg/L	0.0400		99	80-120			
Tin, dissolved	0.0398	0.00020 mg/L	0.0400		100	80-120			
Titanium, dissolved	0.0399	0.0050 mg/L	0.0400		100	80-120			
Tungsten, dissolved	0.0404	0.0010 mg/L	0.0400		101	80-120			
Uranium, dissolved	0.0395	0.000020 mg/L	0.0400		99	80-120			
Vanadium, dissolved	0.0398	0.0050 mg/L	0.0400		100	80-120			
Zinc, dissolved	0.400	0.0040 mg/L	0.400		100	80-120			
Zirconium, dissolved	0.0409	0.00010 mg/L	0.0400		102	80-120			

Matrix Spike (B5K1816-MS2)		Source: 25J4044-01		Prepared: 2025-11-01, Analyzed: 2025-11-01					
Aluminum, dissolved	4.03	0.0050 mg/L	4.00	< 0.0050	101	70-130			
Antimony, dissolved	0.0424	0.00020 mg/L	0.0400	< 0.00020	106	70-130			
Arsenic, dissolved	0.420	0.00050 mg/L	0.400	0.00119	105	70-130			
Barium, dissolved	0.111	0.0050 mg/L	0.0400	0.0683	106	70-130			
Beryllium, dissolved	0.0391	0.00010 mg/L	0.0400	< 0.00010	98	70-130			
Bismuth, dissolved	0.0373	0.00010 mg/L	0.0400	< 0.00010	93	70-130			
Boron, dissolved	0.409	0.0500 mg/L	0.400	< 0.0500	92	70-130			
Cadmium, dissolved	0.0417	0.000010 mg/L	0.0400	0.000041	104	70-130			
Calcium, dissolved	117	0.20 mg/L	4.00	118	NR	70-130			MS2
Chromium, dissolved	0.0432	0.00050 mg/L	0.0400	0.00290	101	70-130			
Cobalt, dissolved	0.0386	0.00010 mg/L	0.0400	< 0.00010	96	70-130			
Copper, dissolved	0.0416	0.00040 mg/L	0.0400	0.00474	92	70-130			
Iron, dissolved	4.08	0.010 mg/L	4.00	0.010	102	70-130			
Lead, dissolved	0.0414	0.00020 mg/L	0.0400	< 0.00020	104	70-130			
Lithium, dissolved	0.0542	0.00010 mg/L	0.0400	0.0150	98	70-130			
Magnesium, dissolved	83.1	0.010 mg/L	4.00	81.2	48	70-130			MS2
Manganese, dissolved	0.0405	0.00020 mg/L	0.0400	0.00079	99	70-130			
Molybdenum, dissolved	0.0447	0.00010 mg/L	0.0400	0.00271	105	70-130			
Nickel, dissolved	0.0391	0.00040 mg/L	0.0400	0.00114	95	70-130			
Phosphorus, dissolved	4.24	0.050 mg/L	4.00	< 0.050	106	70-130			
Potassium, dissolved	8.40	0.10 mg/L	4.00	4.60	95	70-130			
Selenium, dissolved	0.431	0.00050 mg/L	0.400	0.00696	106	70-130			

APPENDIX 2: QUALITY CONTROL RESULTS

REPORTED TO PROJECT Regional District of Okanagan Similkameen
Keremeos - TLDW

CARO WO# REPORTED 25J4044
2025-11-05 08:29

Analyte	Result	MRL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Notes
Dissolved Metals, Batch B5K1816, Continued									
Matrix Spike (B5K1816-MS2), Continued		Source: 25J4044-01		Prepared: 2025-11-01, Analyzed: 2025-11-01					
Silicon, dissolved	14.2	1.0 mg/L	4.00	10.9	82	70-130			
Silver, dissolved	0.0304	0.000050 mg/L	0.0400	< 0.000050	76	70-130			
Sodium, dissolved	37.7	0.10 mg/L	4.00	34.6	76	70-130			
Strontium, dissolved	1.37	0.0010 mg/L	0.0400	1.36	35	70-130			MS2
Sulfur, dissolved	124	3.0 mg/L	40.0	89.3	87	70-130			
Tellurium, dissolved	0.0417	0.00050 mg/L	0.0400	< 0.00050	104	70-130			
Thallium, dissolved	0.0415	0.000020 mg/L	0.0400	< 0.000020	104	70-130			
Thorium, dissolved	0.0431	0.00010 mg/L	0.0400	< 0.00010	108	70-130			
Tin, dissolved	0.0431	0.00020 mg/L	0.0400	< 0.00020	108	70-130			
Titanium, dissolved	0.0415	0.0050 mg/L	0.0400	< 0.0050	104	70-130			
Tungsten, dissolved	0.0423	0.0010 mg/L	0.0400	< 0.0010	106	70-130			
Uranium, dissolved	0.0482	0.000020 mg/L	0.0400	0.00616	105	70-130			
Vanadium, dissolved	0.0425	0.0050 mg/L	0.0400	< 0.0050	103	70-130			
Zinc, dissolved	0.398	0.0040 mg/L	0.400	0.0142	96	70-130			
Zirconium, dissolved	0.0437	0.00010 mg/L	0.0400	< 0.00010	109	70-130			
Dissolved Metals, Batch B5K1876									
Blank (B5K1876-BLK1)		Prepared: 2025-11-03, Analyzed: 2025-11-03							
Mercury, dissolved	< 0.000010	0.000010 mg/L							
Blank (B5K1876-BLK2)		Prepared: 2025-11-03, Analyzed: 2025-11-03							
Mercury, dissolved	< 0.000010	0.000010 mg/L							
Blank (B5K1876-BLK3)		Prepared: 2025-11-03, Analyzed: 2025-11-03							
Mercury, dissolved	< 0.000010	0.000010 mg/L							
Blank (B5K1876-BLK4)		Prepared: 2025-11-03, Analyzed: 2025-11-03							
Mercury, dissolved	< 0.000010	0.000010 mg/L							
LCS (B5K1876-BS1)		Prepared: 2025-11-03, Analyzed: 2025-11-03							
Mercury, dissolved	0.00258	0.000010 mg/L	0.00250		103	80-120			
LCS (B5K1876-BS2)		Prepared: 2025-11-03, Analyzed: 2025-11-03							
Mercury, dissolved	0.00270	0.000010 mg/L	0.00250		108	80-120			
LCS (B5K1876-BS3)		Prepared: 2025-11-03, Analyzed: 2025-11-03							
Mercury, dissolved	0.00237	0.000010 mg/L	0.00250		95	80-120			
LCS (B5K1876-BS4)		Prepared: 2025-11-03, Analyzed: 2025-11-03							
Mercury, dissolved	0.00275	0.000010 mg/L	0.00250		110	80-120			
General Parameters, Batch B5J5548									
Blank (B5J5548-BLK1)		Prepared: 2025-11-01, Analyzed: 2025-11-01							
Chemical Oxygen Demand	< 20	20 mg/L							
LCS (B5J5548-BS1)		Prepared: 2025-11-01, Analyzed: 2025-11-01							
Chemical Oxygen Demand	496	20 mg/L	500		99	89-115			
General Parameters, Batch B5J5551									
Blank (B5J5551-BLK1)		Prepared: 2025-10-31, Analyzed: 2025-10-31							
Alkalinity, Total (as CaCO3)	< 1.0	1.0 mg/L							

APPENDIX 2: QUALITY CONTROL RESULTS

REPORTED TO PROJECT Regional District of Okanagan Similkameen
Keremeos - TLDW

CARO WO# 25J4044
REPORTED 2025-11-05 08:29

Analyte	Result	MRL Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Notes
General Parameters, Batch B5J5551, Continued									
Blank (B5J5551-BLK1), Continued				Prepared: 2025-10-31, Analyzed: 2025-10-31					
Alkalinity, Phenolphthalein (as CaCO ₃)	< 1.0	1.0 mg/L							
Alkalinity, Bicarbonate (as CaCO ₃)	< 1.0	1.0 mg/L							
Alkalinity, Carbonate (as CaCO ₃)	< 1.0	1.0 mg/L							
Alkalinity, Hydroxide (as CaCO ₃)	< 1.0	1.0 mg/L							
Conductivity (EC)	< 2.0	2.0 µS/cm							
Blank (B5J5551-BLK2)				Prepared: 2025-10-31, Analyzed: 2025-10-31					
Alkalinity, Total (as CaCO ₃)	< 1.0	1.0 mg/L							
Alkalinity, Phenolphthalein (as CaCO ₃)	< 1.0	1.0 mg/L							
Alkalinity, Bicarbonate (as CaCO ₃)	< 1.0	1.0 mg/L							
Alkalinity, Carbonate (as CaCO ₃)	< 1.0	1.0 mg/L							
Alkalinity, Hydroxide (as CaCO ₃)	< 1.0	1.0 mg/L							
Conductivity (EC)	< 2.0	2.0 µS/cm							
Blank (B5J5551-BLK3)				Prepared: 2025-10-31, Analyzed: 2025-10-31					
Alkalinity, Total (as CaCO ₃)	< 1.0	1.0 mg/L							
Alkalinity, Phenolphthalein (as CaCO ₃)	< 1.0	1.0 mg/L							
Alkalinity, Bicarbonate (as CaCO ₃)	< 1.0	1.0 mg/L							
Alkalinity, Carbonate (as CaCO ₃)	< 1.0	1.0 mg/L							
Alkalinity, Hydroxide (as CaCO ₃)	< 1.0	1.0 mg/L							
Conductivity (EC)	< 2.0	2.0 µS/cm							
General Parameters, Batch B5K1878									
Blank (B5K1878-BLK1)				Prepared: 2025-11-04, Analyzed: 2025-11-04					
Ammonia, Total (as N)	< 0.050	0.050 mg/L							
Blank (B5K1878-BLK2)				Prepared: 2025-11-04, Analyzed: 2025-11-04					
Ammonia, Total (as N)	< 0.050	0.050 mg/L							
LCS (B5K1878-BS1)				Prepared: 2025-11-04, Analyzed: 2025-11-04					
Ammonia, Total (as N)	0.949	0.050 mg/L	1.00		95	85-115			
LCS (B5K1878-BS2)				Prepared: 2025-11-04, Analyzed: 2025-11-04					
Ammonia, Total (as N)	0.993	0.050 mg/L	1.00		99	85-115			

QC Qualifiers:

MS2 The native sample concentration is greater than the spike concentration hence the matrix spike limits do not apply.