



**TOWNSHIP OF MELANCTHON
HYBRID COUNCIL MEETING
THURSDAY, MARCH 5TH, 2026 - 5:00 P.M.**

Council meetings are recorded and will be available on the Township website under Quick Links – Council Agendas and Minutes within 5 business days of the Council meeting.

Join Zoom Meeting

<https://us02web.zoom.us/j/83903770071?pwd=Fw33gQofiLAUxei7k1baUUR9tDQjCW.1>

Meeting ID: 839 0377 0071

Passcode: 829158

One tap mobile

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AGENDA

- 1. Call to Order**
- 2. Land Acknowledgement Statement**

We will begin the meeting by sharing the Land Acknowledgement Statement:

We would like to begin by acknowledging that Melancthon Township recognizes the ancestral lands and treaty territories of the Tionontati (Petun/Wyandot(te)), Haudenosaunee (Six Nations), and Anishinaabe Peoples. The Township of Melancthon resides within the lands named under the Haldimand Deed of 1784 and the Lake Simcoe-Nottawasaga Treaty (Treaty 18).

These territories upon which we live and learn, are steeped in rich Indigenous history and traditions. It is with this statement that we declare to honour and respect the past and present connection of Indigenous peoples with this land, its waterways and resources.

- 3. Announcements**
- 4. Additions/Deletions/Approval of Agenda**
- 5. Declaration of Pecuniary Interest and the General Nature Thereof**
- 6. Approval of Draft Minutes – February 19th, 2026**
- 7. Business Arising from Minutes**
- 8. Point of Privilege or Personal Privilege**

- 9. Public Question Period** (Please visit our website under Agendas and Minutes for information on Public Question Period)
- 10. Public Works**
 1. Year Ending December 31, 2025 & 2026 Accounts
 2. Other
- 11. Planning**
 1. Applications to Permit
 2. Other
- 12. Strategic Plan**
- 13. Climate Change Initiatives**
- 14. Dufferin OPP Detachment Board – Melancthon, Mono, Mulmur**
- 15. Committee/Board Reports & Recommendations**
 1. Recommendation from the Parks & Recreation Board Meeting on February 23rd, 2026
- 16. Correspondence**

Board, Committee & Working Group Minutes

1. Shelburne Public Library Board – January 20, 2026
2. Centre Dufferin Recreation Board – October 22, 2025
3. Centre Dufferin Recreation Board – December 2, 2025
4. Infrastructure & Emergency Management Committee – January 12, 2026
5. Melancthon Township Parks & Recreation Board – January 26, 2026

Items for Information Purposes

1. Dufferin County Resolution regarding Road Network Rationalization Plan Implementation
2. Bluewater Geoscience Consultants Inc – Semi-Annual Groundwater Monitoring and Sampling Report 2025 for Township of Melancthon Landfill Site Lot 12, Concession 4 NE
3. Town of Mono Resolution to Support and Endorse the Town of Orangeville's Resolution regarding Bill 21, Protect Our Food Act, 2025
4. Dufferin County Resolution to Support and Endorse the Town of Orangeville's Resolution regarding Bill 21, Protect Our Food Act
5. Nottawasaga Valley Conservation Authority Media Release – Modernized System & Hard Work brings NVCA Review Timelines from 20 Days Down to 17 Days
6. Town of Mono Resolution to Support and Endorse the County of Dufferin's Resolution regarding Scrap Tire Disposal

Items for Council Action

1. Centre Dufferin Recreation Complex – 2026 Budget

17. General Business

1. Year Ending December 31, 2025 & 2026 Accounts
2. Notice of Intent to Pass By-law
 1. By-law to Provide for the Levying of the Costs Resulting from the Maintenance and Repair of the Stewart Drainage Works
 2. By-law to Amend By-law 50-2024 being a By-law to Authorize the Use of Alternative Voting Methods (Telephone and Internet) for the 2026 School Board and Municipal Election
3. New/Other Business/Additions
 1. Dufferin County Draft Building Services Agreement

2. Notice Motion, Moved by Councillor Plowright to invite Sylvia Jones, MPP to a future Council meeting.
4. Unfinished Business
 1. Amendments to the Township Salvage Yard By-law 56-2019 (Mayor White)
5. Reports/Updates from Members of Council & Administrative Staff

18. Delegations

1. 5:30 p.m. – Public Meeting to Consider the 2026 Draft Operating and Capital Budget
 1. Report from Sarah Culshaw, Treasurer – 2026 Draft Budget
 2. Report from Sarah Culshaw, Treasurer – 2026 Budget – O. Reg. 284/09 Report
2. 6:00 p.m. – Public Meeting to Consider the Report to Council Remuneration Realignment
 1. Report from Deputy Mayor McLean – Remuneration Report for Council
 2. Email from Shaen Armstrong – Input Regarding Remuneration March 5, 2026 Agenda
 3. Email from Jack & Linda Polonsky – Remuneration Report
3. 6:30 p.m. – Public Meeting to Consider the Four-Day In-Office Workweek Pilot Project
 1. Report from Denise B. Holmes, CAO/Clerk – Four-Day in Office Workweek Pilot Project
4. 7:00 p.m. – David Germain, Thomson Rogers and David Donnelly, Donnelly Law, Township Solicitors regarding the Strada Aggregates Applications and Draft Peer Reviews (Closed Session)

19. Closed Session

1. Items for Discussion:
 1. Section 239(2)(d) – Labour relations or employee negotiations – Approval of the new Township of Melancthon Human Resources Policy
 2. Section 239(2)(f) – Advice that is subject to Solicitor/Client privilege – Memo from Sarah Culshaw, Treasurer regarding Friday Office Closure and Lunch Hour Office Closure (Unfinished Business).
 3. Delegation #4 – Section 239(2)(f) – Advice that is subject to Solicitor-Client Privilege and Section 239(2)(e) – litigation or potential litigation, including matters before administrative tribunal, affecting the local board
2. Approval of Draft Minutes – February 19th, 2026
3. Business Arising from Minutes
4. Rise With or Without Report from Closed Session

20. Third Reading of By-laws

21. Notice of Motion

22. Confirmation By-law

23. Adjournment and Date of Next Meeting – Thursday, March 19th, 2026 at 5:00 p.m.

APPLICATIONS TO PERMIT FOR APPROVAL
March 5, 2026 COUNCIL MEETING

PROPERTY OWNER	PROPERTY DESCRIPTION	SIZE OF BUILDING	TYPE OF STRUCTURE	USE OF BUILDING	DOLLAR VALUE	D.C.'s	COMMENTS
Dunburne Inc - Josiah Bauman Agent: Aaron Bauman	W Pt Lot 24, Con 4 OS 398247 County Road 21	325.16m2 (3500sqft)	Agricultural Building	Agricultural	\$95,000	No	With Planner for Review
Solmar Farms - Soloman Martin Agent: Mahlon Bauman - Mayway Carpentry Inc	Pt Lot 26, Con 9 NE 764220 240 Sideroad	335m2 (3600sqft)	Hay Storage Addition	Agricultural	\$100,000	No	With Planner for Review
Kevin & Rebecca McGriskin	Pt Lot 12, Con 3 OS 477084 3rd Line	256.25m2 (2758sqft)	Calf Barn and Feed Room	Agricultural	\$300,000	No	With Planner for Review



The Corporation of
THE TOWNSHIP OF MELANCTHON
157101 Hwy. 10, Melancthon, Ontario, L9V 2E6

Corporation Of the Township of Melancthon

Memorandum

To: Mayor White And Members of Council

From: Becky Cunnington, Secretary Parks & Recreation Board

Subject: Recommendations from Parks & Recreation Board Meeting Held February 23rd, 2026

Date: March 5th, 2026

7.3 General Business; Brainstorming

At its recent meeting, the Parks and Recreation Board discussed partnering with the County of Dufferin to promote activities and events utilizing the Dufferin Rail Trail.

Recommendation

As a result of the discussion the Board recommends that Council support the Parks and Recreation Board's recommendation to explore a partnership with the County of Dufferin to collaboratively promote activities and events utilizing the Dufferin Rail Trail

That staff be directed to engage with the County to determine opportunities for joint marketing, community programming, and event coordination, and report back to Council with further details as appropriate.



Minutes of Shelburne Public Library Board

Tuesday, January 20, 2026, 7 p.m.

KTH Room, 201 Owen Sound St, Shelburne, ON L9V 3L2

Members Present: Councillor L. Wegener (Shelburne)

J. Hodder

T. Field

Councillor V. Pann (Amaranth)

Councillor M. Davie (Mono)

Members Absent: G. Dunlop

Councillor P. Clark (Mulmur)

Councillor R. Plowright (Melanchthon)

Staff Present: S. McGrady, CEO

D. Lange, Treasurer

1. Call to Order

Vice Chair Councillor L. Wegener called the meeting to order at 7:08 p.m.

2. Disclosures of (Direct or Indirect) Pecuniary Interest

None.

3. Land Acknowledgment

The Vice Chair acknowledged that the Town of Shelburne resides within the traditional territory and ancestral lands of the Anishinaabe, including the Ojibway, Potawatomi, Chippewa and the People of the Three Fires Confederacy.

These traditional territories upon which we live, work, play and learn are steeped in rich Indigenous history and traditions. It is with this statement that we declare to honour and respect the past and present connection of Indigenous peoples with this land, its waterways and resources.

4. Approval of the Agenda

Motion 01-26

Moved by T. Field

Seconded by Councillor V. Pann

Be it resolved that we approve the agenda for the January 20, 2026 meeting.

Carried

5. Adoption of Minutes of Previous Meeting

Motion 02-26

Moved by T. Field

Seconded by J. Hodder

Be it resolved that we approve the minutes of the Board meeting dated December 16, 2025.

Carried

6. Information Item – CEO Report

Motion 03-26

Moved by J. Hodder

Seconded by Councillor V. Pann

Be it resolved that we receive the CEO Report for January 2026.

Carried

7. Staff Reports

7.1 Financial Report

Motion 04-26

Moved by Councillor M. Davie

Seconded by Councillor V. Pann

Be it resolved that the Financial Report of December 2025 be received and the Monthly Expenses for December 2025 be approved.

Carried

7.2 Policy Review Report

Motion: 05-26

Moved by Councillor L. Wegener

Seconded by T. Fields

Be it resolved that the Policy Review Report, be received and the Policy Manual Table of Contents and Schedules for Review be approved.

Carried

7.3 Policy Review – Prevention of Workplace Violence and Prevention of Workplace Harassment and Discrimination

Motion: 06-26

Moved by Councillor V. Pann

Seconded by L. Wegener

Be it resolved that the Report – Policy Review – Prevention of Workplace Violence and Prevention of Workplace Harassment and Discrimination be received; and

Be it resolved that the Board approve the Prevention of Workplace Violence Policy as presented; and

Be it resolved that the Board approve the Prevention of Workplace Harassment and Discrimination Policy as presented.

Carried

8. New Business

CEO to inform Town Staff/Council of the need for a new Board Member.

9. Correspondence

10. Announcements

11. Date of Next Meeting

The next meeting is scheduled for **Tuesday, February 17, 2026, at 7 p.m.** or at the call of the Chair.

12. Adjournment

Motion 07-26

Moved by T. Fields

Seconded by Councillor V. Pann

The meeting adjourned at 8:42 p.m.

Carried

CENTRE DUFFERIN RECREATION COMPLEX
BOARD OF MANAGEMENT

Minutes of the Regular meeting held October 22, 2025 at 5:30pm Pool View Room

Attendance:	Walter Benotto	Shelburne (Alternate)
	Robb Stinson	Shelburne
	Melinda Davie	Mono
	Ruth Plowright	Melancthon
	Ralph Moore	Melancthon
	Victor Paan	Amaranth
	Kim Fraser	Facility Administration Manager
	Rick Thompson	Facility Maintenance Manager
	Emily Francis	Recreation Program Coordinator

Absent: D. Sample and C. Gerrits

Meeting called to order by Board Chair, Melinda Davie at 5:30pm.
A quorum was present.

Land Acknowledgement:

Board Chair, Melinda Davie read the land acknowledgement.

Declaration of Pecuniary Interests:

Board Chair, Melinda Davie stated that if any member of the board had a disclosure of pecuniary interest that they could declare the nature thereof now or at any time during the meeting. R. Plowright will declare a Pecuniary interest during discussion of the road sign.

Agenda:

Add Wifi access to New Business

MOTION #1 – Moved by R. Plowright seconded by R. Stinson. Be it resolved we approve the agenda dated October 22, 2025 as circulated and amended. Carried

Discussion & Approval of Minutes of Previous Meeting held September 24, 2025:

MOTION #2 – Moved by V. Paan seconded by R. Moore. That the minutes of the CDRC Board of Management previous board meeting held on September 24, 2025 be approved as circulated and presented. Carried

Financial Report:

After review of the CDRC financial reports and accounts the following motion was presented.

MOTION #3 – Moved by W. Benotto seconded by R. Plowright. That the CDRC Board of Management receives the financial reports and paid accounts in the amount of \$67,118.72, as presented by the Facility Administration Manager. Carried

CDRC 2026 Draft Budget Review:

Staff asked to prepare an expression of interest for concession booth operations.

Municipal increase of 8%

Send draft budget to funding municipalities for comment

Facility Administration Manager and Recreation Program Coordinator Reports:

Summer 2025 End of Season Report presented for review at next meeting.

See Schedule A

See Schedule B

MOTION #4 – Moved by R. Stinson seconded by R. Moore. That we receive the reports from the Facility Administration Manager and the Recreation Program Coordinator. Carried

Facility Maintenance Manager's Report:

See Schedule C

Prepare tender for 2025-2026 snow removal contract

Review UGDSB Agreement regarding winter snow removal

MOTION #5 - Moved by V. Paan seconded by W. Benotto. That we receive the report from the Facility Maintenance Manager. Carried

Old Business:

Liquor Licencing of Facility:

After discussion, staff would first like the current CDRC Alcohol Risk Management Policy to be reviewed to ensure it supports the concept of having the entire facility fully licenced. Along with other policies, the Alcohol Risk Management Policy is in queue for review.

New Business:

Additional WiFi Access:

After discussion, staff asked to look into the cost of additional access points for better coverage.

Closed Session:

Emily and Rick leave at 7:20pm

MOTION #6 – Moved by W. Benotto seconded by R. Moore. Be it resolved that the Board move into a closed session meeting pursuant to section 239 of the Municipal Act, 2001, as amended for the following reason(s):
Personnel matters about an identifiable individual, including a municipal or local board employee. Carried

MOTION #7 Moved by W. Benotto seconded by V. Paan. That the CDRC Board of Management rise from closed session meeting with no report at 7:47pm. Carried

Confirmation by By-law:

MOTION #8 – Moved by R. Stinson seconded by R. Plowright. Be it resolved that leave be given for the reading and enacting of by-law #07-2025 being a by-law to confirm certain proceedings of the CDRC Board of Management for its regular board meeting held October 22, 2025. Carried

Adjournment:

MOTION #9- Moved by R. Moore seconded by W. Benotto. That we now adjourn at 7:48pm to meet again on Wednesday, November 26, 2025 at 5:30pm or at the call of the chair. Carried

Secretary - Treasurer

Chairperson

Dated

SCHEDULE 'A'

Facility Administration Managers Report – October 22, 2025**General Overview/Information:**

- Continual day-to-day administrative duties that include phone calls and walk-in inquiries, invoicing and collections, process payables and disbursements, bank deposits, rental contracts, bookings, monitoring the rental schedule, monthly account reconciliations and payroll administration.
- Ongoing, receiving and responding to numerous and various facility rental booking requests and walk-ins. Some site visits requested. Preparing rental contracts and insurance requirement.
- Below is a snapshot of facility rentals

Week	Ice Rental Hrs	SMHA Portion	Event/Room Oth Rentals
Week: Sept 8-14	10	7	2
Week: Sept 15-21	13.5	6	2
Week: Sept 22-28	53.5	7.5	3
Week: Sept 29-Oct 5	38.5	16	2
Week: Oct 6-12	38.5	21.5	3
Week: Oct 13-19	39.5	14.5	3

- Prepared offers of employment and onboarding new seasonal operations and concession staff
- Preparing CDRC 2026 draft budget
- Olympia advertising – Olympia will soon have new wrap with Muskies and SMHA design
- Seasonal ice rental contract complete
- Ice rental changes:
 - o Skate Canada Shelburne (SCS) – will not host BOTF event in November due to lack of enrollment. Have requested consideration for an alternate date in March 2026
 - o SMHA – anticipating less than expected ice rentals this season, approx 2-3 hours less per week than last season (10%-12%) - down two teams, no U15 division
 - o CDDHS boy varsity will not ice a team this season
 - o Regular 4-5pm weekly Thursday men's group – taking a hiatus this season - lack of commitment.
- Plug'n Drive EV test drive is tentatively scheduled Saturday, February 28, 2026
- Received \$3k donation from KTH for wifi
- After reviewing the request from Trevor Reid to have a daytime lacrosse camp in July 2026, this will conflict with the CDRC summer day camp program. Trevor will be asked to reschedule using available evenings or weekends
- Dufferin County IT will be decommissioning older model computer devices, as they are out of warranty and not scheduled for replacement.
- Concession booth POS system is outdated and is no longer supported. Looking at new options
- Will attend Fall COFCO meeting in Oakville on November 13, 2025

New Business

- Canada Summer Jobs (CSJ) 2026 program Call for Applications will launch on November 4, 2025 and will close on December 11, 2025

Kim Fraser,
Facility Administration Manager

SCHEDULE 'B'

Submitted By: Recreation Program Coordinator Emily Francis

To: CDRC Board of Management

Date: October 22, 2025

Subject: Recreation Program Coordinator Report

October Overview

- Continuing to assist with day-to-day operations including phone inquiries, email inquiries, walk in inquiries.
- Continuing to make updates to the CDRC information on the Town of Shelburne website and actively creating graphics and posting on the CDRC social media. Creating posts for our lobby tv playlist. The new Town of Shelburne Website launched mid July. The CDRC is currently sharing photos of the fun our staff had this past summer on social media. This has increased our following and interactions on our social media channels and been enjoyed by staff and community members.
- Completed the ORFA Public Skate Monitor Training. The CDRC is going to use the knowledge from that to build a training session for the staff that will be monitoring public skating.
- Instead of our typical community sports and recreation registration day this season, local clubs and groups have been invited to set up a booth at our public skating throughout the season. One group will be selected per evening to ensure maximum exposure.
- Attended two virtual demonstrations of POS systems to replace the cash register in the Concession Booth. See attached quotes.
- Attended a Recreation Meeting in Mount Forest on October 16, 2025 to recap from the summer of 2025, review policies, job descriptions and prepare for 2026.
- Organized and set up all mandatory WHIMIS/Health and Safety training for CDRC Staff to complete. To ensure that we are compliant with required trainings, all CDRC staff from all departments were required to complete all training. Followed up with emails to ensure that everyone was completed by the deadline of October 17.
- 2026 Budget preparation
- Ordered new uniforms for our Concession Booth and Maintenance staff as our stock is limited.
- Communication with employees at the Dundalk Arena on program offerings.
- Continuing to work on completing the first course Legal Awareness 1, of the Recreation Professionals designation.
- Preparing and planning for upcoming programs including Holiday Break Camps and programs.
- Reviewing the summer of 2025, working through the budget process and beginning to prepare for 2026.
- Collecting information to put together information on next steps for developing a Hall of Fame Committee.

Upcoming programs

- Weekly skating schedule is available at Shelburne.ca/cdrc
 - o Offerings include Family Skate, Adult Skate, Adult Stick and Puck, Public Skate
 - o New offering: Hockey Skills
 - This is a chance for parents to practice on the ice with their children.
- Babysitting Course – Friday October 24, 2025
- Power Skating Clinics with Susan Ritchies Power Skating Techniques scheduled for Friday October 24 and Friday November 28, 2025.

- Weekly 55+ shinny began on Friday October 17, 2025. We are teaching our regular players to register prior to arrival using our Active Net Software.
- Our next Youth Night is scheduled for Friday November 7, 2025, this month's theme is Craftopia.

Exploring new options

- The CDRC has received inquiries about incorporating multi week recreation programs in addition to our 1-day programs. Some ideas include:
 - o Badminton For Fun (Skills and Drills in the Town and Country Room) – 4-6 week program
 - o Youth Craft Club – 4 – 6 week program

Incorporating fitness classes that instructors are hired by the CDRC and registrations conducted through the CDRC. Exploring the idea of a job posting to hire fitness instructors with expertise in certain areas to run fitness classes.

SCHEDULE 'C'

Facility Maintenance Managers Report – October 22, 2025

As requested the total sq. footage of our parking lots is approximately 57,000 sq feet
During pick up and drop off the school uses approximately 40,000 sq feet of parking lot

Snow plowing break down

Martain services	sunshine
150.00 per hour for plowing	180.00 per hour per machine
520.00 per salt front and back lots	325.00 per salt front and back lots
Straight salt	salt and sand mix
Will not do sand salt mix due to insurance	425.00 per salt front and back lots
	Straight salt
42,000.00 plus HST total winter contract	54,500.00 plus HST total winter contract
Our total cost last year was 42,500.00 plus hst	

On average the parking lots take 3 hours to plow
With martain we are saving 90.00 per plow and spend 105.00 more for salting
Approximately we pay 40% to plowing and 60% to salting on our bill
I will be taking holidays from dec 12 to dec 23 2025 I will be doing plant and building checks Dec 24,25,26 Jan 1 2026 so staff can be with there families during the holidays

New boiler in main boiler room will be installed the week of Oct 20/25

Boilers and roof top units will be serviced Oct 29,30 2025
User groups seem to be happy with the condition and quality of the ice we are doing regular
Ice maintenance and keeping ice approximately 1 ¼ inches thick
The new brine pump seems to be helping to freeze the ice faster

Three new youth have been hired
Alex Bouwers
Anthony Young
Nolan Bouchard

Had to call in refrigeration electrician to fix a problem with our ammonia detector
System the exhaust would not come on and the room was reaching 28 c

Started training Ashton on operations of the plant and Olympia for a back up operator

Need to do CH-02 propane training for 4 staff members cost 300.00 each

The night of oct 14 2025 muskies team members tried to bring 3 cases of beer through the front door of the arena, they were stopped by staff.
The last case was taken out by corey allen and taken out the front door to the gravel
Parking lot and then to the back stairwell that leads to the muskie storage room
I do believe it was corey allen can not tell because on the video it was dark, corey never came back in front door
Called corey Oct 15 2025 told him we saw the video and told this could not happen again

If the president of the muskies will not follow our alcohol policy why would we grant them a liquor license for the whole facility?

Dufferin country building department wants the CDRC to get an engineer to draw up plans for connection for highway sign is this something we want to proceed with ?

Need Approval

Snow plowing contract I would like to use martin again this winter season I would like to recommend that we do the season contract, they are calling for frequent snowstorms and icy conditions this winter from lake effect storms
We have projected a 71,000.00 surplus in the budget this year
Martins season price is 42,000.00 plus HST
Last years totals was 42,5000.00 plus HST for season
I think the school board need to pay 30% of the snow plow contract for the square footage of parking lot there are using, not 15%

Prpoane training for 4 staff members of 300.00 each

CENTRE DUFFERIN RECREATION COMPLEX
BOARD OF MANAGEMENT

Minutes of the Regular meeting held December 2, 2025 at 6:00pm held Virtually

Attendance:	Lindsay Wegener	Shelburne
	Robb Stinson	Shelburne
	Melinda Davie	Mono
	Ruth Plowright	Melancthon
	Ralph Moore	Melancthon
	Victor Paan	Amaranth
	Kim Fraser	Facility Administration Manager
	Rick Thompson	Facility Maintenance Manager
	Emily Francis	Recreation Program Coordinator

Absent: D. Sample and C. Gerrits

Meeting called to order by Board Chair, Melinda Davie at 6:00pm

A quorum was present.

Due to members prior meeting commitments, a 7:00pm finish is required

Land Acknowledgement:

Board Chair, Melinda Davie read the land acknowledgement.

Declaration of Pecuniary Interests:

Board Chair, Melinda Davie stated that if any member of the board had a disclosure of pecuniary interest that they could declare the nature thereof now or at any time during the meeting.

Agenda:

MOTION #1 – Moved by V. Paan seconded by R. Stinson. Be it resolved we approve the agenda dated December 2, 2025 as circulated and presented. Carried

Discussion & Approval of Minutes of Previous Meeting held October 22, 2025:

MOTION #2 – Moved by R. Plowright seconded by R. Moore. That the minutes of the CDRC Board of Management previous board meeting held on October 22, 2025 be approved as circulated and presented. Carried

New Business:

Snow Removal and Salting Tender:

Two (2) tenders were received and opened on November 21, 2025. After discussion the following motion was presented.

MOTION #3 – Moved by R. Moore seconded by V. Paan. That the CDRC Board of Management accepts the Snow Removal and Salting Tender from Sunshine Agro for the 2025-2026 season. Carried

DCCS Service Contract for Fee Subsidy 2026

MOTION #4 – Moved by R. Stinson seconded by V. Paan. Whereas Dufferin County Community Services and the CDRC are in an agreement for the funding of childcare services through the CDRC Summer Day Camp Program;

Be it resolved the CDRC Board of Management authorize the Board Chair to sign the attached Funding Agreement and Schedule D-Service Description Schedule 2026.

Carried

Old Business:

Additional Wifi Access Points:

Information from Dufferin County IT was presented to provide two (2) additional access points that will extend the facility coverage. The estimated cost in the \$5,250.00-\$5,650.00 range. After discussion the following motion was presented.

Will reach out to request support/sponsorship from KTH for to cover the cost of the additional access points.

MOTION #5 – Moved by V. Paan seconded by R. Stinson. Based on the information provided by Dufferin County IT on November 14, 2025, the CDRC Board of Management will move forward with adding two (2) additional access points.

Carried

Facility Administration Manager and Recreation Program Coordinator Reports:

Summer 2025 End of Season Report

See Schedule A

See Schedule B

MOTION #6 – Moved by R. Moore seconded by V. Paan. That we receive the reports from the Facility Administration Manager and the Recreation Program Coordinator. And further that the Summer 2025 End of Summer Report be accepted as presented by the Recreation Program Coordinator.

Carried

Facility Maintenance Manager's Report:

See Schedule C

MOTION #7 - Moved by R. Plowright seconded by R. Moore. That we receive the report from the Facility Maintenance Manager.

Carried

Financial Report:

After review of the CDRC financial reports and accounts the following motion was presented.

MOTION #8 – Moved by V. Paan seconded by R. Stinson. That the CDRC Board of Management receives the financial reports and paid accounts in the amount of \$113,551.14 as presented by the Facility Administration Manager. Carried

Confirmation by By-law:

MOTION #9 – Moved by R. Moore seconded by R. Stinson. Be it resolved that leave be given for the reading and enacting of by-law #08-2025 being a by-law to confirm certain proceedings of the CDRC Board of Management for its regular board meeting held virtually December 2, 2025. Carried

Adjournment:

MOTION #10- Moved by L. Wegener seconded by R. Plowright. That we now adjourn at 6:59pm to meet again on Wednesday, January 28, 2026 at 5:30pm or at the call of the chair. Carried

Secretary - Treasurer

Chairperson

Dated

SCHEDULE 'A'

Facility Administration Managers Report – December 2, 2025**General Overview/Information:**

- Continual day-to-day administrative duties that include phone calls and walk-in inquiries, invoicing and collections, process payables and disbursements, bank deposits, rental contracts, bookings, monitoring the rental schedule, monthly account reconciliations and payroll administration.
- Assisting with ongoing, receiving and responding to numerous and various facility rental booking requests and walk-ins. Review rental contracts and insurance requirements.
- Below is a snapshot of facility rentals

Week	Ice Rental Hrs	SMHA Portion	Event/Room Oth Rentals
Week: Oct 20-26	51	25.5	4
Week: Oct 27-Nov 2	51	22.5	3
Week: Nov 3-9	50	23.5	5
Week: Nov 10-16	52	28.5	5
Week: Nov 17-23	46.5	22	4
Week: Nov 24-30	54	26	3

- Per Rick's invitation, we met with Denyse Morrissey and Will Thomson from the Town of Shelburne to discuss future capital plans for the CDRC
- Prepare 2025 Snow Removal and Salting Tender and scheduled opening of tenders
- Completed and submitted insurance renewal application/questionnaire as requested by Town of Shelburne
- Sent the CDRC 2026 draft budget to funding municipalities for comment.
- Olympia advertising – Olympia has new wrap completed with Muskies and SMHA design
- Facility/Ice rental changes:
 - o Party Rocker dances are cancelled, as they cannot secure groups to chaperone
 - o Have filled seven (7) 5-6pm ice times on Tuesday and Thursday during Nov/Dec
- Prepared offer of employment and onboarding for part-time seasonal operations staff
- Attended Fall COFCO (Central Ontario Facility Coordinators Assoc) meeting on Nov 13, 2025 in Oakville
- Met with Dufferin County Child Care Services (DCCS) regarding service delivery for 2026
- Canada Summer Jobs (CSJ) 2026 application in progress, submission deadline is December 11, 2025
- Working on requests for expression of interests for concession booth operations

New Business

- New TOAST POS system:
 - For concession booth and CDRC programs. Existing cash register is outdated and no longer supported
 - Dufferin County IT approved for compliance and set-up
 - Hardware, onboarding and installation – one time \$906.60 plus HST
 - Recurring monthly charge - \$192.50 plus HST. Est annual cost \$2,300.00 plus HST
 - Current Moneris and Clover monthly service and account fees – \$103.95 plus HST – Est YTD \$1,100.00
 - Current Sling monthly service fees average \$280.00. Based on \$6.00/month per active employee per month – Est YTD \$2,800.00
 - Transaction processing fees: Toast \$0.10; Moneris \$0.11 and Clover \$0.08
 - Training session scheduled Thursday, December 4th

Kim Fraser,
Facility Administration Manager

SCHEDULE 'B'

Submitted By: Recreation Program Coordinator Emily Francis

To: CDRC Board of Management

Date: December 2, 2025

Subject: Recreation Program Coordinator Report

November Overview

- Continuing to assist with day-to-day operations including phone inquiries, email inquiries, walk in inquiries.
- Continuing to make updates to the CDRC information on the Town of Shelburne website and actively creating graphics and posting on the CDRC social media. Creating posts for our lobby tv playlist. The new Town of Shelburne Website launched mid July. The CDRC is currently sharing photos of the fun our staff had this past summer on social media. This has increased our following and interactions on our social media channels and been enjoyed by staff and community members.
- Completed the ORFA Legal Awareness 1 Course towards the Recreation Professional Designation.
- Attended an ORFA meeting in Oakville on Thursday November 13, 2025.
- Working on completing the Canada Summer Jobs grant for 2026 seasonal summer employee wage subsidy.
- Conducted a staff training for the staff that will be working our upcoming programs.
- Met with Dufferin County Childcare Services to discuss our service delivery for 2026.
- Working with Maintenance to clean up a storage unit above the bleachers. We are hoping to move some of our camp equipment up there and utilize shelves and hooks to hang supplies.
- Finalizing the 2026 Seasonal Summer Employment Opportunities to be posted online on the week of December 1, 2025.
- Youth Hockey Skills has been a huge hit at the CDRC. Parents and children are invited to come out Thursday and Friday from 4:00-4:50pm to practice their hockey skills. Youth must be wearing full equipment, parents must be wearing a helmet and gloves. We will add additional sessions over the holiday break.
- Preparing and scheduling for upcoming Holiday Break Programs including planning for Holiday Break Camps.
- Community Sports and Recreation Promotion at CDRC public skating has begun. This is an excellent opportunity for local clubs and groups to promote their program offerings.
 - o Friday November 7, 2025 – Shelburne Public Library
 - o Friday November 14, 2025 – LP Stage Productions
 - o Upcoming Friday December 12, 2025 – Shelburne Golf and Country Club

Upcoming programs

- Weekly skating schedule is available at Shelburne.ca/cdrc
 - o Offerings include Family Skate, Adult Skate, Adult Stick and Puck, Public Skate
 - o New offering: Hockey Skills
 - This is a chance for parents to practice on the ice with their children.
- Power Skating Clinics with Susan Ritchies Power Skating Techniques scheduled for Friday October 24 and Friday November 28, 2025.
- Weekly 55+ shinny began on Friday October 17, 2025. We are teaching our regular players to register prior to arrival using our Active Net Software.
- Babysitting Course – Tuesday December 30, 2025
- Home Alone Safety for Kids Course – Monday December 22, 2025

- Our next Youth Night is scheduled for Friday December 12, 2025, this month's theme is Very Merry Holiday Party.
- Holiday Break Camps registration is now open

SCHEDULE 'C'

Facility Maintenance Managers Report – December 2, 2025

Boilers , rooftop units and tube heaters were serviced Oct 29,30,31
There is no concerns with equipment at this time

Heat recovery units were serviced by staff

Met with Denyse and Will from town of Shelburne to discuss future capital plans for the CDRC they would like us to do a recreation facility audit approx. cost 250,000.00
In Oct 2021 we had a facility audit done at a cost of 7,900.00 for the whole building

Scissor lift passed structural inspection and repairs are complete

Sop have been created for arena operations

Electrical consumption is down this month compared with the same time last year

Sept/oct 2024 2540 kwh

Sept/oct 2025 2377 kwh

Savings 163 kwh = \$ 2,882.00 for the month

Marty will be coming back as a casual part time operator

CORPORATION OF THE TOWNSHIP OF MELANCTHON

The Township of Melancthon Infrastructure and Emergency Management Committee held a meeting on January 12th, 2026, at 9:30 a.m. The following members were present: James McLean, Darren White and Ruth Plowright. Also present were: Craig Micks, Public Works Superintendent, Denise Holmes, CAO/Clerk, Sarah Culshaw, Treasurer and Kaitlin Dinnick, Infrastructure and Emergency Management Committee Secretary.

Call to Order

Chair McLean called the meeting to order at 9:38 a.m.

Land Acknowledgement

Chair McLean shared the Land Acknowledgement Statement.

Additions/Deletions/Approval of Agenda

Moved by Plowright, Seconded by White, that the agenda be approved as circulated. Carried.

Declaration of Pecuniary Interest or Conflict of Interest

None.

Approval of Draft Minutes

Moved by Plowright, Seconded by White, that the minutes of the Infrastructure and Emergency Management Committee Meeting held on December 8th, 2025, be approved as circulated. Carried.

Business Arising from Minutes

None.

Correspondence Items

None.

General Business

1. Update from Public Works Superintendent

Craig Micks, Public Works Superintendent advised that they have been busy plowing snow and working on keeping the equipment in working order.

2. 2026 Black Cat Schedule

The Committee discussed strategically placing the black cat in problem areas on the long weeks. Staff were directed to update the 2026 schedule for the long weekends. Staff were directed to follow up with residents that complain and provide them with the road counter data and advise that we have also provided that data to the OPP.

Staff were directed to reach out to Scott Burns, County of Dufferin Engineer to get clarification on whether we can place the black cat on County Roads as we would like to obtain up to date data on County Road 21, 124 and 17.

3. Update on Proposed Riverview Park

No further updates on Riverview Park. Staff was directed to change this item to beautification of the Villages.

4. Discussion on Park Structures and Infrastructure Needs

The Committee discussed the purchase of a slide for Corbetton Park.

5. Discussion on Horning's Mills Hall Infrastructure Needs

1. Quote from Simon Brothers for the Upstairs Window

Member Plowright advised that she found a grant for windows and doors on FCM's Website. Sarah is going to look into this further with the and the hope would be that if we could apply for the grant we could replace all of the windows and doors at the Hall. Sarah will bring back further information at the next meeting.

6. Recycling Pickup on Narrow Township Roads (Chair McLean)

Staff advised that two emails have been received from residents regarding the placement of the new recycling bins on the roadside. Staff advised that they have reached out to the County of Dufferin Waste Management regarding the concerns and are awaiting a response from Circular Materials. Their response will be provided to the Committee once received.

7. Discussion on Speed Humps in Corbetton (Chair McLean)

Member White advised that speed bumps would create a noise problem and before we do anything we should ask for public engagement. Staff were directed to adjust the black cat schedule to place it in Corbetton and Riverview during planting season.

8. Charging Businesses for Trucks that use No Heavy Truck Roads (Chair McLean)

Chair McLean spoke to this item, and it was suggested that we could add these routes to the Paid Duty Officers schedule for 2026 or can try and identify times for the OPP to patrol. Staff were directed to see if the old road counter works that identifies the classification of vehicles.

Other/Additions

Craig advised that the sand dome is half empty already due to the weather conditions and that he has looked into the availability of getting more sand however getting more salt may be a challenge as there appears to be a shortage.

9. Unfinished Business

None.

Recommendations to Council

None.

Public Question Period

None.

Confirmation Motion

Moved by Plowright, Seconded by White, that all actions of the Members and Officers of the Infrastructure and Emergency Management Committee with respect to every matter addressed and/or adopted by the Board on the above date be hereby adopted, ratified, and confirmed; and each motion, resolution and other actions taken by the Board members and Officers at the meeting held on the above date are hereby adopted, ratified, and confirmed. Carried.

Adjournment

10:31 a.m. - **Moved by McLean, Seconded by Plowright,** that we adjourn this Infrastructure and Emergency Management Committee meeting to meet again on February 2nd, 2026, at 9:30 a.m. or at the call of the Chair. Carried.

CHAIR

SECRETARY

CORPORATION OF THE TOWNSHIP OF MELANCTHON

The Township of Melancthon Parks and Recreation Board held a meeting on January 26, 2026, at 6:00 p.m. The following members were present: Chair Bill Neilson, Vice-Chair David Thwaites, Members Darren White, Ruth Plowright, Jessica Plowright, Lynn Hodgson and Doug Read, also present was Becky Cunningham, Parks and Recreation Board Secretary. The meeting was called to order at 6:02 p.m.

Appointment of Chair and Vice-Chair (Conducted by Secretary)

Moved by R. Plowright, Seconded by Hodgson that Bill Neilson be appointed as the Chair of the Parks and Recreation Board of the Township of Melancthon. Carried.

Moved by R. Plowright, Seconded by Hodgson that David Thwaites be appointed as the Vice-Chair of the Parks and Recreation Board of the Township of Melancthon. Carried.

Land Acknowledgement

Chair Neilson shared the Land Acknowledgement Statement.

Additions/Deletions/Approval of Amended Agenda

None.

Deletions

None.

Approval of Agenda

Moved by Read, Seconded by Hodgson that the agenda be approved as presented. Carried.

Declaration of Pecuniary Interest or Conflict of Interest

No declaration declared at this time.

General Business

1. 2026 Meeting Dates & Location

The Board discussed the frequency of meetings and determined they would meet once per month for now and then discuss again after Melancthon Weekend Celebrations. Meeting Dates have been set for the fourth Monday of the month except for June which will be the third Monday of the month at 7:00 p.m. in person at the Township of Melancthon Municipal Office.

Meeting Schedule:
February 23
March 23
April 27
May 25
June 15

2. Riverview Park Update

Member Plowright advised that after a site visit with a contractor it was determined that the proposed location would not be suitable for a walking trail as it was much smaller than anticipated and had a significant slope to the river. The Board discussed the possibility of going out to do an on site visit of both properties in Riverview in the spring. It was decided that the Board would like to keep the Riverview Park on the agenda for further discussion.

3. Horning's Mills Park – Backstop Netting/Screen

At the last meeting Members were directed to check out other ball diamonds to see what types of backstop/screens were used to get ideas for the Horning's Mills Diamond. No diamonds observed had anything other than the chain link fence, however the material used on the diamond surface may have been a different mix than what is currently used. The Board then discussed looking into grants or funding from the Blue Jays foundation to facilitate upgrades to the diamond. Member R. Plowright advised that she had a brief conversation with the Township Treasurer regarding this and that the deadline had been missed. Vice-Chair Thwaites volunteered to reach out to the Township Treasurer and get more information.

4. Corbetton Park – Slide, Trees, Community Message Board & Library Box

Slide – Member R. Plowright advised that an estimate had been obtained by Member J. Plowright which included the slide and installation and has been given to the Township Treasurer. Township Staff advised that the current amount allocated for the Parks & Recreation Budget was based on the operating and event costs from the previous year and the original amount estimated for the slide.

Trees – A discussion was had about the feasibility of planting trees at the Corbetton Park for shade, there were concerns that the Park may be too wet in areas to support growth as well as the time it would take for the trees to mature to provide shade. Member R. Plowright suggested looking into shade sails or something similar be installed. The Board agreed this would be a good option and something they would like completed in 2026. Member White volunteered to assist with creating and installing shade covers.

Community Message Board – Member White advised that he would be donating the materials and time to complete this project.

Library Boxes – Member R. Plowright advised the Board of a project she has initiated to have small Library Boxes installed at the Horning's Mills Hall and would like to also have installed at the Corbetton Park. She is looking for student volunteers to build boxes, one for Adult books and one for Children's books at each location. The Library has agreed to donate books for the boxes.

5. Letter for Funding

Member R. Plowright advised that she had reached out to some local places but found they had already donated to other events and causes in the area. The Board discussed putting this on hold as they felt there were no projects for 2026 that needed funding. It was decided that the canvassing for funding be placed on hold for now.

6. Melancthon Day Theme & Timing

The Board discussed plans for the 2026 Melancthon Weekend Celebrations. As part of the discussion, the Board talked about the possibility of reaching out to an Indigenous group to see if they would be interested in participating by offering a cultural education and learning opportunity for residents, such as storytelling or dance. Member White will reach out to a contact to see if there is any interest in them participating.

The Board also discussed adjustments to the event schedule, it was recommended that the event start later, at 5:00 or 6:00 p.m.

Dufferin County Line has reached out to Member R. Plowright as they are interested in playing at the event.

The Board confirmed the weekend would continue as a three-day event, consisting of:

- **Friday:** BBQ in Corbetton
- **Saturday:** Melancthon Day at Horning's Mills Park
- **Sunday:** Breakfast in Riverview

The event budget was reviewed, and the board decided they would like to increase the food and fireworks budget this year.

7. 2026 Projects & Events

The Board discussed the proposed projects and events for 2026, as well as additional initiatives they would like to consider. In addition to the projects and events already discussed, the Board expressed interest in hosting a Touch a Truck event at Horning's Mills Park, potentially in July. The event would include inviting an ice cream truck and coffee truck vendors, as well as local fire departments, Public Works vehicles, car collectors, and similar participants. The event would be free to attend but donations accepted if people wish.

The Board also reviewed the estimated costs and overall budget for the proposed events and projects. It was determined that an increase to last year's budget would be required, and that a recommendation would need to be brought forward to Council for consideration.

8. Other/Additions

None.

Recommendations to Council

The Parks and Recreation Board discussed the projects and community events it would like to see completed in 2026.

As a result of the discussion the Board recommends that Council consider including the following items in the 2026 budget:

- **Corbetton Park Slide** – \$32,387.33 (inclusive of installation and HST)
- **Corbetton Park Shade Sails / Shade Structure** – \$1,500
- **Melancthon Weekend Celebrations** – \$7,000
- **Replacement of the Horning's Mills Park Sign** – \$1,000

Public Question Period

None.

Confirmation Motion

Moved by Hodgson, Seconded by J. Plowright that all actions of the Members and Officers of the Parks and Recreation Board with respect to every matter addressed and/or adopted by the Board on the above date are hereby adopted, ratified and confirmed; and each motion, resolution and other actions taken by the Board Members at the meeting held on the above date are hereby adopted, ratified and confirmed. Carried.

Adjournment

7:20 p.m. - Moved by Hodgson, Seconded by J. Plowright that we adjourn this Parks and Recreation Board meeting to meet again on Monday, February 23, 2026, at 7:00 p.m. or at the call of the Chair. Carried.

CHAIR

SECRETARY

Denise Holmes

From: Michelle Dunne <mdunne@dufferincounty.ca>
Sent: Wednesday, February 18, 2026 8:46 AM
To: Roads Department; Denise Holmes
Cc: Scott Burns
Subject: RE: Dufferin County Road Network Rationalization Plan- Implementation

Good morning,

As you are aware, correspondence was previously issued regarding the proposed implementation of Dufferin County's Road Network Rationalization Plan. The Plan identified a number of roads, associated assets, and townline bridges for potential upload to or download from the County, with an anticipated transfer date of June 1, 2026.

At a Special Meeting held on February 11, 2026, Council of the County of Dufferin adopted the following resolution:

“THAT Council deferred the Road Network Rationalization Plan implementation direction adopted on February 8, 2024 and reaffirmed through subsequent staff reports throughout 2025;

AND THAT staff be directed to report back early in the next term of Council.”

As a result of Council's decision, implementation of the Plan has been deferred for future consideration by the next term of Council. Each municipality will therefore continue to operate, maintain, and manage its existing road network, associated assets, and townline bridges until any potential further direction is provided by the next term of Council.

Staff will bring forward a comprehensive report early in the next term of Council to reassess the implementation strategy, timelines, and any necessary updates to the rationalization framework. No action is required from your municipality at this time. Any future consultation, information requests, or coordination efforts will be communicated well in advance and undertaken collaboratively.

We appreciate your continued partnership and cooperation as we work through this process.

Should you have any questions or require clarification, please feel free to contact Scott Burns, Director of Public Works/County Engineer.

Sincerely,

Michelle Dunne, Dipl.M.M.[Clerk] Office of the CAO
County of Dufferin|Phone: 519-941-2816 Ext. 2504
mdunne@dufferincounty.ca |55 Zina Street, Orangeville, ON L9W 1E5

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From: Michelle Dunne

Sent: Friday, January 9, 2026 11:06 AM

To: roads@melancthontownship.ca; Denise Holmes <dholmes@melancthontownship.ca>

Cc: Scott Burns <sburns@dufferincounty.ca>

Subject: Dufferin County Road Network Rationalization Plan- Implementation

Good morning ,

Please find attached a letter regarding a transfer of responsibilities for selected roads and large structures with the jurisdiction of Dufferin County.

Should you have any questions, please contact Scott Burns, Director of Public Works/County Engineer directly.

Kindest regards,

Michelle Dunne, Dipl.M.M.|Clerk| Office of the CAO

County of Dufferin|Phone: 519-941-2816 Ext. 2504

mdunne@dufferincounty.ca |55 Zina Street, Orangeville, ON L9W 1E5

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SEMI-ANNUAL GROUNDWATER MONITORING AND SAMPLING REPORT 2025

**Township of Melancthon Landfill Site
Lot 12, Concession 4
Melancthon Township, Ontario**

Project No. BG-924

Prepared for:

**The Corporation of the Township of Melancthon
157101 Highway 10,
Melancthon, ON.
L9V 2E6
ATTN: DENISE HOLMES, CAO/CLERK**

FEBRUARY 2026



BLUEWATER GEOSCIENCE CONSULTANTS INC.

42 Shadyridge Place
Kitchener, Ontario
N2N 3J1

Tel: (519) 502-8947
www.bluewatergeoscience.ca
E-mail: blemieux@rogers.com

February 12, 2026

The Corporation of the Township of Melancthon
157101 Highway 10,
Melancthon, Ontario L9V 2E6
Attn: Ms. Denise Holmes, CAO/Clerk

Dear Ms. Holmes:

**Re: 2025 Semi-Annual Groundwater Monitoring and Sampling Report,
Township of Melancthon Landfill Site, Lot 12, Concession 4
Melancthon Township, Ontario**

Bluewater Geoscience Consultants Inc. (Bluewater) was retained by The Corporation of the Township of Melancthon to complete the 2025 Semi-Annual Groundwater Monitoring and Sampling Report for the Melancthon Township landfill property located on Lot 12, Concession 4 in Melancthon Township, Ontario. The Township operates a municipal landfill site at the property and requires the Groundwater Monitoring and Sampling Program for their MECP Certificate of Authorization (C of A) for the operation.

The scope of work, observations, analytical test results, and our conclusions and recommendations for the 2025 Semi-Annual Groundwater Monitoring and Sampling Report are presented in the following report.

We trust that this report is complete within our terms of reference and suitable for your present requirements. If you have any questions or require further information, please do not hesitate to contact our office.

Sincerely,
BLUEWATER GEOSCIENCE CONSULTANTS INC.



Breton J. Lemieux, M.Sc., P.Geo. QP_{ESA}
President, Senior Geoscientist

BLUEWATER GEOSCIENCE

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Appendix B Groundwater and Methane Monitoring and Laboratory Results Tables

Appendix C Laboratory Certificate of Analysis

1.0 INTRODUCTION

The Corporation of The Township of Melancthon (Township) retained Bluewater Geoscience Consultants Inc. (Bluewater) to complete the 2025 landfill (LF) groundwater monitoring and sampling program and to generate the annual report detailing the findings. The landfill site monitoring was undertaken to continue to assess any environmental impacts to groundwater created by the LF operations. This landfill monitoring report was completed in accordance with the requirements of the Ministry of the Environment, Conservation and Parks (MECP) Certificate of Approval for the LF site.

The site monitoring included completing two site inspections, measuring groundwater levels in all 34 observation wells during the Spring and Fall of the year and determination of the resulting groundwater flow patterns in and around the LF. Groundwater sampling was conducted on 19 selected sampling wells during both the Spring and Fall of each year. The groundwater samples for 2025 were submitted to a CAEAL-accredited analytical laboratory for analysis. The results of the completed laboratory analyses were compared to MECP's Ontario Drinking Water Standards (ODWS) (for on-site monitors) and the Reasonable Use Policy (RUP) for off-site monitors.

2.0 PREVIOUS INVESTIGATIONS

2.1 R.J. Burnside & Associates Limited – Annual Groundwater Monitoring Reports 1993-2000

Annual groundwater monitoring reports for the LF were completed by R.J. Burnside & Associates Limited (Burnside) from 1993 – 2000. These reports included the sampling and analysis of groundwater samples from seventeen existing monitoring wells located in and around the LF site. Eleven of the monitors are located in the overburden aquifer while six are installed within the underlying bedrock aquifer. A summary of these reports indicates that no exceedance of the MOE RUP had been determined during the groundwater sampling events. In general, on-site monitoring locations indicated that exceedance of the MOE's ODWS for on-site monitors were rare and not sustained.

2.2 Rubicon Environmental Inc. – Groundwater Monitoring and Hydrogeological Investigations – Spring 2001

During 2001 Rubicon added another fourteen groundwater monitors to the existing network of monitors in and around the LF site. Eight of these monitors were installed in the overburden aquifer while six were installed in the bedrock aquifer.

During the 2001 investigations, the existing monitoring wells installed by Burnside were sampled and analysed. The additional monitoring wells were tied into the site survey, but not sampled.

2.3 Rubicon Environmental Inc. – Groundwater Monitoring and Hydrogeological Investigations – Spring 2002

This report included results of the Spring and Fall 2002 site monitoring and groundwater sampling and analysis program. The monitoring and sampling included the new monitors added during 2001.

2.4 Rubicon Environmental Inc. – Landfill Monitoring – March 24, 2004

This report provides details of the 2003 LF groundwater monitoring and sampling program completed at the site. The report details that some minor exceedances of the ODWS were determined for on-site monitoring wells.

2.5 Bluewater Geoscience Consultants Inc. – Annual Groundwater Monitoring and Sampling Reports 2004 - 2024

These reports detail the 2004 - 2024 LF groundwater monitoring and sampling program completed at the site. The report details that some minor exceedances of the ODWS were determined for on-site and off-site monitoring wells.

3.0 SITE BACKGROUND

The LF site has been in operation since ~1973 at its current location at Lot 12, Concession 4, Township of Melancthon, County of Dufferin. The LF serves the population of ~2,400 people in the Township. The nearest residence is located ~450 m south of the LF site. The location of the LF is remote and distant from any significant population centres.

The LF presently operates under Provisional Certificate of Approval (C of A) A180703. The total LF property comprises an area of ~33.038 ha., of which 6.1 ha. has been approved for landfilling. During 2013 the County of Dufferin assumed waste collection and disposal services in the Township of Melancthon. Further waste disposal at this landfill is not anticipated should County of Dufferin services be found adequate.

3.1 Site Inspection

During both Spring and Fall monitoring events, a site inspection was completed. The main refuse disposal area has been covered with soil and grades have been established to reduce the amount of rainwater infiltration into the waste pod. Temporary fencing has been placed around portions of the fill area to control windblown waste. There was no waste placement at this landfill during 2025.

During the Spring 2006 inspection it was noted that OW-4S had been destroyed, likely by equipment working in the area. OW-4S is located within the current filling are. During the Fall inspection it was noted that OW-4D had been destroyed during the summer months. OW-4D was also located within the current filling area. During 2015, monitor OW-17 was destroyed and is no longer part of the monitoring network.

4.0 GROUNDWATER MONITORING WELLS AND METHODOLOGY

4.1 Existing Monitoring Wells in 2025

Thirty-four groundwater-monitoring wells were in existence at the commencement of the 2025 monitoring period. All wells were inspected and found to be in good order, with the exceptions noted just above.

Seventeen monitoring wells had been installed by Burnside pre-2001. Six of these were installed in the deeper bedrock aquifer (denoted “D” for deep) while eleven were installed in the shallow overburden aquifer (denoted “S” for shallow). All existing monitoring wells were constructed of 50 mm diameter Schedule 40 PVC pipe and are fitted with steel protective casings and locks. The locations of all monitoring wells are presented on the Base Site Plan (Figure 1B, Appendix A). A brief description of each monitor locations is provided below:

- OW 1 is installed in the overburden aquifer and is located between two former refuse disposal areas
- OW 2S and OW 2D are located downgradient (east) of the current refuse disposal area
- OW 3S and OW 3D are located immediately downgradient (east) of the current refuse disposal area
- OW 4S and OW 4D are no longer present
- OW 5S is installed in the overburden aquifer and is located north of the disposal area, near the northern property boundary. This monitor is frequently dry in Fall
- OW 6S and OW 6D are located near the south property boundary and had been intended to represent background water quality
- OW 7S and OW 7D are located near the northeast property corner, northeast of the former refuse disposal area
- OW 8 is installed in the overburden aquifer and is located in the main refuse area. OW 8 is considered a ‘leachate’ well
- OW 9S and OW 9D are located off-site, northeast of the landfill and in the east ditch of the 4th Line
- OW 10S and OW 10D are located east of the main refuse disposal area
- OW 11S and OW 11D are located northwest of the main refuse disposal area. These monitors were intended to provide further clarification of groundwater flow patterns and are not included in the sampling program
- OW 12S and OW 12D are located west of the main refuse disposal area. These monitors were intended to provide further clarification of groundwater flow patterns and have been included since the 2006 sampling program;
- OW 13S and OW 13D are located immediately south of the main refuse disposal area. These wells were located to provide better delineation of the groundwater mounding in the refuse area and provide chemical data south of the refuse area;
- OW 14S is located southeast of the main refuse disposal area and was intended to help clarify groundwater flow patterns distant from the refuse disposal area;
- OW 15S and OW 15D are located southeast of the main refuse disposal area and were intended to help clarify groundwater flow patterns distant from the main refuse disposal

- area. These monitors were sampled for the first time during 2006;
- OW 16S and OW 16D are located along the north property boundary. These monitors were intended to provide clarification of groundwater flow patterns and provide chemical analysis of groundwater at the north property boundary. These monitors were sampled for the first time during the 2006 program;
 - OW 17S is located off-site in the overburden aquifer. The monitor is located in the east ditch of the 4th Line. This monitor was intended to provide better information on shallow groundwater flow patterns and potentially provide chemical data regarding the contribution of road salt to noted groundwater impacts. This monitor was destroyed in 2015 and has not been replaced;
 - OW 18S and OW 18D are located off-site east of the 4th Line. These monitors were intended to help refine groundwater flow patterns in the overburden and bedrock aquifers and provide chemical data in that area.

4.2 Wells Installed in 2006

During 2006 an additional six monitoring wells were installed at the landfill. The six new wells consisted of three sets of two wells (OW-19S and 19I, OW20S and 20D and OW-21S and 21D). The locations of the new wells are shown on Figure 1B, Appendix A. A description of the location and rationale for each of the new wells is presented below:

- OW-19S and OW-19I are located in the southeast corner of the landfill property, just west of the 4th Line. These wells were installed to provide additional points for determining groundwater flow patterns and to provide chemical data at this downgradient property boundary. OW-19S is set in the shallow till overburden while OW-19I (intermediate) is set in a lower till unit. These two wells were included in the 2007 sampling and lab analysis program for the first time;
- OW-20S and OW-20D are located just southeast of the 'old closed landfill' in the northeast portion of the landfill property. These wells will provide further groundwater flow data as well as providing additional chemical data. OW-20S is set in the shallow overburden, just above the bedrock. OW-20D is sealed into the bedrock. These two wells were included in the 2007 sampling and lab analysis program for the first time;
- OW-21S and OW-21D are located along the north landfill property boundary, well west of the active landfilling area. These wells will be utilized to provide additional groundwater flow information as well as providing chemical data at locations well upgradient of the fill area. OW-21S is set in the shallow overburden, just above the bedrock. OW-21D is sealed into the dolostone bedrock. These two wells were included in the 2007 sampling and lab analysis program for the first time;

All groundwater-monitoring wells have been surveyed relative to a geodetic datum and ground surface and top of monitoring well pipe elevations have been recorded. During 2006, waste placement was taking place in the immediate area of OW-4S and OW-4D. These wells were destroyed by the heavy equipment. OW-17 was destroyed during the winter of 2014-2015 and is no

longer part of the monitoring network.

4.3 Water Level Monitoring

On April 28 and October 15, 2025 groundwater levels were measured in all 34 existing monitoring wells installed at the LF. The depth to water relative to the top of monitoring well pipe was measured using a Solinst water level gauge. The determined water depths were recorded and the resulting groundwater elevations were determined. Table 1, Appendix B provides the tabular representation of the groundwater elevation data, including historic groundwater levels.

After completion of the water level measurements, the monitors selected for sampling were thoroughly purged of a minimum of 3 casing volumes of water in anticipation of the groundwater sampling.

4.4 Groundwater Sampling

The 2025 groundwater sampling and analysis program consisted of sampling 19 selected groundwater monitoring locations at and around the LF property. During the fall 2025 monitoring it was determined that wells OW-5, OW-8 and OW-12S were dry and were therefore not sampled. Samples were obtained from both overburden and bedrock aquifer wells. Prior to obtaining the groundwater samples, the selected monitors had been purged of a minimum of three casing volumes of water in order to facilitate provision of representative samples.

Groundwater samples from the selected monitoring wells were obtained using dedicated Waterra tubes and foot valves and were placed directly into the laboratory-supplied sample bottles. The groundwater samples were obtained and submitted for analysis of the volatile organic compounds (VOC's), general water chemistry and heavy metals parameters. The heavy metal samples were field filtered and preserved. The groundwater samples were chilled in coolers prior to being submitted under Chain of Custody to ALS Laboratories of Waterloo, ON for analysis. ALS is a CAEAL (Canadian Association of Environmental Analytical Laboratories) accredited laboratory.

4.5 Surface Water Sampling

Surface water sampling was not completed during the 2025 monitoring program.

4.6 Groundwater Flow

The determination of groundwater flow patterns in both overburden and bedrock aquifers are essential in determining the potential for off-site impacts and contaminant distribution. In general, groundwater levels in both overburden and bedrock aquifers were lower (~1m) in the Fall than the Spring monitoring. The measured groundwater elevations for each aquifer were determined and plotted on the site plan. The resulting groundwater flow patterns were determined based on this distribution. Figures 2 and 3 present the groundwater flow patterns for the Spring monitoring while Figures 4 and 5 provide the Fall 2025 aquifer flow patterns.

As may be noted from these Figures, mounding of groundwater in both aquifers within the refuse disposal area is occurring. This phenomenon is typical of landfill sites and should be expected to continue. The mounding creates radial flow, outwards, apparently in all directions away from the refuse disposal area. The flow then comes under the influence of background flow patterns. Based on the findings of this, and previous, monitoring events, the overburden groundwater flow is towards the northeast while the bedrock groundwater flow is more-directly eastwards.

Groundwater flow is driven by the gradient of the groundwater. This produces head differences between locations creating the conditions for groundwater movement. The horizontal hydraulic gradient in the overburden aquifer has been determined to be on the order of 0.007 m/m. Based on this gradient, and the characteristics of the overburden, the lateral groundwater flow velocity may be approximately 74 m/yr. The horizontal hydraulic gradient in the bedrock aquifer is lower; approximately 0.002 m/m. Based on this gradient and the characteristics of the aquifer, velocities of approximately 0.03 m/yr are estimated.

Vertical hydraulic gradients between the overburden and bedrock aquifers create the conditions for downward migration of groundwater impacted in the refuse disposal area. Downward vertical gradients allow downward movement of water into the bedrock aquifer. Downward vertical gradients are found in the refuse disposal area allowing shallow impacted groundwater to potentially enter the bedrock aquifer. This is significant because the bedrock aquifer is utilized as a potable water source within the Township and the bedrock aquifer is less able to attenuate groundwater contaminants.

5.0 GROUNDWATER QUALITY

5.1 Groundwater

Groundwater sampling and analysis for the LF site has been undertaken since 1993. Additional wells were added to the sampling regime in 1999 and selected monitoring wells installed in 2001 were added to the sampling list during 2002. Groundwater quality data for the 2024 program are provided in the Tables in Appendix B along with chemistry data from 2017 - 2023. Copies of the detailed Certificates of Analysis for the 2024 monitoring data are provided in Appendix C.

Inorganic parameters such as chloride, sulphate, hardness and alkalinity are frequently utilized to determine the extent of landfill leachate impacts in groundwater. Hardness and alkalinity are naturally elevated at the landfill property and throughout Melancthon Township. Chloride levels in both overburden and bedrock aquifers are elevated in the refuse disposal area. In general, concentrations in the bedrock aquifer are slightly higher than in the associated overburden wells. This is a reflection of the downward gradient from the overburden to the bedrock coupled with the lower attenuation capabilities in the bedrock. None of the on-site or off-site monitors exceeded the MECP ODWS concentration for chloride during the 2025 monitoring events. None of the wells sampled during 2025 exceeded the MOE RUP for chloride (125.5 mg/L) concentration. Elevated chloride concentrations in the vicinity of the 4th Line, east of the LF, may be partially attributable to the application of road salt during winter.

In general, the background groundwater quality at the LF site consists of hard water with elevated hardness, alkalinity, manganese and iron content. During the 2025 monitoring, alkalinity concentrations in excess of the ODWS were noted at OW's 2S, 2D, 3D, 7S, 7D, 9D, 16D and 20D. Iron concentrations in excess of the ODWS were determined at all sampled wells including upgradient locations. Manganese concentrations in excess of the ODWS were determined for OW's 2S, 2D, 3S, 3D, 7S, 7D, 8, 10S, 10D, 13D, 16D, 20S and 20D. As this list includes most sampled location these elevated concentrations are likely reflective of background groundwater quality in the area. The lack of significantly elevated manganese concentrations at OW-8, which is considered a leachate well and displays elevated sulphate concentrations, further suggests that elevated manganese concentrations are not landfill related.

The sulfate concentration at OW 8 of 359 mg/L in Spring 2025 was below the ODWS of 500 mg/L and above the RUP of 253.9 mg/L. During the Fall 2025 monitoring, OW 8 was determined to be dry and was not sampled. The elevated concentration of sulfate is likely related to leachate groundwater impacts in the main refuse disposal area. No other on-site or off-site monitor exceeded the RUP for sulphate.

Parameter concentration trends through time for sulphate, chloride and manganese for selected off-site, property boundary and downgradient wells were reviewed. Manganese concentrations trends do not suggest rising levels as would be expected if landfill related. Chloride trends do not suggest rising concentrations for these wells. In fact, several locations have shown slightly declining levels over the last few years. This is likely reflective of an effort on Township personnel's behalf to reduce salting in the area of the landfill entrance after several elevated chloride concentrations were detected in past years. As suggested at that time, those past elevated chloride concentrations appear to have been affected by these road salting activities.

The sulfate concentration trends for the selected wells show generally rising concentrations at OW-2S and OW-2D. Sulfate concentrations at the other selected wells do not indicate any discernible rising trends. Sulfate concentrations are generally higher in Fall than Spring. A site plan showing concentration distribution during Spring 2025 for shallow groundwater wells is provided in Figure 6 and for deep groundwater wells is provided in Figure 8, Appendix A. A site plan showing concentration distribution for Sulfate during Fall 2025 for shallow wells is provided on Figure 10 and for deep groundwater wells is provided on Figure 12, Appendix A.

A site plan showing chloride distribution during Spring 2024 is provided in Figure 7 for shallow groundwater wells and in Figure 9 for deep groundwater wells. A site plan showing chloride distribution during Fall 2024 is provided in Figure 11 and for shallow groundwater wells and in Figure 13 for deep groundwater wells.

Trace concentrations of VOC parameters, well below ODWS's and close to method detection limits, were determined for the 2025 monitoring at OW's 2D, 3D, 7S, and 10S. While these VOC concentrations are likely landfill related, they are not considered to be of significance at this landfill.

There was a general trend towards higher parameter concentrations during the Fall monitoring compared to Spring concentrations. This is a continuing trend, consistent with past findings and normal groundwater conditions.

Bluewater has evaluated the long-term trends in groundwater quality at the LF site. Most parameter concentrations have remained fairly steady over the past several years suggesting that dilution and attenuation are dealing adequately with the refuse area derived leachate impacts.

5.2 Surface Water

Surface water sampling was not completed during the Spring or Fall 2025 monitoring.

5.3 Methane Monitoring

Methane gas is a by-product of waste decomposition and will be generated in the waste unit until all the organic matter is completely decayed. Methane, while it is a potential explosion hazard, is not a major concern provided that no building is ever permitted within approximately 30 meters of the refuse disposal area. The shallow water table and relatively permeable cover material at the Melancthon landfill are expected to prevent significant migration of methane. Gas produced by the landfill is expected to vent naturally to the atmosphere. It should be noted however, that ice, snow cover, and frozen ground in the winter may prevent methane gas from venting and cause methane gas to migrate laterally from the refuse disposal area.

If methane is present in concentrations between 5% and 15% in air it can become explosive. Below this range, there is an inadequate amount of methane for explosion. Above this range, there is an inadequate amount of oxygen for explosion. Therefore, 5% is considered the Lower Explosive Limit (LEL) and 15% is considered the Upper Explosive Limit (UEL) for methane.

Headspace methane monitoring was completed on all wells during both Spring and Fall 2025 monitoring events. The results of the methane monitoring are presented in Table 2 Appendix B. A slight detectable methane concentration was determined for OW-8 however no other of the monitors had detectable methane concentrations during the Spring or Fall 2025 monitoring events. On-going methane monitoring should be incorporated in future monitoring events.

6.0 LANDFILL VOLUMES AND CAPACITY

The Melancthon landfill has a current design capacity of 297,000 m³ on the approved 6.1 ha area. At the completion of 2012, 89,326 m³ of the total volume had been filled. The volume survey completed during October 2013 determined that the landfill volume used during 2013 was 10,636 m³ meaning the total volume used to the end of 2015 is 99,962 m³. The 2013 volume included the importation of ~ 2,000 m³ of clean fill to cover the current fill area based on the end of waste receiving at the site. No waste was added during 2025. Based on this figure, the remaining fill volume for this design is 197,038 m³.

7.0 SUMMARY AND CONCLUSIONS

The following section summarizes the findings of the 2025 Annual Groundwater Monitoring Report:

- The Township of Melancthon operates a ‘natural attenuation’ landfill site in a remote, sparsely populated area of the Township. Surrounding land use is predominantly agricultural and the nearest residence is located ~450 m south of the site;
- During 2013 The County of Dufferin assumed waste collections and disposal responsibilities for Melancthon Township. No waste was imported to the landfill during 2025. At this time, further waste placement at this landfill is not anticipated given adequate service is maintained by the County;
- Two main hydrogeological units exist in the subsurface of the site. The upper unit, referred to as overburden, consists of sand and gravel and silty sand soils. The groundwater level in the overburden is unconfined and shallow (<2m) and shows seasonal fluctuations with Spring levels generally higher than those in Fall. This fluctuation is likely the result of the addition of snow melt water during the Spring. The second, deeper hydrogeological unit is the underlying dolostone bedrock aquifer. The water level in the bedrock is generally lower than in the overburden. This creates a downward vertical hydraulic gradient that allows landfill-generated impacts to potentially enter the bedrock aquifer;
- Mounding of groundwater occurs within both hydrogeological units within the refuse disposal area. This mounding creates a radial flow pattern in the refuse area that drives flow in all directions away from the mound. The groundwater then comes under the influence of the background (natural) flow regime. Groundwater flow in the overburden aquifer is northeast towards the entrance to the landfill in the northeast corner of the property. Flow in the bedrock aquifer is more-directly to the east and the eastern property boundary;
- Comparison of the laboratory analytical data from the Spring and Fall 2025 monitoring events to the applicable ODWS and RUP objectives indicates that background water quality exceeds ODWS Standards for alkalinity, iron and manganese;
- Exceedance of the MOE RUP objectives for parameters such as hardness, alkalinity, manganese and iron were determined at most sampled locations during 2025. These concentrations are likely at least partially unrelated to landfill impacts and reflect general water quality in Melancthon Township. No chloride RUP exceedance was noted for any off-site or on-site wells. Exceedance of the RUP for other leachate-indicators such as sulfate was not noted during 2025 near property boundaries. Exceedance of the RUP and ODWS for sulfate occurred at OW-8, located immediately downgradient of the principal fill area.
- Significant methane concentrations were not determined during 2025;
- The site is currently in compliance with the terms and conditions of its C of A.

8.0 RECOMMENDATIONS

The following recommendations are made regarding the future Groundwater Monitoring and Sampling Program at the Township of Melancthon landfill site:

- Continuation of the semi-annual groundwater monitoring and sampling program including a routine site inspection, recording of static water levels at all 34 monitoring locations and groundwater sampling and laboratory analysis of the selected monitoring wells in both Spring and Fall;
- Preparation and submission of an Annual Monitoring Report to MECP for review.
- Natural dilution of contaminants derived in the refuse disposal area coupled with natural attenuation in the overburden appears to be dealing with derived groundwater impacts adequately at this time. The widespread occurrence, including upgradient locations, of ODWS and RUP exceeding manganese, iron, hardness and alkalinity concentrations appears to be more a function of natural geologic conditions than landfill-derived impacts. Lab results for monitors downgradient of the principal fill areas show more elevated chloride and sulphate concentrations, which are not similar to findings in the northeast corner of the property.
- Monitoring for headspace methane concentration in all wells should be continued for the 2026 program.

9.0 REFERENCES

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10.0 LIMITATIONS

This report was prepared for the exclusive use of The Township of Melancthon. This report is based on information and data collected during the completion of an environmental investigation of the Site carried out by Bluewater Geoscience Consultants Inc., and is based solely on the site conditions encountered at the time of the assessment and the applicable guidelines in place at the time of this investigation.

It should be noted that the observations and recommendations presented in this report are limited to the actual locations explored and laboratory parameters analyzed. The information presented in terms of the thickness and types of the sub-soils encountered, groundwater levels and chemical testing results, etc., are only applicable to the actual locations explored. Variations may be present between these locations. Should significant variation become apparent during later investigations, it may be necessary to re-evaluate the recommendations of this report. The results of an investigation of this nature should, in no way, be construed as a warranty that the site is free from any and all contamination from past or current practices since conditions may be different from the locations tested. This assessment was carried out using existing historical information as available from various agencies and no assurance is made regarding the accuracy or completeness of this

information.

If new information is discovered during future work, including excavation, borings or other studies, Bluewater Geoscience Consultants Inc. should be requested to re-evaluate the conclusions presented in this report and to provide amendments as required. The analytical test results are assumed to be correct and performed according to all current regulations. No audit of the laboratory's methods or procedures was performed.

This assessment does not include, nor is it intended to include, any option regarding the suitability of any structure on the site for any particular function, the integrity of the on-site buildings or the geotechnical conditions on the site. Inspections of buildings do not include compliance with building, gas, electrical or boiler codes, or any other federal, provincial or municipal codes not associated with environmental concerns. Should concerns regarding any issue other than environmental matters arise as a result of our investigations, appropriately qualified professionals should address them.

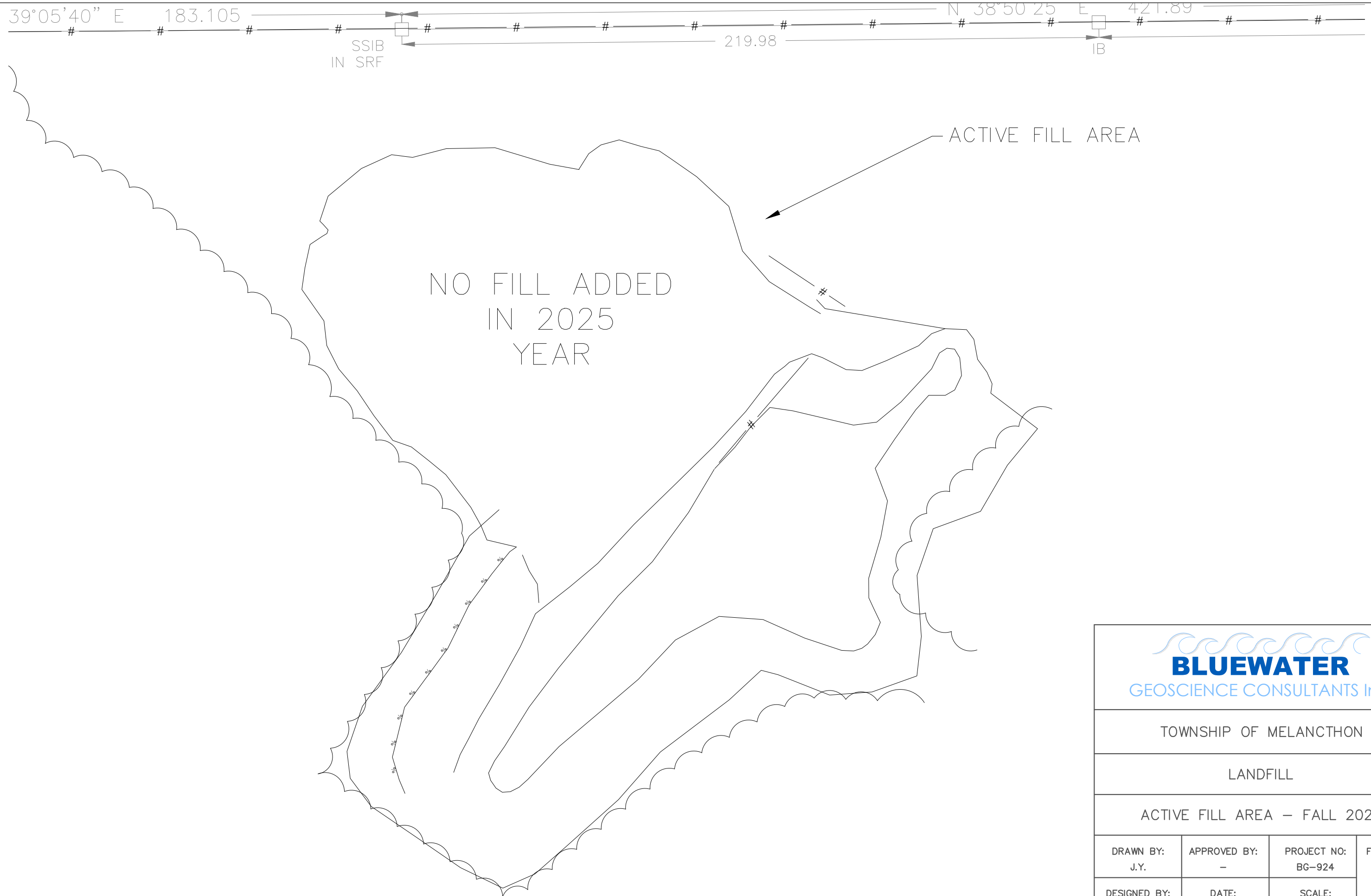
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11.0 CLOSURE

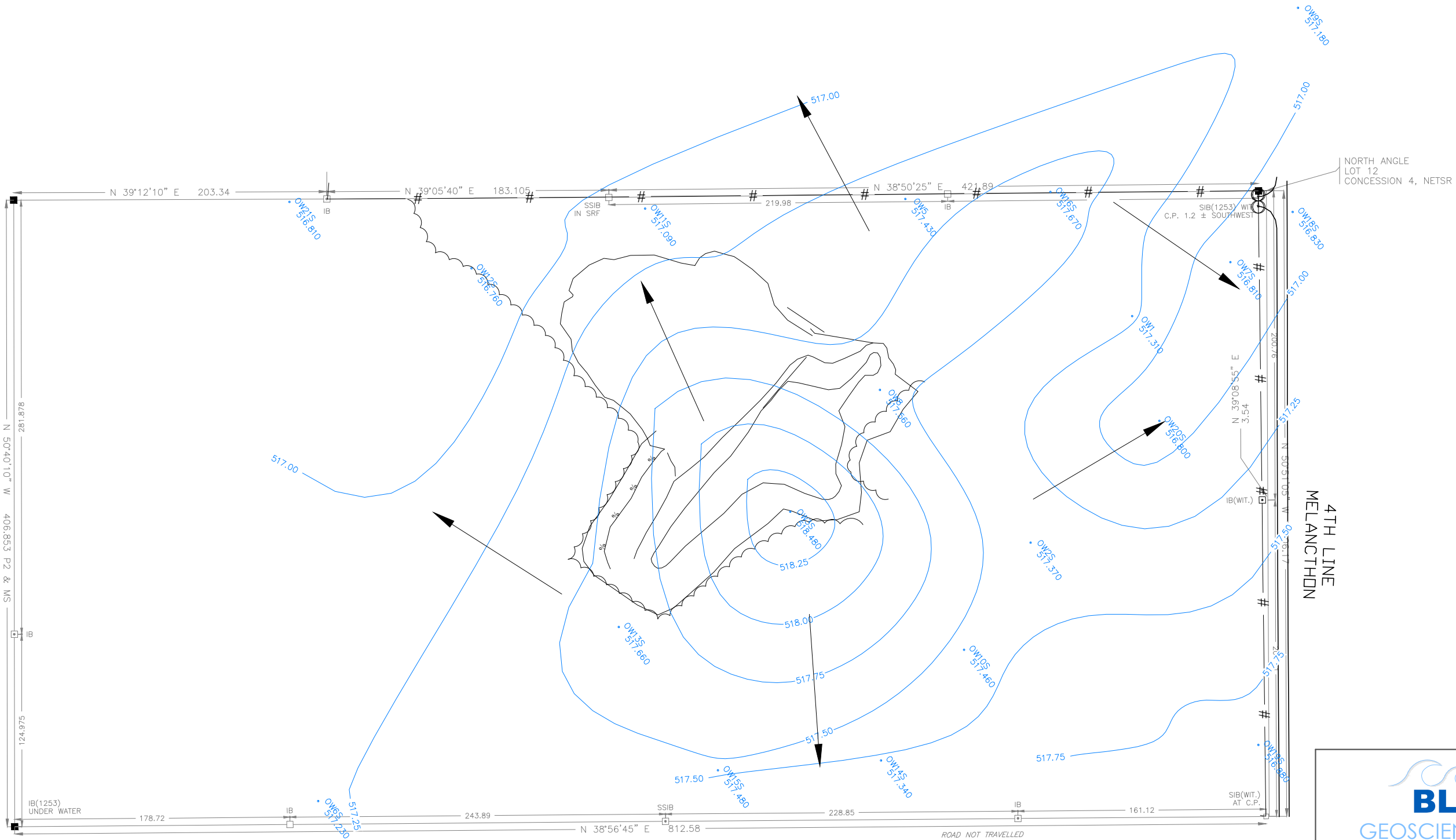
Bluewater Geoscience Consultants Inc. operates under a Certificate of Authorization from The Association of Professional Geoscientists of Ontario (APGO). Breton Lemieux is a registered Qualified Person (QP) with MECP and is a licensed Professional Geoscientist with over thirty-five years of international environmental consulting experience. Mr. Lemieux has a Geologic Technologist Diploma from Fleming College in Lindsay, Ontario, an Honours Bachelor of Science degree in Geology from the University of the West Indies in Kingston, Jamaica and a Master of Science degree in Earth Sciences from the University of Waterloo. His experience includes conducting Phase I, II and III ESAs at a wide variety of contaminated sites, underground storage tank removal supervision, water supply development, environmental building science and other site and landfill environmental monitoring projects.

APPENDIX A

FIGURES



 BLUEWATER GEOSCIENCE CONSULTANTS Inc.			
TOWNSHIP OF MELANCTHON			
LANDFILL			
ACTIVE FILL AREA – FALL 2025			
DRAWN BY: J.Y.	APPROVED BY: –	PROJECT NO: BG-924	FIGURE NO. 1
DESIGNED BY: –	DATE: DEC. 2025	SCALE: N.T.S.	



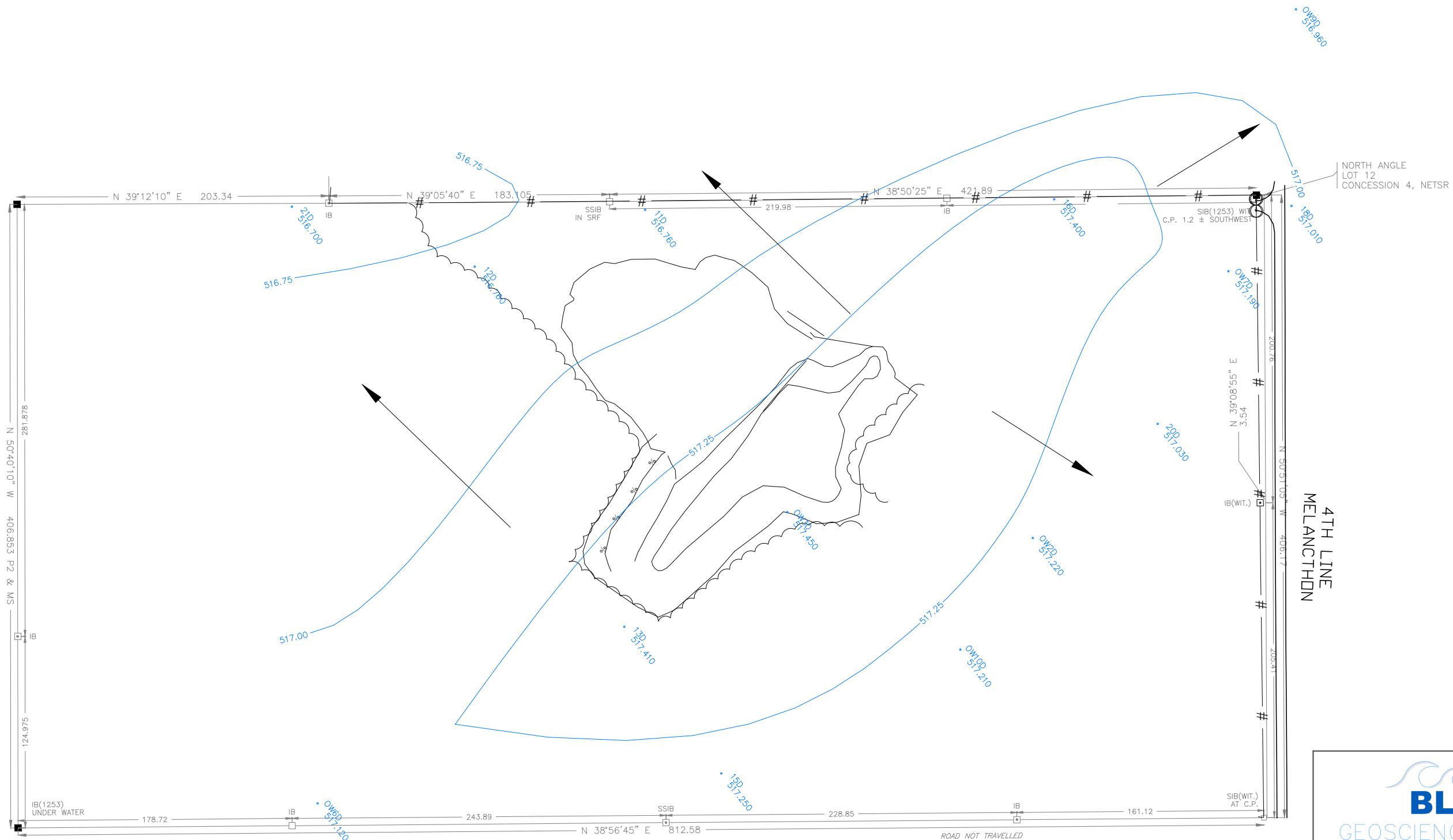


TOWNSHIP OF MELANCTHON LANDFILL

SHALLOW AQUIFER GROUNDWATER FLOW

SPRING 2025

DRAWN BY: J.Y.	APPROVED BY: —	PROJECT NO: BG-924	FIGURE NO. 2
DESIGNED BY: —	DATE: DEC. 2025	SCALE: N.T.S.	



15D 517.330 MONITOR WELL GROUNDWATER ELEVATION
517.25 GROUNDWATER CONTOUR (0.25m INTERVAL)
GW FLOW DIRECTION

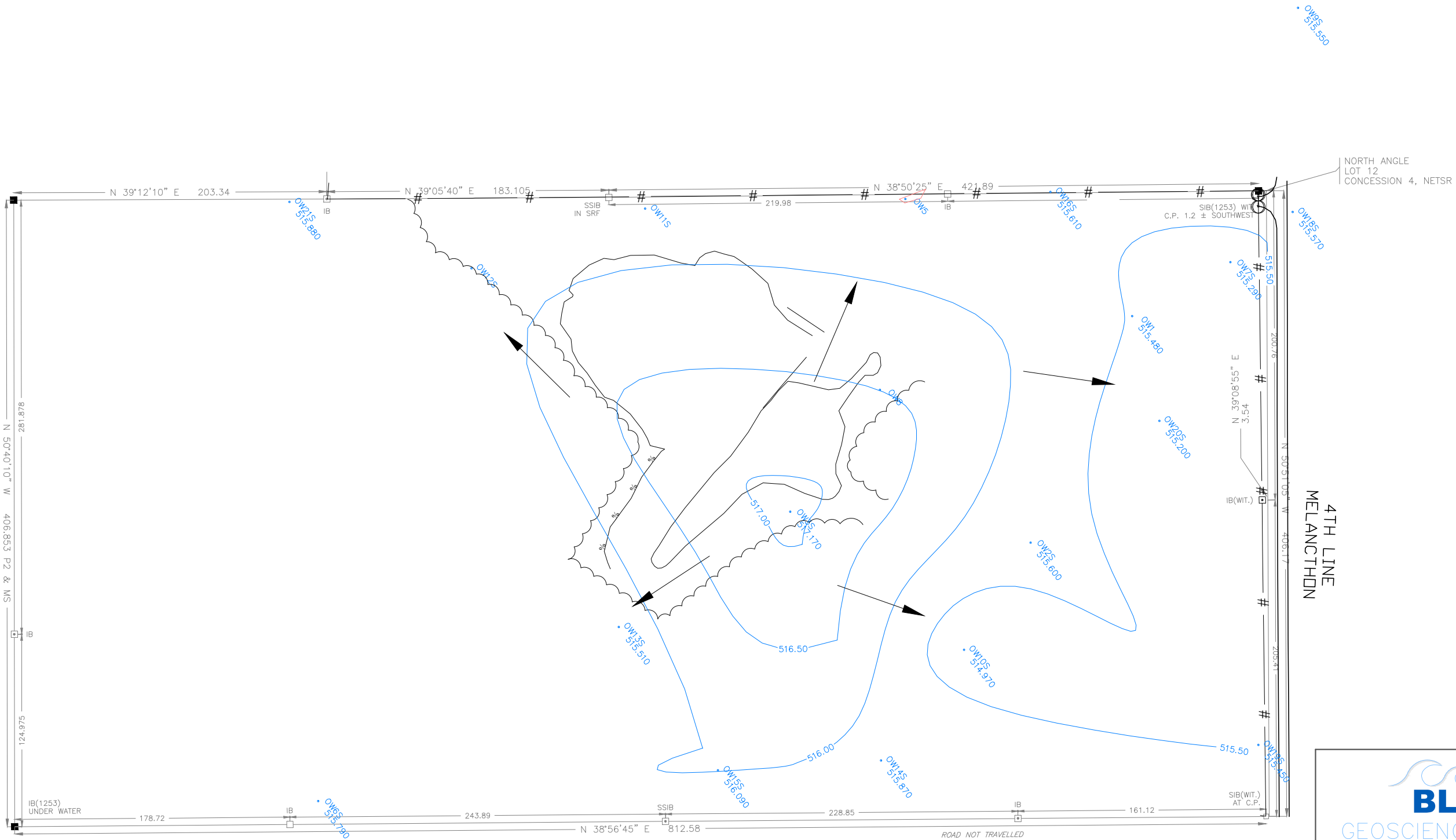


TOWNSHIP OF MELANCTHON LANDFILL

DEEP AQUIFER GROUNDWATER FLOW

SPRING 2025

DRAWN BY: J.Y.	APPROVED BY: —	PROJECT NO: BG-924	FIGURE NO. 3
DESIGNED BY: —	DATE: DEC. 2025	SCALE: N.T.S.	



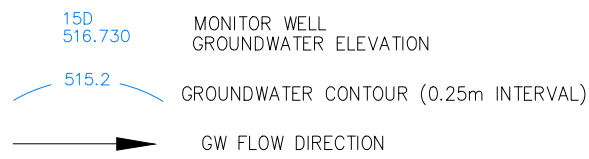
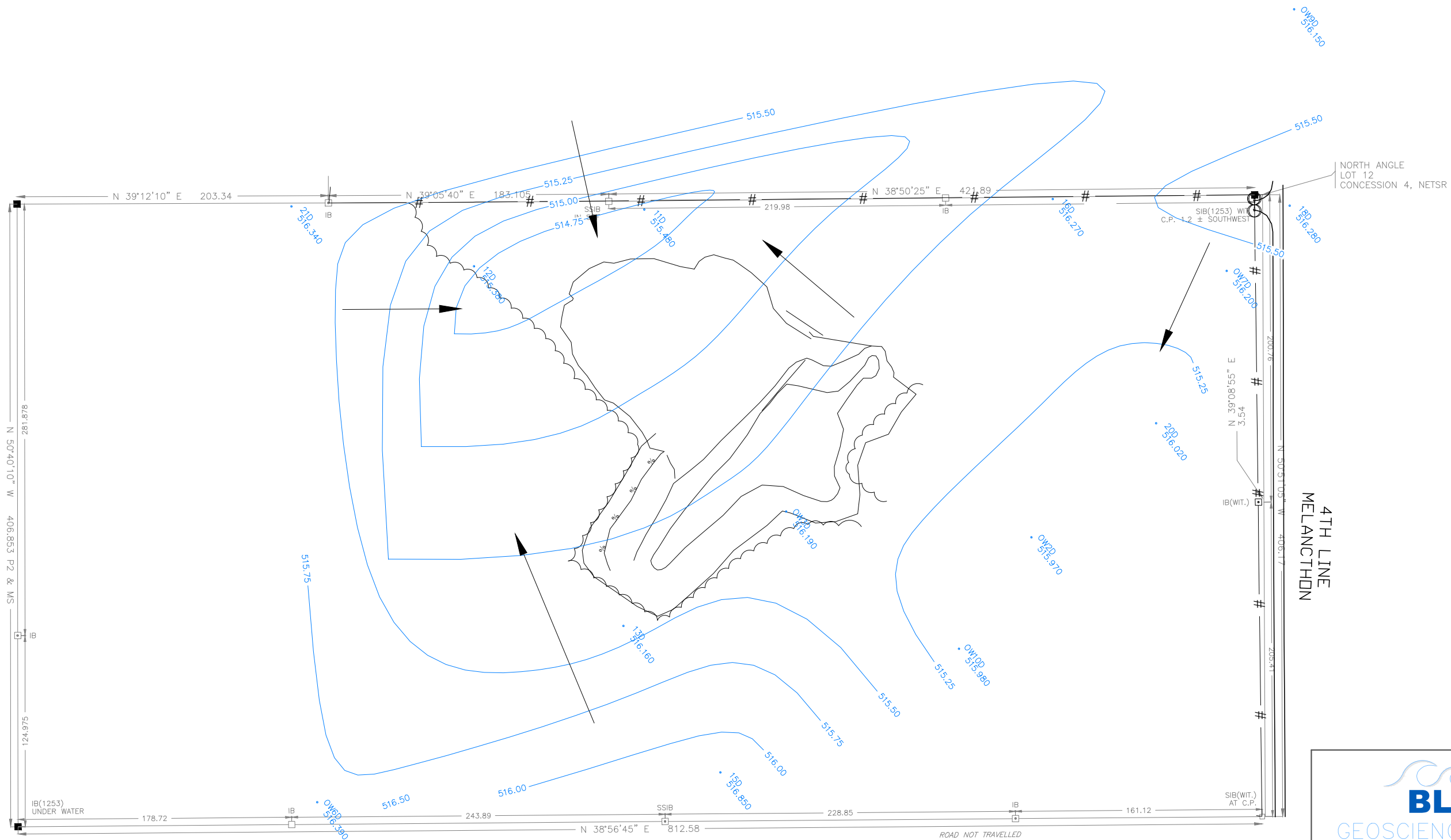
BLUEWATER
GEOSCIENCE CONSULTANTS Inc.

TOWNSHIP OF MELANCTHON LANDFILL

SHALLOW AQUIFER GROUNDWATER FLOW

FALL 2025

DRAWN BY: J.Y.	APPROVED BY: —	PROJECT NO: BG-924	FIGURE NO. 4
DESIGNED BY: —	DATE: DEC. 2025	SCALE: N.T.S.	



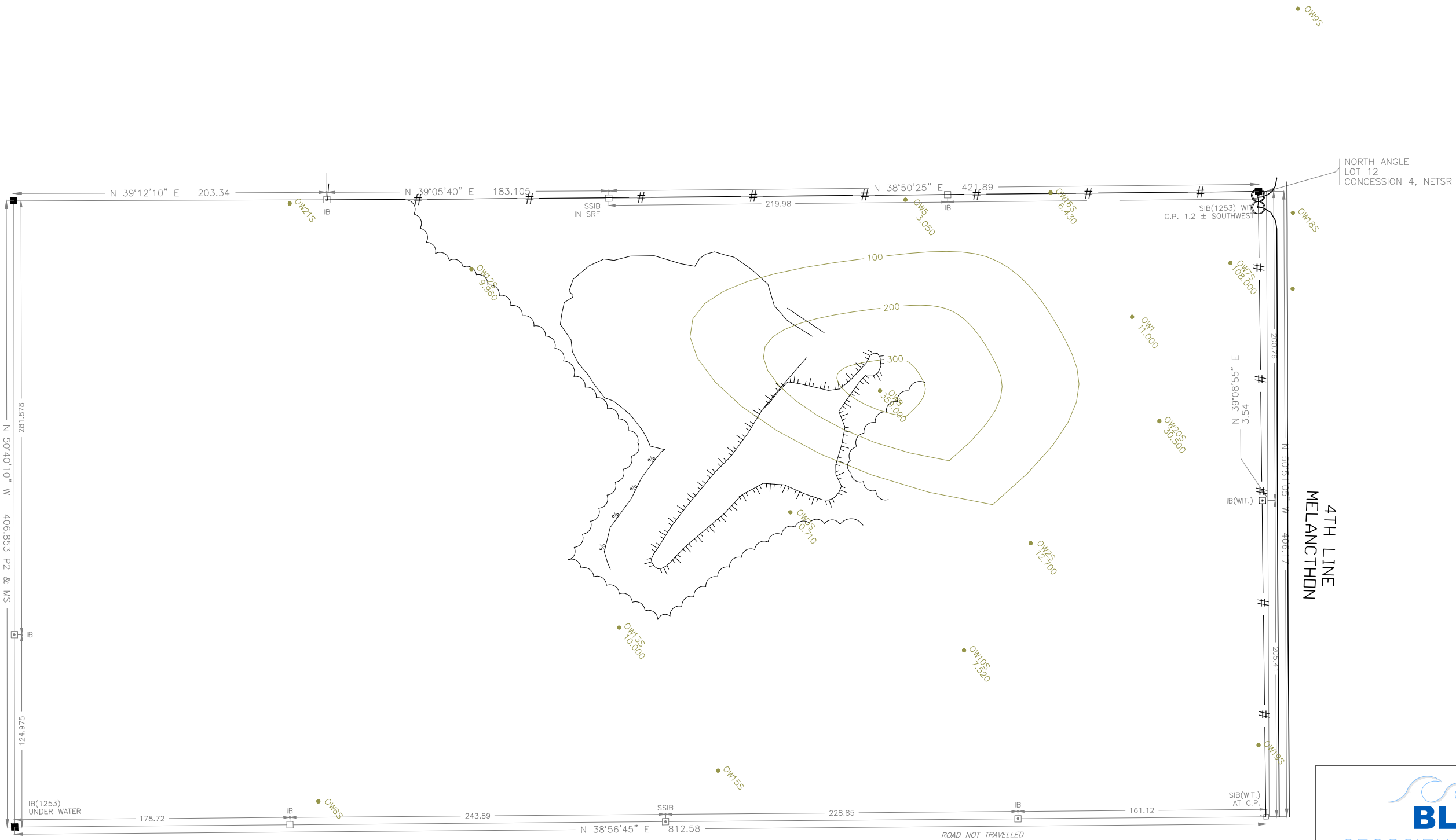
BLUEWATER
GEOSCIENCE CONSULTANTS Inc.

TOWNSHIP OF MELANCTHON LANDFILL

DEEP AQUIFER GROUNDWATER FLOW

FALL 2025

DRAWN BY: J.Y.	APPROVED BY: —	PROJECT NO: BG-924	FIGURE NO. 5
DESIGNED BY: —	DATE: DEC. 2025	SCALE: N.T.S.	





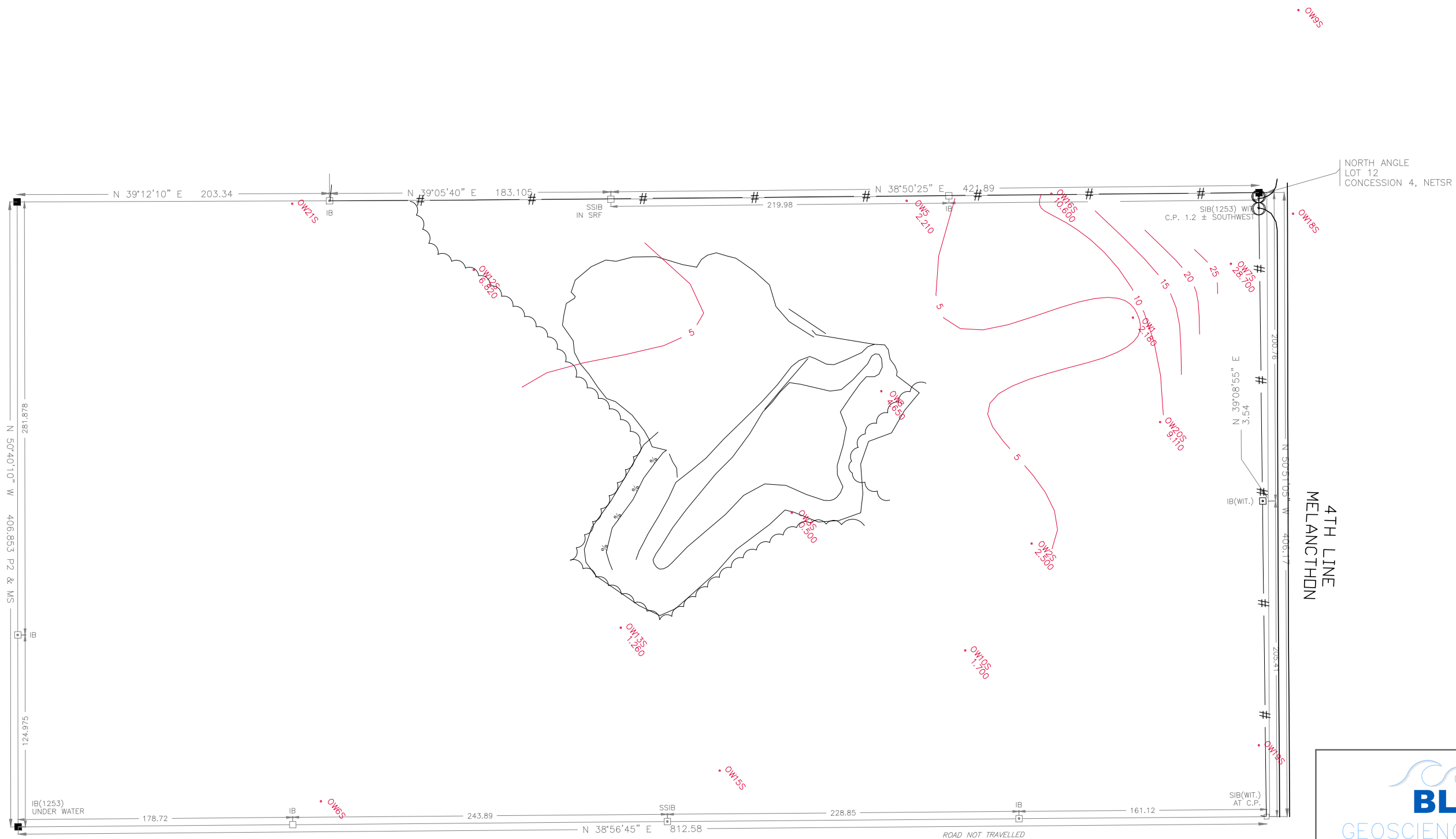
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GEOSCIENCE CONSULTANTS Inc.

TOWNSHIP OF MELANCTHON LANDFILL

SULPHATE G.W. CONCENTRATION

SHALLOW AQUIFER — SPRING 2025

DRAWN BY: J.Y.	APPROVED BY: —	PROJECT NO: BG-924	FIGURE NO. 6
DESIGNED BY: —	DATE: DEC. 2025	SCALE: N.T.S.	



NORTH ANGLE
LOT 12
CONCESSION 4, NETSR

4TH LINE
MELANCTHON



BLUEWATER
GEOSCIENCE CONSULTANTS Inc.

TOWNSHIP OF MELANCTHON LANDFILL

CHLORIDE G.W. CONCENTRATION

SHALLOW AQUIFER — SPRING 2025

DRAWN BY: J.Y.	APPROVED BY: —	PROJECT NO: BG-924	FIGURE NO. 7
DESIGNED BY: —	DATE: DEC. 2025	SCALE: N.T.S.	

OW20S
30.100
MONITOR WELL
CHLORIDE GW CONCENTRATION (mg/L)

10.0
CHLORIDE GW CONTOUR (5mg/L INTERVAL)



● OW16D 48.100 MONITOR WELL
SULPHATE GW CONCENTRATION (mg/l)
— 20.0 — SULPHATE GW CONTOUR (20mg/L INTERVAL)

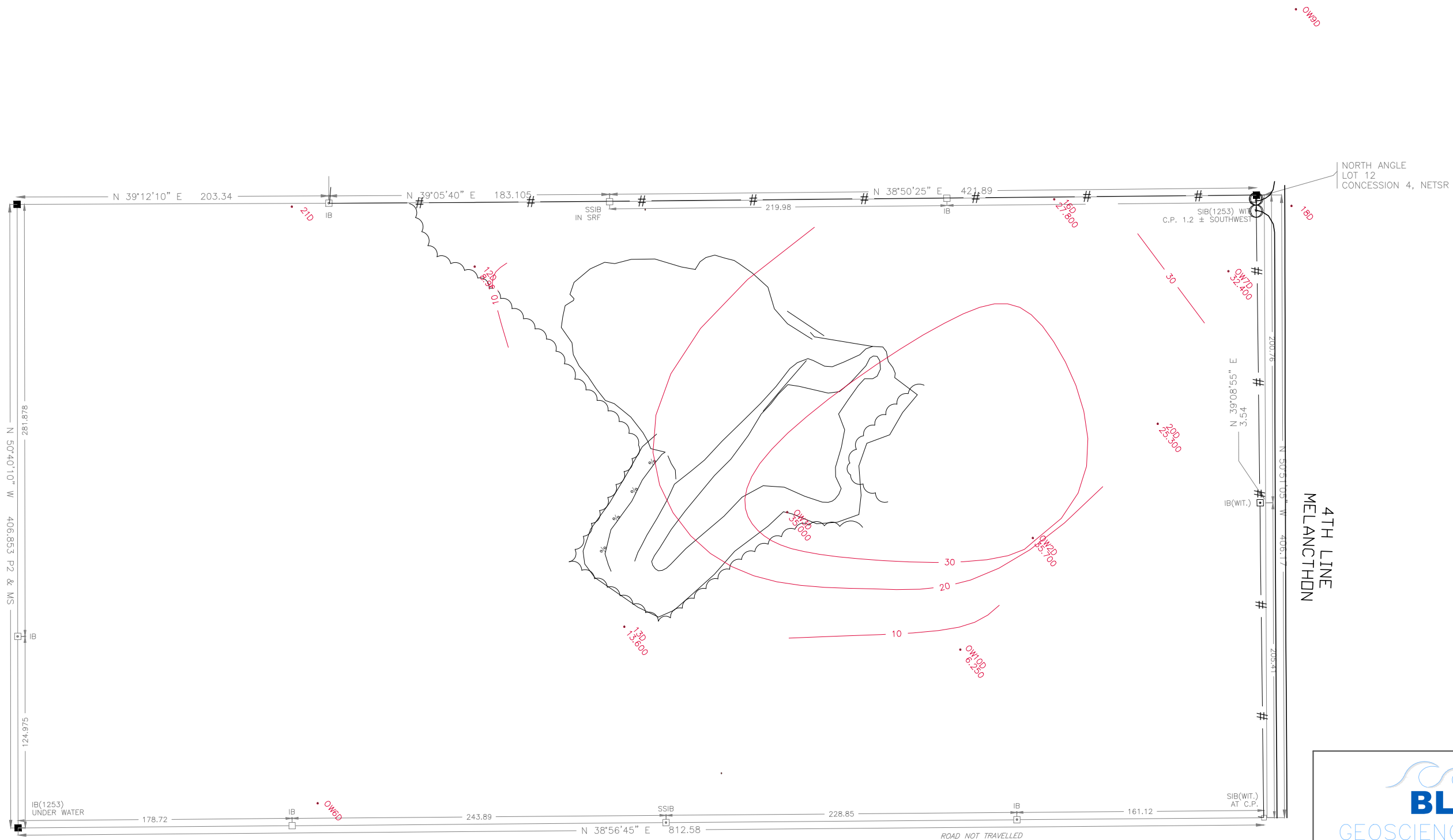


TOWNSHIP OF MELANCTHON LANDFILL

SULPHATE G.W. CONCENTRATION

DEEP AQUIFER – SPRING 2025

DRAWN BY: J.Y.	APPROVED BY: —	PROJECT NO: BG-924	FIGURE NO. 8
DESIGNED BY: —	DATE: DEC. 2025	SCALE: N.T.S.	



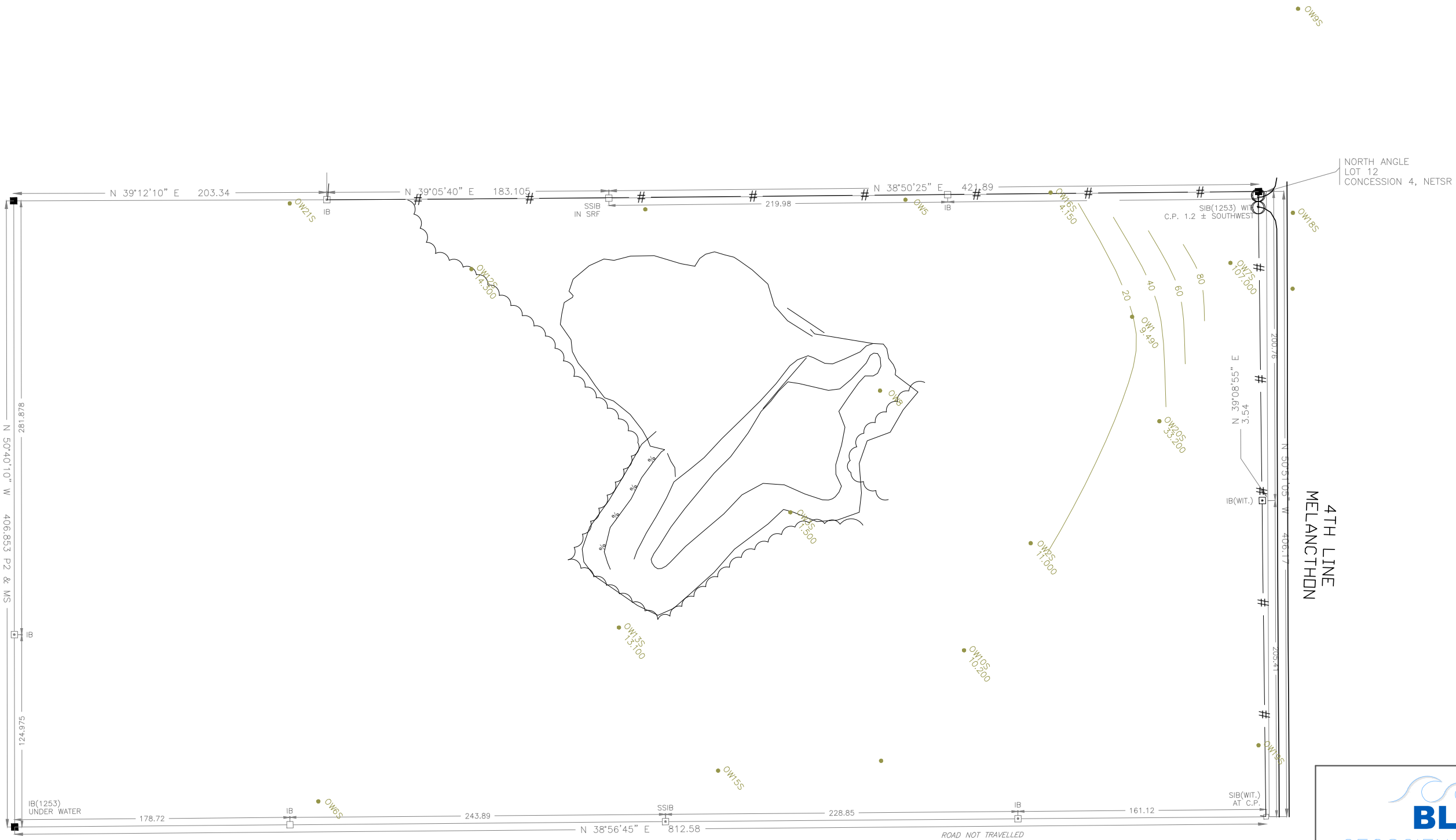


TOWNSHIP OF MELANCTHON LANDFILL

CHLORIDE G.W. CONCENTRATION

DEEP AQUIFER – SPRING 2025

DRAWN BY: J.Y.	APPROVED BY: —	PROJECT NO: BG-924	FIGURE NO. 9
DESIGNED BY: —	DATE: DEC. 2025	SCALE: N.T.S.	



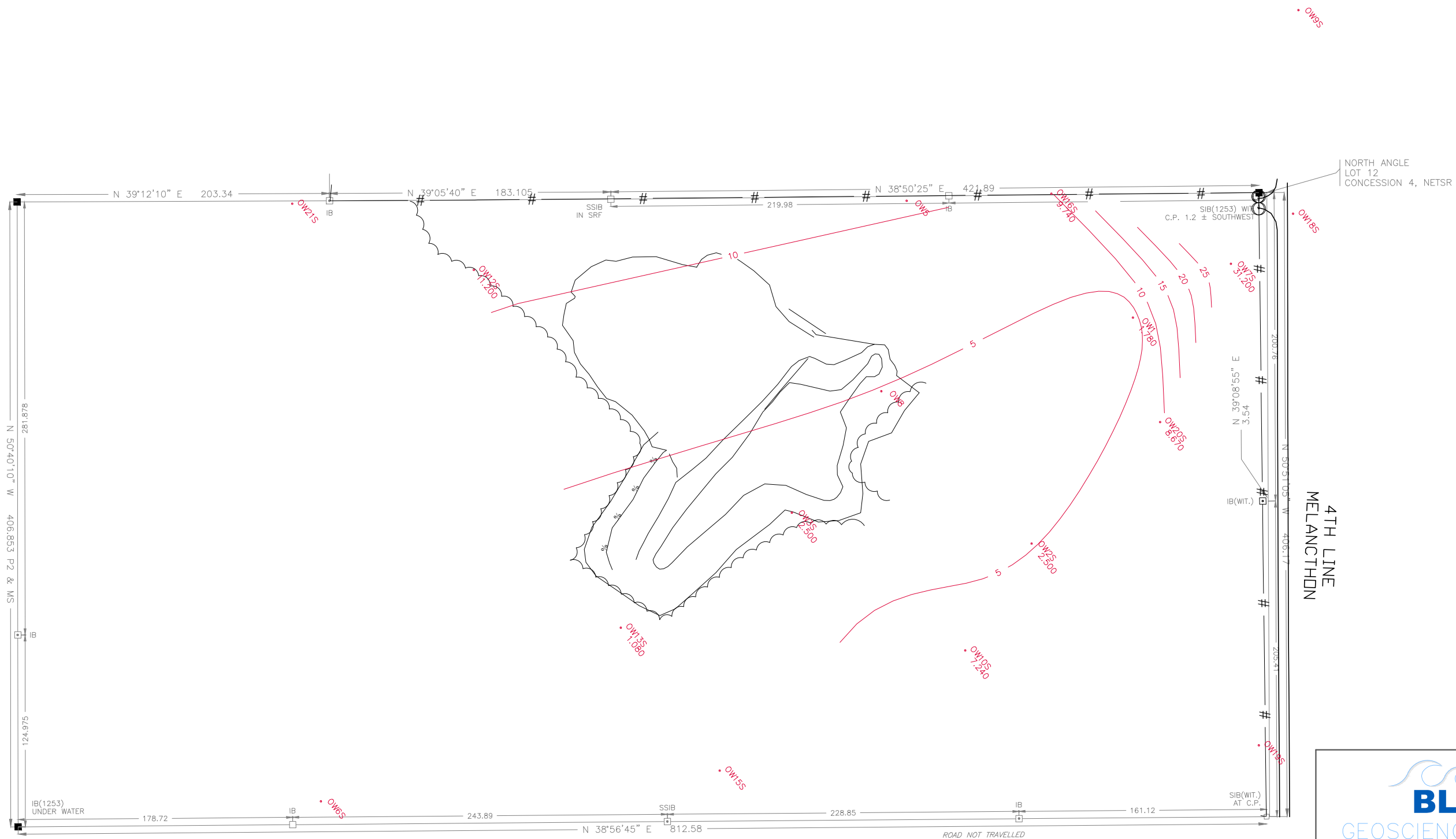
BLUEWATER
GEOSCIENCE CONSULTANTS Inc.

TOWNSHIP OF MELANCTHON LANDFILL

SULPHATE G.W. CONCENTRATION

SHALLOW AQUIFER – FALL 2025

DRAWN BY: J.Y.	APPROVED BY: —	PROJECT NO: BG-924	FIGURE NO. 10
DESIGNED BY: —	DATE: DEC. 2025	SCALE: N.T.S.	



OW15S
0.910
MONITOR WELL
CHLORIDE GW CONCENTRATION (mg/L)

10.0
CHLORIDE GW CONTOUR (5mg/L INTERVAL)



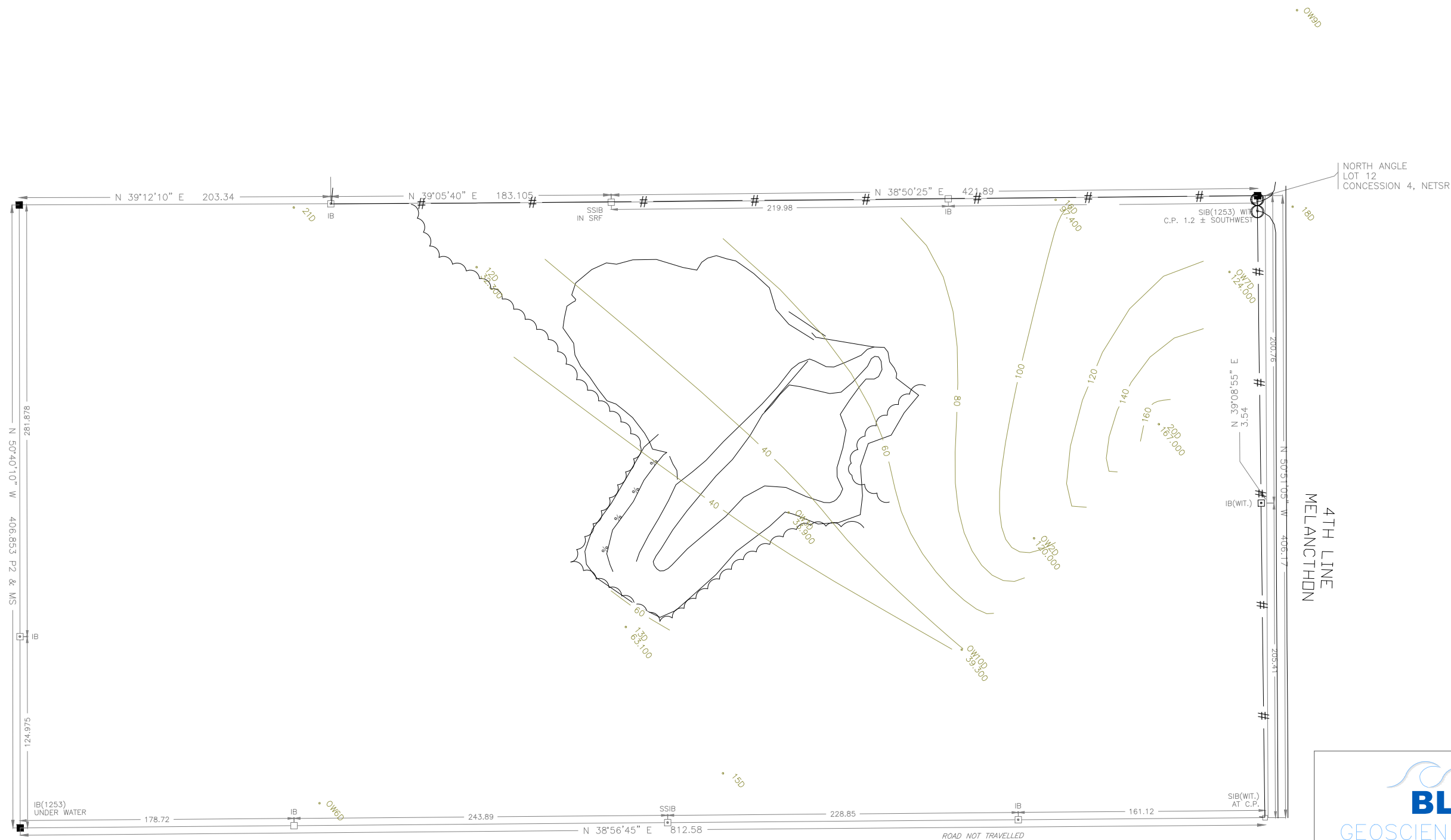
BLUEWATER
GEOSCIENCE CONSULTANTS Inc.

TOWNSHIP OF MELANCTHON LANDFILL

CHLORIDE G.W. CONCENTRATION

SHALLOW AQUIFER – FALL 2025

DRAWN BY: J.Y.	APPROVED BY: —	PROJECT NO: BG-924	FIGURE NO. 11
DESIGNED BY: —	DATE: DEC. 2025	SCALE: N.T.S.	





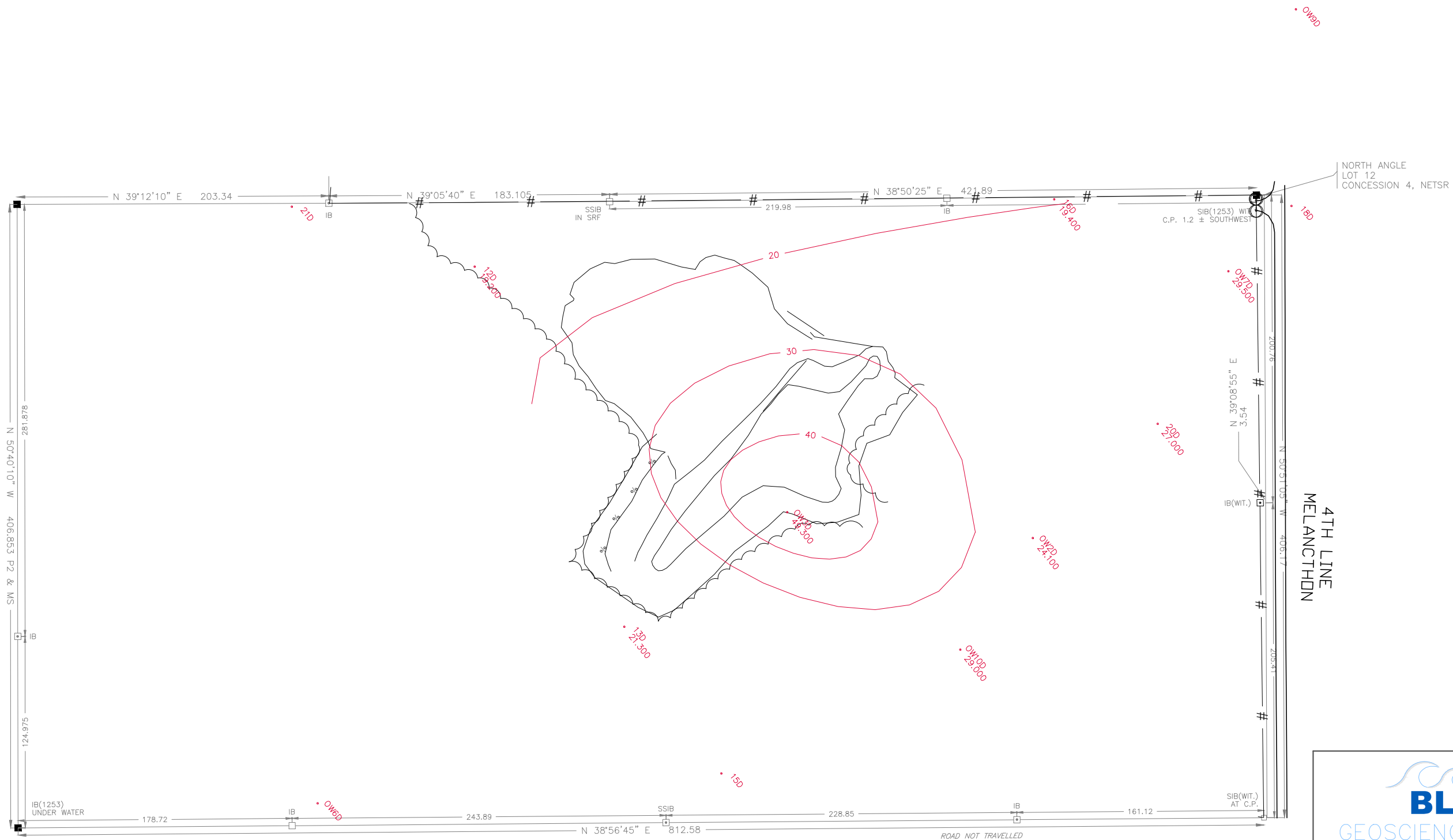
BLUEWATER
GEOSCIENCE CONSULTANTS Inc.

TOWNSHIP OF MELANCTHON LANDFILL

SULPHATE G.W. CONCENTRATION

DEEP AQUIFER – FALL 2025

DRAWN BY: J.Y.	APPROVED BY: —	PROJECT NO: BG-924	FIGURE NO. 12
DESIGNED BY: —	DATE: DEC. 2025	SCALE: N.T.S.	



NORTH ANGLE
LOT 12
CONCESSION 4, NETSR

4TH LINE
MELANCHTHON



BLUEWATER
GEOSCIENCE CONSULTANTS Inc.

TOWNSHIP OF MELANCHTHON LANDFILL

CHLORIDE G.W. CONCENTRATION

DEEP AQUIFER – FALL 2025

DRAWN BY: J.Y.	APPROVED BY: —	PROJECT NO: BG-924	FIGURE NO. 13
DESIGNED BY: —	DATE: DEC. 2025	SCALE: N.T.S.	

OW15D
13.500
MONITOR WELL
CHLORIDE GW CONCENTRATION (mg/L)

20.0
CHLORIDE GW CONTOUR (10mg/L INTERVAL)

APPENDIX B

GROUNDWATER AND METHANE MONITORING AND LABORATORY RESULTS TABLES

Table 1:
Groundwater Elevation Summary

	Ground Elevation	Measuring Pt. Elevation																													
Well			May'12	Oct-'12	Apr '13	Oct. '13	Apr '14	Oct '14	Apr '15	Nov '15	May '16	Oct '16	Apr '17	Oct '17	Apr '18	Oct '18	May '19	Oct '19	Apr '20	Oct '20	May '21	Oct '21	May '22	Oct '22	May '23	Oct '23	Apr '24	Oct '24	Apr '25	Oct '25	
OW1	517.64	518.37	517.05	516.44	517.58	517.39	517.55	517.99	517.38	516.67	517.31	515.55	517.27	515.85	517.59	516.44	517.33	515.77	517.23	515.77	517.04	516.86	517.34	515.43	517.42	516.05	517.43	516.24	517.31	515.48	
OW2S	517.59	518.45	517.12	517.14	517.48	517.43	517.48	517.48	517.39	517.27	517.41	515.6	517.38	515.9	517.45	517.13	517.39	515.87	517.32	515.87	517.22	517.2	517.46	515.57	517.45	516.32	517.42	516.46	517.37	515.6	
OW2D	517.75	518.43	516.88	516.09	517.52	517.33	517.41	517.04	517.19	516.26	517.18	515.15	517.22	515.42	517.53	515.89	517.22	515.27	517.05	515.27	516.89	516.66	517.11	514.98	517.28	515.77	517.34	515.97	517.22	515.13	
OW3S	519.41	518.25	518.16	518.1	518.87	518.86	519.08	518.35	518.56	517.54	518.39	516.85	518.43	517.28	518.91	517.46	518.48	517.01	518.39	517.01	518.72	517.95	518.43	516.74	518.81	517.37	518.7	517.49	518.48	517.17	
OW3D	519.54	520	517.12	516.23	517.72	517.5	518.51	517.17	517.45	516.43	517.4	515.4	517.49	515.72	517.72	516.09	517.45	515.51	517.3	515.51	517.16	516.87	517.36	515.21	517.47	515.98	517.58	516.19	517.45	515.37	
OW4S	516.05	516.58	Destr	Destr	Destr	Destr	Destr	Destr	Destr	Destr	Destr	Destr	Destr	Destr	Destr	Destr	Destr	Destr	Destr	Destr	Destr	Destr	Destr	Destr	Destr	Destr	Destr	Destr	Destr	Destr	Destr
OW4D	515.98	516.53	Destr	Destr	Destr	Destr	Destr	Destr	Destr	Destr	Destr	Destr	Destr	Destr	Destr	Destr	Destr	Destr	Destr	Destr	Destr	Destr	Destr	Destr	Destr	Destr	Destr	Destr	Destr	Destr	Destr
OW5	519.14	520.13	517.18	516.07	518.1	517.8	517.82	517.22	517.17	516.08	517.38	dry	517.42	517.18	518.12	516.01	Dry	Dry	Dry	Dry	517.12	516.89	517.4	Dry	dry	dry	517.72	dry	517.43	dry	dry
OW6S	518.85	519.54	517.14	516.37	517.38	517.32	517.39	517.16	517.27	516.62	517.33	515.79	517.39	516.12	517.38	516.38	517.31	516.04	517.23	516.04	517.17	516.84	517.23	515.74	517.34	516.39	517.39	516.43	517.23	515.79	
OW6D	518.77	519.41	516.97	516.24	517.34	517.25	517.29	517.06	517.15	516.36	517.18	515.4	517.23	515.69	517.33	516.1	517.18	515.63	517.07	515.63	516.91	516.7	517.14	515.32	517.22	516.23	517.31	516.39	517.12	515.79	
OW7S	518.01	518.91	516.81	516.66	516.96	516.96	517.31	516.97	516.94	516.82	516.87	515.51	516.9	515.82	516.94	516.51	516.87	515.68	516.83	515.68	516.73	516.68	516.86	515.26	516.87	515.96	516.82	516.17	516.81	515.29	
OW7D	518.09	518.76	517.01	516.32	517.6	517.31	517.5	517.06	517.27	516.53	517.2	515.39	517.25	515.71	517.64	516.18	517.22	515.44	517.1	515.44	516.97	516.77	517.12	515.23	517.24	516	517.34	516.2	517.19	515.4	
OW8	520.5	521.03	517.25	516.42	517.9	517.56	517.84	517.18	518.08	516.56	517.48	516.37	517.54	516.71	517.93	516.46	517.53	516.46	517.41	516.46	517.23	516.94	517.51	Dry	517.61	516.6	517.77	dry	517.56	dry	
OW9S	517.33	518.1	51.87	516.7	517.45	517.36	517.4	517.33	517.27	517	517.21	515.51	517.2	515.91	517.48	516.63	517.23	515.87	517.15	515.87	516.92	516.94	517.33	515.48	517.38	516.14	517.34	516.31	517.18	515.55	
OW9D	517.35	518.16	516.88	516.41	517.34	517.16	517.24	517.02	517.09	516.62	517.02	515.35	517.06	515.66	517.39	516.3	516.97	515.54	516.96	515.54	516.85	516.81	517.01	515.19	517.08	516.05	517.15	516.15	516.96	515.28	
OW10S	517.76	518.47	517.07	516.15	517.51	517.51	517.52	517.47	517.49	516.26	517.47	515.59	517.49	515.43	517.53	515.73	517.47	515.16	517.42	515.16	517.26	516.96	517.61	514.84	517.5	515.6	517.48	515.79	517.46	514.97	
OW10D	517.74	518.41	517.77	516.09	517.54	517.35	517.5	517.07	517.21	516.26	517.19	515.15	517.23	515.45	517.55	515.88	517.22	515.29	517.07	515.29	516.61	516.67	517.13	515.01	517.24	515.76	517.36	515.98	517.21	515.14	
OW11S	518.02	519.17	516.78	dry	517.65	517.59	517.44	517.15	517.2	516.41	517.02	dry	517.07	517.19	517.68	516.43	Dry	Dry	517	Dry	516.87	516.69	517.14	Dry	dry	dry	517.37	dry	517.09	dry	
OW11D	518.05	519.08	516.54	515.91	517.3	517.21	517.08	516.8	516.86	515.83	516.73	514.7	516.77	515.07	517.29	515.54	516.78	514.86	516.66	514.86	516.5	516.38	516.72	514.53	516.92	515.36	516.98	515.48	516.76	514.66	
OW12S	517.15	518.36	516.61	516.08	517.14	517.15	517.06	516.97	516.95	515.88	516.75	dry	516.79	517.12	517.11	515.64	516.79	514.81	516.69	514.81	516.6	516.53	516.8	Dry	dry	dry	516.99	515.28	516.76	dry	
OW12D	517.13	518.39	516.65	516.12	517.2	517.21	517.11	517.02	517.02	515.95	516.81	514.72	516.86	515.08	517.22	515.73	516.89	514.92	516.79	514.92	516.67	516.67	516.95	514.59	517.14	515.36	517.17	515.38	516.76	514.6	
OW13S	518.52	519.33	517.31	516.41	517.81	517.68	517.79	517.44	517.67	516.7	517.64	515.49	517.69	515.83	517.83	516.31	517.68	515.66	517.55	515.66	517.3	517.05	517.68	515.33	517.73	516.26	517.72	516.43	517.66	515.51	
OW13D	518.41	519.09	517.1	516.25	517.67	517.5	517.6	517.21	517.43	516.44	517.39	515.38	517.45	515.71	517.68	516.11	517.47	515.52	517.29	515.52	517.1	516.85	517.34	515.21	517.45	515.97	517.51	516.16	517.41	515.38	
OW14S	517.38	518.42	516.85	516.98	517.2	517.18	517.2	517.19	517.19	516.88	517.2	514.94	517.24	515.26	517.23	516.45	517.37	516.37	517.43	516.37	517.19	517.11	517.41	515.81	517.47	516.41	517.48	516.52	517.34	515.87	
OW15S	517.66	518.6	517.34	517.36	517.54	517.53	517.54	517.53	517.52	517.45	517.52	515.55	517.55	515.82	517.54	517.36	517.51	515.8	517.59	515.8	517.48	517.46	517.19	515.89	517.66	516.73	517.68	516.88	517.48	516.09	
OW15D	517.54	518.74	516.94	516.12	517.57	517.38	517.47	517.1	517.25	516.3	517.24	515.19	517.31	515.52	517.58	515.93	517.27	515.31	517.22	515.31	517.1	516.73	517.19	515.89	517.33	516.73	517.41	516.85	517.25	516.19	
OW16S	518.49	519.57	517.31	515.77	517.97	517.91	517.91	517.65	517.74	516.9	517.55	515.56	517.59	515.87	517.94	516.51	517.31	515.67	517.53	515.67	517.29	517.25	517.74	515.51	517.95	516.44	517.83	516.4	517.67	515.61	
OW16D	518.63	519.65	517.15	516.32	517.82	517.48	517.71	517.15	517.46	516.52	517.35	515.46	517.41	515.78	517.86	516.19	517.39	515.59	517.31	515.59	517.02	516.89	517.36	515.26	517.49	516.07	517.58	516.27	517.4	515.45	
OW17S	516.99	518.08	516.94	516.46	517.26	517.15	517.22	517.01	Destr	Destr	Destr	518.08	Destr	Destr	Destr	Destr	Destr	Destr	Destr	Destr	Destr	Destr	Destr	Destr	Destr	destr	Destr	destr	destr	Destr	Destr
OW18S	517.42	518.52	516.92	516.52	517.2	517.09	517.15	516.99	517.07	516.71	517.03	515.5	517.07	515.83	517.18	516.43	516.99	515.69	516.95	515.69	516.87	516.8	516.99	515.32	517.01	516.08	516.99	516.17	516.83	515.57	
OW18D	517.76	518.69	516.91	516.38	517.41	517.14	517.3	516.98	517.11	516.59	517.04	515.4	517.08	515.7	517.45	516.25	517.04	515.55	516.97	515.55	516.86	516.76	516.98	515.25	517.05	516.09	517.18	516.28	517.01	515.64	
OW-19S	516.82	517.89	516.95	516.48	516.77	516.77	517.29	517.11	517.16	516.58	517.08	515.71	517.1	516.08	516.81	516.35	517.07	515.89	516.95	515.89	516.8	516.7	516.96	515.64	517.06	516.15	517.08	516.21	516.88	515.45	
OW-19D	516.79	517.72	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	NR	N/R	NR	N/R	N/R	N/R	NR
OW-20S	516.81	517.7	516.8	516.73	516.9	516.92	516.92	516.91	516.9	516.74	516.76	515.62	516.81	514.99	516.81	516.58	516.79	515.34	516.76	515.34	516.68	516.63	516.8	515.02	516.79	515.71	516.79	515.71	516.8	515.2	
OW-20D	516.87	517.52	516.88	516.13	517.47	517.31	517.32	517.02	517.15	516.3	217.12	515.15	517.13	515.51	517.51	515.9	517.09	515.29	516.92	515.29	516.81	516.58	516.96	514.99	517.93	515.75	517.15	516.02	517.03	515.1	
OW-21S	517.01	518.03	516.53	516.05	517	517.01	516.9	516.83	516.81	515.89	516.65	514.62	517.01	514.99	515.55	515.55	516.65	514.76	516.57	514.76	516.53	516.35	516.65	515.81	516.91	516.46	516.86	516.55	516.81	515.88	
OW-21D	517.15	517.89	516.48	516.01	516.97	516.96	516.85	516.79	516.77	515.86	516.64	514.61	516.7	514.95	516.98	515.64	516.69	514.81	516.6	514.81	516.48	516.4	516.54	515.33	516.69	516.14					

Table 2:
Headspace Methane Concentrations

	Methane Conc. (ppm)	Methane Conc. (ppm)	Methane Conc. (ppm)	Methane Conc. (ppm)	Methane Conc. (ppm)	Methane Conc. (ppm)	Methane Conc. (ppm)	Methane Conc. (ppm)	Methane Conc. (ppm)	Methane Conc. (ppm)	Methane Conc. (ppm)	Methane Conc. (ppm)	Methane Conc. (ppm)	Methane Conc. (ppm)	Methane Conc. (ppm)	Methane Conc. (ppm)	Methane Conc. (ppm)	Methane Conc. (ppm)	Methane Conc. (ppm)	Methane Conc. (ppm)	Methane Conc. (ppm)	Methane Conc. (ppm)	Methane Conc. (ppm)	Methane Conc. (ppm)	Methane Conc. (ppm)	Methane Conc. (ppm)
Well	22-Apr-13	04-Nov-13	28-Apr-14	22-Oct-14	28-Apr-15	22-Oct-15	03-May-16	19-Oct-16	25-Apr-17	25-Oct-17	30-Apr-18	25-Oct-18	30-Apr-19	25-Oct-19	28-Apr-20	14-Oct-20	18-May-21	13-Oct-21	04-May-22	25-Oct-22	03-May-23	18-Oct-23	25-Apr-24	22-Oct-24	29-Apr-25	16-Oct-25
OW1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OW2S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OW2D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OW3S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OW3D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OW4S	Destroyed	Destroted	Destroyed	Destroted	Destroyed	Destroted	Destroyed	Destroted	Destroyed	Destroted	Destroyed	Destroted	Destroyed	Destroted	Destroyed	Destroted	Destroyed	Destroted	Destroyed	Destroted	Destroyed	Destroted	Destroyed	Destroted	Destroyed	Destroted
OW4D	Destroyed	Destroyed	Destroyed	Destroyed	Destroyed	Destroyed	Destroyed	Destroyed	Destroyed	Destroyed	Destroyed	Destroyed	Destroyed	Destroyed	Destroyed	Destroyed	Destroyed	Destroyed	Destroyed	Destroyed	Destroyed	Destroyed	Destroyed	Destroyed	Destroyed	Destroyed
OW5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OW6S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OW6D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OW7S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OW7D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OW8	15	10	25	15	20	10	15	10	10	5	5	5	10	5	5	5	5	0	5	0	5	0	5	0	10	0
OW9S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OW9D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OW10S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OW10D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OW11S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OW11D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OW12S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OW12D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OW13S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OW13D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OW14S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OW15S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OW15D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OW16S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OW16D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OW17S	0	0	0	0	Destroyed	Destroyed	Destroyed	Destroyed	Destroyed	Destroyed	Destroyed	Destroyed	Destroyed	Destroyed	Destroyed	Destroyed	Destroyed	Destroyed	Destroyed	Destroyed	Destroyed	Destroyed	Destroyed	Destroyed	Destroyed	Destroyed
OW18S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OW18D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OW-19S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OW-20S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OW-20D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OW021S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OW-21D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Well ID				OW1															
Data Sampled				Apr. 30'18	Oct.25'18	May 22'19	Oct.23'19	Apr 28'20	Oct.14'20	May 18'21	Oct.13'21	May 4'22	Oct.25'22	May 3'23	Oct.18'23	Apr25'24	Oct.22'24	Apr29'25	Oct.16'25
Parameter	ODWS	SCS	RUP																
Alkalinity, Total (mg/L)	30-500	N/V	391.5	406	388	371	406	387	367	399	387	367	330	374	437	404	374	394	378
Ammonia as N																			
Ammonia as N (mg/L)	N/V	N/V	N/V	0.021	<0.02	0.072	<0.01	<0.01	0.058	0.01	0.049	<0.05	0.451	<0.005	0.0736	<0.005	0.0055	<0.005	0.196
CL,F,NO2,NO3,SO4																			
Chloride (mg/L)	250	250	125.5	1.65	3.76	1.67	3.9	1.63	1.4	0.96	1.06	0.83	2.26	1.23	1.99	0.90	1.78	2.18	2.95
Fluoride (mg/L)	1.5	N/V	0.45	0.033	0.036	0.035	0.039	0.033	0.038	0.031	0.026	0.028	0.029	0.031	0.034	0.023	0.035	0.03	0.028
Nitrite-N (mg/L)	1	1	0.3	<0.01	<0.01	0.079	0.034	0.027	0.14	<0.02	<0.02	<0.02	0.016	<0.02	<0.01	0.036	0.090	0.20	0.73
Nitrate-N (mg/L)	10	10	2.6	<0.02	<0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.269	0.048	0.027	<0.010	<0.010	<0.010	0.02
Sulphate (mg/L)	500	N/V	253.9	7.02	12	5.79	11.9	6.07	5.91	4.83	4.87	4.25	9.53	5.74	6.31	3.84	9.49	11.00	17.9
Color, Apparent																			
Color, Apparent (C.U.)	5	N/V	N/V	11.7	10.6	33.1	12.8	9.2	2.3	17.4	2.2	7.4	24.3	83.5	144	45.7	626	200	426
Conductivity																			
Conductivity (umhos/cm)	N/V	N/V	N/V	691	640	653	684	727	668	620	696	625	568	632	744	722	583	690	666
Hardness (as CaCO3)																			
Hardness (as CaCO3 - mg/L)	80-100	N/V	N/V	497	479	457	500	441	442	416	414	416	414	440	444	431	495	456+	458
Metal Scan-Total	Units: mg/L			mg/L															
Aluminum (Al)-Total	N/V	N/V	0.0525	0.01	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	0.0109	0.0104	0.0016	<0.0010
Antimony (Sb)-Total	N/V	0.006	N/V	0.005	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Arsenic (As)-Total	0.025	0.025	N/V	0.001	0.0011	<0.0010	<0.0010	<0.0010	<0.0010	0.0012	0.0016	0.00042	0.00031	<0.00010	0.00072	0.00024	0.00055	0.00019	0.00026
Barium (Ba)-Total	1	1	N/V	0.01	0.042	0.039	0.033	0.048	0.037	0.069	0.068	0.0451	0.0478	0.0291	0.0409	0.0461	0.0478	0.0396	0.0447
Beryllium (Be)-Total	N/V	0.004	N/V	0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.00010	<0.00010	<0.00010	<0.00010	<0.000020	<0.000020	<0.000020	<0.000020
Bismuth (Bi)-Total	N/V	N/V	N/V	0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050
Boron (B)-Total	5	5	2.5025	0.05	0.067	0.055	<0.050	0.065	0.070	0.263	0.197	0.147	0.146	0.024	0.052	0.113	0.081	0.090	0.146
Cadmium (Cd)-Total	0.005	0.005	N/V	0.00009	0.000268	<0.000090	<0.000090	<0.000090	<0.000090	<0.000090	<0.000090	0.0000145	0.0000154	0.0000200	0.0000054	0.0000150	0.0000130	0.0000168	0.0000129
Calcium (Ca)-Total	N/V	N/V	N/V	0.5	112	109	97.8	113	108	114	117	106	108	107	106	102	111	112	116
Chromium (Cr)-Total	0.05	0.05	N/V	0.0005	<0.00050	<0.00050	0.00080	<0.00050	<0.00050	0.00077	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.000010	<0.000010	<0.00050	<0.00050
Cobalt (Co)-Total	N/V	0.1	N/V	0.0005	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	0.00166	0.00103	0.00023	0.00064	<0.00010	0.00038	<0.00050	<0.00050	0.00024	0.00022
Copper (Cu)-Total	1	0.023	0.5007	0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	0.00065	0.00071	0.00208	0.00029	0.00027	0.00033	0.00075	0.00115
Iron (Fe)-Total	0.3	N/V	0.17	0.05	0.826	0.347	0.060	0.058	0.778	1.58	0.891	0.042	0.087	<0.010	0.343	0.00095	0.00060	0.138	0.103
Lead (Pb)-Total	0.01	0.01	0.0027	0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.000050	0.000051	0.000058	0.000061	0.161	0.499	0.000051	0.000207
Magnesium (Mg)-Total	N/V	N/V	87	0.5	38.8	39.6	33.5	37.9	35.7	51.5	45.4	42.5	42.1	36.5	35.9	0.000156	0.000089	42.8	40.8
Manganese (Mn)-Total	0.05	N/V	0.09	0.001	0.0669	0.0864	0.0047	0.111	0.0656	0.0957	0.1	0.0307	0.0739	0.00321	0.0586	0.0027	0.0032	0.0353	0.0287
Molybdenum (Mo)-Total	N/V	7.3	N/V	0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.000334	0.000278	0.000193	0.000274	45.1	40.6	0.000214	0.000245
Nickel (Ni)-Total	N/V	0.1	N/V	0.002	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	0.0042	<0.0020	0.00194	0.00186	<0.00050	0.00056	0.0253	0.0612	0.00110	0.00110
Phosphorus (P)-Total	N/V	N/V	N/V	0.05	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.000243	0.000264	<0.050	<0.050
Potassium (K)-Total	N/V	N/V	N/V	1	1.8	1.6	<1.0	1.3	<1.0	11.3	7.8	5.99	5.26	0.399	1.32	0.00165	0.00078	2.24	3.24
Selenium (Se)-Total	0.01	0.01	N/V	0.0004	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	0.000095	0.000125	0.000125	0.000065	<0.050	<0.050	0.000138	0.000069
Silicon (Si)-Total	N/V	N/V	N/V	1	5.7	4.9	5.1	4.6	5.5	5.3	5.4	5.37	5.45	5.12	5.54	4.61	1.38	4.88	5.46
Silver (Ag)-Total	N/V	0.0012	N/V	0.0001	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.000050	<0.000050	<0.000050	<0.000050	0.00143	0.00062	<0.000010	<0.000010
Sodium (Na)-Total	N/V	N/V	100.5	0.5	7.17	6.69													

1,1-Dichloroethylene	14	4.1	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,2-Dichlorobenzene	200	3	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,2-Dichloroethane	5	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,2-Dichloropropane	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,3-Dichlorobenzene	N/V	630	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,4-Dichlorobenzene	5	1	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
2-Chloroethylvinyl Ether	N/V	N/V	N/V	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
2-Hexanone	N/V	N/V	N/V	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT
Acetone	N/V	300	N/V	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT
Benzene	5	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Bromodichloromethane	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Bromoform	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Bromomethane	N/V	10	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
Carbon Disulfide	N/V	N/V	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Carbon tetrachloride	5	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Chlorobenzene	N/V	30	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Chloroethane	N/V	N/V	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
Chloroform	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Chloromethane	N/V	N/V	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
cis-1,2-Dichloroethylene	N/V	70	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
cis-1,3-Dichloropropene	N/V	1.4	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Dibromochloromethane	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Dichlorodifluoromethane	N/V	N/V	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
Dichloromethane	50	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Ethyl Benzene	2.4	2.4	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
m+p-Xylenes	N/V	N/V	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
Methyl Ethyl Ketone	N/V	350	N/V	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT
Methyl Isobutyl Ketone	N/V	350	N/V	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT
MTBE	N/V	700	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
o-Xylene	N/V	N/V	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Styrene	N/V	100	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Tetrachloroethylene	30	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Toluene	24	24	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
trans-1,2-Dichloroethylene	N/V	0.1	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
trans-1,3-Dichloropropene	N/V	N/V	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Trichloroethylene	50	50	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Trichlorofluoromethane	N/V	N/V	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
Trihalomethanes (total)	100	N/V	N/V	<2	NT	<2	NT	<2	NT	<2	NT	<2	NT	<2	NT	<2	NT	<2	NT
Vinyl chloride	2	1.3	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Xylenes (Total)	300	300	N/V	<1.5	NT	<1.5	NT	<1.5	NT	<1.5	NT	<1.5	NT	<1.5	NT	<1.5	NT	<1.5	NT

Notes:

OWDS - Ontario Drinking Water Standards (mg/L) from Ont. Reg. 169/03

SCS - Table 2 Site Condition Standards (mg/L) from Ont. Reg. 153/04

RUP - Reasonable Use Policy from Guideline B-7, MOEE, 1994

Values shown in **BOLD** exceed ODWS

N/V - No Value. No maximum concentration assigned.

NT - Not Tested, no analysis completed for this parameter/sample

Analyses completed at ALS Laboratoy Group in Waterloo, ON

Well ID				OW2S															
Data Sampled				30-Apr-18	Oct. 25, 2018	22-May-19	Oct. 23, 2019	28-Apr-20	Oct. 14, 2020	18-May-21	Oct. 13, 2021	02-May-22	Oct. 25, 2022	03-May-23	Oct. 18, 2023	25-Apr-24	Oct. 22, 2024	29-Apr-25	Oct. 16, 2025
Parameter	ODWS	SCS	RUP																
Color, Apparent (C.U.)	5	N/V	N/V	21.6	10.8	20.3	9.3	5.9	7.8	7.6	8.1	<2	41.4	135.0	76.7	70.2	53.8	194.0	342.0
Conductivity (umhos/cm)	N/V	N/V	N/V	1160	1068	1130	1020	1200	1130	1040	1130	1040	932	1030	1150	1120	969	1070	979
Hardness (as CaCO3 - mg/L)	80-100	N/V	N/V	664	680	683	718	681	659	699	657	NT	NT	662	680	669	650	697	682
pH (pH units)	6.5-8.5	N/V	8.2	7.9	7.11	7.08	7.72	7.33	7.12	7.20	7.17	7.56	7.60	7.64	7.51	7.35	7.79	7.46	7.72
Total Dissolved Solids (mg/L)	N/V	N/V	394	669	628	646	632	618	627	619	576	574	599	584	598	602	637	648	628
Turbidity (NTU)	1	N/V	N/V	72.8	86.9	70.8	63.5	98.1	76.7	49.2	41.2	48.8	76.8	51.5	35.2	37.5	19.9	98.9	91.1
Alkalinity, Total (mg/L)	30-500	N/V	391.5	630	576	650	679	653	635	630	641	626	554	627	708	686	534	655	602
Ammonia as N (mg/L)	N/V	N/V	N/V	0.201	0.069	0.037	0.07	<0.01	0.031	0.034	0.062	<0.005	0.024	<0.005	0.013	<0.005	0.117	0.008	0.206
Chloride (mg/L)	250	250	125.5	0.7	0.66	0.74	<2.5	<2.5	<0.5	<2.5	<2.5	<2.5	<2.5	<0.5	<2.5	<2.50	<2.50	<2.5	<2.50
Fluoride (mg/L)	1.5	N/V	0.45	0.025	0.029	0.029	<0.1	<0.1	0.031	<0.10	<0.10	<0.1	<0.1	0.023	<0.1	<0.100	<0.100	<0.100	<0.100
Nitrite-N (mg/L)	1	1	0.3	<0.01	<0.01	<0.02	<0.1	<0.1	<0.02	<0.10	<0.10	<0.05	<0.1	<0.05	<0.1	<0.100	<0.100	<0.100	<0.100
Nitrate-N (mg/L)	10	10	2.6	0.024	<0.02	<0.01	<0.05	<0.05	<0.01	<0.050	<0.050	<0.1	<0.1	<0.1	<0.1	<0.050	<0.050	<0.050	<0.050
Phosphate-P (ortho)	N/V	N/V	N/V	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.0030	<0.0030	<0.003	<0.003	<0.003	0.0015	<0.0010	<0.0010	<0.0010	0.0014
Sulphate (mg/L)	500	N/V	253.9	38.8	31.7	34.8	25.9	26	23.9	24.6	20.8	25.1	19.1	16.2	13.5	12.9	11.0	12.7	8.4
Metal Scan-Total	Units: mg/L			mg/L															
Aluminum (Al)-Total	N/V	N/V	0.0525	<0.010	<0.010	<0.0050	0.237	<0.0050	<0.0050	<0.0050	<0.0050	0.0028	<0.0010	0.0085	0.0032	0.0016	<0.0010	0.0065	0.0019
Antimony (Sb)-Total	N/V	0.006	N/V	<0.0050	<0.0050	<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	<0.00010
Arsenic (As)-Total	0.025	0.025	N/V	<0.0010	<0.0010	0.00227	0.00204	0.00189	0.00226	0.00199	0.00212	0.00021	0.00114	0.00253	0.00127	0.00139	0.00081	0.00128	0.00097
Barium (Ba)-Total	1	1	N/V	0.101	0.072	0.102	0.0854	0.0964	0.0739	0.0837	0.0751	0.0404	0.0619	0.0833	0.0656	0.0687	0.0678	0.0774	0.0666
Beryllium (Be)-Total	N/V	0.004	N/V	<0.0010	<0.0010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
Bismuth (Bi)-Total	N/V	N/V	N/V	<0.0010	<0.0010	<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	<0.000050
Boron (B)-Total	5	5	2.5025	0.334	0.427	0.376	0.438	0.384	0.408	0.384	0.384	0.104	0.383	0.322	0.388	0.314	0.350	0.306	0.346
Cadmium (Cd)-Total	0.005	0.005	N/V	<0.000090	<0.000090	<0.0000050	0.0000308	<0.0000050	<0.0000050	<0.0000050	<0.0000050	0.0000200	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Calcium (Ca)-Total	N/V	N/V	N/V	150	155	153	160	153	149	155	147	95.3	156	145	151	151	147	156	160
Chromium (Cr)-Total	0.05	0.05	N/V	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00010	<0.00010	<0.00050	<0.00050	<0.00050	<0.00050
Cobalt (Co)-Total	N/V	0.1	N/V	0.00058	<0.00050	0.00249	0.00130	0.00177	0.00103	0.00154	0.00101	0.00024	0.00060	<0.00050	<0.00050	0.00132	0.00075	0.00155	0.00067
Copper (Cu)-Total	1	0.023	0.5007	0.0012	<0.0010	<0.00020	0.00094	<0.00020	<0.00020	0.00027	<0.00020	0.00070	<0.00020	0.00169	0.00073	<0.00020	<0.00020	0.00028	<0.00020
Iron (Fe)-Total	0.3	N/V	0.17	0.547	0.459	1.47	1.18	0.972	1.28	1.18	1.49	0.146	1.04	0.00032	<0.00020	0.938	0.845	0.940	1.74
Lead (Pb)-Total	0.01	0.01	0.0027	<0.0010	<0.0010	0.000141	0.00302	0.000108	0.000061	0.000135	<0.000050	0.000079	0.000354	1.40	0.768	0.000080	0.000168	0.000149	0.000178
Magnesium (Mg)-Total	N/V	N/V	87	70.5	70.9	73.3	77.4	72.4	69.5	76.0	70.3	41.0	67.4	0.000262	0.000233	71.0	68.8	74.6	68.5
Manganese (Mn)-Total	0.05	N/V	0.09	0.106	0.192	0.362	0.325	0.318	0.167	0.183	0.153	0.0147	0.144	0.0074	0.0103	0.174	0.163	0.297	0.157
Molybdenum (Mo)-Total	N/V	7.3	N/V	<0.0010	<0.0010	0.000298	0.000342	0.000302	0.000290	0.000275	0.000253	0.000222	0.000218	72.8	73.6	0.000214	0.000271	0.000218	0.000224
Nickel (Ni)-Total	N/V	0.1	N/V	<0.0020	0.002	0.00554	0.00417	<0.00490	0.00310	0.00453	0.00284	0.00164	0.00210	0.225	0.158	0.00295	0.00246	0.00326	0.00206
Phosphorus (P)-Total	N/V	N/V	N/V	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.000283	0.000254	<0.050	<0.050	<0.050	<0.050
Potassium (K)-Total	N/V	N/V	N/V	<1.0	2.9	3.68	4.91	4.31	2.27	2.85	2.46	4.34	2.16	0.00483	0.00233	2.14	2.60	2.41	2.34
Selenium (Se)-Total	0.01	0.01	N/V	<0.00040	<0.00040	<0.000050	0.000609	0.000153	0.000086	<0.000050	0.000266	0.000107	0.000163	<0.050	<0.050	<0.000500	0.000122	<0.000500	0.00141
Silicon (Si)-Total	N/V	N/V	N/V	7.9	9.6	8.16	9.63	8.56	9.31	8.43	9.28	4.75	9.00	3.40	2.51	8.16	8.90	8.26	9.02
Silver (Ag)-Total	N/V	0.0012	N/V	<0.00010	<0.00010	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000010	<0.000010	0.00112	0.00095	<0.000100	<0.000010	<0.000010	<0.000010
Sodium (Na)-Total	N/V	N/V	100.5	10.2	14.6	18.3	16.3	19.1	13.3	15.1	13.1	7.90	10.4	0.000872	<0.000500	11.0	10.1	11.3	8.56
Strontium (Sr)-Total	N/V	N/V	N/V	0.186	0.222	0.233	0.255	0.245	0.217	0.235	0.222	0.169	0.206	8.11	9.66	0.214	0.227	0.231	0.221
Thallium (Tl)-Total	N/V	0.002	N/V	<0.00030	<0.00030	0.000115	0.000375	0.000011	0.000046	0.000082	0.000035	0.000108	0.000055	<0.000010	<0.000100	0.000035	0.000056	0.000042	0.000044
Tin (Sn)-Total	N/V	N/V	N/V	<0.0010	<0.0010	<0.00010	0.00029	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	14.1	11.0	<0.00010	<0.00010	<0.00010	<0.00010
Titanium (Ti)-Total	N/V	N/V	N/V	<0.0020	<0.0020	<0.00030	0.00791	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	0.228	0.227	<0.00030	<0.00030	0.00030	<0.00030
Tungsten (W)-Total	N/V	N/V	N/V	<0.010	<0.010	0.00015	0.00046	0.00030	0.00060	0.00047	0.00089	0.00015	0.00062	8.45	11.5	0.00030	0.00056	0.00034	0.00070
Uranium (U)-Total	N/V	N/V	N/V	<0.0050	<0.0050	0.000621	0.000800	0.000705	0.000608	0.000600	0.000599	0.000518	0.000677	<0.000020	<0.000020	0.000593	0.000709	0.000574	0.000565
Vanadium (V)-Total	N/V	0.2	N/V	<0.0010	<0.0010	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	0.000094	0.000047	<0.00050	<0.00050	<0.00050	<0.00050
Zinc (Zn)-Total	5	1.1	0.005	0.0049	<0.0030	0.0117	0.0331	0.0064	0.0021	0.0071	0.0015	0.0174	0.0029	<0.00010	<0.00010	0.0040	0.0019	0.0044	0.0025
Zirconium (Zr)-Total	N/V	N/V	N/V	<0.0040	<0.0040	<0.00030	0.00037	<0.00030	<0.00030	<0.00030	<0.00030	<0.00020	<0.00020	<0.00010	<0.00010	<0.00020	<0.00020	<0.00020	0.00020
Volatile Organics	Units: µg/L			µg/L															
1,1,1,2-Tetrachloroethane	N/V	200	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,1,2,2-Tetrachloroethane	N/V	1	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,1,1-Trichloroethane	N/V	200	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,1,2-Trichloroethane	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,2-Dibromoethane	N/V	N/V	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,1-Dichloroethane	N/V	70	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,1-Dichloroethylene	14	4.1	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,2-Dichlorobenzene	200	3	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,2-Dichloroethane	5	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1																			

2-Chloroethylvinyl Ether	N/V	N/V	N/V	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
2-Hexanone	N/V	N/V	N/V	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20
Acetone	N/V	300	N/V	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20
Benzene	5	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5
Bromodichloromethane	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5
Bromoform	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5
Bromomethane	N/V	10	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1
Carbon Disulfide	N/V	N/V	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5
Carbon tetrachloride	5	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5
Chlorobenzene	N/V	30	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5
Chloroethane	N/V	N/V	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1
Chloroform	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5
Chloromethane	N/V	N/V	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1
cis-1,2-Dichloroethylene	N/V	70	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5
cis-1,3-Dichloropropene	N/V	1.4	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5
Dibromochloromethane	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5
Dichlorodifluoromethane	N/V	N/V	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1
Dichloromethane	50	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5
Ethyl Benzene	2.4	2.4	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5
m+p-Xylenes	N/V	N/V	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1
Methyl Ethyl Ketone	N/V	350	N/V	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20
Methyl Isobutyl Ketone	N/V	350	N/V	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20
MTBE	N/V	700	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5
o-Xylene	N/V	N/V	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5
Styrene	N/V	100	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5
Tetrachloroethylene	30	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5
Toluene	24	24	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5
trans-1,2-Dichloroethylene	N/V	0.1	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5
trans-1,3-Dichloropropene	N/V	N/V	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5
Trichloroethylene	50	50	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5
Trichlorofluoromethane	N/V	N/V	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1
Trihalomethanes (total)	100	N/V	N/V	<2	NT	<2	NT	<2	NT	<2	NT	<2	NT	<2	NT	<2	NT	<2
Vinyl chloride	2	1.3	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5
Xylenes (Total)	300	300	N/V	<1.5	NT	<1.5	NT	<1.5	NT	<1.5	NT	<1.5	NT	<1.5	NT	<1.5	NT	<1.5

Notes:

OWDS - Ontario Drinking Water Standards (mg/L) from Ont. Reg. 169/03

SCS - Table 2 Site Condition Standards (mg/L) from Ont. Reg. 153/04

RUP - Reasonable Use Policy from Guideline B-7, MOEE, 1994

Values shown in **BOLD** exceed ODWS

N/V - No Value. No maximum concentration assigned.

NT - Not Tested, no analysis completed for this parameter/sample

Analyses completed at ALS Laboratoy Group in Waterloo, ON

Well ID				OW2D															
Data Sampled				30-Apr-18	25-Oct-18	22-May-19	23-Oct-19	28-Apr-20	14-Oct-20	18-May-21	13-Oct-21	04-May-22	25-Oct-22	03-May-23	18-Oct-23	03-May-24	18-Oct-24	29-Apr-25	16-Oct-25
Parameter	ODWS	SCS	RUP																
Color, Apparent (C.U.)	5	N/V	N/V	165	37.2	54.4	21	68.9	51.3	26.2	12.4	30.9	181	163	49.4	350	148.0	104	99.0
Conductivity (umhos/cm)	N/V	N/V	N/V	1320	1380	1470	1410	1440	1312	1470	1300	1550	1430	1330	1400	1380	1270	1350	1260
Hardness (as CaCO3 - mg/L)	80-100	N/V	N/V	609	621	620	651	677	693	581	757	625	658	676	653	571	642	664	667
pH (pH units)	6.5-8.5	N/V	8.2	7.23	6.91	7.21	7.34	7.81	7.13	6.9	7.76	6.95	7.01	7.39	6.94	7.81	8.19	7.46	8.06
Total Dissolved Solids (mg/L)	N/V	N/V	394	736	848	784	792	834	860	781	864	783	744	783	699	705	744	755	748
Turbidity (NTU)	1	N/V	N/V	67.3	24.9	61.7	76.9	78.4	40.1	73.1	25.8	74.4	27.1	81.3	83.0	78.4	44.2	71.7	39.1
Alkalinity, Total (mg/L)	30-500	N/V	391.5	580	545	646	622	643	481	705	611	724	702	695	691	723	354	685	616
Ammonia as N (mg/L)	N/V	N/V	N/V	8.89	3.52	10.8	9.36	10.3	4.78	12.9	4.96	13.2	13.5	16.0	13.0	14.4	6.84	10.2	7.12
Chloride (mg/L)	250	250	125.5	44.5	38.6	51.4	48.7	52.8	8.19	50.7	38.6	54.2	44.6	44.9	39.0	38.7	24.8	35.7	24.10
Fluoride (mg/L)	1.5	N/V	0.45	0.048	>0.1	<0.02	<0.02	0.043	<0.02	<0.1	<0.1	<0.1	<0.02	<0.10	<0.10	<0.10	0.101	<0.10	<0.1
Nitrite-N (mg/L)	1	1	0.3	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.1	<0.1	<0.1	0.02	<0.10	<0.10	<0.10	<0.020	<0.10	<0.020
Nitrate-N (mg/L)	10	10	2.6	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.05	<0.05	<0.05	<0.01	<0.050	<0.050	<0.050	<0.010	<0.050	<0.010
Phosphate-P (ortho)	N/V	N/V	N/V	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.0030	<0.0030	<0.0030	<0.0010	<0.0030	0.0013
Sulphate (mg/L)	500	N/V	253.9	85.7	219	90.3	85.6	83.9	45.1	80.7	203	57.7	49.9	45.4	42.9	48.2	123	57.8	120
Metal Scan-Total	Units: mg/L			mg/L															
Aluminum (Al)-Total	N/V	N/V	0.0525	0.0092	<0.010	<0.01	0.024	<0.010	<0.010	<0.0050	<0.0050	0.0097	<0.0050	<0.0050	<0.0050	0.0174	0.0016	0.0057	0.0024
Antimony (Sb)-Total	N/V	0.006	N/V	0.168	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Arsenic (As)-Total	0.025	0.025	N/V	<0.0010	0.0029	0.0034	0.0032	0.0083	<0.0010	0.00681	0.00272	0.00347	0.00832	0.0105	0.00797	0.00934	0.00136	0.0114	0.00168
Barium (Ba)-Total	1	1	N/V	<0.0010	0.178	0.147	0.144	0.211	0.172	0.170	0.147	0.173	0.205	0.250	0.207	0.189	0.137	0.234	0.144
Beryllium (Be)-Total	N/V	0.004	N/V	0.402	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.000020	<0.000020	<0.000020	<0.000020
Bismuth (Bi)-Total	N/V	N/V	N/V	<0.000090	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050
Boron (B)-Total	5	5	2.5025	138	0.411	0.473	0.429	0.569	0.618	0.439	0.547	0.475	0.615	0.595	0.631	0.455	0.546	0.582	0.611
Cadmium (Cd)-Total	0.005	0.005	N/V	0.00059	<0.000090	<0.000090	<0.000090	<0.000090	<0.000090	<0.000050	0.0000185	<0.000050	<0.000050	<0.000050	<0.000050	0.0000066	<0.000050	<0.000050	<0.000050
Calcium (Ca)-Total	N/V	N/V	N/V	0.00601	142	136	147	149	147	134	156	137	144	148	144	124	129	149	142
Chromium (Cr)-Total	0.05	0.05	N/V	<0.0010	<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	<0.00050	<0.00050
Cobalt (Co)-Total	N/V	0.1	N/V	4.69	0.00079	0.00258	0.00078	0.00782	0.00066	0.00600	0.00354	0.00248	0.00634	0.00787	0.00664	0.00617	0.00349	0.00789	0.00347
Copper (Cu)-Total	1	0.023	0.5007	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.00020	0.00071	<0.00020	<0.00020	0.00207	0.00336	0.00072	<0.00020	0.00083	<0.00020
Iron (Fe)-Total	0.3	N/V	0.17	63.8	<0.050	2.45	1.29	6.06	1.2	4.68	1.41	2.27	6.19	7.09	6.98	5.80	3.08	7.57	3.06
Lead (Pb)-Total	0.01	0.01	0.0027	0.978	<0.0010	<0.0010	0.0013	<0.0010	<0.0010	0.000332	0.00243	0.000245	0.000204	0.000365	0.000316	0.000460	0.000711	0.000269	0.000826
Magnesium (Mg)-Total	N/V	N/V	87	<0.0010	64.7	68.2	69.0	74	78.8	59.6	89.3	68.7	72.3	74.1	71.1	63.5	77.8	70.8	75.8
Manganese (Mn)-Total	0.05	N/V	0.09	0.0152	0.961	0.862	0.667	0.912	0.78	0.742	0.923	0.759	0.801	0.812	0.748	0.664	0.701	0.771	0.677
Molybdenum (Mo)-Total	N/V	7.3	N/V	<0.050	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	0.000607	0.000785	0.000311	0.000727	0.000758	0.000776	0.000704	0.000676	0.000778	0.000642
Nickel (Ni)-Total	N/V	0.1	N/V	9.4	0.0051	0.0085	0.0051	0.0199	0.0047	0.0159	0.0113	0.00872	0.0175	0.0219	0.0182	0.0172	0.0101	0.0204	0.0104
Phosphorus (P)-Total	N/V	N/V	N/V	0.00123	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Potassium (K)-Total	N/V	N/V	N/V	6.3	9.2	9.9	7.7	12.2	11.7	9.85	14.9	11.6	12.2	14.3	13.2	11.7	11.3	14.8	12.1
Selenium (Se)-Total	0.01	0.01	N/V	<0.00010	0.00136	0.00179	0.00716	<0.00040	0.00078	0.000121	0.000144	0.00304	0.000422	0.000125	0.000285	0.000393	0.000118	0.000154	0.00157
Silicon (Si)-Total	N/V	N/V	N/V	32.1	6.4	6.8	7.8	7.7	7.2	6.04	6.66	6.83	7.41	8.40	7.85	6.94	6.76	7.35	6.84
Silver (Ag)-Total	N/V	0.0012	N/V	0.293	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000010	<0.000010	<0.000010	&lt

[illegible]

Well ID				OW3S															
Data Sampled				30-Apr-18	25-Oct-18	23-May-19	23-Oct-19	28-Apr-20	04-Oct-20	18-May-21	13-Oct-21	04-May-22	25-Oct-22	03-May-23	18-Oct-23	25-Apr-24	22-Oct-24	29-Apr-25	16-Oct-25
Parameter	ODWS	SCS	RUP																
Color, Apparent (C.U.)	5	N/V	N/V	15.4	18	120	29.2	33.7	31.7	22.1	7.5	33.5	25.2	73.4	41.1	648.0	1010.0	637.0	478.0
Conductivity (umhos/cm)	N/V	N/V	N/V	681	653	637	680	656	564	713	719	624	704	586	524	658	556	624	576
Hardness (as CaCO3 - mg/L)	80-100	N/V	N/V	440	401	459	485	439	637	483	462	447	436	NT	NT	751	439	438	441
pH (pH units)	6.5-8.5	N/V	8.2	7.49	7.93	7.82	7.27	7.28	7.62	7.42	7.27	7.62	7.26	7.54	7.74	7.26	7.85	7.69	7.82
Total Dissolved Solids (mg/L)	N/V	N/V	394	409	437	431	449	377	409	381	409	437	370	344	390	368	369	382	383
Turbidity (NTU)	1	N/V	N/V	339	665	396	620	219	327	244	276	239	161	376	235	235	263	163	146
Alkalinity, Total (mg/L)	30-500	N/V	391.5	413	375	429	405	383	396	389	414	373	413	384	332	409	401	387	382
Ammonia as N (mg/L)	N/V	N/V	N/V	<0.02	0.082	0.066	0.201	0.344	<0.01	<0.01	0.107	0.292	<0.010	0.014	0.0126	<0.0050	0.251	0.0317	0.0379
Chloride (mg/L)	250	250	125.5	<0.5	<0.5	<0.5	0.54	0.88	<0.5	0.61	<0.5	<0.50	<0.50	<0.5	<0.50	<0.50	<2.50	<0.50	<0.5
Fluoride (mg/L)	1.5	N/V	0.45	<0.02	<0.02	0.022	0.028	0.028	0.028	0.028	0.029	<0.020	<0.020	<0.020	<0.020	<0.020	<0.100	0.027	0.025
Nitrite-N (mg/L)	1	1	0.3	<0.01	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02	<0.02	<0.020	<0.020	<0.020	<0.020	<0.020	<0.100	<0.020	<0.100
Nitrate-N (mg/L)	10	10	2.6	0.058	<0.02	0.033	<0.02	<0.01	<0.01	<0.01	<0.01	<0.010	<0.010	<0.010	0.037	<0.010	<0.050	<0.010	<0.050
Phosphate-P (ortho)	N/V	N/V	N/V	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.0030	<0.0030	<0.0030	<0.0030	0.0017	<0.0010	<0.001	0.0011
Sulphate (mg/L)	500	N/V	253.9	1.42	1.49	1.16	1.33	2.1	1.25	1.4	1.07	0.58	0.86	0.59	0.76	1.41	<1.50	0.71	0.39
Metal Scan-Total	Units: mg/L			mg/L															
Aluminum (Al)-Total	N/V	N/V	0.0525	<0.010	<0.010	0.0054	1.17	<0.0050	<0.0050	0.0057	<0.0050	0.0146	0.0080	0.302	0.0134	0.0178	0.0040	0.0095	0.0039
Antimony (Sb)-Total	N/V	0.006	N/V	<0.0050	<0.0050	0.00012	0.00012	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Arsenic (As)-Total	0.025	0.025	N/V	<0.0010	<0.0010	0.00092	0.00315	0.00134	0.00067	0.00046	0.00079	0.00160	0.00079	0.00162	0.00222	0.00118	0.00386	0.00226	0.00265
Barium (Ba)-Total	1	1	N/V	0.049	0.108	0.102	0.203	0.142	0.0777	0.0579	0.0742	0.120	0.0697	0.115	0.0675	0.119	0.109	0.0821	0.0873
Beryllium (Be)-Total	N/V	0.004	N/V	<0.0010	<0.0010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.000020	<0.000020	0.000026	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
Bismuth (Bi)-Total	N/V	N/V	N/V	<0.0010	<0.0010	<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	<0.000050
Boron (B)-Total	5	5	2.5025	0.09	0.185	0.166	0.312	0.254	0.117	0.087	0.110	0.208	0.109	0.205	0.099	0.205	0.196	0.149	0.162
Cadmium (Cd)-Total	0.005	0.005	N/V	<0.000090	<0.000090	0.0000065	0.0000818	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	0.0000264	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050
Calcium (Ca)-Total	N/V	N/V	N/V	131	139	124	173	134	134	129	127	124	129	124	109	127	123	121	126
Chromium (Cr)-Total	0.05	0.05	N/V	<0.00050	<0.00050	<0.00050	0.00173	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	0.00068	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Cobalt (Co)-Total	N/V	0.1	N/V	<0.00050	<0.00050	0.00012	0.00078	0.00070	<0.00010	<0.00010	0.00015	0.00024	0.00024	0.00073	0.00117	0.00041	0.00136	0.00113	0.00096
Copper (Cu)-Total	1	0.023	0.5007	<0.0010	<0.0010	0.00046	0.00333	0.00061	0.00057	0.00063	0.00039	0.00077	0.00071	0.00208	0.00046	0.00123	<0.00020	0.00033	<0.00020
Iron (Fe)-Total	0.3	N/V	0.17	0.32	2.35	2.06	5.23	2.91	1.30	0.860	1.40	3.43	1.38	3.46	2.66	3.83	6.18	2.91	3.46
Lead (Pb)-Total	0.01	0.01	0.0027	<0.0010	<0.0010	<0.000050	0.0184	<0.000050	0.000054	0.000164	<0.000050	0.000295	0.000075	0.00210	0.000135	0.000170	<0.000050	0.000113	<0.000050
Magnesium (Mg)-Total	N/V	N/V	87	32.1	33.6	31.0	50.1	35.8	30.8	30.3	29.1	33.6	30.2	36.1	25.9	32.9	32.0	32.9	30.7
Manganese (Mn)-Total	0.05	N/V	0.09	0.216	0.109	0.106	0.394	0.387	0.0662	0.0459	0.0908	0.180	0.119	0.269	0.381	0.205	0.412	0.415	0.322
Molybdenum (Mo)-Total	N/V	7.3	N/V	<0.0010	<0.0010	0.000317	0.000208	0.000261	0.000290	0.000268	0.000300	0.000210	0.000349	0.000239	0.000569	0.000314	0.000726	0.000431	0.000492
Nickel (Ni)-Total	N/V	0.1	N/V	<0.0020	<0.0020	0.00080	0.00250	0.00153	0.00067	<0.00050	<0.00050	0.00108	0.00134	0.00136	0.00130	0.00123	0.00161	0.00157	0.00141
Phosphorus (P)-Total	N/V	N/V	N/V	<0.050	<0.050	<0.050	0.076	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Potassium (K)-Total	N/V	N/V	N/V	2.2	5	5.40	9.68	8.37	3.29	2.72	3.75	6.77	3.76	7.09	3.30	6.70	6.16	4.88	4.90
Selenium (Se)-Total	0.01	0.01	N/V	<0.00040	<0.00040	0.000151	0.000150	0.000345	0.000253	0.000266	0.000155	0.00104	0.000116	0.000356	0.000174	0.000637	0.000310	0.000292	0.00122
Silicon (Si)-Total	N/V	N/V	N/V	3.7	4.5	3.87	7.48	4.83	4.50	3.86	4.33	4.08	4.58	4.42	4.18	4.29	4.99	3.98	4.72
Silver (Ag)-Total	N/V	0.0012	N/V	<0.00010	<0.00010	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Sodium (Na)-																			

2-Chloroethylvinyl Ether	N/V	N/V	N/V	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
2-Hexanone	N/V	N/V	N/V	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT
Acetone	N/V	300	N/V	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT
Benzene	5	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Bromodichloromethane	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Bromoform	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Bromomethane	N/V	10	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
Carbon Disulfide	N/V	N/V	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Carbon tetrachloride	5	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Chlorobenzene	N/V	30	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Chloroethane	N/V	N/V	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
Chloroform	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Chloromethane	N/V	N/V	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
cis-1,2-Dichloroethylene	N/V	70	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
cis-1,3-Dichloropropene	N/V	1.4	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Dibromochloromethane	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Dichlorodifluoromethane	N/V	N/V	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
Dichloromethane	50	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Ethyl Benzene	2.4	2.4	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
m+p-Xylenes	N/V	N/V	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
Methyl Ethyl Ketone	N/V	350	N/V	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT
Methyl Isobutyl Ketone	N/V	350	N/V	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT
MTBE	N/V	700	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
o-Xylene	N/V	N/V	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Styrene	N/V	100	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Tetrachloroethylene	30	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Toluene	24	24	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
trans-1,2-Dichloroethylene	N/V	0.1	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
trans-1,3-Dichloropropene	N/V	N/V	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Trichloroethylene	50	50	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Trichlorofluoromethane	N/V	N/V	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
Trihalomethanes (total)	100	N/V	N/V	<2	NT	<2	NT	<2	NT	<2	NT	<2	NT	<2	NT	<2	NT	<2	NT
Vinyl chloride	2	1.3	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Xylenes (Total)	300	300	N/V	<1.5	NT	<1.5	NT	<1.5	NT	<1.5	NT	<1.5	NT	<1.5	NT	<1.5	NT	<1.5	NT

Notes:

OWDS - Ontario Drinking Water Standards (mg/L) from Ont. Reg. 169/03

SCS - Table 2 Site Condition Standards (mg/L) from Ont. Reg. 153/04

RUP - Reasonable Use Policy from Guideline B-7, MOEE, 1994

Values shown in **BOLD** exceed ODWS

N/V - No Value. No maximum concentration assigned.

NT - Not Tested, no analysis completed for this parameter/sample

Analyses completed at ALS Laboratoy Group in Waterloo, ON

Well ID				OW3D															
Data Sampled				30-Apr-18	25-Oct-18	22-May-19	23-Oct-19	28-Apr-20	14-Oct-20	18-May-21	13-Oct-21	04-May-22	25-Oct-22	03-May-23	18-Oct-23	25-Apr-24	22-Oct-24	29-Apr-25	16-Oct-25
Parameter	ODWS	SCS	RUP																
Color, Apparent (C.U.)	5	N/V	N/V	157	130	29.6	67.8	49.7	104	230	47.7	185	41.9	1000	566.0	1070	1200.0	1160	1100.0
Conductivity (umhos/cm)	N/V	N/V	N/V	1740	1906	1990	1860	1990	1930	1710	1780	1630	1630	1830	634	1840	1760	1700	1790
Hardness (as CaCO3 - mg/L)	80-100	N/V	N/V	690	828	832	828	672	852	833	728	NT	NT	625	379	751	760	673	754
pH (pH units)	6.5-8.5	N/V	8.2	7.63	6.74	6.82	7.36	6.78	6.78	7.09	6.84	7.56	7.28	7.47	7.66	7.26	7.97	7.33	7.84
Total Dissolved Solids (mg/L)	N/V	N/V	394	985	1080	1030	1100	1020	1020	994	887	768	888	940	318	958	969	956	985
Turbidity (NTU)	1	N/V	N/V	151	238	232	201	180	74.5	181	189	168	193	224	224	253	205	234	216
Alkalinity, Total (mg/L)	30-500	N/V	391.5	788	941	820	1020	965	997	893	953	920	820	917	401	995	967	850	966
Ammonia as N (mg/L)	N/V	N/V	N/V	30.7	34.5	37.5	41.2	41.1	37.5	37.3	34.5	31.6	34.1	37.5	0.0	36.9	37.5	37.7	39.6
Chloride (mg/L)	250	250	125.5	68.4	17.5	73.3	77.5	65.7	63.8	49.0	44.8	44.3	46.1	44.4	<0.5	50.3	46.8	35.00	49.30
Fluoride (mg/L)	1.5	N/V	0.45	0.057	<0.02	<0.1	<0.1	<0.1	<0.1	<0.10	<0.10	<0.10	<0.10	<0.10	0.03	<0.100	<0.100	<0.100	<0.100
Nitrite-N (mg/L)	1	1	0.3	<0.01	<0.01	<0.1	<0.1	<0.1	<0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.100	<0.100	<0.100	<0.100
Nitrate-N (mg/L)	10	10	2.6	0.923	<0.02	<0.05	<0.05	<0.05	<0.05	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Phosphate-P (ortho)	N/V	N/V	N/V	0.005	<0.003	<0.003	<0.003	<0.003	<0.003	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	<0.0010	<0.0010	<0.0010	<0.0010
Sulphate (mg/L)	500	N/V	253.9	60.5	9.7	94.9	36.7	38.1	31.8	36.0	37.7	28.5	30.4	102.0	0.5	30.3	23.4	119	33.9
Metal Scan-Total	Units: mg/L			mg/L															
Aluminum (Al)-Total	N/V	N/V	0.0525	0.013	<0.010	0.013	<0.050	<0.050	0.536	0.0167	<0.050	<0.050	0.0151	0.0263	0.0155	0.0183	0.0201	0.0319	0.0144
Antimony (Sb)-Total	N/V	0.006	N/V	<0.0050	<0.0050	<0.0050	<0.0050	<0.0010	0.00014	<0.00010	<0.0010	<0.0010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00100	<0.00100	<0.00010
Arsenic (As)-Total	0.025	0.025	N/V	0.0097	0.0022	0.0062	0.0053	0.0064	0.00798	0.00520	0.0050	0.0043	0.00580	0.00643	0.00551	0.00591	0.00346	0.00664	0.00649
Barium (Ba)-Total	1	1	N/V	0.605	0.396	0.419	0.601	0.648	0.455	0.413	0.583	0.533	0.394	0.413	0.433	0.433	0.425	0.359	0.428
Beryllium (Be)-Total	N/V	0.004	N/V	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.00010	<0.00010	<0.0010	<0.0010	<0.00010	<0.000020	<0.000020	<0.000020	<0.000200	<0.000200	<0.000020
Bismuth (Bi)-Total	N/V	N/V	N/V	<0.0010	<0.0010	<0.0010	<0.0010	<0.00050	<0.000050	<0.000050	<0.00050	<0.00050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000500	<0.000500	<0.000050
Boron (B)-Total	5	5	2.5025	0.986	0.721	0.758	1.12	1.13	0.796	0.786	1.15	1.00	0.844	0.693	0.832	0.882	0.914	0.925	0.952
Cadmium (Cd)-Total	0.005	0.005	N/V	<0.000090	<0.000090	<0.000090	<0.000090	<0.000050	0.0000665	0.0000067	<0.000050	<0.000050	<0.0000050	0.0000070	<0.0000050	0.0000106	<0.0000500	<0.0000500	0.0000054
Calcium (Ca)-Total	N/V	N/V	N/V	172	173	176	205	198	207	170	214	207	189	149	188	193	199	161	201
Chromium (Cr)-Total	0.05	0.05	N/V	0.00083	0.00053	0.00121	<0.0050	<0.0050	0.00184	0.00099	<0.0050	<0.0050	0.00114	0.00079	0.00098	0.00103	<0.00500	<0.00500	0.00113
Cobalt (Co)-Total	N/V	0.1	N/V	0.00084	0.00065	0.00083	<0.0010	<0.0010	0.00088	0.00071	<0.0010	<0.0010	0.00069	0.00066	0.00079	0.00086	<0.00100	<0.00100	0.00090
Copper (Cu)-Total	1	0.023	0.5007	<0.0010	<0.0010	<0.0010	0.005	<0.0020	0.00205	0.00029	0.0039	<0.0020	<0.00020	0.00083	0.00070	0.00045	<0.00200	<0.00200	<0.00020
Iron (Fe)-Total	0.3	N/V	0.17	17.9	8.77	12.7	18.7	19.8	14.5	12.8	18.3	16.3	14.1	15.0	17.0	19.0	17.6	17.5	17.8
Lead (Pb)-Total	0.01	0.01	0.0027	<0.0010	<0.0010	<0.0010	<0.0010	<0.00050	0.0331	0.000209	<0.00050	<0.00050	0.000202	0.000361	0.000123	0.000364	<0.000500	<0.000500	0.000198
Magnesium (Mg)-Total	N/V	N/V	87	82.7	65.5	60.8	76.7	81.7	75.8	60.4	77.0	77.1	62.4	61.4	62.6	65.4	63.9	65.8	61.1
Manganese (Mn)-Total	0.05	N/V	0.09	0.857	0.674	0.595	0.785	0.787	0.675	0.587	0.707	0.654	0.544	0.578	0.648	0.740	0.618	0.491	0.581
Molybdenum (Mo)-Total	N/V	7.3	N/V	<0.0010	<0.0010	<0.0010	<0.0010	<0.00050	0.000165	0.000163	<0.00050	<0.00050	0.000155	0.000212	0.000159	0.000133	<0.000500	<0.000500	0.000151
Nickel (Ni)-Total	N/V	0.1	N/V	0.0047	0.0034	0.0044	0.0062	<0.0050	0.00436	0.00351	0.0051	<0.0050	0.00322	0.00288	0.00350	0.00341	<0.00500	<0.00500	0.00329
Phosphorus (P)-Total	N/V	N/V	N/V	0.056	<0.050	<0.050	<0.50	<0.50	0.097	<0.050	<0.50	<0.50	<0.050	<0.050	<0.050	<0.050	<0.500	<0.500	<0.050
Potassium (K)-Total	N/V	N/V	N/V	34.0	25.1	22.8	32	34.4	23.6	24.9	30.3	31.6	25.4	25.2	26.7	27.4	25.5	25.6	27.4
Selenium (Se)-Total	0.01	0.01	N/V	0.00064	0.00087	0.00083	<0.00050	<0.00050	0.000398	0.00145	0.00118	<0.00050	0.00159	0.00428	0.000697	0.00396	<0.000500	0.000610	0.00391
Silicon (Si)-Total	N/V	N/V	N/V	7.3	5.7	6.6	7.8	7.13	7.70	6.85	8.10	8.45	7.48	6.07	7.93	7.29	7.46	5.62	7.41
Silver (Ag)-Total	N/V	0.0012	N/V	<0.00010	<0.00010	<0.00010	<0.00050	<0.00050	<0.000050	<0.000050	<0.00050	<0.00050	<0.000050	<0.000010	<0.000010	<0.000010	<0.000100	<0.000100	<0.000010
Sodium (Na)-Total	N/V	N/V	100.																

2-Chloroethylvinyl Ether	N/V	N/V	N/V	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
2-Hexanone	N/V	N/V	N/V	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT
Acetone	N/V	300	N/V	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT
Benzene	5	5	N/V	1.52	NT	1.08	NT	1.84	NT	1.65	NT	1.45	NT	1.5	NT	1.41	NT	1.38	NT
Bromodichloromethane	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Bromoform	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Bromomethane	N/V	10	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
Carbon Disulfide	N/V	N/V	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Carbon tetrachloride	5	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Chlorobenzene	N/V	30	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Chloroethane	N/V	N/V	N/V	3.5	NT	2.7	NT	3.5	NT	3.5	NT	3.8	NT	NT	NT	NT	NT	NT	NT
Chloroform	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Chloromethane	N/V	N/V	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
cis-1,2-Dichloroethylene	N/V	70	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
cis-1,3-Dichloropropene	N/V	1.4	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Dibromochloromethane	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Dichlorodifluoromethane	N/V	N/V	N/V	1.6	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	0.69	NT	1.88	NT
Dichloromethane	50	5	N/V	<0.5	NT	2.9	NT	2.9	NT	2.9	NT	2.9	NT	<1	NT	<1	NT	<1	NT
Ethyl Benzene	2.4	2.4	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
m-p-Xylenes	N/V	N/V	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
Methyl Ethyl Ketone	N/V	350	N/V	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT
Methyl Isobutyl Ketone	N/V	350	N/V	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT
MTBE	N/V	700	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
o-Xylene	N/V	N/V	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Styrene	N/V	100	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Tetrachloroethylene	30	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Toluene	24	24	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
trans-1,2-Dichloroethylene	N/V	0.1	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
trans-1,3-Dichloropropene	N/V	N/V	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Trichloroethylene	50	50	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Trichlorofluoromethane	N/V	N/V	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
Trihalomethanes (total)	100	N/V	N/V	<2	NT	<2	NT	<2	NT	<2	NT	<2	NT	<2	NT	<2	NT	<2	NT
Vinyl chloride	2	1.3	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Xylenes (Total)	300	300	N/V	<1.5	NT	<1.5	NT	<1.5	NT	<1.5	NT	<1.5	NT	<1.5	NT	<1.5	NT	<1.5	NT

Well ID				OW5S															
Data Sampled				30-Apr-18	25-Oct-18	22-May-19	23-Oct-19	28-Apr-20	14-Oct-20	18-May-21	13-Oct-21	04-May-22	25-Oct-22	03-May-23	18-Oct-23	25-Apr-24	10/29/2024	29-Apr-25	10/16/2025
Parameter	ODWS	SCS	RUP																
Color, Apparent (C.U.)	5	N/V	N/V	32.8	16.5	46.8	27.3	67.3	NT	10.2	NT	17.4	8.6	8.4	NT	156.0	NT	221.0	NT
Conductivity (umhos/cm)	N/V	N/V	N/V	307	632	529	615	452	NT	513	NT	612	686	559	NT	407	NT	472	NT
Hardness (as CaCO3 - mg/L)	80-100	N/V	N/V	214	342	362	360	385	NT	290	NT	389	467	NT	NT	275	NT	287	NT
pH (pH units)	6.5-8.5	N/V	8.2	7.94	7.89	8.11	7.49	7.69	NT	7.76	NT	7.77	7.34	7.94	NT	8.03	NT	8.02	NT
Total Dissolved Solids (mg/L)	N/V	N/V	394	177	362	261	388	247	NT	313	NT	379	348	301	NT	224	NT	295	NT
Turbidity (NTU)	1	N/V	N/V	240	465	194	444	237	NT	324	NT	311	156	249	NT	105	NT	141	NT
Alkalinity, Total (mg/L)	30-500	N/V	391.5	242	326	291	353	255	NT	271	NT	376	372	319	NT	214	NT	279	NT
Ammonia as N (mg/L)	N/V	N/V	N/V	<0.02	<0.02	0.075	0.056	<0.01	NT	0.121	NT	0.041	0.171	0.017	NT	0.0244	NT	<0.005	NT
Chloride (mg/L)	250	250	125.5	4.69	6.29	3.29	2.56	1.61	NT	1.48	NT	1.36	4.63	1.45	NT	3.34	NT	2.21	NT
Fluoride (mg/L)	1.5	N/V	0.45	<0.02	0.024	0.031	0.033	0.048	NT	0.033	NT	<0.020	0.026	0.027	NT	0.031	NT	0.039	NT
Nitrite-N (mg/L)	1	1	0.3	<0.01	<0.01	<0.01	<0.01	0.21	NT	0.088	NT	0.168	0.556	0.168	NT	1.42	NT	0.50	NT
Nitrate-N (mg/L)	10	10	2.6	0.567	0.721	0.323	<0.02	<0.01	NT	<0.01	NT	<0.010	<0.010	0.125	NT	<0.010	NT	<0.010	NT
Phosphate-P (ortho)	N/V	N/V	N/V	0.0042	<0.003	<0.003	<0.003	<0.003	NT	<0.003	NT	0.0068	<0.0030	0.0102	NT	0.0097	NT	0.0053	NT
Sulphate (mg/L)	500	N/V	253.9	6.73	12.1	3.88	7.38	4.49	NT	2.99	NT	10.8	8.89	1.8	NT	2.00	NT	3.05	NT
Metal Scan-Total	Units: mg/L			mg/L															
Aluminum (Al)-Total	N/V	N/V	0.0525	<0.010	<0.010	<0.0050	NT	<0.0050	NT	0.0083	<0.0050	0.0535	NT	0.0060	NT	0.194	NT	<0.0010	NT
Antimony (Sb)-Total	N/V	0.006	N/V	<0.0050	<0.0050	<0.00010	NT	<0.00010	NT	<0.00010	<0.00010	<0.00010	NT	<0.00010	NT	<0.00010	NT	<0.00010	NT
Arsenic (As)-Total	0.025	0.025	N/V	<0.0010	<0.0010	0.00029	NT	0.00015	NT	0.00011	0.00031	0.00022	NT	0.00019	NT	0.00036	NT	0.00013	NT
Barium (Ba)-Total	1	1	N/V	0.049	0.01	0.0322	NT	0.00907	NT	0.00848	0.0154	0.0122	NT	0.0152	NT	0.0105	NT	0.00808	NT
Beryllium (Be)-Total	N/V	0.004	N/V	<0.0010	<0.0010	<0.00010	NT	<0.00010	NT	<0.00010	<0.00010	<0.000020	NT	<0.000020	NT	<0.000020	NT	<0.000020	NT
Bismuth (Bi)-Total	N/V	N/V	N/V	<0.0010	<0.0010	<0.000050	NT	<0.000050	NT	<0.000050	<0.000050	<0.000050	NT	<0.000050	NT	<0.000050	NT	<0.000050	NT
Boron (B)-Total	5	5	2.5025	0.111	<0.050	0.152	NT	0.024	NT	0.071	0.160	0.028	NT	0.028	NT	0.015	NT	0.019	NT
Cadmium (Cd)-Total	0.005	0.005	N/V	<0.000090	<0.000090	0.0000060	NT	0.0000081	NT	0.0000342	0.0000299	0.0000154	NT	0.0000126	NT	0.0000340	NT	0.0000056	NT
Calcium (Ca)-Total	N/V	N/V	N/V	86.5	97.6	100	NT	76.5	NT	106	124	82.7	NT	65.2	NT	71.0	NT	74.7	NT
Chromium (Cr)-Total	0.05	0.05	N/V	<0.00050	<0.00050	<0.00050	NT	<0.00050	NT	<0.00050	<0.00050	<0.00050	NT	<0.00050	NT	0.00054	NT	<0.00050	NT
Cobalt (Co)-Total	N/V	0.1	N/V	0.00081	<0.00050	0.00020	NT	0.00011	NT	<0.00010	0.00011	<0.00010	NT	0.00013	NT	0.00022	NT	<0.00010	NT
Copper (Cu)-Total	1	0.023	0.5007	<0.0010	0.0018	0.00126	NT	0.00060	NT	0.00176	0.00142	0.00251	NT	0.00137	NT	0.00277	NT	0.00052	NT
Iron (Fe)-Total	0.3	N/V	0.17	0.059	<0.050	0.041	NT	0.020	NT	<0.010	0.236	0.110	NT	0.024	NT	0.406	NT	0.028	NT
Lead (Pb)-Total	0.01	0.01	0.0027	<0.0010	<0.0010	<0.000050	NT	0.000127	NT	0.000122	<0.000050	0.000829	NT	0.000245	NT	0.00184	NT	<0.000050	NT
Magnesium (Mg)-Total	N/V	N/V	87	35.5	28.3	32.5	NT	24.0	NT	30.2	38.3	25.1	NT	21.2	NT	23.7	NT	24.5	NT
Manganese (Mn)-Total	0.05	N/V	0.09	0.192	0.0278	0.0449	NT	0.0385	NT	0.00376	0.0193	0.0195	NT	0.0228	NT	0.0503	NT	0.00320	NT
Molybdenum (Mo)-Total	N/V	7.3	N/V	<0.0010	<0.0010	0.000187	NT	0.000108	NT	0.000052	0.000194	0.000128	NT	0.000241	NT	0.000145	NT	0.000133	NT
Nickel (Ni)-Total	N/V	0.1	N/V	0.0022	<0.0020	<0.00050	NT	<0.00050	NT	<0.00050	<0.00050	0.00065	NT	0.00052	NT	0.00058	NT	<0.00050	NT
Phosphorus (P)-Total	N/V	N/V	N/V	<0.050	<0.050	<0.050	NT	<0.050	NT	<0.050	<0.050	<0.050	NT	<0.050	NT	<0.050	NT	<0.050	NT
Potassium (K)-Total	N/V	N/V	N/V	5.7	1.6	3.86	NT	1.65	NT	1.01	3.14	1.04	NT	1.88	NT	1.42	NT	1.22	NT
Selenium (Se)-Total	0.01	0.01	N/V	<0.00040	<0.00040	0.000078	NT	0.000118	NT	0.000265	0.000185	0.000154	NT	0.000108	NT	0.000286	NT	0.000083	NT
Silicon (Si)-Total	N/V	N/V	N/V	3.2	2.6	2.18	NT	2.04	NT	2.43	2.98	2.58	NT	2.15	NT	2.25	NT	2.06	NT
Silver (Ag)-Total	N/V	0.0012	N/V	<0.00010	<0.00010	<0.000050	NT	<0.000050	NT	<0.000050	<0.000050	<0.000010	NT	<0.000010	NT	<0.000010	NT	<0.000010	NT
Sodium (Na)-Total	N/V	N/V	100.5	9.24	3.56	5.42	NT	1.80	NT	2.61	5.02	1.76	NT	2.29	NT	1.34	NT	1.61	NT
Strontium (Sr)-Total	N/V	N/V	N/V	0.134	0.111	0.161	NT	0.0836	NT	0.107	0.185	0.0954	NT	0.0798	NT	0.0728	NT	0.0826	NT
Thallium (Tl)-Total	N/V	0.002	N/V	<0.00030	<0.00030	<0.000010	NT	<0.000010	NT	<0.000010	<0.000010	<0.000010	NT	<0.000010	NT	<0.000010	NT	<0.000010	NT
Tin (Sn)-Total	N/V	N/V	N/V	<0.0010	<0.0010	<0.00010	NT	<0.00010	NT	<0.00010	<0.00010	0.00043	NT	<0.00010	NT	<0.00010	NT	0.00011	NT
Titanium (Ti)-Total	N/V	N/V	N/V	<0.0020	<0.0020	<0.00030	NT	<0.00030	NT	<0.00030	<0.00030	<0.00300	NT	<0.00030	NT	<0.00600	NT	<0.00030	NT
Tungsten (W)-Total	N/V	N/V	N/V	<0.010	<0.010	<0.00010	NT	<0.00010	NT	<0.00010	<0.00013	<0.00010	NT	<0.00010	NT	<0.00010	NT	<0.00010	NT
Uranium (U)-Total	N/V	N/V	N/V	<0.0050	<0.0050	0.000254	NT	0.000146	NT	0.000164	0.000306	0.000236	NT	0.000275	NT	0.000199	NT	0.000184	NT
Vanadium (V)-Total	N/V	0.2	N/V	<0.0010	<0.0010	<0.00050	NT	<0.00050	NT	<0.00050	<0.00050	<0.00050	NT	<0.00050	NT	0.00053	NT	<0.00050	NT
Zinc (Zn)-Total	5	1.1	0.005	0.0049	0.0058	0.0012	NT	0.0012	NT	0.0023	0.0020	0.0031	NT	0.0047	NT	0.0053	NT	<0.0010	NT
Zirconium (Zr)-Total	N/V	N/V	N/V	<0.0040	<0.0040	<0.00030	NT	<0.00030	NT	<0.00030	<0.00030	<0.00020	NT	<0.00020	NT	<0.00020	NT	<0.00020	NT
Volatile Organics	Units: µg/L			µg/L															
1,1,1,2-Tetrachloroethane	N/V	200	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,1,2,2-Tetrachloroethane	N/V	1	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,1,1-Trichloroethane	N/V	200	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,1,2-Trichloroethane	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,2-Dibromoethane	N/V	N/V	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,1-Dichloroethane	N/V	70	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,1-Dichloroethylene	14	4.1	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,2-Dichlorobenzene	200	3	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,2-Dichloroethane	5	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,2-Dichloropropane	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,3-Dichlorobenzene	N/V	630	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,4-Dichlorobenzene	5	1	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT

2-Chloroethylvinyl Ether	N/V	N/V	N/V	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
2-Hexanone	N/V	N/V	N/V	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT
Acetone	N/V	300	N/V	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT
Benzene	5	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Bromodichloromethane	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Bromoform	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Bromomethane	N/V	10	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
Carbon Disulfide	N/V	N/V	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Carbon tetrachloride	5	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Chlorobenzene	N/V	30	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Chloroethane	N/V	N/V	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
Chloroform	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Chloromethane	N/V	N/V	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
cis-1,2-Dichloroethylene	N/V	70	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
cis-1,3-Dichloropropene	N/V	1.4	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Dibromochloromethane	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Dichlorodifluoromethane	N/V	N/V	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
Dichloromethane	50	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Ethyl Benzene	2.4	2.4	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
m+p-Xylenes	N/V	N/V	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
Methyl Ethyl Ketone	N/V	350	N/V	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT
Methyl Isobutyl Ketone	N/V	350	N/V	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT
MTBE	N/V	700	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
o-Xylene	N/V	N/V	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Styrene	N/V	100	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Tetrachloroethylene	30	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Toluene	24	24	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
trans-1,2-Dichloroethylene	N/V	0.1	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
trans-1,3-Dichloropropene	N/V	N/V	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Trichloroethylene	50	50	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Trichlorofluoromethane	N/V	N/V	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
Trihalomethanes (total)	100	N/V	N/V	<2	NT	<2	NT	<2	NT	<2	NT	<2	NT	<2	NT	<2	NT	<2	NT
Vinyl chloride	2	1.3	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Xylenes (Total)	300	300	N/V	<1.5	NT	<1.5	NT	<1.5	NT	<1.5	NT	<1.5	NT	<1.5	NT	<1.5	NT	<1.5	NT

Notes:

OWDS - Ontario Drinking Water Standards (mg/L) from Ont. Reg. 169/03

SCS - Table 2 Site Condition Standards (mg/L) from Ont. Reg. 153/04

RUP - Reasonable Use Policy from Guideline B-7, MOEE, 1994

Values shown in **BOLD** exceed ODWS

N/V - No Value. No maximum concentration assigned.

NT - Not Tested, no analysis completed for this parameter/sample

Analyses completed at ALS Laboratoy Group in Waterloo, ON

[illegible]

2-Chloroethylvinyl Ether	N/V	N/V	N/V	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
2-Hexanone	N/V	N/V	N/V	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT
Acetone	N/V	300	N/V	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT
Benzene	5	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Bromodichloromethane	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Bromoform	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Bromomethane	N/V	10	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
Carbon Disulfide	N/V	N/V	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Carbon tetrachloride	5	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Chlorobenzene	N/V	30	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Chloroethane	N/V	N/V	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
Chloroform	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Chloromethane	N/V	N/V	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
cis-1,2-Dichloroethylene	N/V	70	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
cis-1,3-Dichloropropene	N/V	1.4	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Dibromochloromethane	N/V	5	N/V	<0.5	NT	2.8	NT	2.8	NT	2.8	NT	2.8	NT	NT	NT	NT	NT	NT	NT
Dichlorodifluoromethane	N/V	N/V	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
Dichloromethane	50	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Ethyl Benzene	2.4	2.4	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
m+p-Xylenes	N/V	N/V	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
Methyl Ethyl Ketone	N/V	350	N/V	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT
Methyl Isobutyl Ketone	N/V	350	N/V	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT
MTBE	N/V	700	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
o-Xylene	N/V	N/V	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Styrene	N/V	100	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Tetrachloroethylene	30	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Toluene	24	24	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
trans-1,2-Dichloroethylene	N/V	0.1	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
trans-1,3-Dichloropropene	N/V	N/V	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Trichloroethylene	50	50	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Trichlorofluoromethane	N/V	N/V	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
Trihalomethanes (total)	100	N/V	N/V	<2	NT	<2	NT	<2	NT	<2	NT	<2	NT	<2	NT	<2	NT	<2	NT
Vinyl chloride	2	1.3	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Xylenes (Total)	300	300	N/V	<1.5	NT	<1.5	NT	<1.5	NT	<1.5	NT	<1.5	NT	<1.5	NT	<1.5	NT	<1.5	NT

Notes:

OWDS - Ontario Drinking Water Standards (mg/L) from Ont. Reg. 169/03

SCS - Table 2 Site Condition Standards (mg/L) from Ont. Reg. 153/04

RUP - Reasonable Use Policy from Guideline B-7, MOEE, 1994

Values shown in **BOLD** exceed ODWS

N/V - No Value. No maximum concentration assigned.

NT - Not Tested, no analysis completed for this parameter/sample

Analyses completed at ALS Laboratoy Group in Waterloo, ON

Well ID				OW7D															
Data Sampled				30-Apr-18	25-Oct-18	22-May-19	23-Oct-19	28-Apr-20	14-Oct-20	18-May-21	13-Oct-21	04-May-22	25-Oct-22	03-May-23	19-Oct-23	25-Apr-24	22-Oct-24	29-Apr-25	16-Oct-25
Parameter	ODWS	SCS	RUP																
Color, Apparent (C.U.)	5	N/V	N/V	109	48.8	26	14.2	9.3	21.3	41.6	73.0	17.0	11.7	188.0	63.4	201.0	155.0	179.0	186.0
Conductivity (umhos/cm)	N/V	N/V	N/V	1470	1281	1390	1370	1450	1390	1300	1480	1360	1360	1340	1350	1330	1300	1310	1330
Hardness (as CaCO3 - mg/L)	80-100	N/V	N/V	671	649	638	686	661	662	677	692	NT	NT	644	668	655	680	679	672
pH (pH units)	6.5-8.5	N/V	8.2	7.88	7.05	7.17	7.44	7.31	7.31	7.44	7.03	7.90	7.96	7.94	7.56	7.55	8.04	7.70	7.33
Total Dissolved Solids (mg/L)	N/V	N/V	394	890	785	748	794	779	770	820	751	772	785	749	796	774	794	781	803
Turbidity (NTU)	1	N/V	N/V	110	70.9	23.1	25.7	30.1	6.7	71.5	64.8	45.7	29.1	49.4	23.8	64.0	33.8	60.0	38.4
Alkalinity, Total (mg/L)	30-500	N/V	391.5	610	548	605	647	586	572	589	656	600	586	625	625	609	558	595	595
Ammonia as N (mg/L)	N/V	N/V	N/V	11.5	11.3	9.59	11.5	34	8.47	5.64	13.3	5.88	6.2	7.72	8.2	9.82	9.80	8.66	7.77
Chloride (mg/L)	250	250	125.5	51	9.98	50	51.1	50	52.7	52.4	47.0	49.0	47.5	38.8	38.8	32.8	28.7	32.40	29.50
Fluoride (mg/L)	1.5	N/V	0.45	0.026	<0.02	<0.1	<0.1	<0.1	<0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.100	<0.100	<0.100	<0.100
Nitrite-N (mg/L)	1	1	0.3	<0.01	<0.01	0.76	0.62	2.38	2.15	5.07	<0.10	<0.05	<0.10	<0.05	<0.10	2.10	1.53	2.81	2.49
Nitrate-N (mg/L)	10	10	2.6	<0.02	<0.02	<0.05	0.067	<0.05	<0.05	0.065	<0.050	5.880	4.9	3.560	3.27	<0.050	<0.050	<0.050	<0.050
Phosphate-P (ortho)	N/V	N/V	N/V	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	<0.0010	<0.0010	<0.0010	<0.0010
Sulphate (mg/L)	500	N/V	253.9	136	25.5	117	119	111	116	123	131	120	125	104	111	113	130	118	124
Metal Scan-Total	Units: mg/L			mg/L															
Aluminum (Al)-Total	N/V	N/V	0.0525	<0.010	<0.010	0.0118	0.122	<0.0050	<0.0050	<0.0050	<0.0050	0.0054	0.0097	0.0130	0.0067	0.0040	0.130	0.0026	0.0012
Antimony (Sb)-Total	N/V	0.006	N/V	<0.0050	<0.0050	0.00014	0.00017	0.00012	0.00016	0.00013	<0.00010	0.00012	0.00011	0.00011	0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Arsenic (As)-Total	0.025	0.025	N/V	0.0034	0.0038	0.00078	0.00233	0.00160	0.00050	0.00040	0.00222	0.00087	0.00300	0.00105	0.00170	0.00109	0.00397	0.00110	0.00157
Barium (Ba)-Total	1	1	N/V	0.14	0.139	0.125	0.133	0.120	0.110	0.120	0.130	0.108	0.119	0.126	0.132	0.119	0.142	0.117	0.129
Beryllium (Be)-Total	N/V	0.004	N/V	<0.0010	<0.0010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
Bismuth (Bi)-Total	N/V	N/V	N/V	<0.0010	<0.0010	<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	<0.000050
Boron (B)-Total	5	5	2.5025	0.601	0.483	0.474	0.457	0.522	0.556	0.655	0.656	0.508	0.576	0.464	0.635	0.532	0.513	0.521	0.602
Cadmium (Cd)-Total	0.005	0.005	N/V	<0.000090	<0.000090	0.0000197	0.0000446	0.0000238	0.0000470	0.0000360	0.0000109	0.0000254	0.0000116	0.0000229	0.0000142	0.0000212	0.0000219	0.0000227	0.0000087
Calcium (Ca)-Total	N/V	N/V	N/V	136	155	143	157	144	148	135	148	129	148	139	139	142	152	149	153
Chromium (Cr)-Total	0.05	0.05	N/V	<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	<0.00050	<0.00050	<0.00050
Cobalt (Co)-Total	N/V	0.1	N/V	0.00431	0.00232	0.00048	0.00093	0.00094	0.00144	0.00091	0.00390	0.00126	0.00175	0.00132	0.00193	0.00169	0.00173	0.00179	0.00169
Copper (Cu)-Total	1	0.023	0.5007	<0.0010	<0.0010	0.00077	0.00138	0.00078	0.00143	0.00310	0.00196	0.00087	0.00133	0.00160	0.00112	0.00061	0.00080	0.00048	0.00036
Iron (Fe)-Total	0.3	N/V	0.17	6.9	3.34	0.085	1.39	0.511	0.059	0.484	4.91	1.68	2.46	1.92	1.83	2.07	2.82	2.45	1.41
Lead (Pb)-Total	0.01	0.01	0.0027	0.0018	<0.0010	0.000085	0.000316	<0.000050	<0.000050	0.000153	0.000729	0.000306	0.00124	0.000339	0.000982	0.000335	0.00480	0.000265	0.00118
Magnesium (Mg)-Total	N/V	N/V	87	80.3	63.3	68.4	71.3	73.5	71.1	82.6	78.6	72.4	72.9	72.1	77.9	73.0	72.9	74.6	70.5
Manganese (Mn)-Total	0.05	N/V	0.09	0.215	0.211	0.165	0.191	0.132	0.213	0.0835	0.180	0.0913	0.140	0.135	0.172	0.130	0.182	0.175	0.131
Molybdenum (Mo)-Total	N/V	7.3	N/V	<0.0010	<0.0010	0.000748	0.000680	0.000829	0.000594	0.000417	0.000436	0.000388	0.000564	0.000449	0.000479	0.000404	0.000497	0.000463	0.000459
Nickel (Ni)-Total	N/V	0.1	N/V	0.0099	0.0047	0.00544	0.00613	0.00817	0.00847	0.0104	0.0110	0.00879	0.00834	0.00821	0.00843	0.00754	0.00631	0.00700	0.00663
Phosphorus (P)-Total	N/V	N/V	N/V	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Potassium (K)-Total	N/V	N/V	N/V	28.3	18.6	19.3	20.3	22.8	22.6	28.6	28.6	23.1	23.0	22.7	26.7	22.8	20.1	20.9	22.8
Selenium (Se)-Total	0.01	0.01	N/V	<0.00040	<0.00040	0.000074	0.000169	0.000120	0.000161	0.000089	0.000120	0.000122	0.000136	0.000120	0.000096	0.000074	0.000102	0.000084	0.000211
Silicon (Si)-Total	N/V	N/V	N/V	6.3	5.8	6.15	6.65	6.83	6.25	6.92	6.74	5.94	6.49	6.25	6.70	6.03	6.64	5.94	6.25
Silver (Ag)-Total	N/V	0.0012	N/V	<0.00010	<0.00010	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Sodium (Na)-Total	N/V	N/V	100.5	37.7	29														

[illegible]

Well ID				OW8S															
Data Sampled				30-Apr-18	25-Oct-18	22-May-19	23-Oct-19	28-Apr-20	14-Oct-20	18-May-21	13-Oct-21	04-May-22	25-Oct-22	03-May-23	19-Oct-23	25-Apr-24	22-Oct-24	29-Apr-25	16-Oct-25
Parameter	ODWS	SCS	RUP																
Color, Apparent (C.U.)	5	N/V	N/V	6.1	6.3	8.1	34.7	11.4	16.9	5.9	7	8.7	7.0	25.1	563	116.0	NT	33.1	NT
Conductivity (umhos/cm)	N/V	N/V	N/V	2010	1900	1650	1781	1450	1710	1610	1730	1290	1610	1380	1650	1410	NT	1280	NT
Hardness (as CaCO3 - mg/L)	80-100	N/V	N/V	1080	998	936	944	836	903	839	951	871	982	757	1010	834	NT	734	NT
pH (pH units)	6.5-8.5	N/V	8.2	7.34	7.56	7.86	7.13	7.3	7.4	7.32	7.17	7.77	6.99	7.92	7.65	7.67	NT	7.86	NT
Total Dissolved Solids (mg/L)	N/V	N/V	394	1480	1550	1380	1500	1100	1430	1190	1330	1050	1180	1060	1290	974	NT	936	NT
Turbidity (NTU)	1	N/V	N/V	15.4	25.1	21.4	207	21.4	105	35.3	34	73.6	43.7	10.9	199	32.1	NT	20.8	NT
Alkalinity, Total (mg/L)	30-500	N/V	391.5	493	512	383	465	353	463	395	467	390	477	387	485	409	NT	411	NT
Ammonia as N (mg/L)	N/V	N/V	N/V	<0.02	0.031	<0.02	<0.02	<0.01	<0.01	0.014	<0.01	0.016	0.015	<0.005	<0.005	0.0108	NT	<0.005	NT
Chloride (mg/L)	250	250	125.5	7.3	5.5	8.05	4.01	7.1	13.7	7.2	9.3	7.0	6.7	4.8	11.7	6.08	NT	4.65	NT
Fluoride (mg/L)	1.5	N/V	0.45	<0.1	<0.1	0.027	<0.02	<0.1	<0.1	<0.1	<0.1	<0.10	<0.10	<0.10	<0.1	<0.100	NT	<0.100	NT
Nitrite-N (mg/L)	1	1	0.3	<0.05	<0.05	<0.01	<0.01	2.36	1.38	2.18	2.54	1.93	3.56	<0.05	<0.05	1.10	NT	1.94	NT
Nitrate-N (mg/L)	10	10	2.6	2.92	3.05	2	0.187	<0.05	<0.05	<0.05	<0.05	<0.050	<0.050	1.76	1.23	<0.050	NT	<0.050	NT
Phosphate-P (ortho)	N/V	N/V	N/V	<0.003	<0.03	<0.003	<0.003	<0.003	0.0082	<0.003	<0.003	<0.0030	<0.0030	<0.0030	0.0056	0.0015	NT	<0.001	NT
Sulphate (mg/L)	500	N/V	253.9	743	636	613	152	547	635	559	603	464	523	433	562	436	NT	359	NT
Metal Scan-Total	Units: mg/L			mg/L															
Aluminum (Al)-Total	N/V	N/V	0.0525	<0.010	<0.010	<0.0050	0.333	<0.0050	<0.0050	0.0063	0.0070	0.0114	NT	0.0284	0.0057	0.0024	NT	0.0145	NT
Antimony (Sb)-Total	N/V	0.006	N/V	<0.0050	<0.0050	0.00012	0.00016	<0.00010	0.00012	0.00014	0.00014	0.00019	NT	0.00011	0.00011	0.00011	NT	0.00012	NT
Arsenic (As)-Total	0.025	0.025	N/V	0.0013	<0.0010	0.00041	0.00265	0.00038	0.00033	0.00026	0.00030	0.00061	NT	0.00044	0.00028	0.00024	NT	0.00051	NT
Barium (Ba)-Total	1	1	N/V	0.14	0.066	0.0479	0.0584	0.0647	0.0457	0.0311	0.0450	0.0412	NT	0.0660	0.0328	0.0326	NT	0.0444	NT
Beryllium (Be)-Total	N/V	0.004	N/V	<0.0010	<0.0010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.000020	NT	<0.000020	<0.000020	<0.000020	NT	<0.000020	NT
Bismuth (Bi)-Total	N/V	N/V	N/V	<0.0010	<0.0010	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	NT	<0.000050	<0.000050	<0.000050	NT	<0.000050	NT
Boron (B)-Total	5	5	2.5025	0.671	0.678	0.578	0.466	0.558	0.660	0.625	0.736	0.432	NT	0.498	0.651	0.623	NT	0.554	NT
Cadmium (Cd)-Total	0.005	0.005	N/V	<0.000090	<0.000090	0.0000224	0.0000810	0.0000190	0.0000237	0.0000227	0.0000383	0.0000162	NT	0.0000183	0.0000306	0.0000215	NT	0.0000167	NT
Calcium (Ca)-Total	N/V	N/V	N/V	223	225	193	219	205	234	207	244	175	NT	184	238	208	NT	185	NT
Chromium (Cr)-Total	0.05	0.05	N/V	0.00058	<0.00050	<0.00050	0.00111	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	NT	<0.00050	0.00023	<0.00050	NT	<0.00050	NT
Cobalt (Co)-Total	N/V	0.1	N/V	0.00053	<0.00050	0.00019	0.00036	0.00031	0.00020	<0.00010	0.00010	0.00018	NT	0.00028	<0.00010	0.00013	NT	0.00034	NT
Copper (Cu)-Total	1	0.023	0.5007	0.0017	0.0022	0.00200	0.00436	0.00186	0.00189	0.00498	0.00989	0.00183	NT	0.00223	0.00305	0.00272	NT	0.00181	NT
Iron (Fe)-Total	0.3	N/V	0.17	1.64	0.777	0.277	0.872	0.239	0.054	<0.010	<0.010	0.113	NT	0.296	0.021	<0.010	NT	0.245	NT
Lead (Pb)-Total	0.01	0.01	0.0027	<0.0010	<0.0010	<0.000050	0.0335	<0.000050	<0.000050	0.000128	0.000079	0.000334	NT	0.000155	<0.000050	<0.000050	NT	0.000078	NT
Magnesium (Mg)-Total	N/V	N/V	87	92.4	92.6	86.3	86.8	79.6	88.9	86.2	90.3	70.9	NT	72.2	102	76.3	NT	66.0	NT
Manganese (Mn)-Total	0.05	N/V	0.09	0.243	0.0461	0.0346	0.113	0.0906	0.0220	<0.00050	0.00084	0.0394	NT	0.0628	0.00451	0.00089	NT	0.0744	NT
Molybdenum (Mo)-Total	N/V	7.3	N/V	<0.0010	<0.0010	0.000408	0.000340	0.000336	0.000399	0.000556	0.000658	0.000451	NT	0.000363	0.000329	0.000460	NT	0.000492	NT
Nickel (Ni)-Total	N/V	0.1	N/V	<0.0020	<0.0020	0.00065	0.00171	0.00072	0.00066	0.00055	0.00061	0.00068	NT	0.00068	0.00079	0.00054	NT	0.00069	NT
Phosphorus (P)-Total	N/V	N/V	N/V	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	NT	<0.050	0.106	<0.050	NT	<0.050	NT
Potassium (K)-Total	N/V	N/V	N/V	15	12.7	10.6	7.30	9.27	9.76	9.27	11.9	6.78	NT	9.15	7.72	9.79	NT	8.67	NT
Selenium (Se)-Total	0.01	0.01	N/V	<0.00040	<0.00040	0.000095	0.000244	0.000138	0.000177	0.000119	0.000176	0.000135	NT	0.000192	0.000146	0.000156	NT	0.000150	NT
Silicon (Si)-Total	N/V	N/V	N/V	4.1	3.6	3.46	4.50	3.93	4.04	3.48	3.96	3.30	NT	3.48	4.57	3.42	NT	3.21	NT
Silver (Ag)-Total	N/V	0.0012	N/V	<0.00010	<0.00010	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000010	NT	<0.000010	<0.000010	<0.000010	NT	<0.000010	NT
Sodium (Na)-Total	N/V	N/V	100.5	25.5	18.1	14.9	11.8	13.1	13.5	12.5	12.9	11.1	NT	11.4	15.2	11.7	NT	10.3	NT
Strontium (Sr)-Total	N/V	N/V	N/V	0.487	0.488	0.391	0.394	0.432	0.461	0.472	0.552	0.375	NT	0.401	0.448	0.517	NT	0.444	NT
Thallium (Tl)-Total	N/V	0.002	N/V	<0.00030	<0.00030	<0.000010	<0.000060	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	NT	<0.000010	<0.000010	<0.000010	NT	<0.000010	NT
Tin (Sn)-Total	N/V	N/V	N/V	<0.0010	<0.0010	<0.00010	0.00028	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	NT	<0.00010	<0.00010	<0.00010	NT	<0.00010	NT
Titanium (Ti)-Total	N/V	N/V	N/V	<0.0020	<0.0020	<0.00030	<0.010	<0.00030	<0.00030	<0.00030	<0.00030	0.00039	NT	0.00066	<0.00030	<0.00030	NT	<0.00030	NT
Tungsten (W)-Total	N/V	N/V	N/V	<0.010	<0.010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	NT	<0.00010	<0.00010	<0.00010	NT	<0.00010	NT
Uranium (U)-Total	N/V	N/V	N/V	<0.0050	<0.0050	0.000630	0.000710	0.000677	0.000809	0.000722	0.000973	0.000713	NT	0.000662	0.000909	0.000760	NT	0.000656	NT
Vanadium (V)-Total	N/V	0.2	N/V	<0.0010	<0.0010	<0.00050	0.00103	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	NT	<0.00050	<0.00050	<0.00050	NT	<0.00050	NT
Zinc (Zn)-Total	5	1.1	0.005	0.0033	0.0063	0.0031	0.0647	0.0054	0.0045	0.0055	0.0075	0.0046	NT	0.0065	0.0080	0.0045	NT	0.0046	NT
Zirconium (Zr)-Total	N/V	N/V	N/V	<0.0040	<0.0040	<0.00030	0.00058	<0.00030	<0.00030	<0.00030	<0.00030	<0.00020	NT	<0.00020	<0.00020	<0.00020	NT	<0.00020	NT
Volatile Organics	Units: µg/L			µg/L															
1,1,1,2-Tetrachloroethane	N/V	200	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,1,2,2-Tetrachloroethane	N/V	1	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,1,1-Trichloroethane	N/V	200	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,1,2-Trichloroethane	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,2-Dibromoethane	N/V	N/V	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,1-Dichloroethane	N/V	70	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,1-Dichloroethylene	14	4.1	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,2-Dichlorobenzene	200	3	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,2-Dichloroethane	5	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,2-Dichloropropane	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,3-Dichlorobenzene	N/V	630	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,4-Dichlorobenzene	5	1	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT

2-Chloroethylvinyl Ether	N/V	N/V	N/V	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
2-Hexanone	N/V	N/V	N/V	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT
Acetone	N/V	300	N/V	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT
Benzene	5	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Bromodichloromethane	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Bromoform	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Bromomethane	N/V	10	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
Carbon Disulfide	N/V	N/V	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Carbon tetrachloride	5	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Chlorobenzene	N/V	30	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Chloroethane	N/V	N/V	N/V	<1	NT	<1	NT	<1	NT	<1	NT	NT	NT	NT	NT	NT	NT	NT	NT
Chloroform	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Chloromethane	N/V	N/V	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
cis-1,2-Dichloroethylene	N/V	70	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
cis-1,3-Dichloropropene	N/V	1.4	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Dibromochloromethane	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Dichlorodifluoromethane	N/V	N/V	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
Dichloromethane	50	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	1	NT	1	NT	1	NT
Ethyl Benzene	2.4	2.4	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
m+p-Xylenes	N/V	N/V	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
Methyl Ethyl Ketone	N/V	350	N/V	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT
Methyl Isobutyl Ketone	N/V	350	N/V	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT
MTBE	N/V	700	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
o-Xylene	N/V	N/V	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Styrene	N/V	100	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Tetrachloroethylene	30	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Toluene	24	24	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
trans-1,2-Dichloroethylene	N/V	0.1	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
trans-1,3-Dichloropropene	N/V	N/V	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Trichloroethylene	50	50	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Trichlorofluoromethane	N/V	N/V	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
Trihalomethanes (total)	100	N/V	N/V	<2	NT	<2	NT	<2	NT	<2	NT	<2	NT	<2	NT	<2	NT	<2	NT
Vinyl chloride	2	1.3	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Xylenes (Total)	300	300	N/V	<1.5	NT	<1.5	NT	<1.5	NT	<1.5	NT	<1.5	NT	<1.5	NT	<1.5	NT	<1.5	NT

Notes:

OWDS - Ontario Drinking Water Standards (mg/L) from Ont. Reg. 169/03

SCS - Table 2 Site Condition Standards (mg/L) from Ont. Reg. 153/04

RUP - Reasonable Use Policy from Guideline B-7, MOEE, 1994

Values shown in **BOLD** exceed ODWS

N/V - No Value. No maximum concentration assigned.

NT - Not Tested, no analysis completed for this parameter/sample

Analyses completed at ALS Laboratoy Group in Waterloo, ON

Well ID				OW10S															
Data Sampled				30-Apr-18	25-Oct-18	22-May-19	23-Oct-19	28-Apr-20	18-May-21	13-Oct-21	14-Oct-20	04-May-22	25-Oct-22	03-May-23	19-Oct-23	25-Apr-24	22-Oct-24	29-Apr-25	16-Oct-25
Parameter	ODWS	SCS	RUP																
Color, Apparent (C.U.)	5	N/V	N/V	46.9	18.6	60.3	39	26.2	9.7	30.3	38.1	24.5	99.2	2110.0	909.0	3120.0	2460.0	1780.0	3130.0
Conductivity (umhos/cm)	N/V	N/V	N/V	575	1054	468	1050	499	674	555	631	477	1010	379	749	496	499	510	740
Hardness (as CaCO3 - mg/L)	80-100	N/V	N/V	310	560	264	578	271	382	354	353	NT	NT	226	443	291	397	305	433
pH (pH units)	6.5-8.5	N/V	8.2	8.07	7.04	7.56	7.5	7.81	7.43	7.80	7.31	7.97	7.58	8.15	7.69	7.95	7.90	7.85	7.43
Total Dissolved Solids (mg/L)	N/V	N/V	394	323	659	304	648	261	374	369	317	262	586	212	456	282	472	327	549
Turbidity (NTU)	1	N/V	N/V	467	1780	455	1670	2510	847	559	317	784	486	1400	494	1520	868	450	990
Alkalinity, Total (mg/L)	30-500	N/V	391.5	332	500	269	575	279	381	337	357	275	523	335	453	297	494	322	440
Ammonia as N (mg/L)	N/V	N/V	N/V	0.051	2.88	0.017	2.9	0.03	0.026	0.030	0.016	0.020	2.780	0.024	0.537	0.0859	0.434	0.0296	0.642
Chloride (mg/L)	250	250	125.5	1.7	31.1	1.29	29	1.36	<0.5	1.03	0.57	1.03	24.10	1.26	10.40	2.09	7.24	1.70	8.85
Fluoride (mg/L)	1.5	N/V	0.45	0.04	0.054	0.057	0.06	0.054	0.054	0.046	0.050	0.050	<0.01	0.070	0.053	0.054	<0.100	0.058	0.055
Nitrite-N (mg/L)	1	1	0.3	<0.01	<0.01	<0.02	<0.02	<0.02	<0.02	<0.020	<0.020	<0.020	<0.020	<0.020	0.032	<0.020	<0.100	<0.020	0.06
Nitrate-N (mg/L)	10	10	2.6	0.022	<0.02	<0.01	<0.01	<0.01	<0.01	<0.010	<0.010	<0.010	<0.010	0.032	0.037	<0.010	0.051	<0.010	0.024
Phosphate-P (ortho)	N/V	N/V	N/V	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	<0.0010	0.0011	<0.0010	<0.001
Sulphate (mg/L)	500	N/V	253.9	2.96	48.4	1.47	33.6	2.41	1.44	<0.30	4.50	1.06	25.50	8.71	13.50	10.3	10.2	7.52	13.3
Metal Scan-Total	Units: mg/L			mg/L															
Aluminum (Al)-Total	N/V	N/V	0.0525	<0.010	0.01	<0.0050	0.0143	0.0380	<0.0050	<0.0050	<0.0050	0.267	0.0136	0.0433	0.0084	0.0045	0.0018	0.0159	0.0060
Antimony (Sb)-Total	N/V	0.006	N/V	<0.0050	<0.0050	<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	<0.00010
Arsenic (As)-Total	0.025	0.025	N/V	<0.0010	<0.0010	0.00046	0.00141	0.00038	0.00115	0.00064	0.00028	0.00126	0.00105	0.00015	0.00063	0.00016	0.00043	0.00027	0.00058
Barium (Ba)-Total	1	1	N/V	0.028	0.099	0.0134	0.133	0.0280	0.0289	0.0215	0.0335	0.0218	0.0865	0.0287	0.0481	0.0246	0.0398	0.0229	0.0468
Beryllium (Be)-Total	N/V	0.004	N/V	<0.0010	<0.0010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
Bismuth (Bi)-Total	N/V	N/V	N/V	<0.0010	<0.0010	<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	<0.000050
Boron (B)-Total	5	5	2.5025	<0.050	0.321	<0.010	0.298	0.020	0.016	0.013	0.025	0.013	0.288	0.024	0.138	0.035	0.087	0.018	0.126
Cadmium (Cd)-Total	0.005	0.005	N/V	<0.000090	<0.000090	<0.000050	0.0000102	<0.000050	<0.000050	0.0000119	0.0000248	0.0000190	0.0000084	0.0000200	0.0000085	0.0000054	<0.000050	0.0000056	<0.000050
Calcium (Ca)-Total	N/V	N/V	N/V	77.7	131	65.1	138	66.6	95.1	87.6	88.7	72.5	141	54.7	108	71.7	95.4	73.7	107
Chromium (Cr)-Total	0.05	0.05	N/V	<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	<0.00050	<0.00050	<0.00050
Cobalt (Co)-Total	N/V	0.1	N/V	<0.00050	0.00216	0.00027	0.00257	0.00040	0.00045	0.00034	0.00025	0.00044	0.00188	0.00020	0.00076	0.00026	0.00069	0.00024	0.00073
Copper (Cu)-Total	1	0.023	0.5007	<0.0010	<0.0010	<0.00020	0.00052	0.00025	0.00024	0.00048	0.00097	0.00119	0.00063	0.00141	0.00062	0.00064	<0.00020	0.00053	0.00032
Iron (Fe)-Total	0.3	N/V	0.17	0.446	0.671	0.173	0.739	0.176	0.873	0.719	0.026	1.11	0.533	0.046	0.260	0.035	0.270	0.060	0.325
Lead (Pb)-Total	0.01	0.01	0.0027	<0.0010	0.0026	0.000050	0.00206	0.000191	0.000106	0.000080	0.000137	0.00120	0.00129	0.000261	0.000859	0.000286	0.000413	0.000156	0.000775
Magnesium (Mg)-Total	N/V	N/V	87	28	56.5	24.6	56.4	25.4	35.2	32.9	31.9	28.4	55.7	21.6	42.2	27.1	38.5	29.4	40.2
Manganese (Mn)-Total	0.05	N/V	0.09	0.237	0.853	0.123	0.878	0.259	0.238	0.164	0.149	0.185	0.654	0.144	0.311	0.312	0.272	0.335	0.273
Molybdenum (Mo)-Total	N/V	7.3	N/V	<0.0010	<0.0010	0.000242	0.000413	0.000347	0.000324	0.000239	0.000348	0.000310	0.000324	0.000398	0.000430	0.000590	0.000504	0.000538	0.000516
Nickel (Ni)-Total	N/V	0.1	N/V	<0.0020	0.0085	0.00065	0.00961	0.00130	0.00117	0.00109	0.00137	0.00125	0.00797	0.00116	0.00352	0.00134	0.00289	0.00130	0.00350
Phosphorus (P)-Total	N/V	N/V	N/V	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Potassium (K)-Total	N/V	N/V	N/V	<1.0	4	0.250	5.32	0.562	0.429	0.319	0.634	0.426	4.09	0.650	2.04	0.863	1.71	0.589	2.05
Selenium (Se)-Total	0.01	0.01	N/V	<0.00040	<0.00040	0.000065	0.000114	0.000119	0.000837	0.000720	0.000129	0.000187	0.000107	0.000118	0.000060	0.000056	0.000053	0.000056	0.000262
Silicon (Si)-Total	N/V	N/V	N/V	2.3	5.2	2.08	5.30	2.37	3.46	2.96	3.58	2.84	5.42	1.95	4.00	2.34	3.87	2.54	4.04
Silver (Ag)-Total	N/V	0.0012	N/V	<0.00010	<0.00010	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Sodium (Na)-Total</																			

2-Chloroethylvinyl Ether	N/V	N/V	N/V	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
2-Hexanone	N/V	N/V	N/V	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT
Acetone	N/V	300	N/V	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT
Benzene	5	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Bromodichloromethane	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Bromoform	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Bromomethane	N/V	10	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
Carbon Disulfide	N/V	N/V	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Carbon tetrachloride	5	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Chlorobenzene	N/V	30	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Chloroethane	N/V	N/V	N/V	<1	NT	<1	NT	<1	NT	<1	NT	NT	NT	NT	NT	NT	NT	NT	NT
Chloroform	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Chloromethane	N/V	N/V	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
cis-1,2-Dichloroethylene	N/V	70	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
cis-1,3-Dichloropropene	N/V	1.4	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Dibromochloromethane	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Dichlorodifluoromethane	N/V	N/V	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
Dichloromethane	50	5	N/V	2.4	NT	2.4	NT	<2	NT	<2	NT	<2	NT	1.1	NT	1.1	NT	<0.5	NT
Ethyl Benzene	2.4	2.4	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
m+p-Xylenes	N/V	N/V	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
Methyl Ethyl Ketone	N/V	350	N/V	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT
Methyl Isobutyl Ketone	N/V	350	N/V	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT
MTBE	N/V	700	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
o-Xylene	N/V	N/V	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Styrene	N/V	100	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Tetrachloroethylene	30	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Toluene	24	24	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
trans-1,2-Dichloroethylene	N/V	0.1	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
trans-1,3-Dichloropropene	N/V	N/V	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Trichloroethylene	50	50	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Trichlorofluoromethane	N/V	N/V	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
Trihalomethanes (total)	100	N/V	N/V	<2	NT	<2	NT	<2	NT	<2	NT	<2	NT	<2	NT	<2	NT	<2	NT
Vinyl chloride	2	1.3	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Xylenes (Total)	300	300	N/V	<1.5	NT	<1.5	NT	<1.5	NT	<1.5	NT	<1.5	NT	<1.5	NT	<1.5	NT	<1.5	NT

Notes:

OWDS - Ontario Drinking Water Standards (mg/L) from Ont. Reg. 169/03

SCS - Table 2 Site Condition Standards (mg/L) from Ont. Reg. 153/04

RUP - Reasonable Use Policy from Guideline B-7, MOEE, 1994

Values shown in **BOLD** exceed ODWS

N/V - No Value. No maximum concentration assigned.

NT - Not Tested, no analysis completed for this parameter/sample

Well ID				OW10D															
Data Sampled				30-Apr-18	25-Oct-18	22-May-19	23-Oct-19	28-Apr-20	14-Oct-20	18-May-21	13-Oct-21	04-May-22	25-Oct-22	03-May-23	19-Oct-23	25-Apr-24	22-Oct-24	29-Apr-25	16-Oct-25
Parameter	ODWS	SCS	RUP																
Color, Apparent (C.U.)	5	N/V	N/V	8.9	33.3	20.7	21.1	5.9	29.7	3.6	5.4	2.4	23.4	99.8	156.0	43.7	252.0	1920.0	246.0
Conductivity (umhos/cm)	N/V	N/V	N/V	621	1291	468	1400	680	671	609	715	585	1290	526	1210	655	1140	613	1230
Hardness (as CaCO3 - mg/L)	80-100	N/V	N/V	325	616	342	622	336	360	373	373	NT	NT	299	648	371	581	320	622
pH (pH units)	6.5-8.5	N/V	8.2	8.03	6.98	7.57	7.34	7.67	7.53	7.88	7.34	7.86	7.72	8.02	7.70	7.88	7.91	7.60	7.22
Total Dissolved Solids (mg/L)	N/V	N/V	394	320	758	349	801	342	370	363	356	304	656	304	645	320	680	405	674
Turbidity (NTU)	1	N/V	N/V	27.3	72.8	38.4	88	113	25.1	18.0	44.1	11.6	73.9	30.6	59.8	92.0	88.2	512.0	66.2
Alkalinity, Total (mg/L)	30-500	N/V	391.5	337	589	267	725	338	357	381	387	333	638	293	642	354	566	389	640
Ammonia as N (mg/L)	N/V	N/V	N/V	0.534	8.19	1.16	11.8	27	1.29	0.595	0.980	0.454	12.000	1.340	10.000	1.33	11.8	4.77	11.5
Chloride (mg/L)	250	250	125.5	4.09	9.51	6.9	51.6	6.53	5.81	3.61	5.60	3.30	39.90	4.98	32.10	7.07	30.9	6.25	29.00
Fluoride (mg/L)	1.5	N/V	0.45	0.047	<0.02	<0.1	<0.1	0.057	0.048	0.039	0.046	0.045	<0.01	0.052	<0.01	0.037	<0.100	0.068	<0.100
Nitrite-N (mg/L)	1	1	0.3	<0.01	<0.01	<0.1	<0.1	<0.1	<0.1	0.050	<0.020	0.088	<0.020	0.030	<0.020	<0.020	<0.100	0.04	<0.100
Nitrate-N (mg/L)	10	10	2.6	<0.02	0.024	<0.05	<0.05	<0.05	<0.05	0.013	<0.010	0.091	<0.010	0.054	<0.010	<0.010	<0.050	0.021	<0.050
Phosphate-P (ortho)	N/V	N/V	N/V	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	<0.0010	<0.0010	<0.0010	<0.0010
Sulphate (mg/L)	500	N/V	253.9	48.4	17.2	9.7	78.5	15.7	8.79	6.41	8.45	6.78	52.00	8.20	38.70	9.96	33.0	9.08	39.3
Metal Scan-Total	Units: mg/L			mg/L															
Aluminum (Al)-Total	N/V	N/V	0.0525	<0.010	<0.010	<0.0050	0.0304	<0.0050	<0.0050	<0.0050	<0.0050	0.0105	0.0052	0.0082	0.0023	0.0016	0.0018	0.0136	0.0021
Antimony (Sb)-Total	N/V	0.006	N/V	<0.0050	<0.0050	<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	<0.00010
Arsenic (As)-Total	0.025	0.025	N/V	<0.0010	0.0034	0.00018	0.00478	0.00022	0.00028	0.00015	0.00019	0.00015	0.00495	0.00015	0.00418	0.00021	0.00357	0.00013	0.00464
Barium (Ba)-Total	1	1	N/V	0.055	0.201	0.116	0.224	0.111	0.136	0.105	0.104	0.0847	0.230	0.0976	0.209	0.0808	0.238	0.0855	0.228
Beryllium (Be)-Total	N/V	0.004	N/V	<0.0010	<0.0010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
Bismuth (Bi)-Total	N/V	N/V	N/V	<0.0010	<0.0010	<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	<0.000050
Boron (B)-Total	5	5	2.5025	<0.050	0.483	0.071	0.439	0.073	0.074	0.044	0.071	0.038	0.542	0.066	0.483	0.133	0.445	0.055	0.510
Cadmium (Cd)-Total	0.005	0.005	N/V	<0.000090	<0.000090	0.0000344	0.0000311	0.0000277	0.0000176	0.0000957	0.0000692	0.0000718	0.0000175	0.0000670	0.0000080	0.0000265	0.0000165	0.0000191	0.000052
Calcium (Ca)-Total	N/V	N/V	N/V	79.8	141	81.8	141	82.4	87.0	89.5	91.1	76.1	147	71.4	148	89.7	132	76.1	146
Chromium (Cr)-Total	0.05	0.05	N/V	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	0.00056	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Cobalt (Co)-Total	N/V	0.1	N/V	0.00066	0.00623	0.00124	0.00632	0.00123	0.00138	0.00077	0.00124	0.00065	0.00747	0.00085	0.00618	0.00105	0.00673	0.00078	0.00644
Copper (Cu)-Total	1	0.023	0.5007	<0.0010	<0.0010	0.00294	0.00037	0.00096	0.00621	0.00353	0.00713	0.00191	0.00127	0.00410	0.00056	0.00090	0.00104	0.00134	0.00055
Iron (Fe)-Total	0.3	N/V	0.17	<0.050	3.08	0.048	3.68	0.067	0.088	0.012	0.044	0.028	4.15	0.025	3.39	0.031	3.72	0.040	4.10
Lead (Pb)-Total	0.01	0.01	0.0027	<0.0010	<0.0010	0.000300	0.000455	0.000334	0.000179	0.000441	0.000357	0.000868	0.000775	0.000454	0.000622	0.000342	0.000470	0.000251	0.000571
Magnesium (Mg)-Total	N/V	N/V	87	30.6	64.3	33.4	65.4	31.6	34.6	36.4	35.2	31.9	66.6	29.4	67.7	35.8	61.1	31.7	62.5
Manganese (Mn)-Total	0.05	N/V	0.09	0.578	1.13	0.921	1.14	0.925	1.04	0.711	0.841	0.562	1.24	0.749	1.19	0.709	1.17	0.682	1.08
Molybdenum (Mo)-Total	N/V	7.3	N/V	<0.0010	<0.0010	0.000798	0.000725	0.000968	0.000916	0.000743	0.000692	0.000672	0.000631	0.000707	0.000587	0.000682	0.000653	0.000742	0.000613
Nickel (Ni)-Total	N/V	0.1	N/V	0.0039	0.0173	0.00550	0.0176	0.00562	0.00677	0.00479	0.00601	0.00380	0.0209	0.00471	0.0159	0.00423	0.0183	0.00402	0.0178
Phosphorus (P)-Total	N/V	N/V	N/V	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Potassium (K)-Total	N/V	N/V	N/V	1.3	8.3	1.81	9.37	2.19	2.01	1.37	1.83	1.21	11.0	2.03	9.13	2.87	9.45	1.80	10.5
Selenium (Se)-Total	0.01	0.01	N/V	<0.00040	<0.00040	<0.000050	0.000127	0.000063	0.000127	0.000084	0.000058	0.000059	0.000094	0.000068	0.000094	0.000082	0.000087	0.000100	0.000395
Silicon (Si)-Total	N/V	N/V	N/V	3.6	6.8	3.62	7.07	3.76	3.67	3.82	4.17	3.42	7.40	3.21	6.92	3.40	6.93	3.29	7.00
Silver (Ag)-Total	N/V	0.0012	N/V	<0.00010	<0.00010	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.00	

2-Chloroethylvinyl Ether	N/V	N/V	N/V	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
2-Hexanone	N/V	N/V	N/V	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT
Acetone	N/V	300	N/V	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT
Benzene	5	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Bromodichloromethane	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Bromoform	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Bromomethane	N/V	10	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
Carbon Disulfide	N/V	N/V	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Carbon tetrachloride	5	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Chlorobenzene	N/V	30	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Chloroethane	N/V	N/V	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	NT	NT	NT	NT	NT	NT	NT	NT
Chloroform	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Chloromethane	N/V	N/V	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
cis-1,2-Dichloroethylene	N/V	70	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
cis-1,3-Dichloropropene	N/V	1.4	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Dibromochloromethane	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Dichlorodifluoromethane	N/V	N/V	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
Dichloromethane	50	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	1	NT	1	NT	1	NT
Ethyl Benzene	2.4	2.4	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
m-p-Xylenes	N/V	N/V	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
Methyl Ethyl Ketone	N/V	350	N/V	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT
Methyl Isobutyl Ketone	N/V	350	N/V	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT
MTBE	N/V	700	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
o-Xylene	N/V	N/V	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Styrene	N/V	100	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Tetrachloroethylene	30	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Toluene	24	24	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
trans-1,2-Dichloroethylene	N/V	0.1	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
trans-1,3-Dichloropropene	N/V	N/V	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Trichloroethylene	50	50	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Trichlorofluoromethane	N/V	N/V	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
Trihalomethanes (total)	100	N/V	N/V	<2	NT	<2	NT	<2	NT	<2	NT	<2	NT	<2	NT	<2	NT	<2	NT
Vinyl chloride	2	1.3	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Xylenes (Total)	300	300	N/V	<1.5	NT	<1.5	NT	<1.5	NT	<1.5	NT	<1.5	NT	<1.5	NT	<1.5	NT	<1.5	NT

Well ID				OW12S															
Data Sampled				30-Apr-18	25-Oct-18	22-May-19	23-Oct-19	28-Apr-20	14-Oct-20	18-May-21	13-Oct-21	04-May-22	25-Oct-22	03-May-23	19-Oct-23	25-Apr-24	22-Oct-24	29-Apr-25	16-Oct-25
Color, Apparent (C.U.)	5	N/V	N/V	558	87.6	42.2	51.8	51.4	32.3	92.0	53.5	32.4	NT	607.0	NT	298.0	1470	927.0	NT
Conductivity (umhos/cm)	N/V	N/V	N/V	413	702	482	1250	531	694	549	648	531	NT	572	NT	583	767	461	NT
Hardness (as CaCO3 - mg/L)	80-100	N/V	N/V	212	444	265	635	286	387	330	359	NT	NT	299	NT	394	489	275	NT
pH (pH units)	6.5-8.5	N/V	8.2	8.14	7.47	7.52	7.46	7.72	7.42	7.91	7.33	8.04	NT	8.25	NT	7.93	7.5	7.99	NT
Total Dissolved Solids (mg/L)	N/V	N/V	394	280	606	356	770	308	417	338	322	289	NT	334	NT	338	505	309	NT
Turbidity (NTU)	1	N/V	N/V	>4000	>4000	3330	>4000	>4000	3290	1660	852	2280	NT	439	NT	597	473	368	NT
Alkalinity, Total (mg/L)	30-500	N/V	391.5	196	351	250	676	278	369	300	353	291	NT	291	NT	238	386	245	NT
Ammonia as N (mg/L)	N/V	N/V	N/V	0.04	0.593	0.022	2.32	0.025	<0.01	0.033	0.033	0.012	NT	<0.005	NT	<0.0050	0.613	0.0123	NT
Chloride (mg/L)	250	250	125.5	11.7	16	8.74	48.4	5.92	5.86	6.11	4.85	4.78	NT	6.18	NT	9.36	11.2	6.82	NT
Fluoride (mg/L)	1.5	N/V	0.45	0.052	0.041	0.046	<0.1	0.051	0.049	0.047	0.036	0.044	NT	0.058	NT	0.038	0.049	0.068	NT
Nitrite-N (mg/L)	1	1	0.3	<0.01	<0.01	0.792	0.13	0.191	0.053	0.933	<0.020	0.140	NT	<0.01	NT	10.1	0.061	0.06	NT
Nitrate-N (mg/L)	10	10	2.6	1.43	0.153	0.01	<0.05	<0.01	<0.01	0.013	<0.010	0.044	NT	0.352	NT	<0.010	<0.010	<0.010	NT
Phosphate-P (ortho)	N/V	N/V	N/V	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.0030	<0.0030	<0.0030	NT	<0.0030	NT	0.0013	0.0026	<0.001	NT
Sulphate (mg/L)	500	N/V	253.9	6.79	32.9	13.3	31.2	10.4	8.55	8.56	4.52	6.37	NT	37.60	NT	24.9	14.3	9.96	NT
Metal Scan-Total	Units: mg/L			mg/L															
Aluminum (Al)-Total	N/V	N/V	0.0525	<0.01	<0.010	<0.010	<0.010	0.130	0.0051	0.0083	<0.0050	<0.0050	0.0056	0.0213	NT	0.532	0.175	0.0184	NT
Antimony (Sb)-Total	N/V	0.006	N/V	<0.0050	<0.0050	<0.0050	<0.0050	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	NT	<0.00010	<0.00010	<0.00010	NT
Arsenic (As)-Total	0.025	0.025	N/V	<0.0010	<0.0010	<0.0010	<0.0010	0.00018	0.00037	0.00016	0.00027	0.00016	0.00052	0.00016	NT	0.00042	0.00061	0.00023	NT
Barium (Ba)-Total	1	1	N/V	0.012	0.020	<0.010	0.03	0.0114	0.0654	0.0112	0.0185	0.0127	0.0193	0.0151	NT	0.0179	0.0283	0.0120	NT
Beryllium (Be)-Total	N/V	0.004	N/V	<0.0010	<0.0010	<0.0010	<0.0010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.000020	NT	0.000036	0.000026	<0.000020	NT
Bismuth (Bi)-Total	N/V	N/V	N/V	<0.0010	<0.0010	<0.0010	<0.0010	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	NT	<0.000050	<0.000050	<0.000050	NT
Boron (B)-Total	5	5	2.5025	<0.050	0.052	<0.050	0.162	0.037	0.390	0.037	0.057	0.039	0.065	0.051	NT	0.067	0.137	0.037	NT
Cadmium (Cd)-Total	0.005	0.005	N/V	<0.000090	<0.000090	<0.000090	<0.000090	0.0000304	0.000141	0.0000224	0.0000436	0.0000204	0.0000238	0.0000234	NT	0.0000663	0.000142	0.0000373	NT
Calcium (Ca)-Total	N/V	N/V	N/V	68.0	92.4	54.9	117	66.1	159	73.9	98.7	83.5	94.0	76.5	NT	95.8	124	71.1	NT
Chromium (Cr)-Total	0.05	0.05	N/V	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	NT	0.00074	0.00056	<0.00050	NT
Cobalt (Co)-Total	N/V	0.1	N/V	<0.00050	<0.00050	<0.00050	0.00063	<0.00010	0.00068	<0.00010	<0.00010	<0.00010	0.00033	<0.00010	NT	0.00027	0.00060	<0.00010	NT
Copper (Cu)-Total	1	0.023	0.5007	0.0011	0.0011	0.0041	0.0012	0.00166	0.00297	0.00084	0.00173	0.00082	0.00068	0.00142	NT	0.00268	0.00249	0.00117	NT
Iron (Fe)-Total	0.3	N/V	0.17	<0.050	<0.050	<0.050	0.177	0.088	0.051	0.011	0.016	<0.010	0.078	0.018	NT	0.452	0.282	0.019	NT
Lead (Pb)-Total	0.01	0.01	0.0027	<0.0010	<0.0010	<0.0010	0.0011	0.000679	0.00297	0.000156	0.000307	0.000104	0.000671	0.000368	NT	0.00720	0.00540	0.000175	NT
Magnesium (Mg)-Total	N/V	N/V	87	25.3	29.2	18.2	36.5	24.3	57.8	24.8	34.1	29.5	30.2	26.2	NT	37.7	43.6	23.7	NT
Manganese (Mn)-Total	0.05	N/V	0.09	0.0012	0.0618	<0.0010	0.454	0.0113	0.567	0.00248	0.0537	0.00843	0.152	0.00439	NT	0.0444	0.518	0.0268	NT
Molybdenum (Mo)-Total	N/V	7.3	N/V	<0.0010	<0.0010	<0.0010	<0.0010	0.000101	0.000435	0.000097	0.000131	0.000076	0.000113	0.000148	NT	0.000227	0.000344	0.000153	NT
Nickel (Ni)-Total	N/V	0.1	N/V	<0.0020	<0.0020	<0.0020	0.005	0.00053	0.00825	<0.00050	0.00127	0.00051	0.00099	0.00063	NT	0.00106	0.00557	0.00060	NT
Phosphorus (P)-Total	N/V	N/V	N/V	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	NT	<0.050	<0.050	<0.050	NT
Potassium (K)-Total	N/V	N/V	N/V	<1.0	<1.0	<1.0	1.6	0.867	2.54	0.840	0.968	0.859	1.17	1.32	NT	1.42	1.52	0.860	NT
Selenium (Se)-Total	0.01	0.01	N/V	<0.00040	<0.00040	<0.00040	<0.00040	0.000087	0.000227	0.000101	0.000200	0.000087	0.000145	0.000099	NT	0.000121	0.000212	0.000123	NT
Silicon (Si)-Total	N/V	N/V	N/V	1.6	2.5	1.4	3.6	1.97	4.70	1.95	2.61	2.21	2.98	1.82	NT	2.81	3.82	1.96	NT
Silver (Ag)-Total	N/V	0.0012	N/V	<0.00010	<0.00010	<0.00010	<0.00010	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000010	NT	<0.000010	<0.000010	<0.000010	NT
Sodium (Na)-Total	N/V	N/V	100.5	4.35	5.96	2.55	16.4	3.65	35.8	4.11	5.78	3.78	5.35	4.54	NT	3.92	11.3	3.01	NT
Strontium (Sr)-Total	N/V	N/V	N/V	0.0645	0.0896	0.0526	0.125	0.0666	0.200	0.0761	0.105	0.0856	0.101	0.0960	NT	0.104	0.139	0.0807	NT
Thallium (Tl)-Total	N/V	0.002	N/V	<0.00030	<0.00030	<0.00030	<0.00030	0.000018	0.000193	0.000020	0.000018	0.000011	0.000038	0.000017	NT	0.000029	0.000103	0.000016	NT
Tin (Sn)-Total	N/V	N/V	N/V	<0.0010	<0.0010	<0.0010	<0.0010	<0.00010	0.00016	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	NT	<0.00010	<0.00010	0.00017	NT
Titanium (Ti)-Total	N/V	N/V	N/V	<0.0020	<0.0020	<0.0020	<0.0020	0.00441	<0.00030	0.00030	<0.00030	<0.00030	<0.00030	<0.00090	NT	0.0154	0.00378	0.00152	NT
Tungsten (W)-Total	N/V	N/V	N/V	<0.010	<0.010	<0.010	<0.010	<0.00010	0.00015	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	NT	<0.00010	<0.00010	<0.00010	NT
Uranium (U)-Total	N/V	N/V	N/V	<0.0050	<0.0050	<0.0050	<0.0050	0.000385	0.00335	0.000494	0.000949	0.000438	0.000547	0.000548	NT	0.00115	0.00344	0.000567	NT
Vanadium (V)-Total	N/V	0.2	N/V	<0.0010	<0.0010	<0.0010	<0.0010	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	NT	0.00115	0.00090	<0.00050	NT
Zinc (Zn)-Total	5	1.1	0.005	0.0047	0.0035	<0.0030	0.0116	0.0043	0.0249	0.0032	0.0045	0.0020	0.0042	0.0039	NT	0.0120	0.0303	0.0050	NT
Zirconium (Zr)-Total	N/V	N/V	N/V	<0.0040	<0.0040	<0.0040	<0.0040	<0.00030	0.00052	<0.00030	<0.00030	<0.00030	<0.00030	<0.00020	NT	0.00068	0.00092	<0.00020	NT
Volatile Organics	Units: µg/L			µg/L															
1,1,1,2-Tetrachloroethane	N/V	200	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,1,2,2-Tetrachloroethane	N/V	1	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,1,1-Trichloroethane	N/V	200	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,1,2-Trichloroethane	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,2-Dibromoethane	N/V	N/V	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,1-Dichloroethane	N/V	70	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,1-Dichloroethylene	14	4.1	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,2-Dichlorobenzene	200	3	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,2-Dichloroethane	5	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,2-Dichloropropane	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,3-Dichlorobenzene	N/V	630	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,4-Dichlorobenzene	5	1	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT

2-Chloroethylvinyl Ether	N/V	N/V	N/V	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
2-Hexanone	N/V	N/V	N/V	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20
Acetone	N/V	300	N/V	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20
Benzene	5	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5
Bromodichloromethane	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5
Bromoform	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5
Bromomethane	N/V	10	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1
Carbon Disulfide	N/V	N/V	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5
Carbon tetrachloride	5	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5
Chlorobenzene	N/V	30	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5
Chloroethane	N/V	N/V	N/V	<1	NT	<1	NT	<1	NT	<1	NT	NT	NT	NT	NT	NT	NT	NT
Chloroform	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5
Chloromethane	N/V	N/V	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1
cis-1,2-Dichloroethylene	N/V	70	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5
cis-1,3-Dichloropropene	N/V	1.4	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5
Dibromochloromethane	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5
Dichlorodifluoromethane	N/V	N/V	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1
Dichloromethane	50	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	1.2	NT	1.2	NT	1.2
Ethyl Benzene	2.4	2.4	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5
m+p-Xylenes	N/V	N/V	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1
Methyl Ethyl Ketone	N/V	350	N/V	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20
Methyl Isobutyl Ketone	N/V	350	N/V	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20
MTBE	N/V	700	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5
o-Xylene	N/V	N/V	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5
Styrene	N/V	100	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5
Tetrachloroethylene	30	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5
Toluene	24	24	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5
trans-1,2-Dichloroethylene	N/V	0.1	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5
trans-1,3-Dichloropropene	N/V	N/V	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5
Trichloroethylene	50	50	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5
Trichlorofluoromethane	N/V	N/V	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1
Trihalomethanes (total)	100	N/V	N/V	<2	NT	<2	NT	<2	NT	<2	NT	<2	NT	<2	NT	<2	NT	<2
Vinyl chloride	2	1.3	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5
Xylenes (Total)	300	300	N/V	<1.5	NT	<1.5	NT	<1.5	NT	<1.5	NT	<1.5	NT	<1.5	NT	<1.5	NT	<1.5

Notes:

OWDS - Ontario Drinking Water Standards (mg/L) from Ont. Reg. 169/03

SCS - Table 2 Site Condition Standards (mg/L) from Ont. Reg. 153/04

RUP - Reasonable Use Policy from Guideline B-7, MOEE, 1994

Values shown in **BOLD** exceed ODWS

N/V - No Value. No maximum concentration assigned.

NT - Not Tested, no analysis completed for this parameter/sample

Analyses completed at ALS Laboratoy Group in Waterloo, ON

Well ID				OW12D																															
Data Sampled				30-Apr-18		25-Oct-18		22-May-19		23-Oct-19		28-Apr-20		14-Oct-20		18-May-21		13-Oct-21		04-May-22		25-Oct-22		03-May-23		19-Oct-23		25-Apr-24		22-Oct-24		29-Apr-25		16-Oct-25	
Parameter	ODWS	SCS	RUP																																
Color, Apparent (C.U.)	5	N/V	N/V	9.4	9.7	9.1	5.9	7.9	5.8	3.5	6.6	4.2	16.6	57.1	56.6	37.8	72.9	65.3	63.4																
Conductivity (umhos/cm)	N/V	N/V	N/V	402	1267	622	1190	683	772	593	709	598	1030	578	888	677	886	580	915																
Hardness (as CaCO3 - mg/L)	80-100	N/V	N/V	201	648	344	606	353	406	347	386	NT	NT	285	442	348	428	321	468																
pH (pH units)	6.5-8.5	N/V	8.2	8.14	7.21	7.56	7.31	7.7	7.45	8.13	7.35	8.09	7.91	8.23	7.82	7.88	7.72	8.08	7.34																
Total Dissolved Solids (mg/L)	N/V	N/V	394	226	785	362	709	365	440	361	371	320	521	328	496	387	501	348	542																
Turbidity (NTU)	1	N/V	N/V	2.58	15.6	7.72	16	18.4	28.3	5.92	7.54	5.27	16.50	8.28	10.20	12.40	14.10	14.50	12.30																
Alkalinity, Total (mg/L)	30-500	N/V	391.5	188	570	291	607	306	385	324	357	316	530	287	473	293	413	287	470																
Ammonia as N (mg/L)	N/V	N/V	N/V	0.045	0.484	<0.01	0.447	0.016	0.019	0.014	0.097	<0.005	0.828	0.008	0.826	<0.0050	0.564	<0.0050	0.977																
Chloride (mg/L)	250	250	125.5	12	12.4	12.6	46.5	9.01	8.28	5.73	10.3	5.23	21.4	6.59	20.1	16.1	19.5	8.96	19.20																
Fluoride (mg/L)	1.5	N/V	0.45	0.05	<0.02	<0.1	<0.1	0.048	0.044	0.032	0.033	0.038	<0.1	0.050	0.046	0.034	0.045	0.049	0.046																
Nitrite-N (mg/L)	1	1	0.3	<0.01	<0.01	2.57	1.54	0.34	0.388	0.789	1.14	<0.01	<0.05	<0.01	0.04	8.18	1.66	0.97	0.07																
Nitrate-N (mg/L)	10	10	2.6	1.47	<0.02	<0.05	0.131	0.021	0.149	0.012	0.016	0.238	<0.1	0.460	0.135	<0.010	0.178	<0.010	<0.01																
Phosphate-P (ortho)	N/V	N/V	N/V	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	<0.0010	0.0013	<0.0010	0.0014																
Sulphate (mg/L)	500	N/V	253.9	6.65	7.03	30.4	35	36.3	23.1	21.0	14.2	20.4	29.7	37.9	28.9	25.9	30.3	27.6	32.3																
Metal Scan-Total	Units: mg/L			mg/L																															
Aluminum (Al)-Total	N/V	N/V	0.0525	<0.010	<0.010	0.0088	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0137	0.0105	0.0024	0.0067	0.101	0.0150	0.0011	0.0014																
Antimony (Sb)-Total	N/V	0.006	N/V	<0.0050	<0.0050	<0.00010	0.00012	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	0.00010	0.00012	<0.00010	0.00010																
Arsenic (As)-Total	0.025	0.025	N/V	<0.0010	<0.0010	0.00015	0.00027	0.00014	0.00019	0.00013	0.00030	0.00016	0.00042	0.00018	0.00037	0.00026	0.00035	0.00014	0.00048																
Barium (Ba)-Total	1	1	N/V	<0.010	0.057	0.0157	0.0650	0.0177	0.0348	0.0152	0.0309	0.0144	0.0397	0.0158	0.0422	0.0167	0.0372	0.0169	0.0448																
Beryllium (Be)-Total	N/V	0.004	N/V	<0.0010	<0.0010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020																
Bismuth (Bi)-Total	N/V	N/V	N/V	<0.0010	<0.0010	<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	<0.000050																
Boron (B)-Total	5	5	2.5025	<0.050	0.436	0.093	0.386	0.092	0.162	0.077	0.171	0.058	0.284	0.055	0.251	0.076	0.184	0.063	0.269																
Cadmium (Cd)-Total	0.005	0.005	N/V	<0.000090	<0.000090	0.0000914	0.000177	0.0000593	0.000111	0.0000488	0.000102	0.0000320	0.0000708	0.0000386	0.0000845	0.0000717	0.000399	0.0000327	0.000270																
Calcium (Ca)-Total	N/V	N/V	N/V	50.8	162	87.8	151	93.4	109	91.4	101	82.3	127	74.2	109	89.5	109	83.9	121																
Chromium (Cr)-Total	0.05	0.05	N/V	<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	<0.00050	<0.00050	<0.00050																
Cobalt (Co)-Total	N/V	0.1	N/V	<0.00050	0.00105	<0.00010	0.00046	<0.00010	<0.00010	<0.00010	0.00024	<0.00010	0.00041	<0.00010	0.00033	0.00010	0.00030	<0.00010	0.00037																
Copper (Cu)-Total	1	0.023	0.5007	<0.0010	<0.0010	0.00898	0.00272	0.00201	0.00178	0.00132	0.00119	0.00127	0.00180	0.00192	0.00115	0.00208	0.00162	0.00141	0.00099																
Iron (Fe)-Total	0.3	N/V	0.17	<0.050	0.141	0.042	<0.010	0.018	0.022	<0.010	<0.010	0.018	0.058	<0.010	0.033	0.110	0.050	<0.010	0.020																
Lead (Pb)-Total	0.01	0.01	0.0027	<0.0010	0.001	0.000354	0.000880	0.000154	0.000416	0.000070	0.000701	0.000282	0.000731	0.000151	0.000407	0.00117	0.000929	<0.000050	0.000359																
Magnesium (Mg)-Total	N/V	N/V	87	18.1	59.3	30.4	55.8	29.1	32.8	28.9	32.5	24.9	41.2	24.2	41.3	30.2	37.9	27.1	40.3																
Manganese (Mn)-Total	0.05	N/V	0.09	<0.0010	0.931	0.00626	0.708	0.00439	0.102	0.00432	0.162	0.00390	0.518	0.00428	0.350	0.0206	0.402	0.00142	0.568																
Molybdenum (Mo)-Total	N/V	7.3	N/V	<0.0010	<0.0010	0.000219	0.000840	0.000243	0.000439	0.000121	0.000214	0.000086	0.000716	0.000216	0.000827	0.000527	0.00107	0.000356	0.00145																
Nickel (Ni)-Total	N/V	0.1	N/V	<0.0020	0.0115	0.00107	0.00912	0.00111	0.00224	0.00073	0.00255	0.00067	0.00612	0.00085	0.00505	0.00119	0.00556	0.00084	0.00692																
Phosphorus (P)-Total	N/V	N/V	N/V	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050																
Potassium (K)-Total	N/V	N/V	N/V	1	1.8	1.24	2.03	1.37	1.21	1.14	2.33	1.16	1.66	1.24	2.21	1.12	1.44	1.06	1.88																
Selenium (Se)-Total	0.01	0.01	N/V	<0.00040	<0.00040	0.000128	0.000256	0.000117	0.000145	0.000119	0.000120	0.000087	0.000101	0.000146	0.000118	0.000148	0.000141	0.000163	0.000216																
Silicon (Si)-Total	N/V	N/V	N/V	1.4	5.6	1.93	4.94	2.03	2.99	2.20	3.57	1.90	4.47	1.92	4.15	2.45	4.18	2.16	4.37																
Silver (Ag)-Total	N/V	0.0012	N/V	<0.00010	<0.00010	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010																
Sodium (Na)-Total	N/V	N/V	100.5	2.43	41.2	7.83	32.5	7.72	9.98	5.86	9.56	4.56	17.2	4.77	15.8	5.42	12.2	5.21	14.5																
Strontium (Sr)-Total	N/V	N/V	N/V	0.0523	0.183	0.102	0.188	0.118	0.131	0.113	0.138	0.109	0.155	0.100	0.145	0.102	0.144	0.109	0.159																
Thallium (Tl)-Total	N/V	0.002	N/V	<0.00030	0.00044	0.000075	0.000245	0.000083	0.000109	0.000059	0.000164	0.000050	0.000325	0.000044	0.000269	0.000058	0.000217	0.000051	0.000275																
Tin (Sn)-Total	N/V	N/V	N/V	<0.0010	<0.0010	<0.00010	0.00019	<0.00010	<0.00010	<0.00010	<0.00010	0.00024	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	0.00012	0.00019																
Titanium (Ti)-Total	N/V	N/V	N/V	<0.0020	<0.0020	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	0.00033	0.00030	<0.00030	<0.00030	0.00312	<0.00060	<0.00030	<0.00030																
Tungsten (W)-Total	N/V	N/V	N/V	<0.010	<0.010	0.00020	0.00034	0.00015	0.00038	0.00012	0.00027	<0.00010	0.00039	0.00016	0.00032	0.00015	0.00030	<0.00010	0.00041																
Uranium (U)-Total	N/V	N/V	N/V	<0.0050	0.0062	0.000935	0.00588	0.000972	0.00129	0.000571	0.000821	0.000453	0.00684	0.00101	0.00685	0.00348	0.00837	0.00179	0.0120																
Vanadium (V)-Total	N/V	0.2	N/V	<0.0010	<0.0010	<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	<0.00050																
Zinc (Zn)-Total	5	1.1	0.005	0.0031	0.0615	0.0184	0.0521	0.0134	0.0263	0.0101	0.0249	0.0086	0.0538	0.0106	0.0504	0.0149	0.0632	0.0122	0.0734																
Zirconium (Zr)-Total	N/V	N/V	N/V	<0.0040	<0.0040	<0.00030	0.00034	<0.00030	<0.00030	<0.00030	<0.00030	<0.00020	0.00021	<0.00020	0.00022	<0.00020	<0.00020	<0.00020	<0.00020																
Volatile Organics	Units: µg/L			µg/L																															
1,1,1,2-Tetrachloroethane	N/V	200	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT																
1,1,2,2-Tetrachloroethane	N/V	1	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT																
1,1,1-Trichloroethane	N/V	200	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT																
1,1,2-Trichloroethane	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT																
1,2-Dibromoethane	N/V	N/V	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT																
1,1-Dichloroethane	N/V	70	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT																
1,1-Dichloroethylene	14	4.1	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT																
1,2-Dichlorobenzene	200	3	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT																
1,2-Dichloroethane	5	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT																
1,2-Dichloropropane	N/V	5																																	

2-Chloroethylvinyl Ether	N/V	N/V	N/V	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
2-Hexanone	N/V	N/V	N/V	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT
Acetone	N/V	300	N/V	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT
Benzene	5	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Bromodichloromethane	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Bromoform	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Bromomethane	N/V	10	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
Carbon Disulfide	N/V	N/V	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Carbon tetrachloride	5	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Chlorobenzene	N/V	30	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Chloroethane	N/V	N/V	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	NT	NT	NT	NT	NT	NT	NT	NT
Chloroform	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Chloromethane	N/V	N/V	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
cis-1,2-Dichloroethylene	N/V	70	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
cis-1,3-Dichloropropene	N/V	1.4	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Dibromochloromethane	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Dichlorodifluoromethane	N/V	N/V	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
Dichloromethane	50	5	N/V	<0.5	NT	2.6	NT	<2	NT	<2	NT	<2	NT	1.3	NT	1.3	NT	1.3	NT
Ethyl Benzene	2.4	2.4	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
m-p-Xylenes	N/V	N/V	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
Methyl Ethyl Ketone	N/V	350	N/V	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT
Methyl Isobutyl Ketone	N/V	350	N/V	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT
MTBE	N/V	700	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
o-Xylene	N/V	N/V	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Styrene	N/V	100	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Tetrachloroethylene	30	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Toluene	24	24	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
trans-1,2-Dichloroethylene	N/V	0.1	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
trans-1,3-Dichloropropene	N/V	N/V	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Trichloroethylene	50	50	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Trichlorofluoromethane	N/V	N/V	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
Trihalomethanes (total)	100	N/V	N/V	<2	NT	<2	NT	<2	NT	<2	NT	<2	NT	<2	NT	<2	NT	<2	NT
Vinyl chloride	2	1.3	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Xylenes (Total)	300	300	N/V	<1.5	NT	<1.5	NT	<1.5	NT	<1.5	NT	<1.5	NT	<1.5	NT	<1.5	NT	<1.5	NT

Well ID				OW13S																
Data Sampled				30-Apr-18	25-Oct-18	22-May-19	23-Oct-19	28-Apr-20	14-Oct-20	18-May-21	13-Oct-21	04-May-22	25-Oct-22	03-May-23	19-Oct-23	25-Apr-24	22-Oct-24	29-Apr-25	16-Oct-25	
Parameter	ODWS	SCS	RUP																	
Color, Apparent (C.U.)	5	N/V	N/V	317	44.5	67.6	59.8	58.7	28.7	107	55.9	25	97.2	3500	4870.0	2840	3360.0	5200	9790.0	
Conductivity (umhos/cm)	N/V	N/V	N/V	385	557	490	635	400	611	466	647	581	633	297	619	556	639	454	643	
Hardness (as CaCO3 - mg/L)	80-100	N/V	N/V	203	385	341	374	269	360	312	360	NT	NT	199	343	329	353	303	416	
pH (pH units)	6.5-8.5	N/V	8.2	8.09	7.8	7.53	7.78	7.68	7.55	8.06	7.39	8.15	8.16	8.06	7.67	7.99	7.74	8.12	7.68	
Total Dissolved Solids (mg/L)	N/V	N/V	394	342	458	387	448	291	394	285	328	329	374	209	335	298	444	512	556	
Turbidity (NTU)	1	N/V	N/V	879	>4000	735	3830	2960	1590	1140	1160	1500	1160	1200	2040	939	1110	1840	>4000	
Alkalinity, Total (mg/L)	30-500	N/V	391.5	201	327	278	372	256	327	262	360	338	345	294	405	320	455	332	406	
Ammonia as N (mg/L)	N/V	N/V	N/V	0.076	0.1	0.015	<0.01	0.016	0.023	0.026	<0.010	0.009	0.0179	0.006	0.0089	<0.0050	0.0141	0.0074	0.0148	
Chloride (mg/L)	250	250	125.5	5.11	0.75	0.99	1.36	0.51	0.68	1.19	0.76	0.97	1.37	1.02	0.94	1.05	1.08	1.26	1.17	
Fluoride (mg/L)	1.5	N/V	0.45	0.041	0.049	0.034	0.05	0.047	0.045	0.036	0.035	0.037	0.037	0.052	0.044	0.034	0.043	0.045	0.044	
Nitrite-N (mg/L)	1	1	0.3	<0.01	<0.01	<0.02	0.022	<0.02	<0.02	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	
Nitrate-N (mg/L)	10	10	2.6	0.431	<0.02	<0.01	<0.01	<0.01	<0.01	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	
Phosphate-P (ortho)	N/V	N/V	N/V	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	0.0016	0.0011	0.0013	0.0014	0.0023	
Sulphate (mg/L)	500	N/V	253.9	6.09	12.9	16.4	22.7	8.01	14.4	7.90	10.4	13.50	23.4	3.20	10.2	14.4	13.1	10	20.1	
Metal Scan-Total	Units: mg/L			mg/L																
Aluminum (Al)-Total	N/V	N/V	0.0525	0.023	<0.010	0.0098	<0.0050	0.0113	0.0056	0.0119	<0.0050	0.0630	0.0207	0.0454	0.0198	0.0152	0.0023	0.0891	0.0043	
Antimony (Sb)-Total	N/V	0.006	N/V	<0.0050	<0.0050	<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	<0.00010	
Arsenic (As)-Total	0.025	0.025	N/V	<0.0010	<0.0010	0.00044	0.00019	0.00037	0.00054	0.00033	0.00046	0.00070	0.00049	0.00042	0.00019	0.00032	0.00021	0.00034	0.00062	
Barium (Ba)-Total	1	1	N/V	<0.010	0.024	0.0230	0.0163	0.0158	0.0196	0.0161	0.0152	0.0284	0.0246	0.0151	0.0137	0.0160	0.0170	0.0160	0.0316	
Beryllium (Be)-Total	N/V	0.004	N/V	<0.0010	<0.0010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	
Bismuth (Bi)-Total	N/V	N/V	N/V	<0.0010	<0.0010	<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	<0.000050	
Boron (B)-Total	5	5	2.5025	<0.050	<0.050	0.048	<0.010	0.028	0.031	0.021	0.017	0.046	0.018	0.021	<0.010	0.021	0.016	0.022	0.057	
Cadmium (Cd)-Total	0.005	0.005	N/V	<0.000090	<0.000090	0.0000070	0.0000124	0.0000095	0.0000115	0.0000113	0.0000145	0.0000084	0.0000075	0.0000066	0.0000142	0.0000076	0.0000123	0.0000120	0.0000111	
Calcium (Ca)-Total	N/V	N/V	N/V	48.8	104	86.2	97.9	69.0	95.5	78.2	94.0	91.8	101	47.5	88.9	83.3	90.6	74.9	111	
Chromium (Cr)-Total	0.05	0.05	N/V	0.0011	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	0.00081	<0.00050	<0.00050	<0.00050	
Cobalt (Co)-Total	N/V	0.1	N/V	<0.00050	<0.00050	0.00021	<0.00010	0.00015	<0.00010	0.00010	0.00011	0.00015	<0.00010	0.00015	<0.00010	0.00013	<0.00010	0.00015	0.00013	
Copper (Cu)-Total	1	0.023	0.5007	<0.0010	<0.0010	0.00081	0.00069	0.00083	0.00052	0.00080	0.00044	0.00057	0.00160	0.00112	0.00102	0.00115	0.00055	0.00106	0.00061	
Iron (Fe)-Total	0.3	N/V	0.17	<0.050	0.218	0.091	<0.010	0.113	0.077	0.078	0.116	0.683	0.120	0.234	0.031	0.152	0.012	0.226	0.543	
Lead (Pb)-Total	0.01	0.01	0.0027	<0.0010	<0.0010	0.000099	<0.000050	0.000221	0.000248	0.000149	0.000137	0.00241	0.000264	0.000680	0.000064	0.000387	0.000071	0.000505	0.000116	
Magnesium (Mg)-Total	N/V	N/V	87	19.8	30.3	30.6	31.3	23.5	29.5	28.4	30.5	32.6	31.9	19.5	29.5	29.4	30.9	28.2	33.6	
Manganese (Mn)-Total	0.05	N/V	N/V	0.0988	0.107	0.0682	0.00412	0.0702	0.0690	0.0427	0.0850	0.0858	0.0334	0.0253	0.0192	0.0197	0.0126	0.0276	0.0668	
Molybdenum (Mo)-Total	N/V	7.3	N/V	<0.0010	<0.0010	0.000350	0.000220	0.000296	0.000197	0.000221	0.000190	0.000227	0.000286	0.000558	0.000174	0.000384	0.000207	0.000375	0.000252	
Nickel (Ni)-Total	N/V	0.1	N/V	<0.0020	<0.0020	0.00105	<0.00050	0.00063	0.00059	<0.00050	<0.00050	0.00072	0.00068	0.00066	<0.00050	0.00078	<0.00050	0.00079	0.00087	
Phosphorus (P)-Total	N/V	N/V	N/V	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	
Potassium (K)-Total	N/V	N/V	N/V	<1.0	1.1	1.08	0.344	0.850	0.791	0.607	0.450	1.42	0.741	0.748	0.216	0.552	0.436	0.593	1.43	
Selenium (Se)-Total	0.01	0.01	N/V	<0.00040	<0.00040	0.000588	0.000505	0.000406	0.000969	0.000118	0.000087	0.000335	0.000152	0.000175	0.00165	0.000994	0.00102	0.000425	0.000719	
Silicon (Si)-Total	N/V	N/V	N/V	1.2	3.2	2.46	3.69	2.04	2.90	2.00	3.05	2.68	4.87	1.64	2.79	2.29	3.14	2.04	4.01	
Silver (Ag)-Total	N/V	0.0012	N/V	<0.00010	<0.00010	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	
Sodium (Na)-Total	N/V	N/V	100.5	0.8	4.06	4.75	2.90	2.99	3.41	2.84	2.75	4.40	3.18	1.98	2.54	3.20	2.82	3.00	5.46	
Strontium (Sr)-Total	N/V	N/V	N/V	0.0486	0.13	0.113	0.104	0.0918	0.122	0.0940	0.109	0.141	0.121	0.0716	0.0968	0.0984	0.108	0.0912	0.146	
Thallium (Tl)-Total	N/V	0.002	N/V	<0.00030	<0.00030	0.000046	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	0.000014	<0.000010	0.000010	<0.000010	0.000018	<0.000010	
Tin (Sn)-Total	N/V	N/V	N/V	<0.0010	<0.0010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	0.00014	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	
Titanium (Ti)-Total	N/V	N/V	N/V	<0.0020	<0.0020	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	0.00278	<0.00060	0.00158	<0.00070	<0.00060	<0.00030	0.00357	
Tungsten (W)-Total	N/V	N/V	N/V	<0.010	<0.010	<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	<0.00010	
Uranium (U)-Total	N/V	N/V	N/V	<0.0050	<0.0050	0.000350	0.000614	0.000314	0.000495	0.000305	0.000520	0.000542	0.000614	0.000270	0.000547	0.000515	0.000575	0.000411	0.000723	
Vanadium (V)-Total	N/V	0.2	N/V	<0.0010	<0.0010	<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	<0.00050	
Zinc (Zn)-Total	5	1.1	0.005	<0.0030	<0.0030	0.0122	<0.0010	0.0054	0.0035	0.0081	0.0042	0.0119	0.0066	0.0213	0.0023	0.0170	0.0173	0.0286	0.0076	
Zirconium (Zr)-Total	N/V	N/V	N/V	<0.0040	<0.0040	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	0.00021	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	0.00021	<0.00020	
Volatile Organics	Units: µg/L			µg/L																
1,1,1,2-Tetrachloroethane	N/V	200	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	
1,1,2,2-Tetrachloroethane	N/V	1	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	
1,1,1-Trichloroethane	N/V	200	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	
1,1,2-Trichloroethane	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	
1,2-Dibromoethane	N/V	N/V	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	
1,1-Dichloroethane	N/V	70	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	
1,1-Dichloroethylene	14	4.1	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	
1,2-Dichlorobenzene	200	3	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	
1,2-Dichloroethane	5	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	
1,2-Dichloropropane	N/V	5	N/V	<0.5	NT	<0.														

2-Chloroethylvinyl Ether	N/V	N/V	N/V	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	
2-Hexanone	N/V	N/V	N/V	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT
Acetone	N/V	300	N/V	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT
Benzene	5	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Bromodichloromethane	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Bromoform	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Bromomethane	N/V	10	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
Carbon Disulfide	N/V	N/V	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Carbon tetrachloride	5	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Chlorobenzene	N/V	30	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Chloroethane	N/V	N/V	N/V	<1	NT	<1	NT	<1	NT	<1	NT	NT	NT	NT	NT	NT	NT	NT	NT
Chloroform	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Chloromethane	N/V	N/V	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
cis-1,2-Dichloroethylene	N/V	70	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
cis-1,3-Dichloropropene	N/V	1.4	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Dibromochloromethane	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Dichlorodifluoromethane	N/V	N/V	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
Dichloromethane	50	5	N/V	<0.5	NT	2.5	NT	2.5	NT	2.5	NT	2.5	NT	1.5	NT	1.5	NT	1.5	NT
Ethyl Benzene	2.4	2.4	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
m+p-Xylenes	N/V	N/V	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
Methyl Ethyl Ketone	N/V	350	N/V	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT
Methyl Isobutyl Ketone	N/V	350	N/V	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT
MTBE	N/V	700	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
o-Xylene	N/V	N/V	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Styrene	N/V	100	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Tetrachloroethylene	30	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Toluene	24	24	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
trans-1,2-Dichloroethylene	N/V	0.1	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
trans-1,3-Dichloropropene	N/V	N/V	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Trichloroethylene	50	50	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Trichlorofluoromethane	N/V	N/V	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
Trihalomethanes (total)	100	N/V	N/V	<2	NT	<2	NT	<2	NT	<2	NT	<2	NT	<2	NT	<2	NT	<2	NT
Vinyl chloride	2	1.3	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Xylenes (Total)	300	300	N/V	<1.5	NT	<1.5	NT	<1.5	NT	<1.5	NT	<1.5	NT	<1.5	NT	<1.5	NT	<1.5	NT

Notes:

OWDS - Ontario Drinking Water Standards (mg/L) from Ont. Reg. 169/03

SCS - Table 2 Site Condition Standards (mg/L) from Ont. Reg. 153/04

RUP - Reasonable Use Policy from Guideline B-7, MOEE, 1994

Values shown in **BOLD** exceed ODWS

N/V - No Value. No maximum concentration assigned.

NT - Not Tested, no analysis completed for this parameter/sample

Analyses completed at ALS Laboratoy Group in Waterloo, ON

Well ID				OW13D															
Data Sampled				30-Apr-18	25-Oct-18	22-May-19	23-Oct-19	28-Apr-20	14-Oct-20	18-May-21	13-Oct-21	04-May-22	25-Oct-22	03-May-23	19-Oct-23	25-Apr-24	22-Oct-24	29-Apr-25	16-Oct-25
Parameter	ODWS	SCS	RUP																
Color, Apparent (C.U.)	5	N/V	N/V	212	42	53.9	65.1	32.9	47.7	25.6	25.5	22.3	89.6	321.0	232.0	296.0	477.0	200.0	606.0
Conductivity (umhos/cm)	N/V	N/V	N/V	1160	1020	1070	1190	1210	1040	857	870	942	819	778	1050	844	1050	1000	1200
Hardness (as CaCO3 - mg/L)	80-100	N/V	N/V	607	517	525	686	551	492	511	441	NT	NT	404	501	448	383	526	600
pH (pH units)	6.5-8.5	N/V	8.2	7.77	7.61	7.17	7.42	7.08	7.25	7.94	7.28	7.92	8.32	8.15	7.62	7.80	7.56	7.68	7.24
Total Dissolved Solids (mg/L)	N/V	N/V	394	754	702	701	777	680	589	538	464	518	494	439	638	481	616	620	706
Turbidity (NTU)	1	N/V	N/V	359	3050	487	273	319	302	81.4	101	127.0	105	128.0	92	65.3	113	88.4	147
Alkalinity, Total (mg/L)	30-500	N/V	391.5	529	494	511	619	568	490	428	427	487	409	476	537	425	515	510	616
Ammonia as N (mg/L)	N/V	N/V	N/V	3.85	5.17	3.11	6.21	13.4	4.75	3.05	2.94	3.57	2.16	1.25	2.71	1.48	2.77	3.18	8.71
Chloride (mg/L)	250	250	125.5	15.1	14.9	15.5	18	13.9	11.5	8.84	7.82	8.39	7.72	6.11	11.50	8.08	13.1	13.60	21.30
Fluoride (mg/L)	1.5	N/V	0.45	0.042	<0.02	0.024	<0.1	<0.1	<0.1	0.032	0.038	0.034	0.024	0.042	0.046	<0.020	<0.100	<0.020	<0.100
Nitrite-N (mg/L)	1	1	0.3	<0.01	0.029	0.27	<0.1	<0.1	<0.1	0.206	<0.020	0.117	<0.020	0.030	0.072	0.122	<0.100	0.16	0.22
Nitrate-N (mg/L)	10	10	2.6	0.024	0.202	0.014	<0.05	<0.05	<0.05	<0.010	<0.010	0.12	0.076	0.394	0.053	<0.010	<0.050	<0.010	<0.050
Phosphate-P (ortho)	N/V	N/V	N/V	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	<0.0010	<0.0010	<0.0010	<0.0010
Sulphate (mg/L)	500	N/V	253.9	106	105	94.5	100	87.7	76.3	62.4	56.5	67.0	55.9	42.6	73.9	52.0	63.7	60.1	63.1
Metal Scan-Total	Units: mg/L			mg/L															
Aluminum (Al)-Total	N/V	N/V	0.0525	<0.010	0.015	<0.0050	<0.0050	0.0079	0.0072	0.0061	0.0078	0.0177	0.0084	0.0059	0.0048	0.0149	0.0019	0.0113	0.0065
Antimony (Sb)-Total	N/V	0.006	N/V	<0.0050	<0.0050	0.00017	0.00058	0.00013	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	0.00013	0.00010	<0.00010
Arsenic (As)-Total	0.025	0.025	N/V	0.001	0.0015	0.00067	0.00304	0.00197	0.00152	0.00122	0.00162	0.00110	0.00136	0.00118	0.00171	0.00122	0.00054	0.00169	0.00228
Barium (Ba)-Total	1	1	N/V	0.093	0.072	0.0736	0.124	0.0911	0.0704	0.0781	0.0598	0.0806	0.0561	0.0517	0.0669	0.0524	0.0428	0.0728	0.112
Beryllium (Be)-Total	N/V	0.004	N/V	<0.0010	<0.0010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
Bismuth (Bi)-Total	N/V	N/V	N/V	<0.0010	<0.0010	<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	<0.000050
Boron (B)-Total	5	5	2.5025	0.244	0.19	0.185	0.327	0.231	0.171	0.183	0.139	0.174	0.111	0.087	0.159	0.109	0.070	0.169	0.320
Cadmium (Cd)-Total	0.005	0.005	N/V	<0.000090	<0.000090	0.0000089	<0.000050	0.0000064	0.0000082	0.0000054	0.0000057	<0.000050	<0.000050	0.0000149	0.0000063	0.0000163	0.0000409	0.0000279	<0.000050
Calcium (Ca)-Total	N/V	N/V	N/V	164	142	137	186	150	132	135	116	134	123	103	129	115	98.1	136	162
Chromium (Cr)-Total	0.05	0.05	N/V	<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	<0.00050	<0.00050	<0.00050
Cobalt (Co)-Total	N/V	0.1	N/V	<0.00050	<0.00050	0.00035	0.00084	0.00041	0.00033	0.00028	0.00045	0.00025	0.00029	0.00024	0.00047	0.00034	0.00014	0.00045	0.00056
Copper (Cu)-Total	1	0.023	0.5007	<0.0010	<0.0010	0.00087	0.00022	0.00044	0.00020	0.00250	0.00792	0.00069	0.00170	0.00157	0.00031	0.00127	0.00177	0.00124	0.00042
Iron (Fe)-Total	0.3	N/V	0.17	2.5	2.34	0.862	0.013	4.85	2.60	1.84	2.88	2.76	2.04	1.07	2.38	1.43	0.381	2.12	3.83
Lead (Pb)-Total	0.01	0.01	0.0027	<0.0010	0.0018	0.000486	0.0116	0.00115	0.000951	0.000938	0.00151	0.00150	0.000702	0.00235	0.000406	0.00140	0.000432	0.00320	0.000565
Magnesium (Mg)-Total	N/V	N/V	87	48	39.6	44.5	53.9	42.9	39.4	42.2	36.7	41.9	36.9	35.7	43.5	39.0	33.5	45.3	47.4
Manganese (Mn)-Total	0.05	N/V	0.09	0.325	0.273	0.173	0.330	0.240	0.226	0.166	0.182	0.253	0.141	0.103	0.214	0.126	0.0645	0.169	0.266
Molybdenum (Mo)-Total	N/V	7.3	N/V	<0.0010	<0.0010	0.000747	0.000780	0.000562	0.000458	0.000712	0.000713	0.000368	0.000746	0.000641	0.000785	0.000764	0.000755	0.000650	0.000675
Nickel (Ni)-Total	N/V	0.1	N/V	0.003	0.0025	0.00367	0.00449	0.00299	0.00231	0.00284	0.00286	0.00208	0.00280	0.00205	0.00361	0.00259	0.00182	0.00377	0.00428
Phosphorus (P)-Total	N/V	N/V	N/V	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Potassium (K)-Total	N/V	N/V	N/V	5.4	4.8	3.80	8.19	5.83	4.38	4.65	4.01	5.47	3.39	2.97	3.45	2.82	2.10	3.68	7.44
Selenium (Se)-Total	0.01	0.01	N/V	0.0005	<0.00040	0.000124	0.000171	0.000136	0.000209	0.000206	0.000230	0.00127	0.000272	0.000319	0.000104	0.000253	0.000247	0.000204	0.00120
Silicon (Si)-Total	N/V	N/V	N/V	4.5	4.2	4.61	5.28	4.87	4.13	4.69	4.58	4.07	4.44	4.19	4.86	4.44	4.23	4.48	5.20
Silver (Ag)-Total	N/V	0.0012	N/V	<0.00010	<0.00010	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Sodium (Na)-Total	N/V	N/V	100.5	16.6	11.9	13.6	20.9	13.7	10.4	11.1	8.77	9.94	7.70	6.60	11.2	8.44	5.80	13.3	19.8
Strontium (Sr)-Total	N/V	N/V	N/V	0.351	0.277	0.261	0.451	0.343	0.291	0.287	0.247	0.315	0.231	0.193	0.259	0.206	0.171	0.267	0.358
Thallium (Tl)-Total	N/V	0.002	N/V	<0.00030	<0.00030	0.000097	0.000590	0.000059	0.000015	0.000047	0.000088	<0.000010	0.000030	0.000061	0.000055	0.000059	0.000048	0.000116	0.000024
Tin (Sn)-Total	N/V	N/V	N/V	<0.0010	<0.0010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	0.00026	<0.00010	<0.00010	<0.00010	0.00018	<0.00010	0.00015	<0.00010
Titanium (Ti)-Total	N/V	N/V	N/V	<0.0020	<0.0020	<0.00030	<0.00030	0.00047	0.00031	<0.00030	<0.00030	0.00058	<0.00030	<0.00030	<0.00030	<0.00060	<0.00030	<0.00050	0.00032
Tungsten (W)-Total	N/V	N/V	N/V	<0.010	<0.010	<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	<0.00010
Uranium (U)-Total	N/V	N/V	N/V	<0.0050	<0.0050	0.000571	0.000764	0.000655	0.000660	0.000686	0.000661	0.000593	0.000658	0.000630	0.00125	0.000728	0.000850	0.000840	0.000723
Vanadium (V)-Total	N/V	0.2	N/V	<0.0010	<0.0010	<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	<0.00050
Zinc (Zn)-Total	5	1.1	0.005	0.0086	0.0222	0.0924	0.0532	0.0594	0.0211	0.0940	0.0988	0.0171	0.0613	0.0959	0.0641	0.113	0.131	0.206	0.114
Zirconium (Zr)-Total	N/V	N/V	N/V	<0.0040	<0.0040	0.00034	0.00045	0.00072	0.00041	0.00036	0.00044	0.00038	0.00035	0.00031	0.00045	0.00032	<0.00020	0.00042	0.00062
Volatile Organics	Units: µg/L			µg/L															
1,1,1,2-Tetrachloroethane	N/V	200	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,1,2,2-Tetrachloroethane	N/V	1	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,1,1-Trichloroethane	N/V	200	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,1,2-Trichloroethane	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,2-Dibromoethane	N/V	N/V	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,1-Dichloroethane	N/V	70	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,1-Dichloroethylene	14	4.1	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,2-Dichlorobenzene	200	3	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,2-Dichloroethane	5	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,2-Dichloropropane	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,3-Dichlorobenzene	N/V	630	N/V																

2-Chloroethylvinyl Ether	N/V	N/V	N/V	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
2-Hexanone	N/V	N/V	N/V	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT
Acetone	N/V	300	N/V	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT
Benzene	5	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Bromodichloromethane	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Bromoform	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Bromomethane	N/V	10	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
Carbon Disulfide	N/V	N/V	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Carbon tetrachloride	5	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Chlorobenzene	N/V	30	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Chloroethane	N/V	N/V	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	NT	NT	NT	NT	NT	NT	NT	NT
Chloroform	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Chloromethane	N/V	N/V	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
cis-1,2-Dichloroethylene	N/V	70	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
cis-1,3-Dichloropropene	N/V	1.4	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Dibromochloromethane	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Dichlorodifluoromethane	N/V	N/V	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
Dichloromethane	50	5	N/V	<0.5	NT	2.8	NT	<2	NT	<2	NT	<2	NT	1.6	NT	<1	NT	<1	NT
Ethyl Benzene	2.4	2.4	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
m+p-Xylenes	N/V	N/V	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
Methyl Ethyl Ketone	N/V	350	N/V	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT
Methyl Isobutyl Ketone	N/V	350	N/V	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT
MTBE	N/V	700	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
o-Xylene	N/V	N/V	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Styrene	N/V	100	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Tetrachloroethylene	30	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Toluene	24	24	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
trans-1,2-Dichloroethylene	N/V	0.1	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
trans-1,3-Dichloropropene	N/V	N/V	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Trichloroethylene	50	50	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Trichlorofluoromethane	N/V	N/V	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
Trihalomethanes (total)	100	N/V	N/V	<2	NT	<2	NT	<2	NT	<2	NT	<2	NT	<2	NT	<2	NT	<2	NT
Vinyl chloride	2	1.3	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Xylenes (Total)	300	300	N/V	<1.5	NT	<1.5	NT	<1.5	NT	<1.5	NT	<1.5	NT	<1.5	NT	<1.5	NT	<1.5	NT

Well ID				OW16S															
Data Sampled				30-Apr-18	25-Oct-18	22-May-19	23-Oct-19	28-Apr-20	14-Oct-20	18-May-21	13-Oct-21	04-May-22	25-Oct-22	03-May-23	19-Oct-23	25-Apr-24	22-Oct-24	29-Apr-25	16-Oct-25
Parameter	ODWS	SCS	RUP																
Color, Apparent (C.U.)	5	N/V	N/V	111	24.5	13.7	100	29.8	6.8	19.1	25.4	27.8	47.5	740.0	469.0	860.0	1250.0	589.0	1060.0
Conductivity (umhos/cm)	N/V	N/V	N/V	631	652	597	675	664	700	557	710	542	638	482	599	555	668	617	690
Hardness (as CaCO3 - mg/L)	80-100	N/V	N/V	381	466	377	424	395	420	375	384	NT	NT	283	360	418	429	365	413
pH (pH units)	6.5-8.5	N/V	8.2	8.05	7.91	7.49	7.78	7.55	7.48	7.95	7.45	7.71	7.79	8.11	7.80	8.01	7.67	7.81	7.70
Total Dissolved Solids (mg/L)	N/V	N/V	394	420	487	364	409	343	402	357	385	314	394	282	352	305	505	385	436
Turbidity (NTU)	1	N/V	N/V	381	3210	274	617	3320	698	623	242	533	351	280	420	222	473	183	296
Alkalinity, Total (mg/L)	30-500	N/V	391.5	340	386	322	389	360	369	329	394	321	348	314	379	316	386	343	396
Ammonia as N (mg/L)	N/V	N/V	N/V	0.041	0.181	0.015	<0.02	<0.01	0.022	0.052	<0.010	0.013	0.0187	0.005	0.0099	0.0085	0.134	<0.005	0.0142
Chloride (mg/L)	250	250	125.5	10.2	12.9	13.4	12.9	11.5	9.63	7.22	9.23	9.82	10.10	8.08	8.34	7.72	9.74	10.60	11.20
Fluoride (mg/L)	1.5	N/V	0.45	0.042	0.054	0.045	0.048	0.051	0.056	0.043	0.043	0.040	0.043	0.062	0.056	0.042	0.054	0.051	0.046
Nitrite-N (mg/L)	1	1	0.3	<0.01	<0.01	0.824	0.233	0.43	0.064	0.661	0.117	<0.01	<0.01	<0.01	<0.01	0.724	0.029	1.00	0.23
Nitrate-N (mg/L)	10	10	2.6	0.588	0.032	<0.01	<0.01	<0.01	<0.01	<0.010	<0.010	0.764	0.175	0.429	<0.02	<0.010	0.016	<0.010	<0.01
Phosphate-P (ortho)	N/V	N/V	N/V	0.0039	<0.003	<0.003	0.0034	<0.003	<0.003	0.0131	0.0036	0.0042	0.0032	0.0027	0.0016	0.0054	0.0044	0.0063	0.0173
Sulphate (mg/L)	500	N/V	253.9	6.73	6.77	9.32	6.46	5.49	5	3.87	4.29	4.47	4.58	3.72	4.03	3.89	4.15	6.43	6.06
Metal Scan-Total	Units: mg/L			mg/L															
Aluminum (Al)-Total	N/V	N/V	0.0525	<0.010	<0.010	<0.0050	0.0058	<0.0050	0.0103	0.0071	<0.0050	0.140	0.0763	0.0033	0.0105	0.662	0.0468	0.0038	0.0027
Antimony (Sb)-Total	N/V	0.006	N/V	<0.0050	<0.0050	<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	<0.00010
Arsenic (As)-Total	0.025	0.025	N/V	<0.0010	<0.0010	0.00020	0.00043	0.00025	0.00043	0.00031	0.00025	0.00036	0.00052	0.00032	0.00049	0.00114	0.00107	0.00024	0.00044
Barium (Ba)-Total	1	1	N/V	0.05	0.064	0.0374	0.0536	0.0346	0.0353	0.0313	0.0277	0.0321	0.0461	0.0302	0.0339	0.0372	0.0544	0.0227	0.0357
Beryllium (Be)-Total	N/V	0.004	N/V	<0.0010	<0.0010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.000020	<0.000020	<0.000020	<0.000020	0.000034	<0.000020	<0.000020	<0.000020
Bismuth (Bi)-Total	N/V	N/V	N/V	<0.0010	<0.0010	<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	<0.000050
Boron (B)-Total	5	5	2.5025	0.121	0.15	0.081	0.091	0.045	0.038	0.046	0.012	0.038	0.077	0.046	0.050	0.054	0.121	<0.010	0.050
Cadmium (Cd)-Total	0.005	0.005	N/V	<0.000090	<0.000090	0.0000176	0.0000167	0.0000162	<0.000050	0.0000151	0.0000060	0.0000145	0.0000084	0.0000202	<0.000050	0.0000575	0.0000117	<0.000050	<0.000050
Calcium (Ca)-Total	N/V	N/V	N/V	94.5	122	98.8	110	105	114	103	106	98.6	118	72.8	95.9	106	108	97.7	111
Chromium (Cr)-Total	0.05	0.05	N/V	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	0.00108	<0.00050	<0.00050	<0.00050
Cobalt (Co)-Total	N/V	0.1	N/V	0.00056	0.00083	0.00039	0.00033	0.00024	0.00032	0.00019	<0.00010	0.00026	0.00043	0.00025	0.00024	0.00046	0.00066	<0.00010	0.00018
Copper (Cu)-Total	1	0.023	0.5007	0.001	<0.0010	0.00123	0.00092	0.00078	0.00059	0.00095	0.00847	0.00128	0.00102	0.00167	0.00060	0.00444	0.00056	0.00105	0.00076
Iron (Fe)-Total	0.3	N/V	0.17	0.056	0.417	<0.010	0.289	0.019	0.099	0.083	0.019	0.124	0.399	0.033	0.219	0.825	0.859	0.014	0.217
Lead (Pb)-Total	0.01	0.01	0.0027	<0.0010	<0.0010	0.000364	0.000275	0.000441	0.000293	0.000218	0.000165	0.00123	0.000726	0.000442	0.000156	0.00556	0.00148	<0.00050	0.000192
Magnesium (Mg)-Total	N/V	N/V	87	35.2	39.4	31.6	36.3	32.1	32.7	28.8	29.0	29.6	34.9	24.5	29.3	37.2	38.7	29.4	33.1
Manganese (Mn)-Total	0.05	N/V	0.09	0.187	0.204	0.0937	0.0914	0.0507	0.0668	0.0460	0.0274	0.0527	0.0818	0.0482	0.0481	0.0888	0.106	0.00056	0.0277
Molybdenum (Mo)-Total	N/V	7.3	N/V	<0.0010	<0.0010	0.000548	0.000722	0.000599	0.000554	0.000408	0.000594	0.000445	0.000538	0.000696	0.000598	0.000472	0.000434	0.000548	0.000547
Nickel (Ni)-Total	N/V	0.1	N/V	<0.0020	0.0022	0.00153	0.00148	0.00111	0.00127	0.00098	0.00059	0.00106	0.00179	0.00112	0.00084	0.00169	0.00135	<0.00050	0.00082
Phosphorus (P)-Total	N/V	N/V	N/V	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Potassium (K)-Total	N/V	N/V	N/V	6.1	6.7	3.55	4.50	2.43	2.13	2.07	0.964	1.85	3.56	2.51	2.43	2.78	5.34	0.787	2.34
Selenium (Se)-Total	0.01	0.01	N/V	<0.00040	<0.00040	0.000066	0.000076	0.000068	0.000105	0.000069	0.000059	0.000072	0.000054	0.000060	<0.000050	0.000062	<0.000050	0.000057	0.000136
Silicon (Si)-Total	N/V	N/V	N/V	5.1	6.3	5.58	6.17	6.29	6.61	5.87	6.77	5.62	6.92	4.83	6.47	7.04	6.68	5.49	6.60
Silver (Ag)-Total	N/V	0.0012	N/V	<0.00010	<0.00010	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Sodium (Na)-Total	N/V	N/V	100.5	9.4	td														

2-Chloroethylvinyl Ether	N/V	N/V	N/V	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
2-Hexanone	N/V	N/V	N/V	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT
Acetone	N/V	300	N/V	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT
Benzene	5	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Bromodichloromethane	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Bromoform	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Bromomethane	N/V	10	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
Carbon Disulfide	N/V	N/V	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Carbon tetrachloride	5	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Chlorobenzene	N/V	30	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Chloroethane	N/V	N/V	N/V	<1.0	NT	<1.0	NT	<1.0	NT	<1.0	NT	NT	NT	NT	NT	NT	NT	NT	NT
Chloroform	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Chloromethane	N/V	N/V	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
cis-1,2-Dichloroethylene	N/V	70	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
cis-1,3-Dichloropropene	N/V	1.4	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Dibromochloromethane	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Dichlorodifluoromethane	N/V	N/V	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
Dichloromethane	50	5	N/V	<0.5	NT	3.1	NT	<2	NT	<2	NT	<2	NT	<2	NT	<2	NT	<2	NT
Ethyl Benzene	2.4	2.4	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
m+p-Xylenes	N/V	N/V	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
Methyl Ethyl Ketone	N/V	350	N/V	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT
Methyl Isobutyl Ketone	N/V	350	N/V	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT
MTBE	N/V	700	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
o-Xylene	N/V	N/V	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Styrene	N/V	100	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Tetrachloroethylene	30	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Toluene	24	24	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
trans-1,2-Dichloroethylene	N/V	0.1	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
trans-1,3-Dichloropropene	N/V	N/V	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Trichloroethylene	50	50	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Trichlorofluoromethane	N/V	N/V	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
Trihalomethanes (total)	100	N/V	N/V	<2	NT	<2	NT	<2	NT	<2	NT	<2	NT	<2	NT	<2	NT	<2	NT
Vinyl chloride	2	1.3	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Xylenes (Total)	300	300	N/V	<1.5	NT	<1.5	NT	<1.5	NT	<1.5	NT	<1.5	NT	<1.5	NT	<1.5	NT	<1.5	NT

Notes:

OWDS - Ontario Drinking Water Standards (mg/L) from Ont. Reg. 169/03

SCS - Table 2 Site Condition Standards (mg/L) from Ont. Reg. 153/04

RUP - Reasonable Use Policy from Guideline B-7, MOEE, 1994

Values shown in **BOLD** exceed ODWS

N/V - No Value. No maximum concentration assigned.

NT - Not Tested, no analysis completed for this parameter/sample

Analyses completed at ALS Laboratoy Group in Waterloo, ON

[illegible]

2-Chloroethylvinyl Ether	N/V	N/V	N/V	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	
2-Hexanone	N/V	N/V	N/V	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT
Acetone	N/V	300	N/V	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT
Benzene	5	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Bromodichloromethane	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Bromoform	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Bromomethane	N/V	10	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
Carbon Disulfide	N/V	N/V	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Carbon tetrachloride	5	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Chlorobenzene	N/V	30	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Chloroethane	N/V	N/V	N/V	<1	NT	<1	NT	<1	NT	<1	NT	NT	NT	NT	NT	NT	NT	NT	NT
Chloroform	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Chloromethane	N/V	N/V	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
cis-1,2-Dichloroethylene	N/V	70	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
cis-1,3-Dichloropropene	N/V	1.4	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Dibromochloromethane	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Dichlorodifluoromethane	N/V	N/V	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
Dichloromethane	50	5	N/V	<0.5	NT	3.3	NT	<2	NT	<2	NT	<2	NT	<2	NT	<2	NT	<2	NT
Ethyl Benzene	2.4	2.4	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
m+p-Xylenes	N/V	N/V	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
Methyl Ethyl Ketone	N/V	350	N/V	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT
Methyl Isobutyl Ketone	N/V	350	N/V	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT
MTBE	N/V	700	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
o-Xylene	N/V	N/V	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Styrene	N/V	100	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Tetrachloroethylene	30	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Toluene	24	24	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
trans-1,2-Dichloroethylene	N/V	0.1	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
trans-1,3-Dichloropropene	N/V	N/V	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Trichloroethylene	50	50	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Trichlorofluoromethane	N/V	N/V	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
Trihalomethanes (total)	100	N/V	N/V	<2	NT	<2	NT	<2	NT	<2	NT	<2	NT	<2	NT	<2	NT	<2	NT
Vinyl chloride	2	1.3	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Xylenes (Total)	300	300	N/V	<1.5	NT	<1.5	NT	<1.5	NT	<1.5	NT	<1.5	NT	<1.5	NT	<1.5	NT	<1.5	NT

[illegible]

2-Chloroethylvinyl Ether	N/V	N/V	N/V	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	
2-Hexanone	N/V	N/V	N/V	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT
Acetone	N/V	300	N/V	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT
Benzene	5	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Bromodichloromethane	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Bromoform	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Bromomethane	N/V	10	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
Carbon Disulfide	N/V	N/V	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Carbon tetrachloride	5	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Chlorobenzene	N/V	30	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Chloroethane	N/V	N/V	N/V	<1	NT	<1	NT	<1	NT	<1	NT	NT	NT	NT	NT	NT	NT	NT	NT
Chloroform	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Chloromethane	N/V	N/V	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
cis-1,2-Dichloroethylene	N/V	70	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
cis-1,3-Dichloropropene	N/V	1.4	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Dibromochloromethane	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Dichlorodifluoromethane	N/V	N/V	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
Dichloromethane	50	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Ethyl Benzene	2.4	2.4	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
m+p-Xylenes	N/V	N/V	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
Methyl Ethyl Ketone	N/V	350	N/V	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT
Methyl Isobutyl Ketone	N/V	350	N/V	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT
MTBE	N/V	700	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
o-Xylene	N/V	N/V	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Styrene	N/V	100	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Tetrachloroethylene	30	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Toluene	24	24	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
trans-1,2-Dichloroethylene	N/V	0.1	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
trans-1,3-Dichloropropene	N/V	N/V	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Trichloroethylene	50	50	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Trichlorofluoromethane	N/V	N/V	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
Trihalomethanes (total)	100	N/V	N/V	<2	NT	<2	NT	<2	NT	<2	NT	<2	NT	<2	NT	<2	NT	<2	NT
Vinyl chloride	2	1.3	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Xylenes (Total)	300	300	N/V	<1.5	NT	<1.5	NT	<1.5	NT	<1.5	NT	<1.5	NT	<1.5	NT	<1.5	NT	<1.5	NT

Notes:

OWDS - Ontario Drinking Water Standards (mg/L) from Ont. Reg. 169/03

SCS - Table 2 Site Condition Standards (mg/L) from Ont. Reg. 153/04

RUP - Reasonable Use Policy from Guideline B-7, MOEE, 1994

Values shown in **BOLD** exceed ODWS

N/V - No Value. No maximum concentration assigned.

NT - Not Tested, no analysis completed for this parameter/sample

Analyses completed at ALS Laboratoy Group in Waterloo, ON

Well ID				OW20D															
Data Sampled				30-Apr-18	25-Oct-18	22-May-19	23-Oct-19	28-Apr-20	14-Oct-20	18-May-21	13-Oct-21	04-May-22	25-Oct-22	03-May-23	19-Oct-23	25-Apr-24	22-Oct-24	29-Apr-25	16-Oct-25
Parameter	ODWS	SCS	RUP																
Color, Apparent (C.U.)	5	N/V	N/V	28.1	24.2	80.6	17.7	7.1	87.4	28.0	7.1	7.0	6.1	3890.0		32.0	22.3	197.0	245.0
Conductivity (umhos/cm)	N/V	N/V	N/V	1410	494	1440	1380	1480	1420	1380	1380	1250	1330	698	1340	1350	1370	1360	1340
Hardness (as CaCO3 - mg/L)	80-100	N/V	N/V	659	678	633	697	706	675	713	690	NT	NT	355	678	672	682	734	691
pH (pH units)	6.5-8.5	N/V	8.2	7.87	8.23	7.33	7.46	7.53	7.4	7.40	7.29	7.85	7.97	8.16	7.98	7.77	7.68	7.54	7.58
Total Dissolved Solids (mg/L)	N/V	N/V	394	847	826	875	838	791	801	856	789	816	824	414	822	802	815	873	832
Turbidity (NTU)	1	N/V	N/V	48.5	39.8	39	44.2	16.8	32.6	19.1	12.7	15.9	10.6	>4000	46.8	4.1	4.7	54.8	44.5
Alkalinity, Total (mg/L)	30-500	N/V	N/V	391.5	518	517	599	637	575	562	573	556	488	546	443	614	597	581	590
Ammonia as N (mg/L)	N/V	N/V	N/V	6.29	7.37	6.76	9.02	10.2	7.53	15.2	6.06	3.0	4.77	0.1	10.40	7.25	7.60	9.18	8.75
Chloride (mg/L)	250	250	125.5	38.6	46.8	39.2	50.7	44.5	43.9	41.3	40.8	43.0	40.2	7.7	28.7	28.6	29.3	25.30	27.00
Fluoride (mg/L)	1.5	N/V	0.45	0.034	0.03	0.026	<0.1	<0.1	<0.1	<0.10	0.063	<0.10	<0.1	0.195	<0.1	<0.100	<0.100	<0.100	<0.100
Nitrite-N (mg/L)	1	1	0.3	<0.01	<0.01	<0.02	<0.1	0.16	<0.1	0.92	0.482	0.34	<0.05	<0.01	<0.05	1.04	0.144	<0.1	<0.1
Nitrate-N (mg/L)	10	10	2.6	<0.02	0.03	<0.01	<0.05	<0.05	<0.05	<0.050	0.015	3.26	1.210	0.076	<0.1	<0.050	<0.050	<0.050	<0.050
Phosphate-P (ortho)	N/V	N/V	N/V	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.0030	<0.0030	<0.0030	<0.0030	<0.001	<0.001	<0.0010	<0.0010	<0.0010	0.0013
Sulphate (mg/L)	500	N/V	253.9	204	159	197	179	166	177	184	170	184	172	37	144	140	152	184	35.2
Metal Scan-Total	Units: mg/L			mg/L															
Aluminum (Al)-Total	N/V	N/V	0.0525	<0.01	<0.010	<0.010	<0.010	<0.0050	0.0463	<0.0050	<0.0050	<0.0050	<0.0050	0.134	0.0034	0.0020	0.0012	0.0057	0.0019
Antimony (Sb)-Total	N/V	0.006	N/V	<0.0050	<0.0050	<0.0050	<0.0050	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Arsenic (As)-Total	0.025	0.025	N/V	0.0033	0.0018	0.0041	0.0026	0.00198	0.00341	0.00029	0.00320	0.00089	0.00075	0.00151	0.00407	0.00058	0.00049	0.00393	0.00374
Barium (Ba)-Total	1	1	N/V	0.120	0.082	0.154	0.125	0.101	0.119	0.136	0.125	0.129	0.118	0.0439	0.142	0.117	0.129	0.136	0.136
Beryllium (Be)-Total	N/V	0.004	N/V	<0.0010	<0.0010	<0.0010	<0.0010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
Bismuth (Bi)-Total	N/V	N/V	N/V	<0.0010	<0.0010	<0.0010	<0.0010	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050
Boron (B)-Total	5	5	2.5025	0.571	0.375	0.529	0.544	0.476	0.558	0.555	0.524	0.596	0.538	0.078	0.550	0.568	0.545	0.572	0.572
Cadmium (Cd)-Total	0.005	0.005	N/V	<0.000090	<0.000090	<0.000090	<0.000090	<0.000050	0.000187	0.0000067	<0.000050	0.0000085	0.0000145	0.0000114	<0.000050	0.0000075	0.0000150	<0.000050	<0.000050
Calcium (Ca)-Total	N/V	N/V	N/V	152	128	141	149	143	151	148	147	152	147	72.1	147	142	146	158	156
Chromium (Cr)-Total	0.05	0.05	N/V	<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	<0.00050	<0.00050	<0.00050
Cobalt (Co)-Total	N/V	0.1	N/V	0.00362	0.00198	0.00524	0.00267	0.00279	0.00283	0.00280	0.00293	0.00300	0.00293	0.00044	0.00354	0.00340	0.00313	0.00438	0.00304
Copper (Cu)-Total	1	0.023	0.5007	<0.0010	<0.0010	<0.0010	<0.0010	0.00034	0.00103	0.00190	<0.00020	0.00229	0.00323	0.00159	0.00102	0.00026	0.00215	0.00031	0.00043
Iron (Fe)-Total	0.3	N/V	0.17	2.20	1.63	2.88	2.82	1.94	3.26	0.034	1.98	0.614	0.532	0.494	4.44	0.172	0.259	3.28	3.28
Lead (Pb)-Total	0.01	0.01	0.0027	<0.0010	<0.0010	<0.0010	<0.0010	0.000444	0.0200	0.000125	0.000191	0.000319	0.000390	0.000496	0.000426	0.000070	0.000188	0.00115	0.000493
Magnesium (Mg)-Total	N/V	N/V	87	77.9	58.3	74.2	74.3	67.0	77.7	81.7	74.7	81.0	78.5	42.4	75.4	77.1	77.2	82.4	73.3
Manganese (Mn)-Total	0.05	N/V	0.09	0.698	0.438	0.805	0.534	0.579	0.470	0.625	0.577	0.676	0.634	0.164	0.613	0.562	0.586	0.760	0.566
Molybdenum (Mo)-Total	N/V	7.3	N/V	<0.0010	<0.0010	<0.0010	<0.0010	0.000335	0.000396	0.000415	0.000431	0.000427	0.000414	0.00212	0.000433	0.000427	0.000429	0.000425	0.000385
Nickel (Ni)-Total	N/V	0.1	N/V	0.0091	0.0048	0.0125	0.007	0.00626	0.00661	0.00790	0.00794	0.00819	0.00822	0.00088	0.00800	0.00810	0.00786	0.00969	0.00745
Phosphorus (P)-Total	N/V	N/V	N/V	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Potassium (K)-Total	N/V	N/V	N/V	19.2	14.4	17.3	19.3	15.6	19.4	21.5	16.9	20.9	21.7	1.21	22.4	19.8	21.6	19.6	21.0
Selenium (Se)-Total	0.01	0.01	N/V	<0.00040	<0.00040	<0.00040	<0.00040	0.000067	0.000597	<0.000050	0.000074	<0.000050	0.000061	0.000053	0.000057	0.000061	<0.000050	0.000081	0.000124
Silicon (Si)-Total	N/V	N/V	N/V	5.9	4.7	6.2	6.4	4.79	7.36	5.79	6.13	6.00	5.88	6.74	6.48	6.36	6.15	6.08	5.94
Silver (Ag)-Total	N/V	0.0012	N/V	<0.00010	<0.00010	<0.00010	<0.00010	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Sodium (Na)-Total	N/V	N/V	100.5	29.7	21.9	35.2	31.5	25.1	28.5	36.3	29.5	33.3	34.7	32.1	27.7	27.3	28.0	27.7	25.4
Strontium (Sr)-Total	N/V	N/V	N/V	0.401	0.282	0.376	0.364	0.358	0.398	0.419	0.378	0.416	0.399	0.200	0.448	0.408	0.428	0.461	0.421
Thallium (Tl)-Total	N/V	0.002	N/V	<0.00030	<0.00030	0.00044	<0.00030	0.000218	0.000618	0.000378	0.000420	0.000388	0.000447	0.000010	0.000420	0.000353	0.000404	0.000364	0.000447
Tin (Sn)-Total	N/V	N/V	N/V	<0.0010	<0.0010	<0.0010	<0.0010	<0.00010	0.00017	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Titanium (Ti)-Total	N/V	N/V	N/V	<0.0020	<0.0020	<0.0020	<0.0020	<0.00030	0.00209	<0.00030	<0.00030	<0.00030	<0.00030	<0.00600	<0.00030	<0.00030	<0.00030	0.00031	<0.00030
Tungsten (W)-Total	N/V	N/V	N/V	<0.010	<0.010	<0.010	<0.010	<0.00010	0.00019	<0.00010	<0.00010	<0.00010	<0.00010	0.00031	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Uranium (U)-Total	N/V	N/V	N/V	<0.0050	<0.0050	<0.0050	<0.0050	0.000532	0.000603	0.000746	0.000746	0.000767	0.000839	0.00227	0.000683	0.000650	0.000748	0.000757	0.000780
Vanadium (V)-Total	N/V	0.2	N/V	<0.0010	<0.0010	<0.0010	<0.0010	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Zinc (Zn)-Total	5	1.1	0.005	0.0051	0.0068	0.0219	0.0122	0.0058	0.0404	0.0186	0.0153	0.0171	0.0245	0.0030	0.0149	0.0084	0.0148	0.0093	0.0174
Zirconium (Zr)-Total	N/V	N/V	N/V	<0.0040	<0.0040	<0.0040	<0.0040	0.00038	0.00064	<0.00030	0.00031	<0.00030	<0.00030	0.00021	0.00059	0.00030	0.00023	0.00055	0.00051
Volatile Organics	Units: µg/L			µg/L															
1,1,1,2-Tetrachloroethane	N/V	200	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,1,2,2-Tetrachloroethane	N/V	1	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,1,1-Trichloroethane	N/V	200	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,1,2-Trichloroethane	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,2-Dibromoethane	N/V	N/V	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,1-Dichloroethane	N/V	70	N/V	0.5	NT	0.5	NT	0.5	NT	0.5	NT	0.5	NT	0.5	NT	0.5	NT	0.5	NT
1,1-Dichloroethylene	14	4.1	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,2-Dichlorobenzene	200	3	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,2-Dichloroethane	5	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,2-Dichloropropane	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,3-Dichlorobenzene	N/V	630	N/V	<0.5	NT														

2-Chloroethylvinyl Ether	N/V	N/V	N/V	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
2-Hexanone	N/V	N/V	N/V	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT
Acetone	N/V	300	N/V	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT
Benzene	5	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Bromodichloromethane	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Bromoform	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Bromomethane	N/V	10	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
Carbon Disulfide	N/V	N/V	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Carbon tetrachloride	5	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Chlorobenzene	N/V	30	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Chloroethane	N/V	N/V	N/V	<1	NT	<1	NT	<1	NT	<1	NT	NT	NT	NT	NT	NT	NT	NT	NT
Chloroform	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Chloromethane	N/V	N/V	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
cis-1,2-Dichloroethylene	N/V	70	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
cis-1,3-Dichloropropene	N/V	1.4	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Dibromochloromethane	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Dichlorodifluoromethane	N/V	N/V	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
Dichloromethane	50	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Ethyl Benzene	2.4	2.4	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
m+p-Xylenes	N/V	N/V	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
Methyl Ethyl Ketone	N/V	350	N/V	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT
Methyl Isobutyl Ketone	N/V	350	N/V	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT
MTBE	N/V	700	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
o-Xylene	N/V	N/V	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Styrene	N/V	100	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Tetrachloroethylene	30	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Toluene	24	24	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
trans-1,2-Dichloroethylene	N/V	0.1	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
trans-1,3-Dichloropropene	N/V	N/V	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Trichloroethylene	50	50	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Trichlorofluoromethane	N/V	N/V	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
Trihalomethanes (total)	100	N/V	N/V	<2	NT	<2	NT	<2	NT	<2	NT	<2	NT	<2	NT	<2	NT	<2	NT
Vinyl chloride	2	1.3	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Xylenes (Total)	300	300	N/V	<1.5	NT	<1.5	NT	<1.5	NT	<1.5	NT	<1.5	NT	<1.5	NT	<1.5	NT	<1.5	NT

APPENDIX C

LABORATORY CERTIFICATES OF ANALYSIS

CERTIFICATE OF ANALYSIS (GUIDELINE EVALUATION)

Work Order	: WT2509690		
Client	: Bluewater Geoscience Consultants Inc.	Laboratory	: ALS Environmental - Waterloo
Contact	: Breton Lemieux	Account Manager	: Gayle Braun
Address	: 42 Shadyridge Place Kitchener Ontario Canada N2N 3J1	Address	: 60 Northland Road, Unit 1 Waterloo ON Canada N2V 2B8
Telephone	: 519 744 4123	Telephone	: +1 519 886 6910
Project	: BG-924	Date Samples Received	: 29-Apr-2025 13:15
PO	: ----	Date Analysis Commenced	: 29-Apr-2025
C-O-C number	: 23-1119627	Issue Date	: 06-May-2025 15:47
Sampler	: BJL		
Site	: ----		
Quote number	: SOA		
No. of samples received	: 19		
No. of samples analysed	: 19		

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results
- Guideline Comparison

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QC Interpretive report to assist with Quality Review and Sample Receipt Notification (SRN).

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is conducted in accordance with US FDA 21 CFR Part 11.

Signatories	Position	Laboratory Department
Andrea Armstrong	Department Manager - Air Quality and Volatiles	VOC, Waterloo, Ontario
Nik Perkio	Senior Analyst	Inorganics, Waterloo, Ontario
Walt Kippenhuck	Supervisor - Inorganic	Metals, Waterloo, Ontario
Walt Kippenhuck	Supervisor - Inorganic	Inorganics, Waterloo, Ontario

Summary of Guideline Breaches by Sample

SampleID/Client ID	Matrix	Analyte	Analyte Summary	Guideline	Category	Result	Limit
OW-1	Water	Colour, apparent	May interfere with disinfection; removal is important to ensure effective treatment.	ONDWS	AO/OG	200 CU	5 CU
	Water	Hardness (as CaCO ₃), dissolved	Hardness levels between 80 and 100 mg/L (as CaCO ₃) provide acceptable balance between corrosion and incrustation; where a water softener is used, a separate unsoftened supply for cooking and drinking purposes is recommended.	ONDWS	AO/OG	456 mg/L	80 - 100 mg/L



	Water	Turbidity	Filtration systems should be designed and operated to reduce turbidity levels as low as reasonably achievable and strive to achieve a treated water turbidity target from individual filters of less than 0.1 NTU. Particles can harbour microorganisms, protecting them from disinfection, and can entrap heavy metals and biocides; elevated or fluctuating turbidity in filtered water can indicate a problem with the water treatment process and a potential increased risk of pathogens in treated water.	ONDWS	AO/OG	73.5 NTU	5 NTU
OW-2S	Water	Alkalinity, total (as CaCO ₃)		ONDWS	AO/OG	655 mg/L	30 - 500 mg/L
	Water	Colour, apparent	May interfere with disinfection; removal is important to ensure effective treatment.	ONDWS	AO/OG	194 CU	5 CU
	Water	Hardness (as CaCO ₃), dissolved	Hardness levels between 80 and 100 mg/L (as CaCO ₃) provide acceptable balance between corrosion and incrustation; where a water softener is used, a separate unsoftened supply for cooking and drinking purposes is recommended.	ONDWS	AO/OG	697 mg/L	80 - 100 mg/L
	Water	Solids, total dissolved [TDS]	Based on taste; TDS above 500 mg/L results in excessive scaling in water pipes, water heaters, boilers and appliances; TDS is composed of calcium, magnesium, sodium, potassium, carbonate, bicarbonate, chloride, sulphate and nitrate.	ONDWS	AO/OG	648 mg/L	500 mg/L
	Water	Turbidity	Filtration systems should be designed and operated to reduce turbidity levels as low as reasonably achievable and strive to achieve a treated water turbidity target from individual filters of less than 0.1 NTU. Particles can harbour microorganisms, protecting them from disinfection, and can entrap heavy metals and biocides; elevated or fluctuating turbidity in filtered water can indicate a problem with the water treatment process and a potential increased risk of pathogens in treated water.	ONDWS	AO/OG	98.9 NTU	5 NTU
	Water	Iron, dissolved	Based on taste and staining of laundry and plumbing fixtures; no evidence exists of dietary iron toxicity in the general population.	ONDWS	AO/OG	0.940 mg/L	0.3 mg/L
	Water	Manganese, dissolved	Based on taste and staining of laundry and plumbing fixtures.	ONDWS	AO/OG	0.297 mg/L	0.05 mg/L
OW-2D	Water	Alkalinity, total (as CaCO ₃)		ONDWS	AO/OG	685 mg/L	30 - 500 mg/L
	Water	Colour, apparent	May interfere with disinfection; removal is important to ensure effective treatment.	ONDWS	AO/OG	104 CU	5 CU



	Water	Hardness (as CaCO ₃), dissolved	Hardness levels between 80 and 100 mg/L (as CaCO ₃) provide acceptable balance between corrosion and incrustation; where a water softener is used, a separate unsoftened supply for cooking and drinking purposes is recommended.	ONDWS	AO/OG	664 mg/L	80 - 100 mg/L
	Water	Solids, total dissolved [TDS]	Based on taste; TDS above 500 mg/L results in excessive scaling in water pipes, water heaters, boilers and appliances; TDS is composed of calcium, magnesium, sodium, potassium, carbonate, bicarbonate, chloride, sulphate and nitrate.	ONDWS	AO/OG	755 mg/L	500 mg/L
	Water	Turbidity	Filtration systems should be designed and operated to reduce turbidity levels as low as reasonably achievable and strive to achieve a treated water turbidity target from individual filters of less than 0.1 NTU. Particles can harbour microorganisms, protecting them from disinfection, and can entrap heavy metals and biocides; elevated or fluctuating turbidity in filtered water can indicate a problem with the water treatment process and a potential increased risk of pathogens in treated water.	ONDWS	AO/OG	71.7 NTU	5 NTU
	Water	Iron, dissolved	Based on taste and staining of laundry and plumbing fixtures; no evidence exists of dietary iron toxicity in the general population.	ONDWS	AO/OG	7.57 mg/L	0.3 mg/L
	Water	Manganese, dissolved	Based on taste and staining of laundry and plumbing fixtures.	ONDWS	AO/OG	0.771 mg/L	0.05 mg/L
	Water	Arsenic, dissolved	Health basis of MAC: Cancer (lung, bladder, liver, skin) (classified as human carcinogen). Other: Skin, vascular and neurological effects (numbness and tingling of extremities).	ONDWS	MAC	0.0114 mg/L	10 µg/L
	Water	Sodium, dissolved	Based on taste; where a sodium-based water softener is used, a separate unsoftened supply for cooking and drinking purposes is recommended.	ONDWS	MAC	43.8 mg/L	20 mg/L
OW-3S	Water	Colour, apparent	May interfere with disinfection; removal is important to ensure effective treatment.	ONDWS	AO/OG	637 CU	5 CU
	Water	Hardness (as CaCO ₃), dissolved	Hardness levels between 80 and 100 mg/L (as CaCO ₃) provide acceptable balance between corrosion and incrustation; where a water softener is used, a separate unsoftened supply for cooking and drinking purposes is recommended.	ONDWS	AO/OG	438 mg/L	80 - 100 mg/L



	Water	Turbidity	Filtration systems should be designed and operated to reduce turbidity levels as low as reasonably achievable and strive to achieve a treated water turbidity target from individual filters of less than 0.1 NTU. Particles can harbour microorganisms, protecting them from disinfection, and can entrap heavy metals and biocides; elevated or fluctuating turbidity in filtered water can indicate a problem with the water treatment process and a potential increased risk of pathogens in treated water.	ONDWS	AO/OG	163 NTU	5 NTU
	Water	Iron, dissolved	Based on taste and staining of laundry and plumbing fixtures; no evidence exists of dietary iron toxicity in the general population.	ONDWS	AO/OG	2.91 mg/L	0.3 mg/L
	Water	Manganese, dissolved	Based on taste and staining of laundry and plumbing fixtures.	ONDWS	AO/OG	0.415 mg/L	0.05 mg/L
OW-3D	Water	Alkalinity, total (as CaCO ₃)		ONDWS	AO/OG	850 mg/L	30 - 500 mg/L
	Water	Colour, apparent	May interfere with disinfection; removal is important to ensure effective treatment.	ONDWS	AO/OG	1160 CU	5 CU
	Water	Hardness (as CaCO ₃), dissolved	Hardness levels between 80 and 100 mg/L (as CaCO ₃) provide acceptable balance between corrosion and incrustation; where a water softener is used, a separate unsoftened supply for cooking and drinking purposes is recommended.	ONDWS	AO/OG	673 mg/L	80 - 100 mg/L
	Water	Solids, total dissolved [TDS]	Based on taste; TDS above 500 mg/L results in excessive scaling in water pipes, water heaters, boilers and appliances; TDS is composed of calcium, magnesium, sodium, potassium, carbonate, bicarbonate, chloride, sulphate and nitrate.	ONDWS	AO/OG	956 mg/L	500 mg/L
	Water	Turbidity	Filtration systems should be designed and operated to reduce turbidity levels as low as reasonably achievable and strive to achieve a treated water turbidity target from individual filters of less than 0.1 NTU. Particles can harbour microorganisms, protecting them from disinfection, and can entrap heavy metals and biocides; elevated or fluctuating turbidity in filtered water can indicate a problem with the water treatment process and a potential increased risk of pathogens in treated water.	ONDWS	AO/OG	234 NTU	5 NTU
	Water	Iron, dissolved	Based on taste and staining of laundry and plumbing fixtures; no evidence exists of dietary iron toxicity in the general population.	ONDWS	AO/OG	17.5 mg/L	0.3 mg/L
	Water	Manganese, dissolved	Based on taste and staining of laundry and plumbing fixtures.	ONDWS	AO/OG	0.491 mg/L	0.05 mg/L



	Water	Sodium, dissolved	Based on taste; where a sodium-based water softener is used, a separate unsoftened supply for cooking and drinking purposes is recommended.	ONDWS	MAC	38.9 mg/L	20 mg/L
	Water	Benzene	Health basis of MAC: Bone marrow (red and white blood cell) changes and cancer (classified as human carcinogen). Other: Blood system and immunological responses.	ONDWS	MAC	1.38 µg/L	1 µg/L
OW-5	Water	Colour, apparent	May interfere with disinfection; removal is important to ensure effective treatment.	ONDWS	AO/OG	221 CU	5 CU
	Water	Hardness (as CaCO ₃), dissolved	Hardness levels between 80 and 100 mg/L (as CaCO ₃) provide acceptable balance between corrosion and incrustation; where a water softener is used, a separate unsoftened supply for cooking and drinking purposes is recommended.	ONDWS	AO/OG	287 mg/L	80 - 100 mg/L
	Water	Turbidity	Filtration systems should be designed and operated to reduce turbidity levels as low as reasonably achievable and strive to achieve a treated water turbidity target from individual filters of less than 0.1 NTU. Particles can harbour microorganisms, protecting them from disinfection, and can entrap heavy metals and biocides; elevated or fluctuating turbidity in filtered water can indicate a problem with the water treatment process and a potential increased risk of pathogens in treated water.	ONDWS	AO/OG	141 NTU	5 NTU
OW-7S	Water	Alkalinity, total (as CaCO ₃)		ONDWS	AO/OG	597 mg/L	30 - 500 mg/L
	Water	Colour, apparent	May interfere with disinfection; removal is important to ensure effective treatment.	ONDWS	AO/OG	2570 CU	5 CU
	Water	Hardness (as CaCO ₃), dissolved	Hardness levels between 80 and 100 mg/L (as CaCO ₃) provide acceptable balance between corrosion and incrustation; where a water softener is used, a separate unsoftened supply for cooking and drinking purposes is recommended.	ONDWS	AO/OG	674 mg/L	80 - 100 mg/L
	Water	Solids, total dissolved [TDS]	Based on taste; TDS above 500 mg/L results in excessive scaling in water pipes, water heaters, boilers and appliances; TDS is composed of calcium, magnesium, sodium, potassium, carbonate, bicarbonate, chloride, sulphate and nitrate.	ONDWS	AO/OG	782 mg/L	500 mg/L



	Water	Turbidity	Filtration systems should be designed and operated to reduce turbidity levels as low as reasonably achievable and strive to achieve a treated water turbidity target from individual filters of less than 0.1 NTU. Particles can harbour microorganisms, protecting them from disinfection, and can entrap heavy metals and biocides; elevated or fluctuating turbidity in filtered water can indicate a problem with the water treatment process and a potential increased risk of pathogens in treated water.	ONDWS	AO/OG	649 NTU	5 NTU
	Water	Iron, dissolved	Based on taste and staining of laundry and plumbing fixtures; no evidence exists of dietary iron toxicity in the general population.	ONDWS	AO/OG	2.24 mg/L	0.3 mg/L
	Water	Manganese, dissolved	Based on taste and staining of laundry and plumbing fixtures.	ONDWS	AO/OG	0.613 mg/L	0.05 mg/L
OW-7D	Water	Alkalinity, total (as CaCO ₃)		ONDWS	AO/OG	595 mg/L	30 - 500 mg/L
	Water	Colour, apparent	May interfere with disinfection; removal is important to ensure effective treatment.	ONDWS	AO/OG	179 CU	5 CU
	Water	Hardness (as CaCO ₃), dissolved	Hardness levels between 80 and 100 mg/L (as CaCO ₃) provide acceptable balance between corrosion and incrustation; where a water softener is used, a separate unsoftened supply for cooking and drinking purposes is recommended.	ONDWS	AO/OG	679 mg/L	80 - 100 mg/L
	Water	Solids, total dissolved [TDS]	Based on taste; TDS above 500 mg/L results in excessive scaling in water pipes, water heaters, boilers and appliances; TDS is composed of calcium, magnesium, sodium, potassium, carbonate, bicarbonate, chloride, sulphate and nitrate.	ONDWS	AO/OG	781 mg/L	500 mg/L
	Water	Turbidity	Filtration systems should be designed and operated to reduce turbidity levels as low as reasonably achievable and strive to achieve a treated water turbidity target from individual filters of less than 0.1 NTU. Particles can harbour microorganisms, protecting them from disinfection, and can entrap heavy metals and biocides; elevated or fluctuating turbidity in filtered water can indicate a problem with the water treatment process and a potential increased risk of pathogens in treated water.	ONDWS	AO/OG	60.0 NTU	5 NTU
	Water	Iron, dissolved	Based on taste and staining of laundry and plumbing fixtures; no evidence exists of dietary iron toxicity in the general population.	ONDWS	AO/OG	2.45 mg/L	0.3 mg/L
	Water	Manganese, dissolved	Based on taste and staining of laundry and plumbing fixtures.	ONDWS	AO/OG	0.175 mg/L	0.05 mg/L



	Water	Sodium, dissolved	Based on taste; where a sodium-based water softener is used, a separate unsoftened supply for cooking and drinking purposes is recommended.	ONDWS	MAC	28.1 mg/L	20 mg/L
OW-8	Water	Colour, apparent	May interfere with disinfection; removal is important to ensure effective treatment.	ONDWS	AO/OG	33.1 CU	5 CU
	Water	Hardness (as CaCO ₃), dissolved	Hardness levels between 80 and 100 mg/L (as CaCO ₃) provide acceptable balance between corrosion and incrustation; where a water softener is used, a separate unsoftened supply for cooking and drinking purposes is recommended.	ONDWS	AO/OG	734 mg/L	80 - 100 mg/L
	Water	Solids, total dissolved [TDS]	Based on taste; TDS above 500 mg/L results in excessive scaling in water pipes, water heaters, boilers and appliances; TDS is composed of calcium, magnesium, sodium, potassium, carbonate, bicarbonate, chloride, sulphate and nitrate.	ONDWS	AO/OG	936 mg/L	500 mg/L
	Water	Turbidity	Filtration systems should be designed and operated to reduce turbidity levels as low as reasonably achievable and strive to achieve a treated water turbidity target from individual filters of less than 0.1 NTU. Particles can harbour microorganisms, protecting them from disinfection, and can entrap heavy metals and biocides; elevated or fluctuating turbidity in filtered water can indicate a problem with the water treatment process and a potential increased risk of pathogens in treated water.	ONDWS	AO/OG	20.8 NTU	5 NTU
	Water	Manganese, dissolved	Based on taste and staining of laundry and plumbing fixtures.	ONDWS	AO/OG	0.0744 mg/L	0.05 mg/L
OW-10S	Water	Colour, apparent	May interfere with disinfection; removal is important to ensure effective treatment.	ONDWS	AO/OG	1780 CU	5 CU
	Water	Hardness (as CaCO ₃), dissolved	Hardness levels between 80 and 100 mg/L (as CaCO ₃) provide acceptable balance between corrosion and incrustation; where a water softener is used, a separate unsoftened supply for cooking and drinking purposes is recommended.	ONDWS	AO/OG	305 mg/L	80 - 100 mg/L
	Water	Turbidity	Filtration systems should be designed and operated to reduce turbidity levels as low as reasonably achievable and strive to achieve a treated water turbidity target from individual filters of less than 0.1 NTU. Particles can harbour microorganisms, protecting them from disinfection, and can entrap heavy metals and biocides; elevated or fluctuating turbidity in filtered water can indicate a problem with the water treatment process and a potential increased risk of pathogens in treated water.	ONDWS	AO/OG	450 NTU	5 NTU



	Water	Manganese, dissolved	Based on taste and staining of laundry and plumbing fixtures.	ONDWS	AO/OG	0.335 mg/L	0.05 mg/L
OW-10D	Water	Colour, apparent	May interfere with disinfection; removal is important to ensure effective treatment.	ONDWS	AO/OG	1920 CU	5 CU
	Water	Hardness (as CaCO ₃), dissolved	Hardness levels between 80 and 100 mg/L (as CaCO ₃) provide acceptable balance between corrosion and incrustation; where a water softener is used, a separate unsoftened supply for cooking and drinking purposes is recommended.	ONDWS	AO/OG	320 mg/L	80 - 100 mg/L
	Water	Turbidity	Filtration systems should be designed and operated to reduce turbidity levels as low as reasonably achievable and strive to achieve a treated water turbidity target from individual filters of less than 0.1 NTU. Particles can harbour microorganisms, protecting them from disinfection, and can entrap heavy metals and biocides; elevated or fluctuating turbidity in filtered water can indicate a problem with the water treatment process and a potential increased risk of pathogens in treated water.	ONDWS	AO/OG	512 NTU	5 NTU
	Water	Manganese, dissolved	Based on taste and staining of laundry and plumbing fixtures.	ONDWS	AO/OG	0.682 mg/L	0.05 mg/L
OW-12S	Water	Colour, apparent	May interfere with disinfection; removal is important to ensure effective treatment.	ONDWS	AO/OG	927 CU	5 CU
	Water	Hardness (as CaCO ₃), dissolved	Hardness levels between 80 and 100 mg/L (as CaCO ₃) provide acceptable balance between corrosion and incrustation; where a water softener is used, a separate unsoftened supply for cooking and drinking purposes is recommended.	ONDWS	AO/OG	275 mg/L	80 - 100 mg/L
	Water	Turbidity	Filtration systems should be designed and operated to reduce turbidity levels as low as reasonably achievable and strive to achieve a treated water turbidity target from individual filters of less than 0.1 NTU. Particles can harbour microorganisms, protecting them from disinfection, and can entrap heavy metals and biocides; elevated or fluctuating turbidity in filtered water can indicate a problem with the water treatment process and a potential increased risk of pathogens in treated water.	ONDWS	AO/OG	368 NTU	5 NTU
OW-12D	Water	Colour, apparent	May interfere with disinfection; removal is important to ensure effective treatment.	ONDWS	AO/OG	65.3 CU	5 CU
	Water	Hardness (as CaCO ₃), dissolved	Hardness levels between 80 and 100 mg/L (as CaCO ₃) provide acceptable balance between corrosion and incrustation; where a water softener is used, a separate unsoftened supply for cooking and drinking purposes is recommended.	ONDWS	AO/OG	321 mg/L	80 - 100 mg/L



	Water	Turbidity	Filtration systems should be designed and operated to reduce turbidity levels as low as reasonably achievable and strive to achieve a treated water turbidity target from individual filters of less than 0.1 NTU. Particles can harbour microorganisms, protecting them from disinfection, and can entrap heavy metals and biocides; elevated or fluctuating turbidity in filtered water can indicate a problem with the water treatment process and a potential increased risk of pathogens in treated water.	ONDWS	AO/OG	14.5 NTU	5 NTU
OW-13S	Water	Colour, apparent	May interfere with disinfection; removal is important to ensure effective treatment.	ONDWS	AO/OG	5200 CU	5 CU
	Water	Hardness (as CaCO ₃), dissolved	Hardness levels between 80 and 100 mg/L (as CaCO ₃) provide acceptable balance between corrosion and incrustation; where a water softener is used, a separate unsoftened supply for cooking and drinking purposes is recommended.	ONDWS	AO/OG	303 mg/L	80 - 100 mg/L
	Water	Solids, total dissolved [TDS]	Based on taste; TDS above 500 mg/L results in excessive scaling in water pipes, water heaters, boilers and appliances; TDS is composed of calcium, magnesium, sodium, potassium, carbonate, bicarbonate, chloride, sulphate and nitrate.	ONDWS	AO/OG	512 mg/L	500 mg/L
	Water	Turbidity	Filtration systems should be designed and operated to reduce turbidity levels as low as reasonably achievable and strive to achieve a treated water turbidity target from individual filters of less than 0.1 NTU. Particles can harbour microorganisms, protecting them from disinfection, and can entrap heavy metals and biocides; elevated or fluctuating turbidity in filtered water can indicate a problem with the water treatment process and a potential increased risk of pathogens in treated water.	ONDWS	AO/OG	1840 NTU	5 NTU
OW-13D	Water	Alkalinity, total (as CaCO ₃)		ONDWS	AO/OG	510 mg/L	30 - 500 mg/L
	Water	Colour, apparent	May interfere with disinfection; removal is important to ensure effective treatment.	ONDWS	AO/OG	200 CU	5 CU
	Water	Hardness (as CaCO ₃), dissolved	Hardness levels between 80 and 100 mg/L (as CaCO ₃) provide acceptable balance between corrosion and incrustation; where a water softener is used, a separate unsoftened supply for cooking and drinking purposes is recommended.	ONDWS	AO/OG	526 mg/L	80 - 100 mg/L



	Water	Solids, total dissolved [TDS]	Based on taste; TDS above 500 mg/L results in excessive scaling in water pipes, water heaters, boilers and appliances; TDS is composed of calcium, magnesium, sodium, potassium, carbonate, bicarbonate, chloride, sulphate and nitrate.	ONDWS	AO/OG	620 mg/L	500 mg/L
	Water	Turbidity	Filtration systems should be designed and operated to reduce turbidity levels as low as reasonably achievable and strive to achieve a treated water turbidity target from individual filters of less than 0.1 NTU. Particles can harbour microorganisms, protecting them from disinfection, and can entrap heavy metals and biocides; elevated or fluctuating turbidity in filtered water can indicate a problem with the water treatment process and a potential increased risk of pathogens in treated water.	ONDWS	AO/OG	88.4 NTU	5 NTU
	Water	Iron, dissolved	Based on taste and staining of laundry and plumbing fixtures; no evidence exists of dietary iron toxicity in the general population.	ONDWS	AO/OG	2.12 mg/L	0.3 mg/L
	Water	Manganese, dissolved	Based on taste and staining of laundry and plumbing fixtures.	ONDWS	AO/OG	0.169 mg/L	0.05 mg/L
OW-16S	Water	Colour, apparent	May interfere with disinfection; removal is important to ensure effective treatment.	ONDWS	AO/OG	569 CU	5 CU
	Water	Hardness (as CaCO ₃), dissolved	Hardness levels between 80 and 100 mg/L (as CaCO ₃) provide acceptable balance between corrosion and incrustation; where a water softener is used, a separate unsoftened supply for cooking and drinking purposes is recommended.	ONDWS	AO/OG	365 mg/L	80 - 100 mg/L
	Water	Turbidity	Filtration systems should be designed and operated to reduce turbidity levels as low as reasonably achievable and strive to achieve a treated water turbidity target from individual filters of less than 0.1 NTU. Particles can harbour microorganisms, protecting them from disinfection, and can entrap heavy metals and biocides; elevated or fluctuating turbidity in filtered water can indicate a problem with the water treatment process and a potential increased risk of pathogens in treated water.	ONDWS	AO/OG	183 NTU	5 NTU
OW-16D	Water	Alkalinity, total (as CaCO ₃)		ONDWS	AO/OG	554 mg/L	30 - 500 mg/L
	Water	Colour, apparent	May interfere with disinfection; removal is important to ensure effective treatment.	ONDWS	AO/OG	63.0 CU	5 CU



	Water	Hardness (as CaCO ₃), dissolved	Hardness levels between 80 and 100 mg/L (as CaCO ₃) provide acceptable balance between corrosion and incrustation; where a water softener is used, a separate unsoftened supply for cooking and drinking purposes is recommended.	ONDWS	AO/OG	363 mg/L	80 - 100 mg/L
	Water	Solids, total dissolved [TDS]	Based on taste; TDS above 500 mg/L results in excessive scaling in water pipes, water heaters, boilers and appliances; TDS is composed of calcium, magnesium, sodium, potassium, carbonate, bicarbonate, chloride, sulphate and nitrate.	ONDWS	AO/OG	653 mg/L	500 mg/L
	Water	Turbidity	Filtration systems should be designed and operated to reduce turbidity levels as low as reasonably achievable and strive to achieve a treated water turbidity target from individual filters of less than 0.1 NTU. Particles can harbour microorganisms, protecting them from disinfection, and can entrap heavy metals and biocides; elevated or fluctuating turbidity in filtered water can indicate a problem with the water treatment process and a potential increased risk of pathogens in treated water.	ONDWS	AO/OG	42.3 NTU	5 NTU
OW-20S	Water	Alkalinity, total (as CaCO ₃)		ONDWS	AO/OG	948 mg/L	30 - 500 mg/L
	Water	Colour, apparent	May interfere with disinfection; removal is important to ensure effective treatment.	ONDWS	AO/OG	13600 CU	5 CU
	Water	Hardness (as CaCO ₃), dissolved	Hardness levels between 80 and 100 mg/L (as CaCO ₃) provide acceptable balance between corrosion and incrustation; where a water softener is used, a separate unsoftened supply for cooking and drinking purposes is recommended.	ONDWS	AO/OG	429 mg/L	80 - 100 mg/L
	Water	Solids, total dissolved [TDS]	Based on taste; TDS above 500 mg/L results in excessive scaling in water pipes, water heaters, boilers and appliances; TDS is composed of calcium, magnesium, sodium, potassium, carbonate, bicarbonate, chloride, sulphate and nitrate.	ONDWS	AO/OG	558 mg/L	500 mg/L
	Water	Turbidity	Filtration systems should be designed and operated to reduce turbidity levels as low as reasonably achievable and strive to achieve a treated water turbidity target from individual filters of less than 0.1 NTU. Particles can harbour microorganisms, protecting them from disinfection, and can entrap heavy metals and biocides; elevated or fluctuating turbidity in filtered water can indicate a problem with the water treatment process and a potential increased risk of pathogens in treated water.	ONDWS	AO/OG	>4000 NTU	5 NTU



	Water	Iron, dissolved	Based on taste and staining of laundry and plumbing fixtures; no evidence exists of dietary iron toxicity in the general population.	ONDWS	AO/OG	0.992 mg/L	0.3 mg/L
	Water	Manganese, dissolved	Based on taste and staining of laundry and plumbing fixtures.	ONDWS	AO/OG	0.349 mg/L	0.05 mg/L
	Water	Sodium, dissolved	Based on taste; where a sodium-based water softener is used, a separate unsoftened supply for cooking and drinking purposes is recommended.	ONDWS	MAC	30.4 mg/L	20 mg/L
OW-20D	Water	Alkalinity, total (as CaCO ₃)		ONDWS	AO/OG	590 mg/L	30 - 500 mg/L
	Water	Colour, apparent	May interfere with disinfection; removal is important to ensure effective treatment.	ONDWS	AO/OG	197 CU	5 CU
	Water	Hardness (as CaCO ₃), dissolved	Hardness levels between 80 and 100 mg/L (as CaCO ₃) provide acceptable balance between corrosion and incrustation; where a water softener is used, a separate unsoftened supply for cooking and drinking purposes is recommended.	ONDWS	AO/OG	734 mg/L	80 - 100 mg/L
	Water	Solids, total dissolved [TDS]	Based on taste; TDS above 500 mg/L results in excessive scaling in water pipes, water heaters, boilers and appliances; TDS is composed of calcium, magnesium, sodium, potassium, carbonate, bicarbonate, chloride, sulphate and nitrate.	ONDWS	AO/OG	873 mg/L	500 mg/L
	Water	Turbidity	Filtration systems should be designed and operated to reduce turbidity levels as low as reasonably achievable and strive to achieve a treated water turbidity target from individual filters of less than 0.1 NTU. Particles can harbour microorganisms, protecting them from disinfection, and can entrap heavy metals and biocides; elevated or fluctuating turbidity in filtered water can indicate a problem with the water treatment process and a potential increased risk of pathogens in treated water.	ONDWS	AO/OG	54.8 NTU	5 NTU
	Water	Iron, dissolved	Based on taste and staining of laundry and plumbing fixtures; no evidence exists of dietary iron toxicity in the general population.	ONDWS	AO/OG	3.28 mg/L	0.3 mg/L
	Water	Manganese, dissolved	Based on taste and staining of laundry and plumbing fixtures.	ONDWS	AO/OG	0.760 mg/L	0.05 mg/L
	Water	Sodium, dissolved	Based on taste; where a sodium-based water softener is used, a separate unsoftened supply for cooking and drinking purposes is recommended.	ONDWS	MAC	27.7 mg/L	20 mg/L



Key:

ONDWS	Ontario Drinking Water Regulation (JAN, 2020)
AO/OG	Aesthetic Objective/Operational Guideline (2006)
MAC	Schedule 1 (Microbiological) and 2 (Chemical) Standards (JAN,2020)



General Comments

The analytical methods used by ALS are developed using internationally recognized reference methods (where available), such as those published by US EPA, APHA Standard Methods, ASTM, ISO, Environment Canada, BC MOE, and Ontario MOE. Refer to the ALS Quality Control Interpretive report (QCI) for applicable references and methodology summaries. Reference methods may incorporate modifications to improve performance.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QA/QC Compliance Assessment to assist with Quality Review and Sample Receipt Notification.

When sampling time information is not provided by the client, sampling dates are shown without a time component. In these instances, the time component has been assumed by the laboratory for processing purposes.

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

Key: CAS Number: Chemical Abstracts Services number is a unique identifier assigned to discrete substances.

LOR: Limit of Reporting (detection limit).

Unit	Description
-	no units
CU	colour units (1 cu = 1 mg/l pt)
mg/L	milligrams per litre
NTU	nephelometric turbidity units
pH units	pH units
µg/L	micrograms per litre
µS/cm	microsiemens per centimetre

>: greater than.

<: less than.

Red shading is applied where the result or the LOR is greater than the Guideline Upper Limit (or lower than the Guideline Lower Limit, if applicable).

For drinking water samples, Red shading is applied where the result for E.coli, fecal or total coliforms is greater than or equal to the Guideline Upper Limit.

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED on SRN or QCI Report, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

Qualifiers

Qualifier	Description
DLDS	Detection Limit Raised: Dilution required due to high Dissolved Solids / Electrical Conductivity.
DLHC	Detection Limit Raised: Dilution required due to high concentration of test analyte(s).
DLM	Detection Limit Adjusted due to sample matrix effects (e.g. chemical interference, colour, turbidity).
DLUI	Detection Limit Raised: Unknown interference generated an apparent false positive test result.
TMV	Turbidity exceeded upper limit of the nephelometric method. Minimum value reported.



Analytical Results

SubMatrix: (Matrix: Water)	Water Water	Client sample ID				OW-1	OW-2S	OW-2D	OW-3S				
		Client sampling date / time				29-Apr-2025 00:00	29-Apr-2025 00:00	29-Apr-2025 00:00	29-Apr-2025 00:00				
Analyte	CAS Number	Method/Lab	LOR	Unit	WT2509690-001	WT2509690-002	WT2509690-003	WT2509690-004	ONDWS AQ/OG	ONDWS MAC	----	----	
Physical Tests													
Alkalinity, total (as CaCO3)	----	E290/WT	1.0	mg/L	394	655	685	387	30 - 500 mg/L	----	----	----	
Colour, apparent	----	E330/WT	2.0	CU	200	194	104	637	5 CU	----	----	----	
Conductivity	----	E100/WT	1.0	µS/cm	690	1070	1350	624	----	----	----	----	
Hardness (as CaCO3), dissolved	----	EC100/WT	0.50	mg/L	456	697	664	438	80 - 100 mg/L	----	----	----	
pH	----	E108/WT	0.10	pH units	7.74	7.46	7.46	7.69	6.5 - 8.5 pH units	----	----	----	
Solids, total dissolved [TDS]	----	E162/WT	10	mg/L	417 DLDS	648 DLDS	755 DLDS	382 DLDS	500 mg/L	----	----	----	
Turbidity	----	E121/WT	0.10	NTU	73.5	98.9	71.7	163	5 NTU	----	----	----	
Anions and Nutrients													
Ammonia, total (as N)	7664-41-7	E298/WT	0.0050	mg/L	<0.0050	0.0084	10.2	0.0317	----	----	----	----	
Chloride	16887-00-6	E235.Cl/WT	0.50	mg/L	2.18	<2.50 DLDS	35.7 DLDS	<0.50	250 mg/L	----	----	----	
Fluoride	16984-48-8	E235.F/WT	0.020	mg/L	0.030	<0.100 DLDS	<0.100 DLDS	0.027	----	1500 µg/L	----	----	
Nitrate (as N)	14797-55-8	E235.NO3/WT	0.020	mg/L	0.196	<0.100 DLDS	<0.100 DLDS	<0.020	----	10000 µg/L	----	----	
Nitrite (as N)	14797-65-0	E235.NO2/WT	0.010	mg/L	<0.010	<0.050 DLDS	<0.050 DLDS	<0.010	----	1000 µg/L	----	----	
Phosphate, ortho-, dissolved (as P)	14265-44-2	E378-U/WT	0.0010	mg/L	0.0030	<0.0010	<0.0010	<0.0010	----	----	----	----	
Sulfate (as SO4)	14808-79-8	E235.SO4/WT	0.30	mg/L	11.0	12.7 DLDS	57.8 DLDS	0.71	500 mg/L	----	----	----	
Dissolved Metals													
Aluminum, dissolved	7429-90-5	E421/WT	0.0010	mg/L	0.0016	0.0065	0.0057	0.0095	0.1 mg/L	----	----	----	
Antimony, dissolved	7440-36-0	E421/WT	0.00010	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	----	6 µg/L	----	----	
Arsenic, dissolved	7440-38-2	E421/WT	0.00010	mg/L	0.00019	0.00128 DLM	0.0114	0.00226	----	10 µg/L	----	----	
Barium, dissolved	7440-39-3	E421/WT	0.00010	mg/L	0.0396	0.0774	0.234	0.0821	----	1000 µg/L	----	----	
Beryllium, dissolved	7440-41-7	E421/WT	0.000020	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	----	----	----	----	
Bismuth, dissolved	7440-69-9	E421/WT	0.000050	mg/L	<0.000050	<0.000050	<0.000050	<0.000050	----	----	----	----	
Boron, dissolved	7440-42-8	E421/WT	0.010	mg/L	0.090	0.306	0.582	0.149	----	5000 µg/L	----	----	
Cadmium, dissolved	7440-43-9	E421/WT	0.0000050	mg/L	0.0000168	<0.0000050	<0.0000050	<0.0000050	----	5 µg/L	----	----	
Calcium, dissolved	7440-70-2	E421/WT	0.050	mg/L	112	156	149	121	----	----	----	----	
Cesium, dissolved	7440-46-2	E421/WT	0.000010	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	----	----	----	----	
Chromium, dissolved	7440-47-3	E421/WT	0.00050	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	----	50 µg/L	----	----	
Cobalt, dissolved	7440-48-4	E421/WT	0.00010	mg/L	0.00024	0.00155	0.00789	0.00113	----	----	----	----	
Copper, dissolved	7440-50-8	E421/WT	0.00020	mg/L	0.00075	0.00028	0.00083	0.00033	1 mg/L	----	----	----	
Iron, dissolved	7439-89-6	E421/WT	0.010	mg/L	0.138	0.940	7.57	2.91	0.3 mg/L	----	----	----	
Lead, dissolved	7439-92-1	E421/WT	0.000050	mg/L	0.000051	0.000149	0.000269	0.000113	----	10 µg/L	----	----	
Lithium, dissolved	7439-93-2	E421/WT	0.0010	mg/L	0.0015	0.0077	0.0028	<0.0010	----	----	----	----	



SubMatrix: Water (Matrix: Water)	Client sample ID				OW-1	OW-2S	OW-2D	OW-3S				
	Client sampling date / time				29-Apr-2025 00:00	29-Apr-2025 00:00	29-Apr-2025 00:00	29-Apr-2025 00:00				
Analyte	CAS Number	Method/Lab	LOR	Unit	WT2509690-001	WT2509690-002	WT2509690-003	WT2509690-004	ONDWS AOIOG	ONDWS MAC	----	----
Dissolved Metals												
Magnesium, dissolved	7439-95-4	E421/WT	0.0050	mg/L	42.8	74.6	70.8	32.9	----	----	----	----
Manganese, dissolved	7439-96-5	E421/WT	0.00010	mg/L	0.0353	0.297	0.771	0.415	0.05 mg/L	----	----	----
Molybdenum, dissolved	7439-98-7	E421/WT	0.000050	mg/L	0.000214	0.000218	0.000778	0.000431	----	----	----	----
Nickel, dissolved	7440-02-0	E421/WT	0.00050	mg/L	0.00110	0.00326	0.0204	0.00157	----	----	----	----
Phosphorus, dissolved	7723-14-0	E421/WT	0.050	mg/L	<0.050	<0.050	<0.050	<0.050	----	----	----	----
Potassium, dissolved	7440-09-7	E421/WT	0.050	mg/L	2.24	2.41	14.8	4.88	----	----	----	----
Rubidium, dissolved	7440-17-7	E421/WT	0.00020	mg/L	0.00081	0.00089	0.00394	0.00133	----	----	----	----
Selenium, dissolved	7782-49-2	E421/WT	0.000050	mg/L	0.000138	<0.000500 DLM	0.000154	0.000292	----	50 µg/L	----	----
Silicon, dissolved	7440-21-3	E421/WT	0.050	mg/L	4.88	8.26	7.35	3.98	----	----	----	----
Silver, dissolved	7440-22-4	E421/WT	0.000010	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	----	----	----	----
Sodium, dissolved	7440-23-5	E421/WT	0.050	mg/L	6.65	11.3	43.8	7.81	200 mg/L	20 mg/L	----	----
Strontium, dissolved	7440-24-6	E421/WT	0.00020	mg/L	0.176	0.231	0.415	0.243	----	----	----	----
Sulfur, dissolved	7704-34-9	E421/WT	0.50	mg/L	7.93	6.13	15.5	5.83	----	----	----	----
Tellurium, dissolved	13494-80-9	E421/WT	0.00020	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	----	----	----	----
Thallium, dissolved	7440-28-0	E421/WT	0.000010	mg/L	0.000030	0.000042	0.000238	<0.000010	----	----	----	----
Thorium, dissolved	7440-29-1	E421/WT	0.00010	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	----	----	----	----
Tin, dissolved	7440-31-5	E421/WT	0.00010	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	----	----	----	----
Titanium, dissolved	7440-32-6	E421/WT	0.00030	mg/L	<0.00030	0.00030	0.00032	0.00051	----	----	----	----
Tungsten, dissolved	7440-33-7	E421/WT	0.00010	mg/L	0.00011	0.00034	<0.00010	0.00011	----	----	----	----
Uranium, dissolved	7440-61-1	E421/WT	0.000010	mg/L	0.000650	0.000574	0.000992	0.000507	----	20 µg/L	----	----
Vanadium, dissolved	7440-62-2	E421/WT	0.00050	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	----	----	----	----
Zinc, dissolved	7440-66-6	E421/WT	0.0010	mg/L	0.0084	0.0044	0.0175	0.0036	5 mg/L	----	----	----
Zirconium, dissolved	7440-67-7	E421/WT	0.00020	mg/L	<0.00020	<0.00020	0.00100	0.00034	----	----	----	----
Dissolved metals filtration location	----	EP421/WT	-	-	Field	Field	Field	Field	----	----	----	----
Volatile Organic Compounds												
Acetone	67-64-1	E611D/WT	20	µg/L	<20	<20	<20	<20	----	----	----	----
Benzene	71-43-2	E611D/WT	0.50	µg/L	<0.50	<0.50	<0.50	<0.50	----	1 µg/L	----	----
Bromodichloromethane	75-27-4	E611D/WT	0.50	µg/L	<0.50	<0.50	<0.50	<0.50	----	----	----	----
Bromoform	75-25-2	E611D/WT	0.50	µg/L	<0.50	<0.50	<0.50	<0.50	----	----	----	----
Bromomethane	74-83-9	E611D/WT	0.50	µg/L	<0.50	<0.50	<0.50	<0.50	----	----	----	----
Carbon tetrachloride	56-23-5	E611D/WT	0.20	µg/L	<0.20	<0.20	<0.20	<0.20	----	2 µg/L	----	----
Chlorobenzene	108-90-7	E611D/WT	0.50	µg/L	<0.50	<0.50	<0.50	<0.50	0.03 mg/L	80 µg/L	----	----



SubMatrix: Water (Matrix: Water)	Client sample ID				Client sampling date / time							
	CAS Number	Method/Lab	LOR	Unit	OW-1	OW-2S	OW-2D	OW-3S	ONDWS AOIOG	ONDWS MAC	----	----
					29-Apr-2025 00:00	29-Apr-2025 00:00	29-Apr-2025 00:00	29-Apr-2025 00:00				
Analyte	CAS Number	Method/Lab	LOR	Unit	WT2509690-001	WT2509690-002	WT2509690-003	WT2509690-004				
Volatile Organic Compounds												
Chloroform	67-66-3	E611D/WT	0.50	µg/L	<0.50	<0.50	<0.50	<0.50	----	----	----	----
Dibromochloromethane	124-48-1	E611D/WT	0.50	µg/L	<0.50	<0.50	<0.50	<0.50	----	----	----	----
Dibromoethane, 1,2-	106-93-4	E611D/WT	0.20	µg/L	<0.20	<0.20	<0.20	<0.20	----	----	----	----
Dichlorobenzene, 1,2-	95-50-1	E611D/WT	0.50	µg/L	<0.50	<0.50	<0.50	<0.50	0.003 mg/L	200 µg/L	----	----
Dichlorobenzene, 1,3-	541-73-1	E611D/WT	0.50	µg/L	<0.50	<0.50	<0.50	<0.50	----	----	----	----
Dichlorobenzene, 1,4-	106-46-7	E611D/WT	0.50	µg/L	<0.50	<0.50	<0.50	<0.50	0.001 mg/L	5 µg/L	----	----
Dichlorodifluoromethane	75-71-8	E611D/WT	0.50	µg/L	<0.50	<0.50	0.69	<0.50	----	----	----	----
Dichloroethane, 1,1-	75-34-3	E611D/WT	0.50	µg/L	<0.50	<0.50	<0.50	<0.50	----	----	----	----
Dichloroethane, 1,2-	107-06-2	E611D/WT	0.50	µg/L	<0.50	<0.50	<0.50	<0.50	----	5 µg/L	----	----
Dichloroethylene, 1,1-	75-35-4	E611D/WT	0.50	µg/L	<0.50	<0.50	<0.50	<0.50	----	14 µg/L	----	----
Dichloroethylene, cis-1,2-	156-59-2	E611D/WT	0.50	µg/L	<0.50	<0.50	<0.50	<0.50	----	----	----	----
Dichloroethylene, trans-1,2-	156-60-5	E611D/WT	0.50	µg/L	<0.50	<0.50	<0.50	<0.50	----	----	----	----
Dichloromethane	75-09-2	E611D/WT	1.0	µg/L	<1.0	<1.0	<1.0	<1.0	----	50 µg/L	----	----
Dichloropropane, 1,2-	78-87-5	E611D/WT	0.50	µg/L	<0.50	<0.50	<0.50	<0.50	----	----	----	----
Dichloropropylene, cis-1,3-	10061-01-5	E611D/WT	0.30	µg/L	<0.30	<0.30	<0.30	<0.30	----	----	----	----
Dichloropropylene, cis+trans-1,3-	542-75-6	E611D/WT	0.50	µg/L	<0.50	<0.50	<0.50	<0.50	----	----	----	----
Dichloropropylene, trans-1,3-	10061-02-6	E611D/WT	0.30	µg/L	<0.30	<0.30	<0.30	<0.30	----	----	----	----
Ethylbenzene	100-41-4	E611D/WT	0.50	µg/L	<0.50	<0.50	<0.50	<0.50	0.0024 mg/L	140 µg/L	----	----
Hexane, n-	110-54-3	E611D/WT	0.50	µg/L	<0.50	<0.50	<0.50	<0.50	----	----	----	----
Methyl ethyl ketone [MEK]	78-93-3	E611D/WT	20	µg/L	<20	<20	<20	<20	----	----	----	----
Methyl isobutyl ketone [MIBK]	108-10-1	E611D/WT	20	µg/L	<20	<20	<20	<20	----	----	----	----
Methyl-tert-butyl ether [MTBE]	1634-04-4	E611D/WT	0.50	µg/L	<0.50	<0.50	<0.50	<0.50	----	15 µg/L	----	----
Styrene	100-42-5	E611D/WT	0.50	µg/L	<0.50	<0.50	<0.50	<0.50	----	----	----	----
Tetrachloroethane, 1,1,1,2-	630-20-6	E611D/WT	0.50	µg/L	<0.50	<0.50	<0.50	<0.50	----	----	----	----
Tetrachloroethane, 1,1,2,2-	79-34-5	E611D/WT	0.50	µg/L	<0.50	<0.50	<0.50	<0.50	----	----	----	----
Tetrachloroethylene	127-18-4	E611D/WT	0.50	µg/L	<0.50	<0.50	<0.50	<0.50	----	10 µg/L	----	----
Toluene	108-88-3	E611D/WT	0.50	µg/L	<0.50	<0.50	<0.50	<0.50	0.024 mg/L	60 µg/L	----	----
Trichloroethane, 1,1,1-	71-55-6	E611D/WT	0.50	µg/L	<0.50	<0.50	<0.50	<0.50	----	----	----	----
Trichloroethane, 1,1,2-	79-00-5	E611D/WT	0.50	µg/L	<0.50	<0.50	<0.50	<0.50	----	----	----	----
Trichloroethylene	79-01-6	E611D/WT	0.50	µg/L	<0.50	<0.50	<0.50	<0.50	----	5 µg/L	----	----
Trichlorofluoromethane	75-69-4	E611D/WT	0.50	µg/L	<0.50	<0.50	<0.50	<0.50	----	----	----	----
Vinyl chloride	75-01-4	E611D/WT	0.20	µg/L	<0.20	<0.20	<0.20	<0.20	----	1 µg/L	----	----



SubMatrix: (Matrix: Water Water)	Client sample ID				OW-1	OW-2S	OW-2D	OW-3S					
	Client sampling date / time				29-Apr-2025 00:00	29-Apr-2025 00:00	29-Apr-2025 00:00	29-Apr-2025 00:00					
	Analyte	CAS Number	Method/Lab	LOR	Unit					ONDWS AQ/OG	ONDWS MAC	----	----
					WT2509690-001	WT2509690-002	WT2509690-003	WT2509690-004					
Volatile Organic Compounds													
Xylene, m+p-	179601-23-1	E611D/WT	0.40	µg/L	<0.40	<0.40	<0.40	<0.40	----	----	----	----	----
Xylene, o-	95-47-6	E611D/WT	0.30	µg/L	<0.30	<0.30	<0.30	<0.30	----	----	----	----	----
Xylenes, total	1330-20-7	E611D/WT	0.50	µg/L	<0.50	<0.50	<0.50	<0.50	0.3 mg/L	90 µg/L	----	----	----
BTEX, total	----	E611D/WT	1.0	µg/L	<1.0	<1.0	<1.0	<1.0	----	----	----	----	----
Volatile Organic Compounds Surrogates													
Bromofluorobenzene, 4-	460-00-4	E611D/WT	1.0	%	93.4	93.6	94.1	93.0	----	----	----	----	----
Difluorobenzene, 1,4-	540-36-3	E611D/WT	1.0	%	99.2	99.2	99.0	98.7	----	----	----	----	----

Please refer to the General Comments section for an explanation of any result qualifiers detected.

SubMatrix: (Matrix: Water)	CAS Number	Method/Lab	LOR	Unit	Client sample ID				ONDWS AO/OG	ONDWS MAC	----	----
					OW-3D	OW-5	OW-7S	OW-7D				
Client sampling date / time												
Analyte					WT2509690-005	WT2509690-006	WT2509690-007	WT2509690-008				
Physical Tests												
Alkalinity, total (as CaCO3)	----	E290/WT	1.0	mg/L	850	279	597	595	30 - 500 mg/L	----	----	----
Colour, apparent	----	E330/WT	2.0	CU	1160	221	2570	179	5 CU	----	----	----
Conductivity	----	E100/WT	1.0	µS/cm	1700	472	1150	1310	----	----	----	----
Hardness (as CaCO3), dissolved	----	EC100/WT	0.50	mg/L	673	287	674	679	80 - 100 mg/L	----	----	----
pH	----	E108/WT	0.10	pH units	7.33	8.02	7.42	7.70	6.5 - 8.5 pH units	----	----	----
Solids, total dissolved [TDS]	----	E162/WT	10	mg/L	956 DLDS	295 DLDS	782 DLDS	781 DLDS	500 mg/L	----	----	----
Turbidity	----	E121/WT	0.10	NTU	234	141	649	60.0	5 NTU	----	----	----
Anions and Nutrients												
Ammonia, total (as N)	7664-41-7	E298/WT	0.0050	mg/L	37.7	<0.0050	0.249	8.66	----	----	----	----
Chloride	16887-00-6	E235.Cl/WT	0.50	mg/L	35.0 DLDS	2.21	28.7 DLDS	32.4 DLDS	250 mg/L	----	----	----
Fluoride	16984-48-8	E235.F/WT	0.020	mg/L	<0.100 DLDS	0.039	<0.100 DLDS	<0.100 DLDS	----	1500 µg/L	----	----
Nitrate (as N)	14797-55-8	E235.NO3/WT	0.020	mg/L	<0.100 DLDS	0.498	<0.100 DLDS	2.81 DLDS	----	10000 µg/L	----	----
Nitrite (as N)	14797-65-0	E235.NO2/WT	0.010	mg/L	<0.050 DLDS	<0.010	<0.050 DLDS	<0.050 DLDS	----	1000 µg/L	----	----
Phosphate, ortho-, dissolved (as P)	14265-44-2	E378-U/WT	0.0010	mg/L	<0.0010	0.0053	<0.0010	<0.0010	----	----	----	----
Sulfate (as SO4)	14808-79-8	E235.SO4/WT	0.30	mg/L	119 DLDS	3.05	108 DLDS	118 DLDS	500 mg/L	----	----	----
Dissolved Metals												
Aluminum, dissolved	7429-90-5	E421/WT	0.0010	mg/L	0.0319 DLHC	<0.0010	0.0043	0.0026	0.1 mg/L	----	----	----
Antimony, dissolved	7440-36-0	E421/WT	0.00010	mg/L	<0.00100 DLHC	<0.00010	<0.00010	<0.00010	----	6 µg/L	----	----
Arsenic, dissolved	7440-38-2	E421/WT	0.00010	mg/L	0.00664 DLHC	0.00013	0.00080	0.00110	----	10 µg/L	----	----
Barium, dissolved	7440-39-3	E421/WT	0.00010	mg/L	0.359 DLHC	0.00808	0.0931	0.117	----	1000 µg/L	----	----
Beryllium, dissolved	7440-41-7	E421/WT	0.000020	mg/L	<0.0000200 DLHC	<0.000020	<0.000020	<0.000020	----	----	----	----



SubMatrix: (Matrix: Water Water)	Client sample ID				OW-3D	OW-5	OW-7S	OW-7D					
	Client sampling date / time				29-Apr-2025 00:00	29-Apr-2025 00:00	29-Apr-2025 00:00	29-Apr-2025 00:00					
	Analyte	CAS Number	Method/Lab	LOR	Unit					ONDWS AQ/OG	ONDWS MAC	----	----
					WT2509690-005	WT2509690-006	WT2509690-007	WT2509690-008					
Dissolved Metals													
Bismuth, dissolved	7440-69-9	E421/WT	0.000050	mg/L	<0.000500 DLHC	<0.000050	<0.000050	<0.000050	----	----	----	----	----
Boron, dissolved	7440-42-8	E421/WT	0.010	mg/L	0.925 DLHC	0.019	0.187	0.521	----	5000 µg/L	----	----	----
Cadmium, dissolved	7440-43-9	E421/WT	0.0000050	mg/L	<0.0000500 DLHC	0.0000056	0.0000616	0.0000227	----	5 µg/L	----	----	----
Calcium, dissolved	7440-70-2	E421/WT	0.050	mg/L	161 DLHC	74.7	178	149	----	----	----	----	----
Cesium, dissolved	7440-46-2	E421/WT	0.000010	mg/L	<0.000100 DLHC	<0.000010	<0.000010	<0.000010	----	----	----	----	----
Chromium, dissolved	7440-47-3	E421/WT	0.00050	mg/L	<0.00500 DLHC	<0.00050	<0.00050	<0.00050	----	50 µg/L	----	----	----
Cobalt, dissolved	7440-48-4	E421/WT	0.00010	mg/L	<0.00100 DLHC	<0.00010	0.00171	0.00179	----	----	----	----	----
Copper, dissolved	7440-50-8	E421/WT	0.00020	mg/L	<0.00200 DLHC	0.00052	0.00155	0.00048	1 mg/L	----	----	----	----
Iron, dissolved	7439-89-6	E421/WT	0.010	mg/L	17.5 DLHC	0.028	2.24	2.45	0.3 mg/L	----	----	----	----
Lead, dissolved	7439-92-1	E421/WT	0.000050	mg/L	<0.000500 DLHC	<0.000050	<0.000050	0.000265	----	10 µg/L	----	----	----
Lithium, dissolved	7439-93-2	E421/WT	0.0010	mg/L	<0.0100 DLHC	<0.0010	<0.0010	0.0022	----	----	----	----	----
Magnesium, dissolved	7439-95-4	E421/WT	0.0050	mg/L	65.8 DLHC	24.5	55.7	74.6	----	----	----	----	----
Manganese, dissolved	7439-96-5	E421/WT	0.00010	mg/L	0.491 DLHC	0.00320	0.613	0.175	0.05 mg/L	----	----	----	----
Molybdenum, dissolved	7439-98-7	E421/WT	0.000050	mg/L	<0.000500 DLHC	0.000133	0.000681	0.000463	----	----	----	----	----
Nickel, dissolved	7440-02-0	E421/WT	0.00050	mg/L	<0.00500 DLHC	<0.00050	0.00257	0.00700	----	----	----	----	----
Phosphorus, dissolved	7723-14-0	E421/WT	0.050	mg/L	<0.500 DLHC	<0.050	<0.050	<0.050	----	----	----	----	----
Potassium, dissolved	7440-09-7	E421/WT	0.050	mg/L	25.6 DLHC	1.22	2.59	20.9	----	----	----	----	----
Rubidium, dissolved	7440-17-7	E421/WT	0.00020	mg/L	0.00603 DLHC	0.00030	0.00054	0.00600	----	----	----	----	----
Selenium, dissolved	7782-49-2	E421/WT	0.000050	mg/L	0.000610 DLHC	0.000083	0.000198	0.000084	----	50 µg/L	----	----	----
Silicon, dissolved	7440-21-3	E421/WT	0.050	mg/L	5.62 DLHC	2.06	5.12	5.94	----	----	----	----	----
Silver, dissolved	7440-22-4	E421/WT	0.000010	mg/L	<0.000100 DLHC	<0.000010	<0.000010	<0.000010	----	----	----	----	----
Sodium, dissolved	7440-23-5	E421/WT	0.050	mg/L	38.9 DLHC	1.61	18.1	28.1	200 mg/L	20 mg/L	----	----	----
Strontium, dissolved	7440-24-6	E421/WT	0.00020	mg/L	0.575 DLHC	0.0826	0.263	0.404	----	----	----	----	----
Sulfur, dissolved	7704-34-9	E421/WT	0.50	mg/L	31.4 DLHC	1.03	37.2	40.0	----	----	----	----	----
Tellurium, dissolved	13494-80-9	E421/WT	0.00020	mg/L	<0.00200 DLHC	<0.00020	<0.00020	<0.00020	----	----	----	----	----
Thallium, dissolved	7440-28-0	E421/WT	0.000010	mg/L	<0.000100 DLHC	<0.000010	<0.000010	0.000378	----	----	----	----	----
Thorium, dissolved	7440-29-1	E421/WT	0.00010	mg/L	<0.00100 DLHC	<0.00010	<0.00010	<0.00010	----	----	----	----	----
Tin, dissolved	7440-31-5	E421/WT	0.00010	mg/L	<0.00100 DLHC	0.00011	<0.00010	<0.00010	----	----	----	----	----
Titanium, dissolved	7440-32-6	E421/WT	0.00030	mg/L	<0.00300 DLHC	<0.00030	0.00036	<0.00030	----	----	----	----	----
Tungsten, dissolved	7440-33-7	E421/WT	0.00010	mg/L	<0.00100 DLHC	<0.00010	<0.00010	<0.00010	----	----	----	----	----
Uranium, dissolved	7440-61-1	E421/WT	0.000010	mg/L	0.000284 DLHC	0.000184	0.00368	0.00125	----	20 µg/L	----	----	----
Vanadium, dissolved	7440-62-2	E421/WT	0.00050	mg/L	<0.00500 DLHC	<0.00050	<0.00050	<0.00050	----	----	----	----	----



SubMatrix: Water (Matrix: Water)	Client sample ID				OW-3D	OW-5	OW-7S	OW-7D				
	Client sampling date / time				29-Apr-2025 00:00	29-Apr-2025 00:00	29-Apr-2025 00:00	29-Apr-2025 00:00				
Analyte	CAS Number	Method/Lab	LOR	Unit	WT2509690-005	WT2509690-006	WT2509690-007	WT2509690-008	ONDWS AOIOG	ONDWS MAC	----	----
Dissolved Metals												
Zinc, dissolved	7440-66-6	E421/WT	0.0010	mg/L	<0.0100 DLHC	<0.0010	0.0377	0.0630	5 mg/L	----	----	----
Zirconium, dissolved	7440-67-7	E421/WT	0.00020	mg/L	<0.00200 DLHC	<0.00020	0.00112	0.00049	----	----	----	----
Dissolved metals filtration location	----	EP421/WT	-	-	Field	Field	Field	Field	----	----	----	----
Volatile Organic Compounds												
Acetone	67-64-1	E611D/WT	20	µg/L	<20	<20	<20	<20	----	----	----	----
Benzene	71-43-2	E611D/WT	0.50	µg/L	1.38	<0.50	<0.50	<0.50	----	1 µg/L	----	----
Bromodichloromethane	75-27-4	E611D/WT	0.50	µg/L	<0.50	<0.50	<0.50	<0.50	----	----	----	----
Bromoform	75-25-2	E611D/WT	0.50	µg/L	<0.50	<0.50	<0.50	<0.50	----	----	----	----
Bromomethane	74-83-9	E611D/WT	0.50	µg/L	<0.50	<0.50	<0.50	<0.50	----	----	----	----
Carbon tetrachloride	56-23-5	E611D/WT	0.20	µg/L	<0.20	<0.20	<0.20	<0.20	----	2 µg/L	----	----
Chlorobenzene	108-90-7	E611D/WT	0.50	µg/L	<0.50	<0.50	<0.50	<0.50	0.03 mg/L	80 µg/L	----	----
Chloroform	67-66-3	E611D/WT	0.50	µg/L	<0.50	<0.50	<0.50	<0.50	----	----	----	----
Dibromochloromethane	124-48-1	E611D/WT	0.50	µg/L	<0.50	<0.50	<0.50	<0.50	----	----	----	----
Dibromoethane, 1,2-	106-93-4	E611D/WT	0.20	µg/L	<0.20	<0.20	<0.20	<0.20	----	----	----	----
Dichlorobenzene, 1,2-	95-50-1	E611D/WT	0.50	µg/L	<0.50	<0.50	<0.50	<0.50	0.003 mg/L	200 µg/L	----	----
Dichlorobenzene, 1,3-	541-73-1	E611D/WT	0.50	µg/L	<0.50	<0.50	<0.50	<0.50	----	----	----	----
Dichlorobenzene, 1,4-	106-46-7	E611D/WT	0.50	µg/L	<0.50	<0.50	<0.50	<0.50	0.001 mg/L	5 µg/L	----	----
Dichlorodifluoromethane	75-71-8	E611D/WT	0.50	µg/L	1.88	<0.50	<0.50	<0.50	----	----	----	----
Dichloroethane, 1,1-	75-34-3	E611D/WT	0.50	µg/L	<0.50	<0.50	<0.50	<0.50	----	----	----	----
Dichloroethane, 1,2-	107-06-2	E611D/WT	0.50	µg/L	<0.50	<0.50	<0.50	<0.50	----	5 µg/L	----	----
Dichloroethylene, 1,1-	75-35-4	E611D/WT	0.50	µg/L	<0.50	<0.50	<0.50	<0.50	----	14 µg/L	----	----
Dichloroethylene, cis-1,2-	156-59-2	E611D/WT	0.50	µg/L	<0.50	<0.50	<0.50	<0.50	----	----	----	----
Dichloroethylene, trans-1,2-	156-60-5	E611D/WT	0.50	µg/L	<0.50	<0.50	<0.50	<0.50	----	----	----	----
Dichloromethane	75-09-2	E611D/WT	1.0	µg/L	<1.0	<1.0	<1.0	<1.0	----	50 µg/L	----	----
Dichloropropane, 1,2-	78-87-5	E611D/WT	0.50	µg/L	<0.50	<0.50	<0.50	<0.50	----	----	----	----
Dichloropropylene, cis-1,3-	10061-01-5	E611D/WT	0.30	µg/L	<0.30	<0.30	<0.30	<0.30	----	----	----	----
Dichloropropylene, cis+trans-1,3-	542-75-6	E611D/WT	0.50	µg/L	<0.50	<0.50	<0.50	<0.50	----	----	----	----
Dichloropropylene, trans-1,3-	10061-02-6	E611D/WT	0.30	µg/L	<0.30	<0.30	<0.30	<0.30	----	----	----	----
Ethylbenzene	100-41-4	E611D/WT	0.50	µg/L	<0.50	<0.50	<0.50	<0.50	0.0024 mg/L	140 µg/L	----	----
Hexane, n-	110-54-3	E611D/WT	0.50	µg/L	<0.50	<0.50	<0.50	<0.50	----	----	----	----
Methyl ethyl ketone [MEK]	78-93-3	E611D/WT	20	µg/L	<20	<20	<20	<20	----	----	----	----
Methyl isobutyl ketone [MIBK]	108-10-1	E611D/WT	20	µg/L	<20	<20	<20	<20	----	----	----	----



SubMatrix: (Matrix: Water Water)	Client sample ID				OW-3D	OW-5	OW-7S	OW-7D				
	Client sampling date / time				29-Apr-2025 00:00	29-Apr-2025 00:00	29-Apr-2025 00:00	29-Apr-2025 00:00				
Analyte	CAS Number	Method/Lab	LOR	Unit	WT2509690-005	WT2509690-006	WT2509690-007	WT2509690-008	ONDWS AQ/OG	ONDWS MAC	----	----
Volatile Organic Compounds												
Methyl-tert-butyl ether [MTBE]	1634-04-4	E611D/WT	0.50	µg/L	<0.50	<0.50	<0.50	<0.50	----	15 µg/L	----	----
Styrene	100-42-5	E611D/WT	0.50	µg/L	<0.50	<0.50	<0.50	<0.50	----	----	----	----
Tetrachloroethane, 1,1,1,2-	630-20-6	E611D/WT	0.50	µg/L	<0.50	<0.50	<0.50	<0.50	----	----	----	----
Tetrachloroethane, 1,1,2,2-	79-34-5	E611D/WT	0.50	µg/L	<0.50	<0.50	<0.50	<0.50	----	----	----	----
Tetrachloroethylene	127-18-4	E611D/WT	0.50	µg/L	<0.50	<0.50	<0.50	<0.50	----	10 µg/L	----	----
Toluene	108-88-3	E611D/WT	0.50	µg/L	<0.50	<0.50	<0.50	<0.50	0.024 mg/L	60 µg/L	----	----
Trichloroethane, 1,1,1-	71-55-6	E611D/WT	0.50	µg/L	<0.50	<0.50	<0.50	<0.50	----	----	----	----
Trichloroethane, 1,1,2-	79-00-5	E611D/WT	0.50	µg/L	<0.50	<0.50	<0.50	<0.50	----	----	----	----
Trichloroethylene	79-01-6	E611D/WT	0.50	µg/L	<0.50	<0.50	<0.50	<0.50	----	5 µg/L	----	----
Trichlorofluoromethane	75-69-4	E611D/WT	0.50	µg/L	<0.50	<0.50	<0.50	<0.50	----	----	----	----
Vinyl chloride	75-01-4	E611D/WT	0.20	µg/L	<0.20	<0.20	<0.20	<0.20	----	1 µg/L	----	----
Xylene, m+p-	179601-23-1	E611D/WT	0.40	µg/L	<0.40	<0.40	<0.40	<0.40	----	----	----	----
Xylene, o-	95-47-6	E611D/WT	0.30	µg/L	<0.30	<0.30	<0.30	<0.30	----	----	----	----
Xylenes, total	1330-20-7	E611D/WT	0.50	µg/L	<0.50	<0.50	<0.50	<0.50	0.3 mg/L	90 µg/L	----	----
BTEX, total	----	E611D/WT	1.0	µg/L	1.4	<1.0	<1.0	<1.0	----	----	----	----
Volatile Organic Compounds Surrogates												
Bromofluorobenzene, 4-	460-00-4	E611D/WT	1.0	%	88.2	92.6	93.5	92.6	----	----	----	----
Difluorobenzene, 1,4-	540-36-3	E611D/WT	1.0	%	97.7	98.3	98.7	100	----	----	----	----

Please refer to the General Comments section for an explanation of any result qualifiers detected.

SubMatrix: (Matrix: Water Water)	Client sample ID				OW-8	OW-10S	OW-10D	OW-12S				
	Client sampling date / time				29-Apr-2025 00:00	29-Apr-2025 00:00	29-Apr-2025 00:00	29-Apr-2025 00:00				
Analyte	CAS Number	Method/Lab	LOR	Unit	WT2509690-009	WT2509690-010	WT2509690-011	WT2509690-012	ONDWS AO/OG	ONDWS MAC	----	----
Physical Tests												
Alkalinity, total (as CaCO3)	----	E290/WT	1.0	mg/L	411	322	389	245	30 - 500 mg/L	----	----	----
Colour, apparent	----	E330/WT	2.0	CU	33.1	1780	1920	927	5 CU	----	----	----
Conductivity	----	E100/WT	1.0	µS/cm	1280	510	613	461	----	----	----	----
Hardness (as CaCO3), dissolved	----	EC100/WT	0.50	mg/L	734	305	320	275	80 - 100 mg/L	----	----	----
pH	----	E108/WT	0.10	pH units	7.86	7.85	7.80	7.99	6.5 - 8.5 pH units	----	----	----
Solids, total dissolved [TDS]	----	E162/WT	10	mg/L	936 DLDS	327 DLDS	405 DLDS	309 DLDS	500 mg/L	----	----	----
Turbidity	----	E121/WT	0.10	NTU	20.8	450	512	368	5 NTU	----	----	----
Anions and Nutrients												
Ammonia, total (as N)	7664-41-7	E298/WT	0.0050	mg/L	<0.0050	0.0296	4.77	0.0123	----	----	----	----
Chloride	16887-00-6	E235.CI/WT	0.50	mg/L	4.65 DLDS	1.70	6.25	6.82	250 mg/L	----	----	----



SubMatrix: Water (Matrix: Water)	Client sample ID				OW-8	OW-10S	OW-10D	OW-12S				
	Client sampling date / time				29-Apr-2025 00:00	29-Apr-2025 00:00	29-Apr-2025 00:00	29-Apr-2025 00:00				
Analyte	CAS Number	Method/Lab	LOR	Unit	WT2509690-009	WT2509690-010	WT2509690-011	WT2509690-012	ONDWS AOIOG	ONDWS MAC	----	----
Anions and Nutrients												
Fluoride	16984-48-8	E235.F/WT	0.020	mg/L	<0.100 DLDS	0.058	0.068	0.056	----	1500 µg/L	----	----
Nitrate (as N)	14797-55-8	E235.NO3/WT	0.020	mg/L	1.94 DLDS	<0.020	0.039	0.063	----	10000 µg/L	----	----
Nitrite (as N)	14797-65-0	E235.NO2/WT	0.010	mg/L	<0.050 DLDS	<0.010	0.021	<0.010	----	1000 µg/L	----	----
Phosphate, ortho-, dissolved (as P)	14265-44-2	E378-U/WT	0.0010	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	----	----	----	----
Sulfate (as SO4)	14808-79-8	E235.SO4/WT	0.30	mg/L	359 DLDS	7.52	9.08	9.96	500 mg/L	----	----	----
Dissolved Metals												
Aluminum, dissolved	7429-90-5	E421/WT	0.0010	mg/L	0.0145	0.0159	0.0136	0.0184	0.1 mg/L	----	----	----
Antimony, dissolved	7440-36-0	E421/WT	0.00010	mg/L	0.00012	<0.00010	<0.00010	<0.00010	----	6 µg/L	----	----
Arsenic, dissolved	7440-38-2	E421/WT	0.00010	mg/L	0.00051	0.00027	0.00013	0.00023	----	10 µg/L	----	----
Barium, dissolved	7440-39-3	E421/WT	0.00010	mg/L	0.0444	0.0229	0.0855	0.0120	----	1000 µg/L	----	----
Beryllium, dissolved	7440-41-7	E421/WT	0.000020	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	----	----	----	----
Bismuth, dissolved	7440-69-9	E421/WT	0.000050	mg/L	<0.000050	<0.000050	<0.000050	<0.000050	----	----	----	----
Boron, dissolved	7440-42-8	E421/WT	0.010	mg/L	0.554	0.018	0.055	0.037	----	5000 µg/L	----	----
Cadmium, dissolved	7440-43-9	E421/WT	0.000050	mg/L	0.0000167	0.0000056	0.0000191	0.0000373	----	5 µg/L	----	----
Calcium, dissolved	7440-70-2	E421/WT	0.050	mg/L	185	73.7	76.1	71.1	----	----	----	----
Cesium, dissolved	7440-46-2	E421/WT	0.000010	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	----	----	----	----
Chromium, dissolved	7440-47-3	E421/WT	0.00050	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	----	50 µg/L	----	----
Cobalt, dissolved	7440-48-4	E421/WT	0.00010	mg/L	0.00034	0.00024	0.00078	<0.00010	----	----	----	----
Copper, dissolved	7440-50-8	E421/WT	0.00020	mg/L	0.00181	0.00053	0.00134	0.00117	1 mg/L	----	----	----
Iron, dissolved	7439-89-6	E421/WT	0.010	mg/L	0.245	0.060	0.040	0.019	0.3 mg/L	----	----	----
Lead, dissolved	7439-92-1	E421/WT	0.000050	mg/L	0.000078	0.000156	0.000251	0.000175	----	10 µg/L	----	----
Lithium, dissolved	7439-93-2	E421/WT	0.0010	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	----	----	----	----
Magnesium, dissolved	7439-95-4	E421/WT	0.0050	mg/L	66.0	29.4	31.7	23.7	----	----	----	----
Manganese, dissolved	7439-96-5	E421/WT	0.00010	mg/L	0.0744	0.335	0.682	0.0268	0.05 mg/L	----	----	----
Molybdenum, dissolved	7439-98-7	E421/WT	0.000050	mg/L	0.000492	0.000538	0.000742	0.000153	----	----	----	----
Nickel, dissolved	7440-02-0	E421/WT	0.00050	mg/L	0.00069	0.00130	0.00402	0.00060	----	----	----	----
Phosphorus, dissolved	7723-14-0	E421/WT	0.050	mg/L	<0.050	<0.050	<0.050	<0.050	----	----	----	----
Potassium, dissolved	7440-09-7	E421/WT	0.050	mg/L	8.67	0.589	1.80	0.860	----	----	----	----
Rubidium, dissolved	7440-17-7	E421/WT	0.00020	mg/L	0.00058	0.00049	0.00135	0.00049	----	----	----	----
Selenium, dissolved	7782-49-2	E421/WT	0.000050	mg/L	0.000150	0.000056	0.000100	0.000123	----	50 µg/L	----	----
Silicon, dissolved	7440-21-3	E421/WT	0.050	mg/L	3.21	2.54	3.29	1.96	----	----	----	----
Silver, dissolved	7440-22-4	E421/WT	0.000010	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	----	----	----	----



SubMatrix: Water (Matrix: Water)	Client sample ID				OW-8	OW-10S	OW-10D	OW-12S				
	Client sampling date / time				29-Apr-2025 00:00	29-Apr-2025 00:00	29-Apr-2025 00:00	29-Apr-2025 00:00				
Analyte	CAS Number	Method/Lab	LOR	Unit	WT2509690-009	WT2509690-010	WT2509690-011	WT2509690-012	ONDWS AOIOG	ONDWS MAC	----	----
Dissolved Metals												
Sodium, dissolved	7440-23-5	E421/WT	0.050	mg/L	10.3	2.52	5.36	3.01	200 mg/L	20 mg/L	----	----
Strontium, dissolved	7440-24-6	E421/WT	0.00020	mg/L	0.444	0.0757	0.108	0.0807	----	----	----	----
Sulfur, dissolved	7704-34-9	E421/WT	0.50	mg/L	103	2.62	3.05	4.42	----	----	----	----
Tellurium, dissolved	13494-80-9	E421/WT	0.00020	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	----	----	----	----
Thallium, dissolved	7440-28-0	E421/WT	0.000010	mg/L	<0.000010	0.000042	0.000141	0.000016	----	----	----	----
Thorium, dissolved	7440-29-1	E421/WT	0.00010	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	----	----	----	----
Tin, dissolved	7440-31-5	E421/WT	0.00010	mg/L	<0.00010	<0.00010	0.00012	0.00017	----	----	----	----
Titanium, dissolved	7440-32-6	E421/WT	0.00030	mg/L	<0.00030	0.00073	0.00053	0.00152	----	----	----	----
Tungsten, dissolved	7440-33-7	E421/WT	0.00010	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	----	----	----	----
Uranium, dissolved	7440-61-1	E421/WT	0.000010	mg/L	0.000656	0.000680	0.000405	0.000567	----	20 µg/L	----	----
Vanadium, dissolved	7440-62-2	E421/WT	0.00050	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	----	----	----	----
Zinc, dissolved	7440-66-6	E421/WT	0.0010	mg/L	0.0046	0.0037	0.0199	0.0050	5 mg/L	----	----	----
Zirconium, dissolved	7440-67-7	E421/WT	0.00020	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	----	----	----	----
Dissolved metals filtration location	----	EP421/WT	-	-	Field	Field	Field	Field	----	----	----	----
Volatile Organic Compounds												
Acetone	67-64-1	E611D/WT	20	µg/L	<20	<20	<20	<20	----	----	----	----
Benzene	71-43-2	E611D/WT	0.50	µg/L	<0.50	<0.50	<0.50	<0.50	----	1 µg/L	----	----
Bromodichloromethane	75-27-4	E611D/WT	0.50	µg/L	<0.50	<0.50	<0.50	<0.50	----	----	----	----
Bromoform	75-25-2	E611D/WT	0.50	µg/L	<0.50	<0.50	<0.50	<0.50	----	----	----	----
Bromomethane	74-83-9	E611D/WT	0.50	µg/L	<0.50	<0.50	<0.50	<0.50	----	----	----	----
Carbon tetrachloride	56-23-5	E611D/WT	0.20	µg/L	<0.20	<0.20	<0.20	<0.20	----	2 µg/L	----	----
Chlorobenzene	108-90-7	E611D/WT	0.50	µg/L	<0.50	<0.50	<0.50	<0.50	0.03 mg/L	80 µg/L	----	----
Chloroform	67-66-3	E611D/WT	0.50	µg/L	<0.50	<0.50	<0.50	<0.50	----	----	----	----
Dibromochloromethane	124-48-1	E611D/WT	0.50	µg/L	<0.50	<0.50	<0.50	<0.50	----	----	----	----
Dibromoethane, 1,2-	106-93-4	E611D/WT	0.20	µg/L	<0.20	<0.20	<0.20	<0.20	----	----	----	----
Dichlorobenzene, 1,2-	95-50-1	E611D/WT	0.50	µg/L	<0.50	<0.50	<0.50	<0.50	0.003 mg/L	200 µg/L	----	----
Dichlorobenzene, 1,3-	541-73-1	E611D/WT	0.50	µg/L	<0.50	<0.50	<0.50	<0.50	----	----	----	----
Dichlorobenzene, 1,4-	106-46-7	E611D/WT	0.50	µg/L	<0.50	<0.50	<0.50	<0.50	0.001 mg/L	5 µg/L	----	----
Dichlorodifluoromethane	75-71-8	E611D/WT	0.50	µg/L	<0.50	<0.50	<0.50	<0.50	----	----	----	----
Dichloroethane, 1,1-	75-34-3	E611D/WT	0.50	µg/L	<0.50	<0.50	<0.50	<0.50	----	----	----	----
Dichloroethane, 1,2-	107-06-2	E611D/WT	0.50	µg/L	<0.50	<0.50	<0.50	<0.50	----	5 µg/L	----	----
Dichloroethylene, 1,1-	75-35-4	E611D/WT	0.50	µg/L	<0.50	<0.50	<0.50	<0.50	----	14 µg/L	----	----



SubMatrix: (Matrix: Water Water)	CAS Number	Method/Lab	LOR	Unit	Client sample ID				ONDWS AO/OG	ONDWS MAC	----	----
					OW-8	OW-10S	OW-10D	OW-12S				
Client sampling date / time					29-Apr-2025 00:00	29-Apr-2025 00:00	29-Apr-2025 00:00	29-Apr-2025 00:00				
Analyte	CAS Number	Method/Lab	LOR	Unit	WT2509690-009	WT2509690-010	WT2509690-011	WT2509690-012				
Volatile Organic Compounds												
Dichloroethylene, cis-1,2-	156-59-2	E611D/WT	0.50	µg/L	<0.50	<0.50	<0.50	<0.50	----	----	----	----
Dichloroethylene, trans-1,2-	156-60-5	E611D/WT	0.50	µg/L	<0.50	<0.50	<0.50	<0.50	----	----	----	----
Dichloromethane	75-09-2	E611D/WT	1.0	µg/L	<1.0	<1.0	<1.0	<1.0	----	50 µg/L	----	----
Dichloropropane, 1,2-	78-87-5	E611D/WT	0.50	µg/L	<0.50	<0.50	<0.50	<0.50	----	----	----	----
Dichloropropylene, cis-1,3-	10061-01-5	E611D/WT	0.30	µg/L	<0.30	<0.30	<0.30	<0.30	----	----	----	----
Dichloropropylene, cis+trans-1,3-	542-75-6	E611D/WT	0.50	µg/L	<0.50	<0.50	<0.50	<0.50	----	----	----	----
Dichloropropylene, trans-1,3-	10061-02-6	E611D/WT	0.30	µg/L	<0.30	<0.30	<0.30	<0.30	----	----	----	----
Ethylbenzene	100-41-4	E611D/WT	0.50	µg/L	<0.50	<0.50	<0.50	<0.50	0.0024 mg/L	140 µg/L	----	----
Hexane, n-	110-54-3	E611D/WT	0.50	µg/L	<0.50	<0.50	<0.50	<0.50	----	----	----	----
Methyl ethyl ketone [MEK]	78-93-3	E611D/WT	20	µg/L	<20	<20	<20	<20	----	----	----	----
Methyl isobutyl ketone [MIBK]	108-10-1	E611D/WT	20	µg/L	<20	<20	<20	<20	----	----	----	----
Methyl-tert-butyl ether [MTBE]	1634-04-4	E611D/WT	0.50	µg/L	<0.50	<0.50	<0.50	<0.50	----	15 µg/L	----	----
Styrene	100-42-5	E611D/WT	0.50	µg/L	<0.50	<0.50	<0.50	<0.50	----	----	----	----
Tetrachloroethane, 1,1,1,2-	630-20-6	E611D/WT	0.50	µg/L	<0.50	<0.50	<0.50	<0.50	----	----	----	----
Tetrachloroethane, 1,1,2,2-	79-34-5	E611D/WT	0.50	µg/L	<0.50	<0.50	<0.50	<0.50	----	----	----	----
Tetrachloroethylene	127-18-4	E611D/WT	0.50	µg/L	<0.50	<0.50	<0.50	<0.50	----	10 µg/L	----	----
Toluene	108-88-3	E611D/WT	0.50	µg/L	<0.50	<0.50	<0.50	<0.50	0.024 mg/L	60 µg/L	----	----
Trichloroethane, 1,1,1-	71-55-6	E611D/WT	0.50	µg/L	<0.50	<0.50	<0.50	<0.50	----	----	----	----
Trichloroethane, 1,1,2-	79-00-5	E611D/WT	0.50	µg/L	<0.50	<0.50	<0.50	<0.50	----	----	----	----
Trichloroethylene	79-01-6	E611D/WT	0.50	µg/L	<0.50	<0.50	<0.50	<0.50	----	5 µg/L	----	----
Trichlorofluoromethane	75-69-4	E611D/WT	0.50	µg/L	<0.50	<0.50	<0.50	<0.50	----	----	----	----
Vinyl chloride	75-01-4	E611D/WT	0.20	µg/L	<0.20	<0.20	<0.20	<0.20	----	1 µg/L	----	----
Xylene, m+p-	179601-23-1	E611D/WT	0.40	µg/L	<0.40	<0.40	<0.40	<0.40	----	----	----	----
Xylene, o-	95-47-6	E611D/WT	0.30	µg/L	<0.30	<0.30	<0.30	<0.30	----	----	----	----
Xylenes, total	1330-20-7	E611D/WT	0.50	µg/L	<0.50	<0.50	<0.50	<0.50	0.3 mg/L	90 µg/L	----	----
BTEX, total	----	E611D/WT	1.0	µg/L	<1.0	<1.0	<1.0	<1.0	----	----	----	----
Volatile Organic Compounds Surrogates												
Bromofluorobenzene, 4-	460-00-4	E611D/WT	1.0	%	93.1	93.2	94.7	93.9	----	----	----	----
Difluorobenzene, 1,4-	540-36-3	E611D/WT	1.0	%	99.4	99.4	99.3	98.9	----	----	----	----

Please refer to the General Comments section for an explanation of any result qualifiers detected.



SubMatrix: Water (Matrix: Water)	Client sample ID				OW-12D	OW-13S	OW-13D	OW-16S				
	Client sampling date / time				29-Apr-2025 00:00	29-Apr-2025 00:00	29-Apr-2025 00:00	29-Apr-2025 00:00				
Analyte	CAS Number	Method/Lab	LOR	Unit	WT2509690-013	WT2509690-014	WT2509690-015	WT2509690-016	ONDWS AOIOG	ONDWS MAC	----	----
Physical Tests												
Alkalinity, total (as CaCO3)	----	E290/WT	1.0	mg/L	287	332	510	343	30 - 500 mg/L	----	----	----
Colour, apparent	----	E330/WT	2.0	CU	65.3	5200	200	569	5 CU	----	----	----
Conductivity	----	E100/WT	1.0	µS/cm	580	454	1000	617	----	----	----	----
Hardness (as CaCO3), dissolved	----	EC100/WT	0.50	mg/L	321	303	526	365	80 - 100 mg/L	----	----	----
pH	----	E108/WT	0.10	pH units	8.08	8.12	7.68	7.81	6.5 - 8.5 pH units	----	----	----
Solids, total dissolved [TDS]	----	E162/WT	10	mg/L	348 DLDS	512 DLDS	620 DLDS	385 DLDS	500 mg/L	----	----	----
Turbidity	----	E121/WT	0.10	NTU	14.5	1840	88.4	183	5 NTU	----	----	----
Anions and Nutrients												
Ammonia, total (as N)	7664-41-7	E298/WT	0.0050	mg/L	<0.0050	0.0074	3.18	<0.0050	----	----	----	----
Chloride	16887-00-6	E235.Cl/WT	0.50	mg/L	8.96	1.26	13.6 DLDS	10.6	250 mg/L	----	----	----
Fluoride	16984-48-8	E235.F/WT	0.020	mg/L	0.049	0.045	<0.100 DLDS	0.051	----	1500 µg/L	----	----
Nitrate (as N)	14797-55-8	E235.NO3/WT	0.020	mg/L	0.967	<0.020	0.157 DLDS	1.00	----	10000 µg/L	----	----
Nitrite (as N)	14797-65-0	E235.NO2/WT	0.010	mg/L	<0.010	<0.010	<0.050 DLDS	<0.010	----	1000 µg/L	----	----
Phosphate, ortho-, dissolved (as P)	14265-44-2	E378-U/WT	0.0010	mg/L	<0.0010	0.0014	<0.0010	0.0083	----	----	----	----
Sulfate (as SO4)	14808-79-8	E235.SO4/WT	0.30	mg/L	27.6	10.0	60.1 DLDS	6.43	500 mg/L	----	----	----
Dissolved Metals												
Aluminum, dissolved	7429-90-5	E421/WT	0.0010	mg/L	0.0011	0.0891	0.0113	0.0038	0.1 mg/L	----	----	----
Antimony, dissolved	7440-36-0	E421/WT	0.00010	mg/L	<0.00010	<0.00010	0.00010	<0.00010	----	6 µg/L	----	----
Arsenic, dissolved	7440-38-2	E421/WT	0.00010	mg/L	0.00014	0.00034	0.00169	0.00024	----	10 µg/L	----	----
Barium, dissolved	7440-39-3	E421/WT	0.00010	mg/L	0.0169	0.0160	0.0728	0.0227	----	1000 µg/L	----	----
Beryllium, dissolved	7440-41-7	E421/WT	0.000020	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	----	----	----	----
Bismuth, dissolved	7440-69-9	E421/WT	0.000050	mg/L	<0.000050	<0.000050	<0.000050	<0.000050	----	----	----	----
Boron, dissolved	7440-42-8	E421/WT	0.010	mg/L	0.063	0.022	0.169	<0.010	----	5000 µg/L	----	----
Cadmium, dissolved	7440-43-9	E421/WT	0.000050	mg/L	0.0000327	0.0000120	0.0000279	<0.000050	----	5 µg/L	----	----
Calcium, dissolved	7440-70-2	E421/WT	0.050	mg/L	83.9	74.9	136	97.7	----	----	----	----
Cesium, dissolved	7440-46-2	E421/WT	0.000010	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	----	----	----	----
Chromium, dissolved	7440-47-3	E421/WT	0.00050	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	----	50 µg/L	----	----
Cobalt, dissolved	7440-48-4	E421/WT	0.00010	mg/L	<0.00010	0.00015	0.00045	<0.00010	----	----	----	----
Copper, dissolved	7440-50-8	E421/WT	0.00020	mg/L	0.00141	0.00106	0.00124	0.00105	1 mg/L	----	----	----
Iron, dissolved	7439-89-6	E421/WT	0.010	mg/L	<0.010	0.226	2.12	0.014	0.3 mg/L	----	----	----
Lead, dissolved	7439-92-1	E421/WT	0.000050	mg/L	<0.000050	0.000505	0.00320	<0.000050	----	10 µg/L	----	----
Lithium, dissolved	7439-93-2	E421/WT	0.0010	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	----	----	----	----



SubMatrix: (Matrix:)	Water Water	Client sample ID				OW-12D	OW-13S	OW-13D	OW-16S				
		Client sampling date / time				29-Apr-2025 00:00	29-Apr-2025 00:00	29-Apr-2025 00:00	29-Apr-2025 00:00				
Analyte	CAS Number	Method/Lab	LOR	Unit	WT2509690-013	WT2509690-014	WT2509690-015	WT2509690-016	ONDWS AO/OG	ONDWS MAC	----	----	
Dissolved Metals													
Magnesium, dissolved	7439-95-4	E421/WT	0.0050	mg/L	27.1	28.2	45.3	29.4	----	----	----	----	
Manganese, dissolved	7439-96-5	E421/WT	0.00010	mg/L	0.00142	0.0276	0.169	0.00056	0.05 mg/L	----	----	----	
Molybdenum, dissolved	7439-98-7	E421/WT	0.000050	mg/L	0.000356	0.000375	0.000650	0.000548	----	----	----	----	
Nickel, dissolved	7440-02-0	E421/WT	0.00050	mg/L	0.00084	0.00079	0.00377	<0.00050	----	----	----	----	
Phosphorus, dissolved	7723-14-0	E421/WT	0.050	mg/L	<0.050	<0.050	<0.050	<0.050	----	----	----	----	
Potassium, dissolved	7440-09-7	E421/WT	0.050	mg/L	1.06	0.593	3.68	0.787	----	----	----	----	
Rubidium, dissolved	7440-17-7	E421/WT	0.00020	mg/L	0.00058	0.00048	0.00175	0.00038	----	----	----	----	
Selenium, dissolved	7782-49-2	E421/WT	0.000050	mg/L	0.000163	0.000425	0.000204	0.000057	----	50 µg/L	----	----	
Silicon, dissolved	7440-21-3	E421/WT	0.050	mg/L	2.16	2.04	4.48	5.49	----	----	----	----	
Silver, dissolved	7440-22-4	E421/WT	0.000010	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	----	----	----	----	
Sodium, dissolved	7440-23-5	E421/WT	0.050	mg/L	5.21	3.00	13.3	2.92	200 mg/L	20 mg/L	----	----	
Strontium, dissolved	7440-24-6	E421/WT	0.00020	mg/L	0.109	0.0912	0.267	0.135	----	----	----	----	
Sulfur, dissolved	7704-34-9	E421/WT	0.50	mg/L	8.62	5.23	18.7	2.18	----	----	----	----	
Tellurium, dissolved	13494-80-9	E421/WT	0.00020	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	----	----	----	----	
Thallium, dissolved	7440-28-0	E421/WT	0.000010	mg/L	0.000051	0.000018	0.000116	<0.000010	----	----	----	----	
Thorium, dissolved	7440-29-1	E421/WT	0.00010	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	----	----	----	----	
Tin, dissolved	7440-31-5	E421/WT	0.00010	mg/L	0.00012	<0.00010	0.00015	0.00021	----	----	----	----	
Titanium, dissolved	7440-32-6	E421/WT	0.00030	mg/L	<0.00030	0.00357	<0.00050 DLUI	<0.00030	----	----	----	----	
Tungsten, dissolved	7440-33-7	E421/WT	0.00010	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	----	----	----	----	
Uranium, dissolved	7440-61-1	E421/WT	0.000010	mg/L	0.00179	0.000411	0.000840	0.000775	----	20 µg/L	----	----	
Vanadium, dissolved	7440-62-2	E421/WT	0.00050	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	----	----	----	----	
Zinc, dissolved	7440-66-6	E421/WT	0.0010	mg/L	0.0122	0.0286	0.206	0.0039	5 mg/L	----	----	----	
Zirconium, dissolved	7440-67-7	E421/WT	0.00020	mg/L	<0.00020	0.00021	0.00042	<0.00020	----	----	----	----	
Dissolved metals filtration location	----	EP421/WT	-	-	Field	Field	Field	Field	----	----	----	----	
Volatile Organic Compounds													
Acetone	67-64-1	E611D/WT	20	µg/L	<20	<20	<20	<20	----	----	----	----	
Benzene	71-43-2	E611D/WT	0.50	µg/L	<0.50	<0.50	<0.50	<0.50	----	1 µg/L	----	----	
Bromodichloromethane	75-27-4	E611D/WT	0.50	µg/L	<0.50	<0.50	<0.50	<0.50	----	----	----	----	
Bromoform	75-25-2	E611D/WT	0.50	µg/L	<0.50	<0.50	<0.50	<0.50	----	----	----	----	
Bromomethane	74-83-9	E611D/WT	0.50	µg/L	<0.50	<0.50	<0.50	<0.50	----	----	----	----	
Carbon tetrachloride	56-23-5	E611D/WT	0.20	µg/L	<0.20	<0.20	<0.20	<0.20	----	2 µg/L	----	----	
Chlorobenzene	108-90-7	E611D/WT	0.50	µg/L	<0.50	<0.50	<0.50	<0.50	0.03 mg/L	80 µg/L	----	----	



SubMatrix: Water (Matrix: Water)	Client sample ID				OW-12D	OW-13S	OW-13D	OW-16S				
	Client sampling date / time				29-Apr-2025 00:00	29-Apr-2025 00:00	29-Apr-2025 00:00	29-Apr-2025 00:00				
	CAS Number	Method/Lab	LOR	Unit	WT2509690-013	WT2509690-014	WT2509690-015	WT2509690-016	ONDWS AOIOG	ONDWS MAC	----	----
Volatile Organic Compounds												
Chloroform	67-66-3	E611D/WT	0.50	µg/L	<0.50	<0.50	<0.50	<0.50	----	----	----	----
Dibromochloromethane	124-48-1	E611D/WT	0.50	µg/L	<0.50	<0.50	<0.50	<0.50	----	----	----	----
Dibromoethane, 1,2-	106-93-4	E611D/WT	0.20	µg/L	<0.20	<0.20	<0.20	<0.20	----	----	----	----
Dichlorobenzene, 1,2-	95-50-1	E611D/WT	0.50	µg/L	<0.50	<0.50	<0.50	<0.50	0.003 mg/L	200 µg/L	----	----
Dichlorobenzene, 1,3-	541-73-1	E611D/WT	0.50	µg/L	<0.50	<0.50	<0.50	<0.50	----	----	----	----
Dichlorobenzene, 1,4-	106-46-7	E611D/WT	0.50	µg/L	<0.50	<0.50	<0.50	<0.50	0.001 mg/L	5 µg/L	----	----
Dichlorodifluoromethane	75-71-8	E611D/WT	0.50	µg/L	<0.50	<0.50	<0.50	<0.50	----	----	----	----
Dichloroethane, 1,1-	75-34-3	E611D/WT	0.50	µg/L	<0.50	<0.50	<0.50	<0.50	----	----	----	----
Dichloroethane, 1,2-	107-06-2	E611D/WT	0.50	µg/L	<0.50	<0.50	<0.50	<0.50	----	5 µg/L	----	----
Dichloroethylene, 1,1-	75-35-4	E611D/WT	0.50	µg/L	<0.50	<0.50	<0.50	<0.50	----	14 µg/L	----	----
Dichloroethylene, cis-1,2-	156-59-2	E611D/WT	0.50	µg/L	<0.50	<0.50	<0.50	<0.50	----	----	----	----
Dichloroethylene, trans-1,2-	156-60-5	E611D/WT	0.50	µg/L	<0.50	<0.50	<0.50	<0.50	----	----	----	----
Dichloromethane	75-09-2	E611D/WT	1.0	µg/L	<1.0	<1.0	<1.0	<1.0	----	50 µg/L	----	----
Dichloropropane, 1,2-	78-87-5	E611D/WT	0.50	µg/L	<0.50	<0.50	<0.50	<0.50	----	----	----	----
Dichloropropylene, cis-1,3-	10061-01-5	E611D/WT	0.30	µg/L	<0.30	<0.30	<0.30	<0.30	----	----	----	----
Dichloropropylene, cis+trans-1,3-	542-75-6	E611D/WT	0.50	µg/L	<0.50	<0.50	<0.50	<0.50	----	----	----	----
Dichloropropylene, trans-1,3-	10061-02-6	E611D/WT	0.30	µg/L	<0.30	<0.30	<0.30	<0.30	----	----	----	----
Ethylbenzene	100-41-4	E611D/WT	0.50	µg/L	<0.50	<0.50	<0.50	<0.50	0.0024 mg/L	140 µg/L	----	----
Hexane, n-	110-54-3	E611D/WT	0.50	µg/L	<0.50	<0.50	<0.50	<0.50	----	----	----	----
Methyl ethyl ketone [MEK]	78-93-3	E611D/WT	20	µg/L	<20	<20	<20	<20	----	----	----	----
Methyl isobutyl ketone [MIBK]	108-10-1	E611D/WT	20	µg/L	<20	<20	<20	<20	----	----	----	----
Methyl-tert-butyl ether [MTBE]	1634-04-4	E611D/WT	0.50	µg/L	<0.50	<0.50	<0.50	<0.50	----	15 µg/L	----	----
Styrene	100-42-5	E611D/WT	0.50	µg/L	<0.50	<0.50	<0.50	<0.50	----	----	----	----
Tetrachloroethane, 1,1,1,2-	630-20-6	E611D/WT	0.50	µg/L	<0.50	<0.50	<0.50	<0.50	----	----	----	----
Tetrachloroethane, 1,1,2,2-	79-34-5	E611D/WT	0.50	µg/L	<0.50	<0.50	<0.50	<0.50	----	----	----	----
Tetrachloroethylene	127-18-4	E611D/WT	0.50	µg/L	<0.50	<0.50	<0.50	<0.50	----	10 µg/L	----	----
Toluene	108-88-3	E611D/WT	0.50	µg/L	<0.50	<0.50	<0.50	<0.50	0.024 mg/L	60 µg/L	----	----
Trichloroethane, 1,1,1-	71-55-6	E611D/WT	0.50	µg/L	<0.50	<0.50	<0.50	<0.50	----	----	----	----
Trichloroethane, 1,1,2-	79-00-5	E611D/WT	0.50	µg/L	<0.50	<0.50	<0.50	<0.50	----	----	----	----
Trichloroethylene	79-01-6	E611D/WT	0.50	µg/L	<0.50	<0.50	<0.50	<0.50	----	5 µg/L	----	----
Trichlorofluoromethane	75-69-4	E611D/WT	0.50	µg/L	<0.50	<0.50	<0.50	<0.50	----	----	----	----
Vinyl chloride	75-01-4	E611D/WT	0.20	µg/L	<0.20	<0.20	<0.20	<0.20	----	1 µg/L	----	----



SubMatrix: Water (Matrix: Water)	Client sample ID				OW-12D	OW-13S	OW-13D	OW-16S				
	Client sampling date / time				29-Apr-2025 00:00	29-Apr-2025 00:00	29-Apr-2025 00:00	29-Apr-2025 00:00				
Analyte	CAS Number	Method/Lab	LOR	Unit	WT2509690-013	WT2509690-014	WT2509690-015	WT2509690-016	ONDWS AOIOG	ONDWS MAC	----	----
Volatile Organic Compounds												
Xylene, m+p-	179601-23-1	E611D/WT	0.40	µg/L	<0.40	<0.40	<0.40	<0.40	----	----	----	----
Xylene, o-	95-47-6	E611D/WT	0.30	µg/L	<0.30	<0.30	<0.30	<0.30	----	----	----	----
Xylenes, total	1330-20-7	E611D/WT	0.50	µg/L	<0.50	<0.50	<0.50	<0.50	0.3 mg/L	90 µg/L	----	----
BTEX, total	----	E611D/WT	1.0	µg/L	<1.0	<1.0	<1.0	<1.0	----	----	----	----
Volatile Organic Compounds Surrogates												
Bromofluorobenzene, 4-	460-00-4	E611D/WT	1.0	%	93.9	94.2	93.4	92.9	----	----	----	----
Difluorobenzene, 1,4-	540-36-3	E611D/WT	1.0	%	99.0	99.5	98.6	99.5	----	----	----	----

Please refer to the General Comments section for an explanation of any result qualifiers detected.

SubMatrix: Water (Matrix: Water)	Client sample ID				OW-16D	OW-20S	OW-20D	----				
	Client sampling date / time				29-Apr-2025 00:00	29-Apr-2025 00:00	29-Apr-2025 00:00	----				
Analyte	CAS Number	Method/Lab	LOR	Unit	WT2509690-017	WT2509690-018	WT2509690-019	----	ONDWS AOIOG	ONDWS MAC	----	----
Physical Tests												
Alkalinity, total (as CaCO ₃)	----	E290/WT	1.0	mg/L	554	948	590	----	30 - 500 mg/L	----	----	----
Colour, apparent	----	E330/WT	2.0	CU	63.0	13600	197	----	5 CU	----	----	----
Conductivity	----	E100/WT	1.0	µS/cm	1140	646	1360	----	----	----	----	----
Hardness (as CaCO ₃), dissolved	----	EC100/WT	0.50	mg/L	363	429	734	----	80 - 100 mg/L	----	----	----
pH	----	E108/WT	0.10	pH units	7.80	7.96	7.54	----	6.5 - 8.5 pH units	----	----	----
Solids, total dissolved [TDS]	----	E162/WT	10	mg/L	653 DLDS	558 DLDS	873 DLDS	----	500 mg/L	----	----	----
Turbidity	----	E121/WT	0.10	NTU	42.3	>4000 TMV	54.8	----	5 NTU	----	----	----
Anions and Nutrients												
Ammonia, total (as N)	7664-41-7	E298/WT	0.0050	mg/L	6.74	0.126	9.18	----	----	----	----	----
Chloride	16887-00-6	E235.Cl/WT	0.50	mg/L	27.8 DLDS	9.11	25.3 DLDS	----	250 mg/L	----	----	----
Fluoride	16984-48-8	E235.F/WT	0.020	mg/L	<0.100 DLDS	0.234	<0.100 DLDS	----	----	1500 µg/L	----	----
Nitrate (as N)	14797-55-8	E235.NO3/WT	0.020	mg/L	0.852 DLDS	0.067	<0.100 DLDS	----	----	10000 µg/L	----	----
Nitrite (as N)	14797-65-0	E235.NO2/WT	0.010	mg/L	<0.050 DLDS	<0.010	<0.050 DLDS	----	----	1000 µg/L	----	----
Phosphate, ortho-, dissolved (as P)	14265-44-2	E378-U/WT	0.0010	mg/L	0.0028	0.0015	<0.0010	----	----	----	----	----
Sulfate (as SO ₄)	14808-79-8	E235.SO4/WT	0.30	mg/L	59.6 DLDS	30.5	184 DLDS	----	500 mg/L	----	----	----
Dissolved Metals												
Aluminum, dissolved	7429-90-5	E421/WT	0.0010	mg/L	0.0024	0.0123	0.0057	----	0.1 mg/L	----	----	----
Antimony, dissolved	7440-36-0	E421/WT	0.00010	mg/L	<0.00010	<0.00010	<0.00010	----	----	6 µg/L	----	----
Arsenic, dissolved	7440-38-2	E421/WT	0.00010	mg/L	0.00025	0.00156	0.00393	----	----	10 µg/L	----	----
Barium, dissolved	7440-39-3	E421/WT	0.00010	mg/L	0.0225	0.0633	0.136	----	----	1000 µg/L	----	----
Beryllium, dissolved	7440-41-7	E421/WT	0.000020	mg/L	<0.000020	<0.000020	<0.000020	----	----	----	----	----



SubMatrix: (Matrix: Water Water)	Client sample ID				OW-16D	OW-20S	OW-20D	----				
	Client sampling date / time				29-Apr-2025 00:00	29-Apr-2025 00:00	29-Apr-2025 00:00	----				
	Analyte	CAS Number	Method/Lab	LOR	Unit	WT2509690-017	WT2509690-018	WT2509690-019	----			
									ONDWS	ONDWS	----	----
									AQ/OG	MAC	----	----
Dissolved Metals												
Bismuth, dissolved	7440-69-9	E421/WT	0.000050	mg/L	<0.000050	<0.000050	<0.000050	----	----	----	----	----
Boron, dissolved	7440-42-8	E421/WT	0.010	mg/L	<0.010	0.218	0.572	----	----	5000 µg/L	----	----
Cadmium, dissolved	7440-43-9	E421/WT	0.0000050	mg/L	<0.0000050	<0.0000050	<0.0000050	----	----	5 µg/L	----	----
Calcium, dissolved	7440-70-2	E421/WT	0.050	mg/L	97.0	86.4	158	----	----	----	----	----
Cesium, dissolved	7440-46-2	E421/WT	0.000010	mg/L	<0.000010	<0.000010	<0.000010	----	----	----	----	----
Chromium, dissolved	7440-47-3	E421/WT	0.00050	mg/L	<0.00050	<0.00050	<0.00050	----	----	50 µg/L	----	----
Cobalt, dissolved	7440-48-4	E421/WT	0.00010	mg/L	<0.00010	0.00150	0.00438	----	----	----	----	----
Copper, dissolved	7440-50-8	E421/WT	0.00020	mg/L	0.00097	0.00020	0.00031	----	1 mg/L	----	----	----
Iron, dissolved	7439-89-6	E421/WT	0.010	mg/L	<0.010	0.992	3.28	----	0.3 mg/L	----	----	----
Lead, dissolved	7439-92-1	E421/WT	0.000050	mg/L	<0.000050	0.000308	0.00115	----	----	10 µg/L	----	----
Lithium, dissolved	7439-93-2	E421/WT	0.0010	mg/L	<0.0010	0.0049	0.0032	----	----	----	----	----
Magnesium, dissolved	7439-95-4	E421/WT	0.0050	mg/L	29.4	51.9	82.4	----	----	----	----	----
Manganese, dissolved	7439-96-5	E421/WT	0.00010	mg/L	0.00049	0.349	0.760	----	0.05 mg/L	----	----	----
Molybdenum, dissolved	7439-98-7	E421/WT	0.000050	mg/L	0.000518	0.00189	0.000425	----	----	----	----	----
Nickel, dissolved	7440-02-0	E421/WT	0.00050	mg/L	<0.00050	0.00309	0.00969	----	----	----	----	----
Phosphorus, dissolved	7723-14-0	E421/WT	0.050	mg/L	<0.050	<0.050	<0.050	----	----	----	----	----
Potassium, dissolved	7440-09-7	E421/WT	0.050	mg/L	0.791	6.47	19.6	----	----	----	----	----
Rubidium, dissolved	7440-17-7	E421/WT	0.00020	mg/L	0.00046	0.00192	0.00495	----	----	----	----	----
Selenium, dissolved	7782-49-2	E421/WT	0.000050	mg/L	0.000063	<0.000050	0.000081	----	----	50 µg/L	----	----
Silicon, dissolved	7440-21-3	E421/WT	0.050	mg/L	5.48	6.04	6.08	----	----	----	----	----
Silver, dissolved	7440-22-4	E421/WT	0.000010	mg/L	<0.000010	<0.000010	<0.000010	----	----	----	----	----
Sodium, dissolved	7440-23-5	E421/WT	0.050	mg/L	2.91	30.4	27.7	----	200 mg/L	20 mg/L	----	----
Strontium, dissolved	7440-24-6	E421/WT	0.00020	mg/L	0.134	0.270	0.461	----	----	----	----	----
Sulfur, dissolved	7704-34-9	E421/WT	0.50	mg/L	2.14	23.6	57.7	----	----	----	----	----
Tellurium, dissolved	13494-80-9	E421/WT	0.00020	mg/L	<0.00020	<0.00020	<0.00020	----	----	----	----	----
Thallium, dissolved	7440-28-0	E421/WT	0.000010	mg/L	<0.000010	0.000125	0.000364	----	----	----	----	----
Thorium, dissolved	7440-29-1	E421/WT	0.00010	mg/L	<0.00010	<0.00010	<0.00010	----	----	----	----	----
Tin, dissolved	7440-31-5	E421/WT	0.00010	mg/L	0.00035	<0.00010	<0.00010	----	----	----	----	----
Titanium, dissolved	7440-32-6	E421/WT	0.00030	mg/L	<0.00030	0.00031	0.00031	----	----	----	----	----
Tungsten, dissolved	7440-33-7	E421/WT	0.00010	mg/L	<0.00010	0.00016	<0.00010	----	----	----	----	----
Uranium, dissolved	7440-61-1	E421/WT	0.000010	mg/L	0.000764	0.00128	0.000757	----	----	20 µg/L	----	----
Vanadium, dissolved	7440-62-2	E421/WT	0.00050	mg/L	<0.00050	<0.00050	<0.00050	----	----	----	----	----



SubMatrix: (Matrix: Water)	CAS Number	Method/Lab	LOR	Unit	Client sample ID				ONDWS AOIOG	ONDWS MAC		
					Client sampling date / time	OW-16D	OW-20S	OW-20D				
					29-Apr-2025 00:00	29-Apr-2025 00:00	29-Apr-2025 00:00	----				
Analyte					WT2509690-017	WT2509690-018	WT2509690-019	----				
Dissolved Metals												
Zinc, dissolved	7440-66-6	E421/WT	0.0010	mg/L	0.0036	0.0032	0.0093	----	5 mg/L	----	----	----
Zirconium, dissolved	7440-67-7	E421/WT	0.00020	mg/L	<0.00020	<0.00020	0.00055	----	----	----	----	----
Dissolved metals filtration location	----	EP421/WT	-	-	Field	Field	Field	----	----	----	----	----
Volatile Organic Compounds												
Acetone	67-64-1	E611D/WT	20	µg/L	<20	<20	<20	----	----	----	----	----
Benzene	71-43-2	E611D/WT	0.50	µg/L	<0.50	<0.50	<0.50	----	----	1 µg/L	----	----
Bromodichloromethane	75-27-4	E611D/WT	0.50	µg/L	<0.50	<0.50	<0.50	----	----	----	----	----
Bromoform	75-25-2	E611D/WT	0.50	µg/L	<0.50	<0.50	<0.50	----	----	----	----	----
Bromomethane	74-83-9	E611D/WT	0.50	µg/L	<0.50	<0.50	<0.50	----	----	----	----	----
Carbon tetrachloride	56-23-5	E611D/WT	0.20	µg/L	<0.20	<0.20	<0.20	----	----	2 µg/L	----	----
Chlorobenzene	108-90-7	E611D/WT	0.50	µg/L	<0.50	<0.50	<0.50	----	0.03 mg/L	80 µg/L	----	----
Chloroform	67-66-3	E611D/WT	0.50	µg/L	<0.50	<0.50	<0.50	----	----	----	----	----
Dibromochloromethane	124-48-1	E611D/WT	0.50	µg/L	<0.50	<0.50	<0.50	----	----	----	----	----
Dibromoethane, 1,2-	106-93-4	E611D/WT	0.20	µg/L	<0.20	<0.20	<0.20	----	----	----	----	----
Dichlorobenzene, 1,2-	95-50-1	E611D/WT	0.50	µg/L	<0.50	<0.50	<0.50	----	0.003 mg/L	200 µg/L	----	----
Dichlorobenzene, 1,3-	541-73-1	E611D/WT	0.50	µg/L	<0.50	<0.50	<0.50	----	----	----	----	----
Dichlorobenzene, 1,4-	106-46-7	E611D/WT	0.50	µg/L	<0.50	<0.50	<0.50	----	0.001 mg/L	5 µg/L	----	----
Dichlorodifluoromethane	75-71-8	E611D/WT	0.50	µg/L	<0.50	<0.50	<0.50	----	----	----	----	----
Dichloroethane, 1,1-	75-34-3	E611D/WT	0.50	µg/L	<0.50	<0.50	<0.50	----	----	----	----	----
Dichloroethane, 1,2-	107-06-2	E611D/WT	0.50	µg/L	<0.50	<0.50	<0.50	----	----	5 µg/L	----	----
Dichloroethylene, 1,1-	75-35-4	E611D/WT	0.50	µg/L	<0.50	<0.50	<0.50	----	----	14 µg/L	----	----
Dichloroethylene, cis-1,2-	156-59-2	E611D/WT	0.50	µg/L	<0.50	<0.50	<0.50	----	----	----	----	----
Dichloroethylene, trans-1,2-	156-60-5	E611D/WT	0.50	µg/L	<0.50	<0.50	<0.50	----	----	----	----	----
Dichloromethane	75-09-2	E611D/WT	1.0	µg/L	<1.0	<1.0	<1.0	----	----	50 µg/L	----	----
Dichloropropane, 1,2-	78-87-5	E611D/WT	0.50	µg/L	<0.50	<0.50	<0.50	----	----	----	----	----
Dichloropropylene, cis-1,3-	10061-01-5	E611D/WT	0.30	µg/L	<0.30	<0.30	<0.30	----	----	----	----	----
Dichloropropylene, cis+trans-1,3-	542-75-6	E611D/WT	0.50	µg/L	<0.50	<0.50	<0.50	----	----	----	----	----
Dichloropropylene, trans-1,3-	10061-02-6	E611D/WT	0.30	µg/L	<0.30	<0.30	<0.30	----	----	----	----	----
Ethylbenzene	100-41-4	E611D/WT	0.50	µg/L	<0.50	<0.50	<0.50	----	0.0024 mg/L	140 µg/L	----	----
Hexane, n-	110-54-3	E611D/WT	0.50	µg/L	<0.50	<0.50	<0.50	----	----	----	----	----
Methyl ethyl ketone [MEK]	78-93-3	E611D/WT	20	µg/L	<20	<20	<20	----	----	----	----	----
Methyl isobutyl ketone [MIBK]	108-10-1	E611D/WT	20	µg/L	<20	<20	<20	----	----	----	----	----



				Client sample ID	OW-16D	OW-20S	OW-20D	----				
SubMatrix: Water (Matrix: Water)				Client sampling date / time	29-Apr-2025 00:00	29-Apr-2025 00:00	29-Apr-2025 00:00	----				
Analyte	CAS Number	Method/Lab	LOR	Unit	WT2509690-017	WT2509690-018	WT2509690-019	----	ONDWS AOIOG	ONDWS MAC	----	----
Volatile Organic Compounds												
Methyl-tert-butyl ether [MTBE]	1634-04-4	E611D/WT	0.50	µg/L	<0.50	<0.50	<0.50	----	----	15 µg/L	----	----
Styrene	100-42-5	E611D/WT	0.50	µg/L	<0.50	<0.50	<0.50	----	----	----	----	----
Tetrachloroethane, 1,1,1,2-	630-20-6	E611D/WT	0.50	µg/L	<0.50	<0.50	<0.50	----	----	----	----	----
Tetrachloroethane, 1,1,2,2-	79-34-5	E611D/WT	0.50	µg/L	<0.50	<0.50	<0.50	----	----	----	----	----
Tetrachloroethylene	127-18-4	E611D/WT	0.50	µg/L	<0.50	<0.50	<0.50	----	----	10 µg/L	----	----
Toluene	108-88-3	E611D/WT	0.50	µg/L	<0.50	<0.50	<0.50	----	0.024 mg/L	60 µg/L	----	----
Trichloroethane, 1,1,1-	71-55-6	E611D/WT	0.50	µg/L	<0.50	<0.50	<0.50	----	----	----	----	----
Trichloroethane, 1,1,2-	79-00-5	E611D/WT	0.50	µg/L	<0.50	<0.50	<0.50	----	----	----	----	----
Trichloroethylene	79-01-6	E611D/WT	0.50	µg/L	<0.50	<0.50	<0.50	----	----	5 µg/L	----	----
Trichlorofluoromethane	75-69-4	E611D/WT	0.50	µg/L	<0.50	<0.50	<0.50	----	----	----	----	----
Vinyl chloride	75-01-4	E611D/WT	0.20	µg/L	<0.20	<0.20	<0.20	----	----	1 µg/L	----	----
Xylene, m+p-	179601-23-1	E611D/WT	0.40	µg/L	<0.40	<0.40	<0.40	----	----	----	----	----
Xylene, o-	95-47-6	E611D/WT	0.30	µg/L	<0.30	<0.30	<0.30	----	----	----	----	----
Xylenes, total	1330-20-7	E611D/WT	0.50	µg/L	<0.50	<0.50	<0.50	----	0.3 mg/L	90 µg/L	----	----
BTEX, total	----	E611D/WT	1.0	µg/L	<1.0	<1.0	<1.0	----	----	----	----	----
Volatile Organic Compounds Surrogates												
Bromofluorobenzene, 4-	460-00-4	E611D/WT	1.0	%	94.8	95.2	93.6	----	----	----	----	----
Diffuorobenzene, 1,4-	540-36-3	E611D/WT	1.0	%	99.6	99.4	98.8	----	----	----	----	----

Please refer to the General Comments section for an explanation of any result qualifiers detected.

QUALITY CONTROL INTERPRETIVE REPORT

Work Order	: WT2509690	Page	: 1 of 38
Client	: Bluewater Geoscience Consultants Inc.	Laboratory	: ALS Environmental - Waterloo
Contact	: Breton Lemieux	Account Manager	: Gayle Braun
Address	: 42 Shadyridge Place Kitchener ON Canada N2N 3J1	Address	: 60 Northland Road, Unit 1 Waterloo, Ontario Canada N2V 2B8
Telephone	: 519 744 4123	Telephone	: +1 519 886 6910
Project	: BG-924	Date Samples Received	: 29-Apr-2025 13:15
PO	: ----	Issue Date	: 06-May-2025 15:45
C-O-C number	: 23-1119627		
Sampler	: BJL		
Site	: ----		
Quote number	: SOA		
No. of samples received	: 19		
No. of samples analysed	: 19		

This report is automatically generated by the ALS LIMS (Laboratory Information Management System) through evaluation of Quality Control (QC) results and other QA parameters associated with this submission, and is intended to facilitate rapid data validation by auditors or reviewers. The report highlights any exceptions and outliers to ALS Data Quality Objectives, provides holding time details and exceptions, summarizes QC sample frequencies, and lists applicable methodology references and summaries.

Key

Anonymous: Refers to samples which are not part of this work order, but which formed part of the QC process lot.

CAS Number: Chemical Abstracts Service number is a unique identifier assigned to discrete substances.

DQO: Data Quality Objective.

LOR: Limit of Reporting (detection limit).

RPD: Relative Percent Difference.

Workorder Comments

Holding times are displayed as "----" if no guidance exists from CCME, Canadian provinces, or broadly recognized international references.

Summary of Outliers

Outliers : Quality Control Samples

- No Method Blank value outliers occur.
- No Duplicate outliers occur.
- No Laboratory Control Sample (LCS) outliers occur
- No Matrix Spike outliers occur.
- No Test sample Surrogate recovery outliers exist.

Outliers: Reference Material (RM) Samples

- No Reference Material (RM) Sample outliers occur.

Outliers : Analysis Holding Time Compliance (Breaches)

- Analysis Holding Time Outliers exist - please see following pages for full details.

Outliers : Frequency of Quality Control Samples

- No Quality Control Sample Frequency Outliers occur.



Analysis Holding Time Compliance

This report summarizes extraction / preparation and analysis times and compares each with ALS recommended holding times, which are selected to meet known provincial and /or federal requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by organizations such as CCME, US EPA, APHA Standard Methods, ASTM, or Environment Canada (where available). Dates and holding times reported below represent the first dates of extraction or analysis. If subsequent tests or dilutions exceeded holding times, qualifiers are added (refer to COA).

If samples are identified below as having been analyzed or extracted outside of recommended holding times, measurement uncertainties may be increased, and this should be taken into consideration when interpreting results.

Where actual sampling date is not provided on the chain of custody, the date of receipt with time at 00:00 is used for calculation purposes.

Where only the sample date without time is provided on the chain of custody, the sampling date at 00:00 is used for calculation purposes.

Matrix: **Water**

Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Anions and Nutrients : Ammonia by Fluorescence										
Amber glass total (sulfuric acid) [ON MECP] OW-1	E298	29-Apr-2025	01-May-2025	28 days	3 days	✓	01-May-2025	28 days	3 days	✓
Anions and Nutrients : Ammonia by Fluorescence										
Amber glass total (sulfuric acid) [ON MECP] OW-2D	E298	29-Apr-2025	01-May-2025	28 days	3 days	✓	01-May-2025	28 days	3 days	✓
Anions and Nutrients : Ammonia by Fluorescence										
Amber glass total (sulfuric acid) [ON MECP] OW-2S	E298	29-Apr-2025	01-May-2025	28 days	3 days	✓	01-May-2025	28 days	3 days	✓
Anions and Nutrients : Ammonia by Fluorescence										
Amber glass total (sulfuric acid) [ON MECP] OW-3D	E298	29-Apr-2025	01-May-2025	28 days	3 days	✓	01-May-2025	28 days	3 days	✓
Anions and Nutrients : Ammonia by Fluorescence										
Amber glass total (sulfuric acid) [ON MECP] OW-3S	E298	29-Apr-2025	01-May-2025	28 days	3 days	✓	01-May-2025	28 days	3 days	✓
Anions and Nutrients : Ammonia by Fluorescence										
Amber glass total (sulfuric acid) [ON MECP] OW-5	E298	29-Apr-2025	01-May-2025	28 days	3 days	✓	02-May-2025	28 days	3 days	✓
Anions and Nutrients : Ammonia by Fluorescence										
Amber glass total (sulfuric acid) [ON MECP] OW-7S	E298	29-Apr-2025	01-May-2025	28 days	3 days	✓	02-May-2025	28 days	3 days	✓



Matrix: **Water** Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Anions and Nutrients : Ammonia by Fluorescence										
Amber glass total (sulfuric acid) [ON MECP] OW-10D	E298	29-Apr-2025	02-May-2025	28 days	4 days	✓	05-May-2025	28 days	4 days	✓
Anions and Nutrients : Ammonia by Fluorescence										
Amber glass total (sulfuric acid) [ON MECP] OW-10S	E298	29-Apr-2025	02-May-2025	28 days	4 days	✓	05-May-2025	28 days	4 days	✓
Anions and Nutrients : Ammonia by Fluorescence										
Amber glass total (sulfuric acid) [ON MECP] OW-12D	E298	29-Apr-2025	02-May-2025	28 days	4 days	✓	05-May-2025	28 days	4 days	✓
Anions and Nutrients : Ammonia by Fluorescence										
Amber glass total (sulfuric acid) [ON MECP] OW-12S	E298	29-Apr-2025	02-May-2025	28 days	4 days	✓	05-May-2025	28 days	4 days	✓
Anions and Nutrients : Ammonia by Fluorescence										
Amber glass total (sulfuric acid) [ON MECP] OW-13D	E298	29-Apr-2025	02-May-2025	28 days	4 days	✓	05-May-2025	28 days	4 days	✓
Anions and Nutrients : Ammonia by Fluorescence										
Amber glass total (sulfuric acid) [ON MECP] OW-13S	E298	29-Apr-2025	02-May-2025	28 days	4 days	✓	05-May-2025	28 days	4 days	✓
Anions and Nutrients : Ammonia by Fluorescence										
Amber glass total (sulfuric acid) [ON MECP] OW-16D	E298	29-Apr-2025	02-May-2025	28 days	4 days	✓	05-May-2025	28 days	4 days	✓
Anions and Nutrients : Ammonia by Fluorescence										
Amber glass total (sulfuric acid) [ON MECP] OW-16S	E298	29-Apr-2025	02-May-2025	28 days	4 days	✓	05-May-2025	28 days	4 days	✓
Anions and Nutrients : Ammonia by Fluorescence										
Amber glass total (sulfuric acid) [ON MECP] OW-20D	E298	29-Apr-2025	02-May-2025	28 days	4 days	✓	05-May-2025	28 days	4 days	✓



Matrix: **Water** Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Anions and Nutrients : Ammonia by Fluorescence										
Amber glass total (sulfuric acid) [ON MECP] OW-20S	E298	29-Apr-2025	02-May-2025	28 days	4 days	✓	05-May-2025	28 days	4 days	✓
Anions and Nutrients : Ammonia by Fluorescence										
Amber glass total (sulfuric acid) [ON MECP] OW-7D	E298	29-Apr-2025	02-May-2025	28 days	4 days	✓	05-May-2025	28 days	4 days	✓
Anions and Nutrients : Ammonia by Fluorescence										
Amber glass total (sulfuric acid) [ON MECP] OW-8	E298	29-Apr-2025	02-May-2025	28 days	4 days	✓	05-May-2025	28 days	4 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE [ON MECP] OW-1	E235.Cl	29-Apr-2025	01-May-2025	28 days	3 days	✓	02-May-2025	28 days	3 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE [ON MECP] OW-10D	E235.Cl	29-Apr-2025	01-May-2025	28 days	3 days	✓	02-May-2025	28 days	3 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE [ON MECP] OW-10S	E235.Cl	29-Apr-2025	01-May-2025	28 days	3 days	✓	02-May-2025	28 days	3 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE [ON MECP] OW-12D	E235.Cl	29-Apr-2025	01-May-2025	28 days	3 days	✓	02-May-2025	28 days	3 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE [ON MECP] OW-12S	E235.Cl	29-Apr-2025	01-May-2025	28 days	3 days	✓	02-May-2025	28 days	3 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE [ON MECP] OW-13D	E235.Cl	29-Apr-2025	01-May-2025	28 days	3 days	✓	02-May-2025	28 days	3 days	✓



Matrix: **Water** Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Anions and Nutrients : Chloride in Water by IC										
HDPE [ON MECP] OW-13S	E235.Cl	29-Apr-2025	01-May-2025	28 days	3 days	✓	02-May-2025	28 days	3 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE [ON MECP] OW-16D	E235.Cl	29-Apr-2025	01-May-2025	28 days	3 days	✓	02-May-2025	28 days	3 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE [ON MECP] OW-16S	E235.Cl	29-Apr-2025	01-May-2025	28 days	3 days	✓	02-May-2025	28 days	3 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE [ON MECP] OW-20D	E235.Cl	29-Apr-2025	01-May-2025	28 days	3 days	✓	02-May-2025	28 days	3 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE [ON MECP] OW-20S	E235.Cl	29-Apr-2025	01-May-2025	28 days	3 days	✓	02-May-2025	28 days	3 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE [ON MECP] OW-2D	E235.Cl	29-Apr-2025	01-May-2025	28 days	3 days	✓	02-May-2025	28 days	3 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE [ON MECP] OW-2S	E235.Cl	29-Apr-2025	01-May-2025	28 days	3 days	✓	02-May-2025	28 days	3 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE [ON MECP] OW-3D	E235.Cl	29-Apr-2025	01-May-2025	28 days	3 days	✓	02-May-2025	28 days	3 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE [ON MECP] OW-3S	E235.Cl	29-Apr-2025	01-May-2025	28 days	3 days	✓	02-May-2025	28 days	3 days	✓



Matrix: **Water** Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Anions and Nutrients : Chloride in Water by IC										
HDPE [ON MECP] OW-5	E235.Cl	29-Apr-2025	01-May-2025	28 days	3 days	✓	02-May-2025	28 days	3 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE [ON MECP] OW-7D	E235.Cl	29-Apr-2025	01-May-2025	28 days	3 days	✓	02-May-2025	28 days	3 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE [ON MECP] OW-7S	E235.Cl	29-Apr-2025	01-May-2025	28 days	3 days	✓	02-May-2025	28 days	3 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE [ON MECP] OW-8	E235.Cl	29-Apr-2025	01-May-2025	28 days	3 days	✓	02-May-2025	28 days	3 days	✓
Anions and Nutrients : Dissolved Orthophosphate by Colourimetry (Ultra Trace Level 0.001 mg/L)										
HDPE [ON MECP] OW-1	E378-U	29-Apr-2025	01-May-2025	7 days	3 days	✓	02-May-2025	7 days	3 days	✓
Anions and Nutrients : Dissolved Orthophosphate by Colourimetry (Ultra Trace Level 0.001 mg/L)										
HDPE [ON MECP] OW-10D	E378-U	29-Apr-2025	01-May-2025	7 days	3 days	✓	02-May-2025	7 days	3 days	✓
Anions and Nutrients : Dissolved Orthophosphate by Colourimetry (Ultra Trace Level 0.001 mg/L)										
HDPE [ON MECP] OW-10S	E378-U	29-Apr-2025	01-May-2025	7 days	3 days	✓	02-May-2025	7 days	3 days	✓
Anions and Nutrients : Dissolved Orthophosphate by Colourimetry (Ultra Trace Level 0.001 mg/L)										
HDPE [ON MECP] OW-12D	E378-U	29-Apr-2025	01-May-2025	7 days	3 days	✓	02-May-2025	7 days	3 days	✓
Anions and Nutrients : Dissolved Orthophosphate by Colourimetry (Ultra Trace Level 0.001 mg/L)										
HDPE [ON MECP] OW-12S	E378-U	29-Apr-2025	01-May-2025	7 days	3 days	✓	02-May-2025	7 days	3 days	✓



Matrix: **Water** Evaluation: **x** = Holding time exceedance ; **✓** = Within Holding Time

Analyte Group : Analytical Method Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Anions and Nutrients : Dissolved Orthophosphate by Colourimetry (Ultra Trace Level 0.001 mg/L)										
HDPE [ON MECP] OW-13D	E378-U	29-Apr-2025	01-May-2025	7 days	3 days	✓	02-May-2025	7 days	3 days	✓
Anions and Nutrients : Dissolved Orthophosphate by Colourimetry (Ultra Trace Level 0.001 mg/L)										
HDPE [ON MECP] OW-13S	E378-U	29-Apr-2025	01-May-2025	7 days	3 days	✓	02-May-2025	7 days	3 days	✓
Anions and Nutrients : Dissolved Orthophosphate by Colourimetry (Ultra Trace Level 0.001 mg/L)										
HDPE [ON MECP] OW-16D	E378-U	29-Apr-2025	01-May-2025	7 days	3 days	✓	02-May-2025	7 days	3 days	✓
Anions and Nutrients : Dissolved Orthophosphate by Colourimetry (Ultra Trace Level 0.001 mg/L)										
HDPE [ON MECP] OW-16S	E378-U	29-Apr-2025	01-May-2025	7 days	3 days	✓	02-May-2025	7 days	3 days	✓
Anions and Nutrients : Dissolved Orthophosphate by Colourimetry (Ultra Trace Level 0.001 mg/L)										
HDPE [ON MECP] OW-20D	E378-U	29-Apr-2025	01-May-2025	7 days	3 days	✓	02-May-2025	7 days	3 days	✓
Anions and Nutrients : Dissolved Orthophosphate by Colourimetry (Ultra Trace Level 0.001 mg/L)										
HDPE [ON MECP] OW-20S	E378-U	29-Apr-2025	01-May-2025	7 days	3 days	✓	02-May-2025	7 days	3 days	✓
Anions and Nutrients : Dissolved Orthophosphate by Colourimetry (Ultra Trace Level 0.001 mg/L)										
HDPE [ON MECP] OW-2D	E378-U	29-Apr-2025	01-May-2025	7 days	3 days	✓	02-May-2025	7 days	3 days	✓
Anions and Nutrients : Dissolved Orthophosphate by Colourimetry (Ultra Trace Level 0.001 mg/L)										
HDPE [ON MECP] OW-2S	E378-U	29-Apr-2025	01-May-2025	7 days	3 days	✓	02-May-2025	7 days	3 days	✓
Anions and Nutrients : Dissolved Orthophosphate by Colourimetry (Ultra Trace Level 0.001 mg/L)										
HDPE [ON MECP] OW-3D	E378-U	29-Apr-2025	01-May-2025	7 days	3 days	✓	02-May-2025	7 days	3 days	✓



Matrix: **Water** Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Anions and Nutrients : Dissolved Orthophosphate by Colourimetry (Ultra Trace Level 0.001 mg/L)										
HDPE [ON MECP] OW-3S	E378-U	29-Apr-2025	01-May-2025	7 days	3 days	✓	02-May-2025	7 days	3 days	✓
Anions and Nutrients : Dissolved Orthophosphate by Colourimetry (Ultra Trace Level 0.001 mg/L)										
HDPE [ON MECP] OW-5	E378-U	29-Apr-2025	01-May-2025	7 days	3 days	✓	02-May-2025	7 days	3 days	✓
Anions and Nutrients : Dissolved Orthophosphate by Colourimetry (Ultra Trace Level 0.001 mg/L)										
HDPE [ON MECP] OW-7D	E378-U	29-Apr-2025	01-May-2025	7 days	3 days	✓	02-May-2025	7 days	3 days	✓
Anions and Nutrients : Dissolved Orthophosphate by Colourimetry (Ultra Trace Level 0.001 mg/L)										
HDPE [ON MECP] OW-7S	E378-U	29-Apr-2025	01-May-2025	7 days	3 days	✓	02-May-2025	7 days	3 days	✓
Anions and Nutrients : Dissolved Orthophosphate by Colourimetry (Ultra Trace Level 0.001 mg/L)										
HDPE [ON MECP] OW-8	E378-U	29-Apr-2025	01-May-2025	7 days	3 days	✓	02-May-2025	7 days	3 days	✓
Anions and Nutrients : Fluoride in Water by IC										
HDPE [ON MECP] OW-1	E235.F	29-Apr-2025	01-May-2025	28 days	3 days	✓	02-May-2025	28 days	3 days	✓
Anions and Nutrients : Fluoride in Water by IC										
HDPE [ON MECP] OW-10D	E235.F	29-Apr-2025	01-May-2025	28 days	3 days	✓	02-May-2025	28 days	3 days	✓
Anions and Nutrients : Fluoride in Water by IC										
HDPE [ON MECP] OW-10S	E235.F	29-Apr-2025	01-May-2025	28 days	3 days	✓	02-May-2025	28 days	3 days	✓
Anions and Nutrients : Fluoride in Water by IC										
HDPE [ON MECP] OW-12D	E235.F	29-Apr-2025	01-May-2025	28 days	3 days	✓	02-May-2025	28 days	3 days	✓



Matrix: **Water** Evaluation: **x** = Holding time exceedance ; **✓** = Within Holding Time

Analyte Group : Analytical Method Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Anions and Nutrients : Fluoride in Water by IC										
HDPE [ON MECP] OW-12S	E235.F	29-Apr-2025	01-May-2025	28 days	3 days	✓	02-May-2025	28 days	3 days	✓
Anions and Nutrients : Fluoride in Water by IC										
HDPE [ON MECP] OW-13D	E235.F	29-Apr-2025	01-May-2025	28 days	3 days	✓	02-May-2025	28 days	3 days	✓
Anions and Nutrients : Fluoride in Water by IC										
HDPE [ON MECP] OW-13S	E235.F	29-Apr-2025	01-May-2025	28 days	3 days	✓	02-May-2025	28 days	3 days	✓
Anions and Nutrients : Fluoride in Water by IC										
HDPE [ON MECP] OW-16D	E235.F	29-Apr-2025	01-May-2025	28 days	3 days	✓	02-May-2025	28 days	3 days	✓
Anions and Nutrients : Fluoride in Water by IC										
HDPE [ON MECP] OW-16S	E235.F	29-Apr-2025	01-May-2025	28 days	3 days	✓	02-May-2025	28 days	3 days	✓
Anions and Nutrients : Fluoride in Water by IC										
HDPE [ON MECP] OW-20D	E235.F	29-Apr-2025	01-May-2025	28 days	3 days	✓	02-May-2025	28 days	3 days	✓
Anions and Nutrients : Fluoride in Water by IC										
HDPE [ON MECP] OW-20S	E235.F	29-Apr-2025	01-May-2025	28 days	3 days	✓	02-May-2025	28 days	3 days	✓
Anions and Nutrients : Fluoride in Water by IC										
HDPE [ON MECP] OW-2D	E235.F	29-Apr-2025	01-May-2025	28 days	3 days	✓	02-May-2025	28 days	3 days	✓
Anions and Nutrients : Fluoride in Water by IC										
HDPE [ON MECP] OW-2S	E235.F	29-Apr-2025	01-May-2025	28 days	3 days	✓	02-May-2025	28 days	3 days	✓



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Analyte Group : Analytical Method Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Anions and Nutrients : Fluoride in Water by IC										
HDPE [ON MECP] OW-3D	E235.F	29-Apr-2025	01-May-2025	28 days	3 days	✓	02-May-2025	28 days	3 days	✓
Anions and Nutrients : Fluoride in Water by IC										
HDPE [ON MECP] OW-3S	E235.F	29-Apr-2025	01-May-2025	28 days	3 days	✓	02-May-2025	28 days	3 days	✓
Anions and Nutrients : Fluoride in Water by IC										
HDPE [ON MECP] OW-5	E235.F	29-Apr-2025	01-May-2025	28 days	3 days	✓	02-May-2025	28 days	3 days	✓
Anions and Nutrients : Fluoride in Water by IC										
HDPE [ON MECP] OW-7D	E235.F	29-Apr-2025	01-May-2025	28 days	3 days	✓	02-May-2025	28 days	3 days	✓
Anions and Nutrients : Fluoride in Water by IC										
HDPE [ON MECP] OW-7S	E235.F	29-Apr-2025	01-May-2025	28 days	3 days	✓	02-May-2025	28 days	3 days	✓
Anions and Nutrients : Fluoride in Water by IC										
HDPE [ON MECP] OW-8	E235.F	29-Apr-2025	01-May-2025	28 days	3 days	✓	02-May-2025	28 days	3 days	✓
Anions and Nutrients : Nitrate in Water by IC										
HDPE [ON MECP] OW-1	E235.NO3	29-Apr-2025	01-May-2025	7 days	3 days	✓	02-May-2025	7 days	3 days	✓
Anions and Nutrients : Nitrate in Water by IC										
HDPE [ON MECP] OW-10D	E235.NO3	29-Apr-2025	01-May-2025	7 days	3 days	✓	02-May-2025	7 days	3 days	✓
Anions and Nutrients : Nitrate in Water by IC										
HDPE [ON MECP] OW-10S	E235.NO3	29-Apr-2025	01-May-2025	7 days	3 days	✓	02-May-2025	7 days	3 days	✓



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Analyte Group : Analytical Method Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Anions and Nutrients : Nitrate in Water by IC										
HDPE [ON MECP] OW-12D	E235.NO3	29-Apr-2025	01-May-2025	7 days	3 days	✓	02-May-2025	7 days	3 days	✓
Anions and Nutrients : Nitrate in Water by IC										
HDPE [ON MECP] OW-12S	E235.NO3	29-Apr-2025	01-May-2025	7 days	3 days	✓	02-May-2025	7 days	3 days	✓
Anions and Nutrients : Nitrate in Water by IC										
HDPE [ON MECP] OW-13D	E235.NO3	29-Apr-2025	01-May-2025	7 days	3 days	✓	02-May-2025	7 days	3 days	✓
Anions and Nutrients : Nitrate in Water by IC										
HDPE [ON MECP] OW-13S	E235.NO3	29-Apr-2025	01-May-2025	7 days	3 days	✓	02-May-2025	7 days	3 days	✓
Anions and Nutrients : Nitrate in Water by IC										
HDPE [ON MECP] OW-16D	E235.NO3	29-Apr-2025	01-May-2025	7 days	3 days	✓	02-May-2025	7 days	3 days	✓
Anions and Nutrients : Nitrate in Water by IC										
HDPE [ON MECP] OW-16S	E235.NO3	29-Apr-2025	01-May-2025	7 days	3 days	✓	02-May-2025	7 days	3 days	✓
Anions and Nutrients : Nitrate in Water by IC										
HDPE [ON MECP] OW-20D	E235.NO3	29-Apr-2025	01-May-2025	7 days	3 days	✓	02-May-2025	7 days	3 days	✓
Anions and Nutrients : Nitrate in Water by IC										
HDPE [ON MECP] OW-20S	E235.NO3	29-Apr-2025	01-May-2025	7 days	3 days	✓	02-May-2025	7 days	3 days	✓
Anions and Nutrients : Nitrate in Water by IC										
HDPE [ON MECP] OW-2D	E235.NO3	29-Apr-2025	01-May-2025	7 days	3 days	✓	02-May-2025	7 days	3 days	✓



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Analyte Group : Analytical Method Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Anions and Nutrients : Nitrate in Water by IC										
HDPE [ON MECP] OW-2S	E235.NO3	29-Apr-2025	01-May-2025	7 days	3 days	✓	02-May-2025	7 days	3 days	✓
Anions and Nutrients : Nitrate in Water by IC										
HDPE [ON MECP] OW-3D	E235.NO3	29-Apr-2025	01-May-2025	7 days	3 days	✓	02-May-2025	7 days	3 days	✓
Anions and Nutrients : Nitrate in Water by IC										
HDPE [ON MECP] OW-3S	E235.NO3	29-Apr-2025	01-May-2025	7 days	3 days	✓	02-May-2025	7 days	3 days	✓
Anions and Nutrients : Nitrate in Water by IC										
HDPE [ON MECP] OW-5	E235.NO3	29-Apr-2025	01-May-2025	7 days	3 days	✓	02-May-2025	7 days	3 days	✓
Anions and Nutrients : Nitrate in Water by IC										
HDPE [ON MECP] OW-7D	E235.NO3	29-Apr-2025	01-May-2025	7 days	3 days	✓	02-May-2025	7 days	3 days	✓
Anions and Nutrients : Nitrate in Water by IC										
HDPE [ON MECP] OW-7S	E235.NO3	29-Apr-2025	01-May-2025	7 days	3 days	✓	02-May-2025	7 days	3 days	✓
Anions and Nutrients : Nitrate in Water by IC										
HDPE [ON MECP] OW-8	E235.NO3	29-Apr-2025	01-May-2025	7 days	3 days	✓	02-May-2025	7 days	3 days	✓
Anions and Nutrients : Nitrite in Water by IC										
HDPE [ON MECP] OW-1	E235.NO2	29-Apr-2025	01-May-2025	7 days	3 days	✓	02-May-2025	7 days	3 days	✓
Anions and Nutrients : Nitrite in Water by IC										
HDPE [ON MECP] OW-10D	E235.NO2	29-Apr-2025	01-May-2025	7 days	3 days	✓	02-May-2025	7 days	3 days	✓



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Analyte Group : Analytical Method Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Anions and Nutrients : Nitrite in Water by IC										
HDPE [ON MECP] OW-10S	E235.NO2	29-Apr-2025	01-May-2025	7 days	3 days	✓	02-May-2025	7 days	3 days	✓
Anions and Nutrients : Nitrite in Water by IC										
HDPE [ON MECP] OW-12D	E235.NO2	29-Apr-2025	01-May-2025	7 days	3 days	✓	02-May-2025	7 days	3 days	✓
Anions and Nutrients : Nitrite in Water by IC										
HDPE [ON MECP] OW-12S	E235.NO2	29-Apr-2025	01-May-2025	7 days	3 days	✓	02-May-2025	7 days	3 days	✓
Anions and Nutrients : Nitrite in Water by IC										
HDPE [ON MECP] OW-13D	E235.NO2	29-Apr-2025	01-May-2025	7 days	3 days	✓	02-May-2025	7 days	3 days	✓
Anions and Nutrients : Nitrite in Water by IC										
HDPE [ON MECP] OW-13S	E235.NO2	29-Apr-2025	01-May-2025	7 days	3 days	✓	02-May-2025	7 days	3 days	✓
Anions and Nutrients : Nitrite in Water by IC										
HDPE [ON MECP] OW-16D	E235.NO2	29-Apr-2025	01-May-2025	7 days	3 days	✓	02-May-2025	7 days	3 days	✓
Anions and Nutrients : Nitrite in Water by IC										
HDPE [ON MECP] OW-16S	E235.NO2	29-Apr-2025	01-May-2025	7 days	3 days	✓	02-May-2025	7 days	3 days	✓
Anions and Nutrients : Nitrite in Water by IC										
HDPE [ON MECP] OW-20D	E235.NO2	29-Apr-2025	01-May-2025	7 days	3 days	✓	02-May-2025	7 days	3 days	✓
Anions and Nutrients : Nitrite in Water by IC										
HDPE [ON MECP] OW-20S	E235.NO2	29-Apr-2025	01-May-2025	7 days	3 days	✓	02-May-2025	7 days	3 days	✓



Matrix: **Water** Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Anions and Nutrients : Nitrite in Water by IC										
HDPE [ON MECP] OW-2D	E235.NO2	29-Apr-2025	01-May-2025	7 days	3 days	✓	02-May-2025	7 days	3 days	✓
Anions and Nutrients : Nitrite in Water by IC										
HDPE [ON MECP] OW-2S	E235.NO2	29-Apr-2025	01-May-2025	7 days	3 days	✓	02-May-2025	7 days	3 days	✓
Anions and Nutrients : Nitrite in Water by IC										
HDPE [ON MECP] OW-3D	E235.NO2	29-Apr-2025	01-May-2025	7 days	3 days	✓	02-May-2025	7 days	3 days	✓
Anions and Nutrients : Nitrite in Water by IC										
HDPE [ON MECP] OW-3S	E235.NO2	29-Apr-2025	01-May-2025	7 days	3 days	✓	02-May-2025	7 days	3 days	✓
Anions and Nutrients : Nitrite in Water by IC										
HDPE [ON MECP] OW-5	E235.NO2	29-Apr-2025	01-May-2025	7 days	3 days	✓	02-May-2025	7 days	3 days	✓
Anions and Nutrients : Nitrite in Water by IC										
HDPE [ON MECP] OW-7D	E235.NO2	29-Apr-2025	01-May-2025	7 days	3 days	✓	02-May-2025	7 days	3 days	✓
Anions and Nutrients : Nitrite in Water by IC										
HDPE [ON MECP] OW-7S	E235.NO2	29-Apr-2025	01-May-2025	7 days	3 days	✓	02-May-2025	7 days	3 days	✓
Anions and Nutrients : Nitrite in Water by IC										
HDPE [ON MECP] OW-8	E235.NO2	29-Apr-2025	01-May-2025	7 days	3 days	✓	02-May-2025	7 days	3 days	✓
Anions and Nutrients : Sulfate in Water by IC										
HDPE [ON MECP] OW-1	E235.SO4	29-Apr-2025	01-May-2025	28 days	3 days	✓	02-May-2025	28 days	3 days	✓



Matrix: **Water** Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Anions and Nutrients : Sulfate in Water by IC										
HDPE [ON MECP] OW-10D	E235.SO4	29-Apr-2025	01-May-2025	28 days	3 days	✓	02-May-2025	28 days	3 days	✓
Anions and Nutrients : Sulfate in Water by IC										
HDPE [ON MECP] OW-10S	E235.SO4	29-Apr-2025	01-May-2025	28 days	3 days	✓	02-May-2025	28 days	3 days	✓
Anions and Nutrients : Sulfate in Water by IC										
HDPE [ON MECP] OW-12D	E235.SO4	29-Apr-2025	01-May-2025	28 days	3 days	✓	02-May-2025	28 days	3 days	✓
Anions and Nutrients : Sulfate in Water by IC										
HDPE [ON MECP] OW-12S	E235.SO4	29-Apr-2025	01-May-2025	28 days	3 days	✓	02-May-2025	28 days	3 days	✓
Anions and Nutrients : Sulfate in Water by IC										
HDPE [ON MECP] OW-13D	E235.SO4	29-Apr-2025	01-May-2025	28 days	3 days	✓	02-May-2025	28 days	3 days	✓
Anions and Nutrients : Sulfate in Water by IC										
HDPE [ON MECP] OW-13S	E235.SO4	29-Apr-2025	01-May-2025	28 days	3 days	✓	02-May-2025	28 days	3 days	✓
Anions and Nutrients : Sulfate in Water by IC										
HDPE [ON MECP] OW-16D	E235.SO4	29-Apr-2025	01-May-2025	28 days	3 days	✓	02-May-2025	28 days	3 days	✓
Anions and Nutrients : Sulfate in Water by IC										
HDPE [ON MECP] OW-16S	E235.SO4	29-Apr-2025	01-May-2025	28 days	3 days	✓	02-May-2025	28 days	3 days	✓
Anions and Nutrients : Sulfate in Water by IC										
HDPE [ON MECP] OW-20D	E235.SO4	29-Apr-2025	01-May-2025	28 days	3 days	✓	02-May-2025	28 days	3 days	✓



Matrix: **Water** Evaluation: **x** = Holding time exceedance ; **✓** = Within Holding Time

Analyte Group : Analytical Method Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Anions and Nutrients : Sulfate in Water by IC										
HDPE [ON MECP] OW-20S	E235.SO4	29-Apr-2025	01-May-2025	28 days	3 days	✓	02-May-2025	28 days	3 days	✓
Anions and Nutrients : Sulfate in Water by IC										
HDPE [ON MECP] OW-2D	E235.SO4	29-Apr-2025	01-May-2025	28 days	3 days	✓	02-May-2025	28 days	3 days	✓
Anions and Nutrients : Sulfate in Water by IC										
HDPE [ON MECP] OW-2S	E235.SO4	29-Apr-2025	01-May-2025	28 days	3 days	✓	02-May-2025	28 days	3 days	✓
Anions and Nutrients : Sulfate in Water by IC										
HDPE [ON MECP] OW-3D	E235.SO4	29-Apr-2025	01-May-2025	28 days	3 days	✓	02-May-2025	28 days	3 days	✓
Anions and Nutrients : Sulfate in Water by IC										
HDPE [ON MECP] OW-3S	E235.SO4	29-Apr-2025	01-May-2025	28 days	3 days	✓	02-May-2025	28 days	3 days	✓
Anions and Nutrients : Sulfate in Water by IC										
HDPE [ON MECP] OW-5	E235.SO4	29-Apr-2025	01-May-2025	28 days	3 days	✓	02-May-2025	28 days	3 days	✓
Anions and Nutrients : Sulfate in Water by IC										
HDPE [ON MECP] OW-7D	E235.SO4	29-Apr-2025	01-May-2025	28 days	3 days	✓	02-May-2025	28 days	3 days	✓
Anions and Nutrients : Sulfate in Water by IC										
HDPE [ON MECP] OW-7S	E235.SO4	29-Apr-2025	01-May-2025	28 days	3 days	✓	02-May-2025	28 days	3 days	✓
Anions and Nutrients : Sulfate in Water by IC										
HDPE [ON MECP] OW-8	E235.SO4	29-Apr-2025	01-May-2025	28 days	3 days	✓	02-May-2025	28 days	3 days	✓



Matrix: **Water** Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid) OW-1	E421	29-Apr-2025	29-Apr-2025	180 days	1 days	✓	29-Apr-2025	180 days	1 days	✓
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid) OW-10D	E421	29-Apr-2025	29-Apr-2025	180 days	1 days	✓	29-Apr-2025	180 days	1 days	✓
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid) OW-10S	E421	29-Apr-2025	29-Apr-2025	180 days	1 days	✓	29-Apr-2025	180 days	1 days	✓
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid) OW-12D	E421	29-Apr-2025	29-Apr-2025	180 days	1 days	✓	29-Apr-2025	180 days	1 days	✓
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid) OW-12S	E421	29-Apr-2025	29-Apr-2025	180 days	1 days	✓	29-Apr-2025	180 days	1 days	✓
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid) OW-13D	E421	29-Apr-2025	29-Apr-2025	180 days	1 days	✓	29-Apr-2025	180 days	1 days	✓
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid) OW-13S	E421	29-Apr-2025	29-Apr-2025	180 days	1 days	✓	29-Apr-2025	180 days	1 days	✓
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid) OW-16D	E421	29-Apr-2025	29-Apr-2025	180 days	1 days	✓	29-Apr-2025	180 days	1 days	✓
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid) OW-16S	E421	29-Apr-2025	29-Apr-2025	180 days	1 days	✓	29-Apr-2025	180 days	1 days	✓



Matrix: **Water** Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method	Method	Sampling Date	Extraction / Preparation				Analysis			
Container / Client Sample ID(s)			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid) OW-20D	E421	29-Apr-2025	29-Apr-2025	180 days	1 days	✓	29-Apr-2025	180 days	1 days	✓
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid) OW-20S	E421	29-Apr-2025	29-Apr-2025	180 days	1 days	✓	29-Apr-2025	180 days	1 days	✓
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid) OW-2D	E421	29-Apr-2025	29-Apr-2025	180 days	1 days	✓	29-Apr-2025	180 days	1 days	✓
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid) OW-2S	E421	29-Apr-2025	29-Apr-2025	180 days	1 days	✓	29-Apr-2025	180 days	1 days	✓
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid) OW-3D	E421	29-Apr-2025	29-Apr-2025	180 days	1 days	✓	29-Apr-2025	180 days	1 days	✓
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid) OW-3S	E421	29-Apr-2025	29-Apr-2025	180 days	1 days	✓	29-Apr-2025	180 days	1 days	✓
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid) OW-5	E421	29-Apr-2025	29-Apr-2025	180 days	1 days	✓	29-Apr-2025	180 days	1 days	✓
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid) OW-7D	E421	29-Apr-2025	29-Apr-2025	180 days	1 days	✓	29-Apr-2025	180 days	1 days	✓
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid) OW-7S	E421	29-Apr-2025	29-Apr-2025	180 days	1 days	✓	29-Apr-2025	180 days	1 days	✓



Matrix: **Water** Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid) OW-8	E421	29-Apr-2025	29-Apr-2025	180 days	1 days	✓	29-Apr-2025	180 days	1 days	✓
Physical Tests : Alkalinity Species by Titration										
HDPE [ON MECP] OW-1	E290	29-Apr-2025	01-May-2025	14 days	3 days	✓	02-May-2025	14 days	3 days	✓
Physical Tests : Alkalinity Species by Titration										
HDPE [ON MECP] OW-10D	E290	29-Apr-2025	01-May-2025	14 days	3 days	✓	02-May-2025	14 days	3 days	✓
Physical Tests : Alkalinity Species by Titration										
HDPE [ON MECP] OW-10S	E290	29-Apr-2025	01-May-2025	14 days	3 days	✓	02-May-2025	14 days	3 days	✓
Physical Tests : Alkalinity Species by Titration										
HDPE [ON MECP] OW-12D	E290	29-Apr-2025	01-May-2025	14 days	3 days	✓	02-May-2025	14 days	3 days	✓
Physical Tests : Alkalinity Species by Titration										
HDPE [ON MECP] OW-12S	E290	29-Apr-2025	01-May-2025	14 days	3 days	✓	02-May-2025	14 days	3 days	✓
Physical Tests : Alkalinity Species by Titration										
HDPE [ON MECP] OW-13D	E290	29-Apr-2025	01-May-2025	14 days	3 days	✓	02-May-2025	14 days	3 days	✓
Physical Tests : Alkalinity Species by Titration										
HDPE [ON MECP] OW-13S	E290	29-Apr-2025	01-May-2025	14 days	3 days	✓	02-May-2025	14 days	3 days	✓
Physical Tests : Alkalinity Species by Titration										
HDPE [ON MECP] OW-16D	E290	29-Apr-2025	01-May-2025	14 days	3 days	✓	02-May-2025	14 days	3 days	✓



Matrix: **Water** Evaluation: **x** = Holding time exceedance ; **✓** = Within Holding Time

Analyte Group : Analytical Method Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Physical Tests : Alkalinity Species by Titration										
HDPE [ON MECP] OW-16S	E290	29-Apr-2025	01-May-2025	14 days	3 days	✓	02-May-2025	14 days	3 days	✓
Physical Tests : Alkalinity Species by Titration										
HDPE [ON MECP] OW-20D	E290	29-Apr-2025	01-May-2025	14 days	3 days	✓	02-May-2025	14 days	3 days	✓
Physical Tests : Alkalinity Species by Titration										
HDPE [ON MECP] OW-20S	E290	29-Apr-2025	01-May-2025	14 days	3 days	✓	02-May-2025	14 days	3 days	✓
Physical Tests : Alkalinity Species by Titration										
HDPE [ON MECP] OW-2D	E290	29-Apr-2025	01-May-2025	14 days	3 days	✓	02-May-2025	14 days	3 days	✓
Physical Tests : Alkalinity Species by Titration										
HDPE [ON MECP] OW-2S	E290	29-Apr-2025	01-May-2025	14 days	3 days	✓	02-May-2025	14 days	3 days	✓
Physical Tests : Alkalinity Species by Titration										
HDPE [ON MECP] OW-3D	E290	29-Apr-2025	01-May-2025	14 days	3 days	✓	02-May-2025	14 days	3 days	✓
Physical Tests : Alkalinity Species by Titration										
HDPE [ON MECP] OW-3S	E290	29-Apr-2025	01-May-2025	14 days	3 days	✓	02-May-2025	14 days	3 days	✓
Physical Tests : Alkalinity Species by Titration										
HDPE [ON MECP] OW-5	E290	29-Apr-2025	01-May-2025	14 days	3 days	✓	02-May-2025	14 days	3 days	✓
Physical Tests : Alkalinity Species by Titration										
HDPE [ON MECP] OW-7D	E290	29-Apr-2025	01-May-2025	14 days	3 days	✓	02-May-2025	14 days	3 days	✓



Matrix: **Water** Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method	Method	Sampling Date	Extraction / Preparation				Analysis			
Container / Client Sample ID(s)			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Physical Tests : Alkalinity Species by Titration										
HDPE [ON MECP] OW-7S	E290	29-Apr-2025	01-May-2025	14 days	3 days	✓	02-May-2025	14 days	3 days	✓
Physical Tests : Alkalinity Species by Titration										
HDPE [ON MECP] OW-8	E290	29-Apr-2025	01-May-2025	14 days	3 days	✓	02-May-2025	14 days	3 days	✓
Physical Tests : Colour (Apparent) by Spectrometer										
HDPE [ON MECP] OW-1	E330	29-Apr-2025	----	----	----		05-May-2025	48 hrs	155 hrs	✗ EHT
Physical Tests : Colour (Apparent) by Spectrometer										
HDPE [ON MECP] OW-10D	E330	29-Apr-2025	----	----	----		05-May-2025	48 hrs	155 hrs	✗ EHT
Physical Tests : Colour (Apparent) by Spectrometer										
HDPE [ON MECP] OW-10S	E330	29-Apr-2025	----	----	----		05-May-2025	48 hrs	155 hrs	✗ EHT
Physical Tests : Colour (Apparent) by Spectrometer										
HDPE [ON MECP] OW-12D	E330	29-Apr-2025	----	----	----		05-May-2025	48 hrs	155 hrs	✗ EHT
Physical Tests : Colour (Apparent) by Spectrometer										
HDPE [ON MECP] OW-12S	E330	29-Apr-2025	----	----	----		05-May-2025	48 hrs	155 hrs	✗ EHT
Physical Tests : Colour (Apparent) by Spectrometer										
HDPE [ON MECP] OW-13D	E330	29-Apr-2025	----	----	----		05-May-2025	48 hrs	155 hrs	✗ EHT
Physical Tests : Colour (Apparent) by Spectrometer										
HDPE [ON MECP] OW-13S	E330	29-Apr-2025	----	----	----		05-May-2025	48 hrs	155 hrs	✗ EHT



Matrix: **Water** Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method	Method	Sampling Date	Extraction / Preparation				Analysis			
Container / Client Sample ID(s)			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Physical Tests : Colour (Apparent) by Spectrometer										
HDPE [ON MECP] OW-16D	E330	29-Apr-2025	----	----	----		05-May-2025	48 hrs	155 hrs	✖ EHT
Physical Tests : Colour (Apparent) by Spectrometer										
HDPE [ON MECP] OW-16S	E330	29-Apr-2025	----	----	----		05-May-2025	48 hrs	155 hrs	✖ EHT
Physical Tests : Colour (Apparent) by Spectrometer										
HDPE [ON MECP] OW-20D	E330	29-Apr-2025	----	----	----		05-May-2025	48 hrs	155 hrs	✖ EHT
Physical Tests : Colour (Apparent) by Spectrometer										
HDPE [ON MECP] OW-20S	E330	29-Apr-2025	----	----	----		05-May-2025	48 hrs	155 hrs	✖ EHT
Physical Tests : Colour (Apparent) by Spectrometer										
HDPE [ON MECP] OW-2D	E330	29-Apr-2025	----	----	----		05-May-2025	48 hrs	155 hrs	✖ EHT
Physical Tests : Colour (Apparent) by Spectrometer										
HDPE [ON MECP] OW-2S	E330	29-Apr-2025	----	----	----		05-May-2025	48 hrs	155 hrs	✖ EHT
Physical Tests : Colour (Apparent) by Spectrometer										
HDPE [ON MECP] OW-3D	E330	29-Apr-2025	----	----	----		05-May-2025	48 hrs	155 hrs	✖ EHT
Physical Tests : Colour (Apparent) by Spectrometer										
HDPE [ON MECP] OW-3S	E330	29-Apr-2025	----	----	----		05-May-2025	48 hrs	155 hrs	✖ EHT
Physical Tests : Colour (Apparent) by Spectrometer										
HDPE [ON MECP] OW-5	E330	29-Apr-2025	----	----	----		05-May-2025	48 hrs	155 hrs	✖ EHT



Matrix: **Water** Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Physical Tests : Colour (Apparent) by Spectrometer										
HDPE [ON MECP] OW-7D	E330	29-Apr-2025	----	----	----		05-May-2025	48 hrs	155 hrs	✖ EHT
Physical Tests : Colour (Apparent) by Spectrometer										
HDPE [ON MECP] OW-7S	E330	29-Apr-2025	----	----	----		05-May-2025	48 hrs	155 hrs	✖ EHT
Physical Tests : Colour (Apparent) by Spectrometer										
HDPE [ON MECP] OW-8	E330	29-Apr-2025	----	----	----		05-May-2025	48 hrs	155 hrs	✖ EHT
Physical Tests : Conductivity in Water										
HDPE [ON MECP] OW-1	E100	29-Apr-2025	01-May-2025	28 days	3 days	✓	02-May-2025	28 days	3 days	✓
Physical Tests : Conductivity in Water										
HDPE [ON MECP] OW-10D	E100	29-Apr-2025	01-May-2025	28 days	3 days	✓	02-May-2025	28 days	3 days	✓
Physical Tests : Conductivity in Water										
HDPE [ON MECP] OW-10S	E100	29-Apr-2025	01-May-2025	28 days	3 days	✓	02-May-2025	28 days	3 days	✓
Physical Tests : Conductivity in Water										
HDPE [ON MECP] OW-12D	E100	29-Apr-2025	01-May-2025	28 days	3 days	✓	02-May-2025	28 days	3 days	✓
Physical Tests : Conductivity in Water										
HDPE [ON MECP] OW-12S	E100	29-Apr-2025	01-May-2025	28 days	3 days	✓	02-May-2025	28 days	3 days	✓
Physical Tests : Conductivity in Water										
HDPE [ON MECP] OW-13D	E100	29-Apr-2025	01-May-2025	28 days	3 days	✓	02-May-2025	28 days	3 days	✓



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Analyte Group : Analytical Method Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Physical Tests : Conductivity in Water										
HDPE [ON MECP] OW-13S	E100	29-Apr-2025	01-May-2025	28 days	3 days	✓	02-May-2025	28 days	3 days	✓
Physical Tests : Conductivity in Water										
HDPE [ON MECP] OW-16D	E100	29-Apr-2025	01-May-2025	28 days	3 days	✓	02-May-2025	28 days	3 days	✓
Physical Tests : Conductivity in Water										
HDPE [ON MECP] OW-16S	E100	29-Apr-2025	01-May-2025	28 days	3 days	✓	02-May-2025	28 days	3 days	✓
Physical Tests : Conductivity in Water										
HDPE [ON MECP] OW-20D	E100	29-Apr-2025	01-May-2025	28 days	3 days	✓	02-May-2025	28 days	3 days	✓
Physical Tests : Conductivity in Water										
HDPE [ON MECP] OW-20S	E100	29-Apr-2025	01-May-2025	28 days	3 days	✓	02-May-2025	28 days	3 days	✓
Physical Tests : Conductivity in Water										
HDPE [ON MECP] OW-2D	E100	29-Apr-2025	01-May-2025	28 days	3 days	✓	02-May-2025	28 days	3 days	✓
Physical Tests : Conductivity in Water										
HDPE [ON MECP] OW-2S	E100	29-Apr-2025	01-May-2025	28 days	3 days	✓	02-May-2025	28 days	3 days	✓
Physical Tests : Conductivity in Water										
HDPE [ON MECP] OW-3D	E100	29-Apr-2025	01-May-2025	28 days	3 days	✓	02-May-2025	28 days	3 days	✓
Physical Tests : Conductivity in Water										
HDPE [ON MECP] OW-3S	E100	29-Apr-2025	01-May-2025	28 days	3 days	✓	02-May-2025	28 days	3 days	✓



Matrix: **Water** Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Physical Tests : Conductivity in Water										
HDPE [ON MECP] OW-5	E100	29-Apr-2025	01-May-2025	28 days	3 days	✓	02-May-2025	28 days	3 days	✓
Physical Tests : Conductivity in Water										
HDPE [ON MECP] OW-7D	E100	29-Apr-2025	01-May-2025	28 days	3 days	✓	02-May-2025	28 days	3 days	✓
Physical Tests : Conductivity in Water										
HDPE [ON MECP] OW-7S	E100	29-Apr-2025	01-May-2025	28 days	3 days	✓	02-May-2025	28 days	3 days	✓
Physical Tests : Conductivity in Water										
HDPE [ON MECP] OW-8	E100	29-Apr-2025	01-May-2025	28 days	3 days	✓	02-May-2025	28 days	3 days	✓
Physical Tests : pH by Meter										
HDPE [ON MECP] OW-1	E108	29-Apr-2025	01-May-2025	14 days	3 days	✓	02-May-2025	14 days	3 days	✓
Physical Tests : pH by Meter										
HDPE [ON MECP] OW-10D	E108	29-Apr-2025	01-May-2025	14 days	3 days	✓	02-May-2025	14 days	3 days	✓
Physical Tests : pH by Meter										
HDPE [ON MECP] OW-10S	E108	29-Apr-2025	01-May-2025	14 days	3 days	✓	02-May-2025	14 days	3 days	✓
Physical Tests : pH by Meter										
HDPE [ON MECP] OW-12D	E108	29-Apr-2025	01-May-2025	14 days	3 days	✓	02-May-2025	14 days	3 days	✓
Physical Tests : pH by Meter										
HDPE [ON MECP] OW-12S	E108	29-Apr-2025	01-May-2025	14 days	3 days	✓	02-May-2025	14 days	3 days	✓



Matrix: **Water** Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Physical Tests : pH by Meter										
HDPE [ON MECP] OW-13D	E108	29-Apr-2025	01-May-2025	14 days	3 days	✓	02-May-2025	14 days	3 days	✓
Physical Tests : pH by Meter										
HDPE [ON MECP] OW-13S	E108	29-Apr-2025	01-May-2025	14 days	3 days	✓	02-May-2025	14 days	3 days	✓
Physical Tests : pH by Meter										
HDPE [ON MECP] OW-16D	E108	29-Apr-2025	01-May-2025	14 days	3 days	✓	02-May-2025	14 days	3 days	✓
Physical Tests : pH by Meter										
HDPE [ON MECP] OW-16S	E108	29-Apr-2025	01-May-2025	14 days	3 days	✓	02-May-2025	14 days	3 days	✓
Physical Tests : pH by Meter										
HDPE [ON MECP] OW-20D	E108	29-Apr-2025	01-May-2025	14 days	3 days	✓	02-May-2025	14 days	3 days	✓
Physical Tests : pH by Meter										
HDPE [ON MECP] OW-20S	E108	29-Apr-2025	01-May-2025	14 days	3 days	✓	02-May-2025	14 days	3 days	✓
Physical Tests : pH by Meter										
HDPE [ON MECP] OW-2D	E108	29-Apr-2025	01-May-2025	14 days	3 days	✓	02-May-2025	14 days	3 days	✓
Physical Tests : pH by Meter										
HDPE [ON MECP] OW-2S	E108	29-Apr-2025	01-May-2025	14 days	3 days	✓	02-May-2025	14 days	3 days	✓
Physical Tests : pH by Meter										
HDPE [ON MECP] OW-3D	E108	29-Apr-2025	01-May-2025	14 days	3 days	✓	02-May-2025	14 days	3 days	✓



Matrix: **Water** Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Physical Tests : pH by Meter										
HDPE [ON MECP] OW-3S	E108	29-Apr-2025	01-May-2025	14 days	3 days	✓	02-May-2025	14 days	3 days	✓
Physical Tests : pH by Meter										
HDPE [ON MECP] OW-5	E108	29-Apr-2025	01-May-2025	14 days	3 days	✓	02-May-2025	14 days	3 days	✓
Physical Tests : pH by Meter										
HDPE [ON MECP] OW-7D	E108	29-Apr-2025	01-May-2025	14 days	3 days	✓	02-May-2025	14 days	3 days	✓
Physical Tests : pH by Meter										
HDPE [ON MECP] OW-7S	E108	29-Apr-2025	01-May-2025	14 days	3 days	✓	02-May-2025	14 days	3 days	✓
Physical Tests : pH by Meter										
HDPE [ON MECP] OW-8	E108	29-Apr-2025	01-May-2025	14 days	3 days	✓	02-May-2025	14 days	3 days	✓
Physical Tests : TDS by Gravimetry										
HDPE [ON MECP] OW-1	E162	29-Apr-2025	----	----	----		02-May-2025	7 days	4 days	✓
Physical Tests : TDS by Gravimetry										
HDPE [ON MECP] OW-10D	E162	29-Apr-2025	----	----	----		02-May-2025	7 days	4 days	✓
Physical Tests : TDS by Gravimetry										
HDPE [ON MECP] OW-10S	E162	29-Apr-2025	----	----	----		02-May-2025	7 days	4 days	✓
Physical Tests : TDS by Gravimetry										
HDPE [ON MECP] OW-12D	E162	29-Apr-2025	----	----	----		02-May-2025	7 days	4 days	✓



Matrix: **Water** Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Physical Tests : TDS by Gravimetry										
HDPE [ON MECP] OW-12S	E162	29-Apr-2025	----	----	----		02-May-2025	7 days	4 days	✓
Physical Tests : TDS by Gravimetry										
HDPE [ON MECP] OW-13D	E162	29-Apr-2025	----	----	----		02-May-2025	7 days	4 days	✓
Physical Tests : TDS by Gravimetry										
HDPE [ON MECP] OW-13S	E162	29-Apr-2025	----	----	----		02-May-2025	7 days	4 days	✓
Physical Tests : TDS by Gravimetry										
HDPE [ON MECP] OW-16D	E162	29-Apr-2025	----	----	----		02-May-2025	7 days	4 days	✓
Physical Tests : TDS by Gravimetry										
HDPE [ON MECP] OW-16S	E162	29-Apr-2025	----	----	----		02-May-2025	7 days	4 days	✓
Physical Tests : TDS by Gravimetry										
HDPE [ON MECP] OW-20D	E162	29-Apr-2025	----	----	----		02-May-2025	7 days	4 days	✓
Physical Tests : TDS by Gravimetry										
HDPE [ON MECP] OW-20S	E162	29-Apr-2025	----	----	----		02-May-2025	7 days	4 days	✓
Physical Tests : TDS by Gravimetry										
HDPE [ON MECP] OW-2D	E162	29-Apr-2025	----	----	----		02-May-2025	7 days	4 days	✓
Physical Tests : TDS by Gravimetry										
HDPE [ON MECP] OW-2S	E162	29-Apr-2025	----	----	----		02-May-2025	7 days	4 days	✓



Matrix: **Water** Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Physical Tests : TDS by Gravimetry										
HDPE [ON MECP] OW-3D	E162	29-Apr-2025	----	----	----		02-May-2025	7 days	4 days	✓
Physical Tests : TDS by Gravimetry										
HDPE [ON MECP] OW-3S	E162	29-Apr-2025	----	----	----		02-May-2025	7 days	4 days	✓
Physical Tests : TDS by Gravimetry										
HDPE [ON MECP] OW-5	E162	29-Apr-2025	----	----	----		02-May-2025	7 days	4 days	✓
Physical Tests : TDS by Gravimetry										
HDPE [ON MECP] OW-7D	E162	29-Apr-2025	----	----	----		02-May-2025	7 days	4 days	✓
Physical Tests : TDS by Gravimetry										
HDPE [ON MECP] OW-7S	E162	29-Apr-2025	----	----	----		02-May-2025	7 days	4 days	✓
Physical Tests : TDS by Gravimetry										
HDPE [ON MECP] OW-8	E162	29-Apr-2025	----	----	----		02-May-2025	7 days	4 days	✓
Physical Tests : Turbidity by Nephelometry										
HDPE [ON MECP] OW-1	E121	29-Apr-2025	----	----	----		30-Apr-2025	48 hrs	34 hrs	✓
Physical Tests : Turbidity by Nephelometry										
HDPE [ON MECP] OW-10D	E121	29-Apr-2025	----	----	----		30-Apr-2025	48 hrs	34 hrs	✓
Physical Tests : Turbidity by Nephelometry										
HDPE [ON MECP] OW-10S	E121	29-Apr-2025	----	----	----		30-Apr-2025	48 hrs	34 hrs	✓



Matrix: **Water** Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Physical Tests : Turbidity by Nephelometry										
HDPE [ON MECP] OW-12D	E121	29-Apr-2025	----	----	----		30-Apr-2025	48 hrs	34 hrs	✓
Physical Tests : Turbidity by Nephelometry										
HDPE [ON MECP] OW-12S	E121	29-Apr-2025	----	----	----		30-Apr-2025	48 hrs	34 hrs	✓
Physical Tests : Turbidity by Nephelometry										
HDPE [ON MECP] OW-13D	E121	29-Apr-2025	----	----	----		30-Apr-2025	48 hrs	34 hrs	✓
Physical Tests : Turbidity by Nephelometry										
HDPE [ON MECP] OW-13S	E121	29-Apr-2025	----	----	----		30-Apr-2025	48 hrs	34 hrs	✓
Physical Tests : Turbidity by Nephelometry										
HDPE [ON MECP] OW-16D	E121	29-Apr-2025	----	----	----		30-Apr-2025	48 hrs	34 hrs	✓
Physical Tests : Turbidity by Nephelometry										
HDPE [ON MECP] OW-16S	E121	29-Apr-2025	----	----	----		30-Apr-2025	48 hrs	34 hrs	✓
Physical Tests : Turbidity by Nephelometry										
HDPE [ON MECP] OW-20D	E121	29-Apr-2025	----	----	----		30-Apr-2025	48 hrs	34 hrs	✓
Physical Tests : Turbidity by Nephelometry										
HDPE [ON MECP] OW-20S	E121	29-Apr-2025	----	----	----		30-Apr-2025	48 hrs	34 hrs	✓
Physical Tests : Turbidity by Nephelometry										
HDPE [ON MECP] OW-2D	E121	29-Apr-2025	----	----	----		30-Apr-2025	48 hrs	34 hrs	✓



Matrix: **Water** Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method	Method	Sampling Date	Extraction / Preparation				Analysis			
Container / Client Sample ID(s)			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Physical Tests : Turbidity by Nephelometry										
HDPE [ON MECP] OW-2S	E121	29-Apr-2025	----	----	----		30-Apr-2025	48 hrs	34 hrs	✓
Physical Tests : Turbidity by Nephelometry										
HDPE [ON MECP] OW-3D	E121	29-Apr-2025	----	----	----		30-Apr-2025	48 hrs	34 hrs	✓
Physical Tests : Turbidity by Nephelometry										
HDPE [ON MECP] OW-3S	E121	29-Apr-2025	----	----	----		30-Apr-2025	48 hrs	34 hrs	✓
Physical Tests : Turbidity by Nephelometry										
HDPE [ON MECP] OW-5	E121	29-Apr-2025	----	----	----		30-Apr-2025	48 hrs	34 hrs	✓
Physical Tests : Turbidity by Nephelometry										
HDPE [ON MECP] OW-7D	E121	29-Apr-2025	----	----	----		30-Apr-2025	48 hrs	34 hrs	✓
Physical Tests : Turbidity by Nephelometry										
HDPE [ON MECP] OW-7S	E121	29-Apr-2025	----	----	----		30-Apr-2025	48 hrs	34 hrs	✓
Physical Tests : Turbidity by Nephelometry										
HDPE [ON MECP] OW-8	E121	29-Apr-2025	----	----	----		30-Apr-2025	48 hrs	34 hrs	✓
Volatile Organic Compounds : VOCs (Eastern Canada List) by Headspace GC-MS										
Glass vial (sodium bisulfate) OW-1	E611D	29-Apr-2025	30-Apr-2025	14 days	1 days	✓	30-Apr-2025	14 days	1 days	✓
Volatile Organic Compounds : VOCs (Eastern Canada List) by Headspace GC-MS										
Glass vial (sodium bisulfate) OW-10D	E611D	29-Apr-2025	30-Apr-2025	14 days	1 days	✓	30-Apr-2025	14 days	1 days	✓



Matrix: **Water** Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

<i>Analyte Group : Analytical Method</i>	<i>Method</i>	<i>Sampling Date</i>	<i>Extraction / Preparation</i>				<i>Analysis</i>			
Container / Client Sample ID(s)			<i>Preparation Date</i>	<i>Holding Times</i>		<i>Eval</i>	<i>Analysis Date</i>	<i>Holding Times</i>		<i>Eval</i>
				<i>Rec</i>	<i>Actual</i>			<i>Rec</i>	<i>Actual</i>	
Volatile Organic Compounds : VOCs (Eastern Canada List) by Headspace GC-MS										
Glass vial (sodium bisulfate) OW-10S	E611D	29-Apr-2025	30-Apr-2025	14 days	1 days	✓	30-Apr-2025	14 days	1 days	✓
Volatile Organic Compounds : VOCs (Eastern Canada List) by Headspace GC-MS										
Glass vial (sodium bisulfate) OW-12D	E611D	29-Apr-2025	30-Apr-2025	14 days	1 days	✓	30-Apr-2025	14 days	1 days	✓
Volatile Organic Compounds : VOCs (Eastern Canada List) by Headspace GC-MS										
Glass vial (sodium bisulfate) OW-12S	E611D	29-Apr-2025	30-Apr-2025	14 days	1 days	✓	30-Apr-2025	14 days	1 days	✓
Volatile Organic Compounds : VOCs (Eastern Canada List) by Headspace GC-MS										
Glass vial (sodium bisulfate) OW-13D	E611D	29-Apr-2025	30-Apr-2025	14 days	1 days	✓	30-Apr-2025	14 days	1 days	✓
Volatile Organic Compounds : VOCs (Eastern Canada List) by Headspace GC-MS										
Glass vial (sodium bisulfate) OW-13S	E611D	29-Apr-2025	30-Apr-2025	14 days	1 days	✓	30-Apr-2025	14 days	1 days	✓
Volatile Organic Compounds : VOCs (Eastern Canada List) by Headspace GC-MS										
Glass vial (sodium bisulfate) OW-16D	E611D	29-Apr-2025	30-Apr-2025	14 days	1 days	✓	30-Apr-2025	14 days	1 days	✓
Volatile Organic Compounds : VOCs (Eastern Canada List) by Headspace GC-MS										
Glass vial (sodium bisulfate) OW-16S	E611D	29-Apr-2025	30-Apr-2025	14 days	1 days	✓	30-Apr-2025	14 days	1 days	✓
Volatile Organic Compounds : VOCs (Eastern Canada List) by Headspace GC-MS										
Glass vial (sodium bisulfate) OW-20D	E611D	29-Apr-2025	30-Apr-2025	14 days	1 days	✓	30-Apr-2025	14 days	1 days	✓
Volatile Organic Compounds : VOCs (Eastern Canada List) by Headspace GC-MS										
Glass vial (sodium bisulfate) OW-20S	E611D	29-Apr-2025	30-Apr-2025	14 days	1 days	✓	30-Apr-2025	14 days	1 days	✓



Matrix: **Water** Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Volatile Organic Compounds : VOCs (Eastern Canada List) by Headspace GC-MS										
Glass vial (sodium bisulfate) OW-2D	E611D	29-Apr-2025	30-Apr-2025	14 days	1 days	✓	30-Apr-2025	14 days	1 days	✓
Volatile Organic Compounds : VOCs (Eastern Canada List) by Headspace GC-MS										
Glass vial (sodium bisulfate) OW-2S	E611D	29-Apr-2025	30-Apr-2025	14 days	1 days	✓	30-Apr-2025	14 days	1 days	✓
Volatile Organic Compounds : VOCs (Eastern Canada List) by Headspace GC-MS										
Glass vial (sodium bisulfate) OW-3D	E611D	29-Apr-2025	30-Apr-2025	14 days	1 days	✓	30-Apr-2025	14 days	1 days	✓
Volatile Organic Compounds : VOCs (Eastern Canada List) by Headspace GC-MS										
Glass vial (sodium bisulfate) OW-3S	E611D	29-Apr-2025	30-Apr-2025	14 days	1 days	✓	30-Apr-2025	14 days	1 days	✓
Volatile Organic Compounds : VOCs (Eastern Canada List) by Headspace GC-MS										
Glass vial (sodium bisulfate) OW-5	E611D	29-Apr-2025	30-Apr-2025	14 days	1 days	✓	30-Apr-2025	14 days	1 days	✓
Volatile Organic Compounds : VOCs (Eastern Canada List) by Headspace GC-MS										
Glass vial (sodium bisulfate) OW-7D	E611D	29-Apr-2025	30-Apr-2025	14 days	1 days	✓	30-Apr-2025	14 days	1 days	✓
Volatile Organic Compounds : VOCs (Eastern Canada List) by Headspace GC-MS										
Glass vial (sodium bisulfate) OW-7S	E611D	29-Apr-2025	30-Apr-2025	14 days	1 days	✓	30-Apr-2025	14 days	1 days	✓
Volatile Organic Compounds : VOCs (Eastern Canada List) by Headspace GC-MS										
Glass vial (sodium bisulfate) OW-8	E611D	29-Apr-2025	30-Apr-2025	14 days	1 days	✓	30-Apr-2025	14 days	1 days	✓

Legend & Qualifier Definitions

EHT: Exceeded ALS recommended hold time prior to analysis.

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



Quality Control Parameter Frequency Compliance

The following report summarizes the frequency of laboratory QC samples analyzed within the analytical batches (QC lots) in which the submitted samples were processed. The actual frequency should be greater than or equal to the expected frequency.

Matrix: **Water** Evaluation: ✖ = QC frequency outside specification; ✔ = QC frequency within specification.

Quality Control Sample Type			Count		Frequency (%)		
Analytical Methods	Method	QC Lot #	QC	Regular	Actual	Expected	Evaluation
Laboratory Duplicates (DUP)							
Conductivity in Water	E100	1974704	1	20	5.0	5.0	✓
pH by Meter	E108	1974706	1	20	5.0	5.0	✓
Turbidity by Nephelometry	E121	1972668	1	19	5.2	5.0	✓
TDS by Gravimetry	E162	1976905	1	19	5.2	5.0	✓
Chloride in Water by IC	E235.Cl	1974701	1	20	5.0	5.0	✓
Fluoride in Water by IC	E235.F	1974703	1	19	5.2	5.0	✓
Nitrite in Water by IC	E235.NO2	1974702	1	20	5.0	5.0	✓
Nitrate in Water by IC	E235.NO3	1974699	1	20	5.0	5.0	✓
Sulfate in Water by IC	E235.SO4	1974700	1	20	5.0	5.0	✓
Alkalinity Species by Titration	E290	1974705	1	20	5.0	5.0	✓
Ammonia by Fluorescence	E298	1974690	3	60	5.0	5.0	✓
Colour (Apparent) by Spectrometer	E330	1980069	2	40	5.0	5.0	✓
Dissolved Orthophosphate by Colourimetry (Ultra Trace Level 0.001 mg/L)	E378-U	1974707	1	20	5.0	5.0	✓
Dissolved Metals in Water by CRC ICPMS	E421	1971968	1	19	5.2	5.0	✓
VOCs (Eastern Canada List) by Headspace GC-MS	E611D	1972270	1	20	5.0	5.0	✓
Laboratory Control Samples (LCS)							
Conductivity in Water	E100	1974704	1	20	5.0	5.0	✓
pH by Meter	E108	1974706	1	20	5.0	5.0	✓
Turbidity by Nephelometry	E121	1972668	1	19	5.2	5.0	✓
TDS by Gravimetry	E162	1976905	1	19	5.2	5.0	✓
Chloride in Water by IC	E235.Cl	1974701	1	20	5.0	5.0	✓
Fluoride in Water by IC	E235.F	1974703	1	19	5.2	5.0	✓
Nitrite in Water by IC	E235.NO2	1974702	1	20	5.0	5.0	✓
Nitrate in Water by IC	E235.NO3	1974699	1	20	5.0	5.0	✓
Sulfate in Water by IC	E235.SO4	1974700	1	20	5.0	5.0	✓
Alkalinity Species by Titration	E290	1974705	1	20	5.0	5.0	✓
Ammonia by Fluorescence	E298	1974690	3	60	5.0	5.0	✓
Colour (Apparent) by Spectrometer	E330	1980069	2	40	5.0	5.0	✓
Dissolved Orthophosphate by Colourimetry (Ultra Trace Level 0.001 mg/L)	E378-U	1974707	1	20	5.0	5.0	✓
Dissolved Metals in Water by CRC ICPMS	E421	1971968	1	19	5.2	5.0	✓
VOCs (Eastern Canada List) by Headspace GC-MS	E611D	1972270	1	20	5.0	5.0	✓
Method Blanks (MB)							
Conductivity in Water	E100	1974704	1	20	5.0	5.0	✓
Turbidity by Nephelometry	E121	1972668	1	19	5.2	5.0	✓
TDS by Gravimetry	E162	1976905	1	19	5.2	5.0	✓



Matrix: **Water**

Evaluation: ✖ = QC frequency outside specification; ✔ = QC frequency within specification.

Quality Control Sample Type			Count		Frequency (%)		
Analytical Methods	Method	QC Lot #	QC	Regular	Actual	Expected	Evaluation
Method Blanks (MB) - Continued							
Chloride in Water by IC	E235.Cl	1974701	1	20	5.0	5.0	✔
Fluoride in Water by IC	E235.F	1974703	1	19	5.2	5.0	✔
Nitrite in Water by IC	E235.NO2	1974702	1	20	5.0	5.0	✔
Nitrate in Water by IC	E235.NO3	1974699	1	20	5.0	5.0	✔
Sulfate in Water by IC	E235.SO4	1974700	1	20	5.0	5.0	✔
Alkalinity Species by Titration	E290	1974705	1	20	5.0	5.0	✔
Ammonia by Fluorescence	E298	1974690	3	60	5.0	5.0	✔
Colour (Apparent) by Spectrometer	E330	1980069	2	40	5.0	5.0	✔
Dissolved Orthophosphate by Colourimetry (Ultra Trace Level 0.001 mg/L)	E378-U	1974707	1	20	5.0	5.0	✔
Dissolved Metals in Water by CRC ICPMS	E421	1971968	1	19	5.2	5.0	✔
VOCs (Eastern Canada List) by Headspace GC-MS	E611D	1972270	1	20	5.0	5.0	✔
Matrix Spikes (MS)							
Chloride in Water by IC	E235.Cl	1974701	1	20	5.0	5.0	✔
Fluoride in Water by IC	E235.F	1974703	1	19	5.2	5.0	✔
Nitrite in Water by IC	E235.NO2	1974702	1	20	5.0	5.0	✔
Nitrate in Water by IC	E235.NO3	1974699	1	20	5.0	5.0	✔
Sulfate in Water by IC	E235.SO4	1974700	1	20	5.0	5.0	✔
Ammonia by Fluorescence	E298	1974690	3	60	5.0	5.0	✔
Dissolved Orthophosphate by Colourimetry (Ultra Trace Level 0.001 mg/L)	E378-U	1974707	1	20	5.0	5.0	✔
Dissolved Metals in Water by CRC ICPMS	E421	1971968	1	19	5.2	5.0	✔
VOCs (Eastern Canada List) by Headspace GC-MS	E611D	1972270	1	20	5.0	5.0	✔



Methodology References and Summaries

The analytical methods used by ALS are developed using internationally recognized reference methods (where available), such as those published by US EPA, APHA Standard Methods, ASTM, ISO, Environment Canada, BC MOE, and Ontario MOE. Reference methods may incorporate modifications to improve performance (indicated by "mod").

Analytical Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
Conductivity in Water	E100 ALS Environmental - Waterloo	Water	APHA 2510 (mod)	Conductivity, also known as Electrical Conductivity (EC) or Specific Conductance, is measured by immersion of a conductivity cell with platinum electrodes into a water sample. Conductivity measurements are temperature-compensated to 25°C.
pH by Meter	E108 ALS Environmental - Waterloo	Water	APHA 4500-H (mod)	pH is determined by potentiometric measurement with a pH electrode, and is conducted at ambient laboratory temperature (normally $20 \pm 5^\circ\text{C}$). For high accuracy test results, pH should be measured in the field within the recommended 15 minute hold time.
Turbidity by Nephelometry	E121 ALS Environmental - Waterloo	Water	APHA 2130 B (mod)	Turbidity is measured by the nephelometric method, by measuring the intensity of light scatter under defined conditions.
TDS by Gravimetry	E162 ALS Environmental - Waterloo	Water	APHA 2540 C (mod)	Total Dissolved Solids (TDS) are determined by filtering a sample through a glass fibre filter, with evaporation of the filtrate at $180 \pm 2^\circ\text{C}$ for 16 hours or to constant weight, with gravimetric measurement of the residue.
Chloride in Water by IC	E235.Cl ALS Environmental - Waterloo	Water	EPA 300.1 (mod)	Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.
Fluoride in Water by IC	E235.F ALS Environmental - Waterloo	Water	EPA 300.1 (mod)	Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.
Nitrite in Water by IC	E235.NO2 ALS Environmental - Waterloo	Water	EPA 300.1 (mod)	Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.
Nitrate in Water by IC	E235.NO3 ALS Environmental - Waterloo	Water	EPA 300.1 (mod)	Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.
Sulfate in Water by IC	E235.SO4 ALS Environmental - Waterloo	Water	EPA 300.1 (mod)	Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.
Alkalinity Species by Titration	E290 ALS Environmental - Waterloo	Water	APHA 2320 B (mod)	Total alkalinity is determined by potentiometric titration to a pH 4.5 endpoint. Bicarbonate, carbonate and hydroxide alkalinity are calculated from phenolphthalein alkalinity and total alkalinity values.



Analytical Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
Ammonia by Fluorescence	E298 ALS Environmental - Waterloo	Water	Method Fialab 100, 2018	Ammonia in water is determined by automated continuous flow analysis with membrane diffusion and fluorescence detection, after reaction with OPA (ortho-phthalaldehyde). This method is approved under US EPA 40 CFR Part 136 (May 2021)
Colour (Apparent) by Spectrometer	E330 ALS Environmental - Waterloo	Water	APHA 2120 C (mod)	Colour (Apparent) is measured in an unfiltered sample spectrophotometrically using the single wavelength method. The colour contribution of settleable solids are not included in the result. This method is intended for potable waters. Colour measurements can be highly pH dependent, and apply to the pH of the sample as received (at time of testing), without pH adjustment.
Dissolved Orthophosphate by Colourimetry (Ultra Trace Level 0.001 mg/L)	E378-U ALS Environmental - Waterloo	Water	APHA 4500-P F (mod)	Dissolved Orthophosphate is determined colourimetrically on a sample that has been lab or field filtered through a 0.45 micron membrane filter. Field filtration is recommended to ensure test results represent conditions at time of sampling.
Dissolved Metals in Water by CRC ICPMS	E421 ALS Environmental - Waterloo	Water	APHA 3030B/EPA 6020B (mod)	Water samples are filtered (0.45 um), preserved with nitric acid, and analyzed by Collision/Reaction Cell ICPMS. Method Limitation (re: Sulfur): Sulfide and volatile sulfur species may not be recovered by this method.
VOCs (Eastern Canada List) by Headspace GC-MS	E611D ALS Environmental - Waterloo	Water	EPA 8260D (mod)	Volatile Organic Compounds (VOCs) are analyzed by static headspace GC-MS. Samples are prepared in headspace vials and are heated and agitated on the headspace autosampler, causing VOCs to partition between the aqueous phase and the headspace in accordance with Henry's law.
Dissolved Hardness (Calculated)	EC100 ALS Environmental - Waterloo	Water	APHA 2340B	"Hardness (as CaCO ₃), dissolved" is calculated from the sum of dissolved Calcium and Magnesium concentrations, expressed in CaCO ₃ equivalents. "Total Hardness" refers to the sum of Calcium and Magnesium Hardness. Hardness is normally or preferentially calculated from dissolved Calcium and Magnesium concentrations, because it is a property of water due to dissolved divalent cations.
Preparation Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
Preparation for Ammonia	EP298 ALS Environmental - Waterloo	Water		Sample preparation for Preserved Nutrients Water Quality Analysis.
Dissolved Metals Water Filtration	EP421 ALS Environmental - Waterloo	Water	APHA 3030B	Water samples are filtered (0.45 um), and preserved with HNO ₃ .
VOCs Preparation for Headspace Analysis	EP581 ALS Environmental - Waterloo	Water	EPA 5021A (mod)	Samples are prepared in headspace vials and are heated and agitated on the headspace autosampler. An aliquot of the headspace is then injected into a GC-MS-FID.

QUALITY CONTROL REPORT

Work Order	: WT2509690	Page	: 1 of 17
Client	: Bluewater Geoscience Consultants Inc.	Laboratory	: ALS Environmental - Waterloo
Contact	: Breton Lemieux	Account Manager	: Gayle Braun
Address	: 42 Shadyridge Place Kitchener ON Canada N2N 3J1	Address	: 60 Northland Road, Unit 1 Waterloo, Ontario Canada N2V 2B8
Telephone	: 519 744 4123	Telephone	: +1 519 886 6910
Project	: BG-924	Date Samples Received	: 29-Apr-2025 13:15
PO	: ----	Date Analysis Commenced	: 29-Apr-2025
C-O-C number	: 23-1119627	Issue Date	: 06-May-2025 15:46
Sampler	: BJJ		
Site	: ----		
Quote number	: SOA		
No. of samples received	: 19		
No. of samples analysed	: 19		

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Quality Control Report contains the following information:

- Laboratory Duplicate (DUP) Report; Relative Percent Difference (RPD) and Data Quality Objectives
- Matrix Spike (MS) Report; Recovery and Data Quality Objectives
- Method Blank (MB) Report; Recovery and Data Quality Objectives
- Laboratory Control Sample (LCS) Report; Recovery and Data Quality Objectives

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is conducted in accordance with US FDA 21 CFR Part 11.

Signatories	Position	Laboratory Department
Andrea Armstrong	Department Manager - Air Quality and Volatiles	Waterloo VOC, Waterloo, Ontario
Nik Perkio	Senior Analyst	Waterloo Inorganics, Waterloo, Ontario
Walt Kippenhuck	Supervisor - Inorganic	Waterloo Inorganics, Waterloo, Ontario
Walt Kippenhuck	Supervisor - Inorganic	Waterloo Metals, Waterloo, Ontario



General Comments

The ALS Quality Control (QC) report is optionally provided to ALS clients upon request. ALS test methods include comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against predetermined Data Quality Objectives (DQOs) to provide confidence in the accuracy of associated test results. This report contains detailed results for all QC results applicable to this sample submission. Please refer to the ALS Quality Control Interpretation report (QCI) for applicable method references and methodology summaries.

Key :

Anonymous = Refers to samples which are not part of this work order, but which formed part of the QC process lot.

CAS Number = Chemical Abstracts Service number is a unique identifier assigned to discrete substances.

DQO = Data Quality Objective.

LOR = Limit of Reporting (detection limit).

RPD = Relative Percent Difference

= Indicates a QC result that did not meet the ALS DQO.

Workorder Comments

Holding times are displayed as "---" if no guidance exists from CCME, Canadian provinces, or broadly recognized international references.

Page : 3 of 17
 Work Order : WT2509690
 Client : Bluewater Geoscience Consultants Inc.
 Project : BG-924



Laboratory Duplicate (DUP) Report

A Laboratory Duplicate (DUP) is a randomly selected intralaboratory replicate sample. Laboratory Duplicates provide information regarding method precision and sample heterogeneity. ALS DQOs for Laboratory Duplicates are expressed as test-specific limits for Relative Percent Difference (RPD), or as an absolute difference limit of 2 times the LOR for low concentration duplicates within ~ 4-10 times the LOR (cut-off is test-specific).

Sub-Matrix: Water					Laboratory Duplicate (DUP) Report						
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	LOR	Unit	Original Result	Duplicate Result	RPD(%) or Difference	Duplicate Limits	Qualifier
Physical Tests (QC Lot: 1972668)											
WT2509690-016	OW-16S	Turbidity	----	E121	0.10	NTU	183	186	1.63%	15%	----
Physical Tests (QC Lot: 1974704)											
WT2509690-001	OW-1	Conductivity	----	E100	1.0	µS/cm	690	688	0.290%	10%	----
Physical Tests (QC Lot: 1974705)											
WT2509690-001	OW-1	Alkalinity, total (as CaCO ₃)	----	E290	1.0	mg/L	394	396	0.512%	20%	----
Physical Tests (QC Lot: 1974706)											
WT2509690-001	OW-1	pH	----	E108	0.10	pH units	7.74	7.76	0.258%	4%	----
Physical Tests (QC Lot: 1976905)											
WT2509690-001	OW-1	Solids, total dissolved [TDS]	----	E162	20	mg/L	417	417	0.120%	20%	----
Physical Tests (QC Lot: 1980069)											
WT2509622-001	Anonymous	Colour, apparent	----	E330	2.0	CU	3.8	2.1	1.6	Diff <2x LOR	----
Physical Tests (QC Lot: 1980070)											
HA2501227-001	Anonymous	Colour, apparent	----	E330	2.0	CU	89.0	88.5	0.589%	20%	----
Anions and Nutrients (QC Lot: 1974690)											
WT2509603-002	Anonymous	Ammonia, total (as N)	7664-41-7	E298	0.0050	mg/L	0.0456	0.0457	0.0001	Diff <2x LOR	----
Anions and Nutrients (QC Lot: 1974699)											
WT2509690-001	OW-1	Nitrate (as N)	14797-55-8	E235.NO3	0.020	mg/L	0.196	0.195	0.001	Diff <2x LOR	----
Anions and Nutrients (QC Lot: 1974700)											
WT2509690-001	OW-1	Sulfate (as SO ₄)	14808-79-8	E235.SO4	0.30	mg/L	11.0	11.0	0.377%	20%	----
Anions and Nutrients (QC Lot: 1974701)											
WT2509690-001	OW-1	Chloride	16887-00-6	E235.Cl	0.50	mg/L	2.18	2.16	0.02	Diff <2x LOR	----
Anions and Nutrients (QC Lot: 1974702)											
WT2509690-001	OW-1	Nitrite (as N)	14797-65-0	E235.NO2	0.010	mg/L	<0.010	<0.010	0	Diff <2x LOR	----
Anions and Nutrients (QC Lot: 1974703)											
WT2509690-001	OW-1	Fluoride	16984-48-8	E235.F	0.020	mg/L	0.030	0.029	0.0007	Diff <2x LOR	----
Anions and Nutrients (QC Lot: 1974707)											
WT2509626-005	Anonymous	Phosphate, ortho-, dissolved (as P)	14265-44-2	E378-U	0.0010	mg/L	0.0374	0.0376	0.480%	20%	----
Anions and Nutrients (QC Lot: 1975034)											
HA2501224-001	Anonymous	Ammonia, total (as N)	7664-41-7	E298	0.0050	mg/L	0.0138	0.0132	0.0006	Diff <2x LOR	----
Anions and Nutrients (QC Lot: 1976646)											



Sub-Matrix: Water					Laboratory Duplicate (DUP) Report						
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	LOR	Unit	Original Result	Duplicate Result	RPD(%) or Difference	Duplicate Limits	Qualifier
Anions and Nutrients (QC Lot: 1976646) - continued											
WT2509690-008	OW-7D	Ammonia, total (as N)	7664-41-7	E298	0.500	mg/L	8.66	7.92	8.87%	20%	----
Dissolved Metals (QC Lot: 1971968)											
WT2509690-001	OW-1	Aluminum, dissolved	7429-90-5	E421	0.0010	mg/L	0.0016	0.0014	0.0001	Diff <2x LOR	----
		Antimony, dissolved	7440-36-0	E421	0.00010	mg/L	<0.00010	<0.00010	0	Diff <2x LOR	----
		Arsenic, dissolved	7440-38-2	E421	0.00010	mg/L	0.00019	0.00020	0.000007	Diff <2x LOR	----
		Barium, dissolved	7440-39-3	E421	0.00010	mg/L	0.0396	0.0395	0.233%	20%	----
		Beryllium, dissolved	7440-41-7	E421	0.000020	mg/L	<0.000020	<0.000020	0	Diff <2x LOR	----
		Bismuth, dissolved	7440-69-9	E421	0.000050	mg/L	<0.000050	<0.000050	0	Diff <2x LOR	----
		Boron, dissolved	7440-42-8	E421	0.010	mg/L	0.090	0.091	0.0005	Diff <2x LOR	----
		Cadmium, dissolved	7440-43-9	E421	0.0000050	mg/L	0.0000168	0.0000161	0.0000007	Diff <2x LOR	----
		Calcium, dissolved	7440-70-2	E421	0.050	mg/L	112	112	0.262%	20%	----
		Cesium, dissolved	7440-46-2	E421	0.000010	mg/L	<0.000010	<0.000010	0	Diff <2x LOR	----
		Chromium, dissolved	7440-47-3	E421	0.00050	mg/L	<0.00050	<0.00050	0	Diff <2x LOR	----
		Cobalt, dissolved	7440-48-4	E421	0.00010	mg/L	0.00024	0.00023	0.00001	Diff <2x LOR	----
		Copper, dissolved	7440-50-8	E421	0.00020	mg/L	0.00075	0.00073	0.00001	Diff <2x LOR	----
		Iron, dissolved	7439-89-6	E421	0.010	mg/L	0.138	0.140	0.798%	20%	----
		Lead, dissolved	7439-92-1	E421	0.000050	mg/L	0.000051	0.000051	0.0000007	Diff <2x LOR	----
		Lithium, dissolved	7439-93-2	E421	0.0010	mg/L	0.0015	0.0016	0.00006	Diff <2x LOR	----
		Magnesium, dissolved	7439-95-4	E421	0.0050	mg/L	42.8	43.0	0.402%	20%	----
		Manganese, dissolved	7439-96-5	E421	0.00010	mg/L	0.0353	0.0357	1.31%	20%	----
		Molybdenum, dissolved	7439-98-7	E421	0.000050	mg/L	0.000214	0.000222	0.000008	Diff <2x LOR	----
		Nickel, dissolved	7440-02-0	E421	0.00050	mg/L	0.00110	0.00108	0.00002	Diff <2x LOR	----
		Phosphorus, dissolved	7723-14-0	E421	0.050	mg/L	<0.050	<0.050	0	Diff <2x LOR	----
		Potassium, dissolved	7440-09-7	E421	0.050	mg/L	2.24	2.27	1.04%	20%	----
		Rubidium, dissolved	7440-17-7	E421	0.00020	mg/L	0.00081	0.00081	0.000004	Diff <2x LOR	----
		Selenium, dissolved	7782-49-2	E421	0.000050	mg/L	0.000138	0.000120	0.000017	Diff <2x LOR	----
		Silicon, dissolved	7440-21-3	E421	0.050	mg/L	4.88	4.99	2.24%	20%	----
		Silver, dissolved	7440-22-4	E421	0.000010	mg/L	<0.000010	<0.000010	0	Diff <2x LOR	----
		Sodium, dissolved	7440-23-5	E421	0.050	mg/L	6.65	6.68	0.393%	20%	----
		Strontium, dissolved	7440-24-6	E421	0.00020	mg/L	0.176	0.176	0.0889%	20%	----
		Sulfur, dissolved	7704-34-9	E421	0.50	mg/L	7.93	8.08	1.84%	20%	----
		Tellurium, dissolved	13494-80-9	E421	0.00020	mg/L	<0.00020	<0.00020	0	Diff <2x LOR	----
		Thallium, dissolved	7440-28-0	E421	0.000010	mg/L	0.000030	0.000028	0.000001	Diff <2x LOR	----
		Thorium, dissolved	7440-29-1	E421	0.00010	mg/L	<0.00010	<0.00010	0	Diff <2x LOR	----



Sub-Matrix: Water					Laboratory Duplicate (DUP) Report						
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	LOR	Unit	Original Result	Duplicate Result	RPD(%) or Difference	Duplicate Limits	Qualifier
Dissolved Metals (QC Lot: 1971968) - continued											
WT2509690-001	OW-1	Tin, dissolved	7440-31-5	E421	0.00010	mg/L	<0.00010	<0.00010	0	Diff <2x LOR	----
		Titanium, dissolved	7440-32-6	E421	0.00030	mg/L	<0.00030	<0.00030	0	Diff <2x LOR	----
		Tungsten, dissolved	7440-33-7	E421	0.00010	mg/L	0.00011	0.00011	0.000002	Diff <2x LOR	----
		Uranium, dissolved	7440-61-1	E421	0.000010	mg/L	0.000650	0.000645	0.742%	20%	----
		Vanadium, dissolved	7440-62-2	E421	0.00050	mg/L	<0.00050	<0.00050	0	Diff <2x LOR	----
		Zinc, dissolved	7440-66-6	E421	0.0010	mg/L	0.0084	0.0083	0.00006	Diff <2x LOR	----
		Zirconium, dissolved	7440-67-7	E421	0.00020	mg/L	<0.00020	<0.00020	0	Diff <2x LOR	----
Volatile Organic Compounds (QC Lot: 1972270)											
WT2509690-001	OW-1	Acetone	67-64-1	E611D	20	µg/L	<20	<20	0	Diff <2x LOR	----
		Benzene	71-43-2	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Bromodichloromethane	75-27-4	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Bromoform	75-25-2	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Bromomethane	74-83-9	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Carbon tetrachloride	56-23-5	E611D	0.20	µg/L	<0.20	<0.20	0	Diff <2x LOR	----
		Chlorobenzene	108-90-7	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Chloroform	67-66-3	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dibromochloromethane	124-48-1	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dibromoethane, 1,2-	106-93-4	E611D	0.20	µg/L	<0.20	<0.20	0	Diff <2x LOR	----
		Dichlorobenzene, 1,2-	95-50-1	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dichlorobenzene, 1,3-	541-73-1	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dichlorobenzene, 1,4-	106-46-7	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dichlorodifluoromethane	75-71-8	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dichloroethane, 1,1-	75-34-3	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dichloroethane, 1,2-	107-06-2	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dichloroethylene, 1,1-	75-35-4	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dichloroethylene, cis-1,2-	156-59-2	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dichloroethylene, trans-1,2-	156-60-5	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dichloromethane	75-09-2	E611D	1.0	µg/L	<1.0	<1.0	0	Diff <2x LOR	----
		Dichloropropane, 1,2-	78-87-5	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dichloropropylene, cis-1,3-	10061-01-5	E611D	0.30	µg/L	<0.30	<0.30	0	Diff <2x LOR	----
		Dichloropropylene, trans-1,3-	10061-02-6	E611D	0.30	µg/L	<0.30	<0.30	0	Diff <2x LOR	----
		Ethylbenzene	100-41-4	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Hexane, n-	110-54-3	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Methyl ethyl ketone [MEK]	78-93-3	E611D	20	µg/L	<20	<20	0	Diff <2x LOR	----



Sub-Matrix: Water					Laboratory Duplicate (DUP) Report						
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	LOR	Unit	Original Result	Duplicate Result	RPD(%) or Difference	Duplicate Limits	Qualifier
Volatile Organic Compounds (QC Lot: 1972270) - continued											
WT2509690-001	OW-1	Methyl isobutyl ketone [MIBK]	108-10-1	E611D	20	µg/L	<20	<20	0	Diff <2x LOR	----
		Methyl-tert-butyl ether [MTBE]	1634-04-4	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Styrene	100-42-5	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Tetrachloroethane, 1,1,1,2-	630-20-6	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Tetrachloroethane, 1,1,2,2-	79-34-5	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Tetrachloroethylene	127-18-4	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Toluene	108-88-3	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Trichloroethane, 1,1,1,-	71-55-6	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Trichloroethane, 1,1,2-	79-00-5	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Trichloroethylene	79-01-6	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Trichlorofluoromethane	75-69-4	E611D	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Vinyl chloride	75-01-4	E611D	0.20	µg/L	<0.20	<0.20	0	Diff <2x LOR	----
		Xylene, m+p-	179601-23-1	E611D	0.40	µg/L	<0.40	<0.40	0	Diff <2x LOR	----
		Xylene, o-	95-47-6	E611D	0.30	µg/L	<0.30	<0.30	0	Diff <2x LOR	----



Method Blank (MB) Report

A Method Blank is an analyte-free matrix that undergoes sample processing identical to that carried out for test samples. Method Blank results are used to monitor and control for potential contamination from the laboratory environment and reagents. For most tests, the DQO for Method Blanks is for the result to be < LOR.

Sub-Matrix: Water

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Physical Tests (QCLot: 1972668)						
Turbidity	---	E121	0.1	NTU	<0.10	---
Physical Tests (QCLot: 1974704)						
Conductivity	---	E100	1	µS/cm	<1.0	---
Physical Tests (QCLot: 1974705)						
Alkalinity, total (as CaCO ₃)	---	E290	1	mg/L	1.1	---
Physical Tests (QCLot: 1976905)						
Solids, total dissolved [TDS]	---	E162	10	mg/L	<10	---
Physical Tests (QCLot: 1980069)						
Colour, apparent	---	E330	2	CU	<2.0	---
Physical Tests (QCLot: 1980070)						
Colour, apparent	---	E330	2	CU	<2.0	---
Anions and Nutrients (QCLot: 1974690)						
Ammonia, total (as N)	7664-41-7	E298	0.005	mg/L	<0.0050	---
Anions and Nutrients (QCLot: 1974699)						
Nitrate (as N)	14797-55-8	E235.NO3	0.02	mg/L	<0.020	---
Anions and Nutrients (QCLot: 1974700)						
Sulfate (as SO ₄)	14808-79-8	E235.SO4	0.3	mg/L	<0.30	---
Anions and Nutrients (QCLot: 1974701)						
Chloride	16887-00-6	E235.Cl	0.5	mg/L	<0.50	---
Anions and Nutrients (QCLot: 1974702)						
Nitrite (as N)	14797-65-0	E235.NO2	0.01	mg/L	<0.010	---
Anions and Nutrients (QCLot: 1974703)						
Fluoride	16984-48-8	E235.F	0.02	mg/L	<0.020	---
Anions and Nutrients (QCLot: 1974707)						
Phosphate, ortho-, dissolved (as P)	14265-44-2	E378-U	0.001	mg/L	<0.0010	---
Anions and Nutrients (QCLot: 1975034)						
Ammonia, total (as N)	7664-41-7	E298	0.005	mg/L	<0.0050	---
Anions and Nutrients (QCLot: 1976646)						
Ammonia, total (as N)	7664-41-7	E298	0.005	mg/L	<0.0050	---
Dissolved Metals (QCLot: 1971968)						
Aluminum, dissolved	7429-90-5	E421	0.001	mg/L	<0.0010	---
Antimony, dissolved	7440-36-0	E421	0.0001	mg/L	<0.00010	---



Sub-Matrix: **Water**

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Dissolved Metals (QCLot: 1971968) - continued						
Arsenic, dissolved	7440-38-2	E421	0.0001	mg/L	<0.00010	----
Barium, dissolved	7440-39-3	E421	0.0001	mg/L	<0.00010	----
Beryllium, dissolved	7440-41-7	E421	0.00002	mg/L	<0.000020	----
Bismuth, dissolved	7440-69-9	E421	0.00005	mg/L	<0.000050	----
Boron, dissolved	7440-42-8	E421	0.01	mg/L	<0.010	----
Cadmium, dissolved	7440-43-9	E421	0.000005	mg/L	<0.0000050	----
Calcium, dissolved	7440-70-2	E421	0.05	mg/L	<0.050	----
Cesium, dissolved	7440-46-2	E421	0.00001	mg/L	<0.000010	----
Chromium, dissolved	7440-47-3	E421	0.0005	mg/L	<0.00050	----
Cobalt, dissolved	7440-48-4	E421	0.0001	mg/L	<0.00010	----
Copper, dissolved	7440-50-8	E421	0.0002	mg/L	<0.00020	----
Iron, dissolved	7439-89-6	E421	0.01	mg/L	<0.010	----
Lead, dissolved	7439-92-1	E421	0.00005	mg/L	<0.000050	----
Lithium, dissolved	7439-93-2	E421	0.001	mg/L	<0.0010	----
Magnesium, dissolved	7439-95-4	E421	0.005	mg/L	<0.0050	----
Manganese, dissolved	7439-96-5	E421	0.0001	mg/L	<0.00010	----
Molybdenum, dissolved	7439-98-7	E421	0.00005	mg/L	<0.000050	----
Nickel, dissolved	7440-02-0	E421	0.0005	mg/L	<0.00050	----
Phosphorus, dissolved	7723-14-0	E421	0.05	mg/L	<0.050	----
Potassium, dissolved	7440-09-7	E421	0.05	mg/L	<0.050	----
Rubidium, dissolved	7440-17-7	E421	0.0002	mg/L	<0.00020	----
Selenium, dissolved	7782-49-2	E421	0.00005	mg/L	<0.000050	----
Silicon, dissolved	7440-21-3	E421	0.05	mg/L	<0.050	----
Silver, dissolved	7440-22-4	E421	0.00001	mg/L	<0.000010	----
Sodium, dissolved	7440-23-5	E421	0.05	mg/L	<0.050	----
Strontium, dissolved	7440-24-6	E421	0.0002	mg/L	<0.00020	----
Sulfur, dissolved	7704-34-9	E421	0.5	mg/L	<0.50	----
Tellurium, dissolved	13494-80-9	E421	0.0002	mg/L	<0.00020	----
Thallium, dissolved	7440-28-0	E421	0.00001	mg/L	<0.000010	----
Thorium, dissolved	7440-29-1	E421	0.0001	mg/L	<0.00010	----
Tin, dissolved	7440-31-5	E421	0.0001	mg/L	<0.00010	----
Titanium, dissolved	7440-32-6	E421	0.0003	mg/L	<0.00030	----
Tungsten, dissolved	7440-33-7	E421	0.0001	mg/L	<0.00010	----
Uranium, dissolved	7440-61-1	E421	0.00001	mg/L	<0.000010	----
Vanadium, dissolved	7440-62-2	E421	0.0005	mg/L	<0.00050	----



Sub-Matrix: **Water**

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Dissolved Metals (QCLot: 1971968) - continued						
Zinc, dissolved	7440-66-6	E421	0.001	mg/L	<0.0010	----
Zirconium, dissolved	7440-67-7	E421	0.0002	mg/L	<0.00020	----
Volatile Organic Compounds (QCLot: 1972270)						
Acetone	67-64-1	E611D	20	µg/L	<20	----
Benzene	71-43-2	E611D	0.5	µg/L	<0.50	----
Bromodichloromethane	75-27-4	E611D	0.5	µg/L	<0.50	----
Bromoform	75-25-2	E611D	0.5	µg/L	<0.50	----
Bromomethane	74-83-9	E611D	0.5	µg/L	<0.50	----
Carbon tetrachloride	56-23-5	E611D	0.2	µg/L	<0.20	----
Chlorobenzene	108-90-7	E611D	0.5	µg/L	<0.50	----
Chloroform	67-66-3	E611D	0.5	µg/L	<0.50	----
Dibromochloromethane	124-48-1	E611D	0.5	µg/L	<0.50	----
Dibromoethane, 1,2-	106-93-4	E611D	0.2	µg/L	<0.20	----
Dichlorobenzene, 1,2-	95-50-1	E611D	0.5	µg/L	<0.50	----
Dichlorobenzene, 1,3-	541-73-1	E611D	0.5	µg/L	<0.50	----
Dichlorobenzene, 1,4-	106-46-7	E611D	0.5	µg/L	<0.50	----
Dichlorodifluoromethane	75-71-8	E611D	0.5	µg/L	<0.50	----
Dichloroethane, 1,1-	75-34-3	E611D	0.5	µg/L	<0.50	----
Dichloroethane, 1,2-	107-06-2	E611D	0.5	µg/L	<0.50	----
Dichloroethylene, 1,1-	75-35-4	E611D	0.5	µg/L	<0.50	----
Dichloroethylene, cis-1,2-	156-59-2	E611D	0.5	µg/L	<0.50	----
Dichloroethylene, trans-1,2-	156-60-5	E611D	0.5	µg/L	<0.50	----
Dichloromethane	75-09-2	E611D	1	µg/L	<1.0	----
Dichloropropane, 1,2-	78-87-5	E611D	0.5	µg/L	<0.50	----
Dichloropropylene, cis-1,3-	10061-01-5	E611D	0.3	µg/L	<0.30	----
Dichloropropylene, trans-1,3-	10061-02-6	E611D	0.3	µg/L	<0.30	----
Ethylbenzene	100-41-4	E611D	0.5	µg/L	<0.50	----
Hexane, n-	110-54-3	E611D	0.5	µg/L	<0.50	----
Methyl ethyl ketone [MEK]	78-93-3	E611D	20	µg/L	<20	----
Methyl isobutyl ketone [MIBK]	108-10-1	E611D	20	µg/L	<20	----
Methyl-tert-butyl ether [MTBE]	1634-04-4	E611D	0.5	µg/L	<0.50	----
Styrene	100-42-5	E611D	0.5	µg/L	<0.50	----
Tetrachloroethane, 1,1,1,2-	630-20-6	E611D	0.5	µg/L	<0.50	----
Tetrachloroethane, 1,1,2,2-	79-34-5	E611D	0.5	µg/L	<0.50	----
Tetrachloroethylene	127-18-4	E611D	0.5	µg/L	<0.50	----



Sub-Matrix: Water

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Volatile Organic Compounds (QCLot: 1972270) - continued						
Toluene	108-88-3	E611D	0.5	µg/L	<0.50	----
Trichloroethane, 1,1,1-	71-55-6	E611D	0.5	µg/L	<0.50	----
Trichloroethane, 1,1,2-	79-00-5	E611D	0.5	µg/L	<0.50	----
Trichloroethylene	79-01-6	E611D	0.5	µg/L	<0.50	----
Trichlorofluoromethane	75-69-4	E611D	0.5	µg/L	<0.50	----
Vinyl chloride	75-01-4	E611D	0.2	µg/L	<0.20	----
Xylene, m+p-	179601-23-1	E611D	0.4	µg/L	<0.40	----
Xylene, o-	95-47-6	E611D	0.3	µg/L	<0.30	----



Laboratory Control Sample (LCS) Report

A Laboratory Control Sample (LCS) is an analyte-free matrix that has been fortified (spiked) with test analytes at known concentration and processed in an identical manner to test samples. LCS results are expressed as percent recovery, and are used to monitor and control test method accuracy and precision, independent of test sample matrix.

Sub-Matrix: Water

					Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		
Analyte	CAS Number	Method	LOR	Unit	Target Concentration	LCS	Low	High	Qualifier
Physical Tests (QCLot: 1972668)									
Turbidity	----	E121	0.1	NTU	200 NTU	100	85.0	115	----
Physical Tests (QCLot: 1974704)									
Conductivity	----	E100	1	µS/cm	1410 µS/cm	98.4	90.0	110	----
Physical Tests (QCLot: 1974705)									
Alkalinity, total (as CaCO3)	----	E290	1	mg/L	150 mg/L	98.8	85.0	115	----
Physical Tests (QCLot: 1974706)									
pH	----	E108	----	pH units	7 pH units	100	98.0	102	----
Physical Tests (QCLot: 1976905)									
Solids, total dissolved [TDS]	----	E162	10	mg/L	1000 mg/L	93.5	85.0	115	----
Physical Tests (QCLot: 1980069)									
Colour, apparent	----	E330	2	CU	25 CU	95.6	85.0	115	----
Physical Tests (QCLot: 1980070)									
Colour, apparent	----	E330	2	CU	25 CU	94.4	85.0	115	----
Anions and Nutrients (QCLot: 1974690)									
Ammonia, total (as N)	7664-41-7	E298	0.005	mg/L	0.2 mg/L	99.4	85.0	115	----
Anions and Nutrients (QCLot: 1974699)									
Nitrate (as N)	14797-55-8	E235.NO3	0.02	mg/L	2.5 mg/L	99.0	90.0	110	----
Anions and Nutrients (QCLot: 1974700)									
Sulfate (as SO4)	14808-79-8	E235.SO4	0.3	mg/L	100 mg/L	98.4	90.0	110	----
Anions and Nutrients (QCLot: 1974701)									
Chloride	16887-00-6	E235.Cl	0.5	mg/L	100 mg/L	99.0	90.0	110	----
Anions and Nutrients (QCLot: 1974702)									
Nitrite (as N)	14797-65-0	E235.NO2	0.01	mg/L	0.5 mg/L	99.6	90.0	110	----
Anions and Nutrients (QCLot: 1974703)									
Fluoride	16984-48-8	E235.F	0.02	mg/L	1 mg/L	100	90.0	110	----
Anions and Nutrients (QCLot: 1974707)									
Phosphate, ortho-, dissolved (as P)	14265-44-2	E378-U	0.001	mg/L	0.05 mg/L	98.5	80.0	120	----
Anions and Nutrients (QCLot: 1975034)									
Ammonia, total (as N)	7664-41-7	E298	0.005	mg/L	0.2 mg/L	100	85.0	115	----
Anions and Nutrients (QCLot: 1976646)									
Ammonia, total (as N)	7664-41-7	E298	0.005	mg/L	0.2 mg/L	99.4	85.0	115	----



Sub-Matrix: Water					Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		Qualifier
					Target Concentration	LCS	Low	High	
Analyte	CAS Number	Method	LOR	Unit	Target Concentration	LCS	Low	High	Qualifier
Dissolved Metals (QCLot: 1971968)									
Aluminum, dissolved	7429-90-5	E421	0.001	mg/L	0.1 mg/L	98.4	80.0	120	----
Antimony, dissolved	7440-36-0	E421	0.0001	mg/L	0.05 mg/L	107	80.0	120	----
Arsenic, dissolved	7440-38-2	E421	0.0001	mg/L	0.05 mg/L	108	80.0	120	----
Barium, dissolved	7440-39-3	E421	0.0001	mg/L	0.012 mg/L	98.9	80.0	120	----
Beryllium, dissolved	7440-41-7	E421	0.00002	mg/L	0.005 mg/L	93.1	80.0	120	----
Bismuth, dissolved	7440-69-9	E421	0.00005	mg/L	0.05 mg/L	99.3	80.0	120	----
Boron, dissolved	7440-42-8	E421	0.01	mg/L	0.05 mg/L	91.4	80.0	120	----
Cadmium, dissolved	7440-43-9	E421	0.000005	mg/L	0.005 mg/L	101	80.0	120	----
Calcium, dissolved	7440-70-2	E421	0.05	mg/L	2.5 mg/L	96.7	80.0	120	----
Cesium, dissolved	7440-46-2	E421	0.00001	mg/L	0.002 mg/L	94.8	80.0	120	----
Chromium, dissolved	7440-47-3	E421	0.0005	mg/L	0.012 mg/L	104	80.0	120	----
Cobalt, dissolved	7440-48-4	E421	0.0001	mg/L	0.012 mg/L	102	80.0	120	----
Copper, dissolved	7440-50-8	E421	0.0002	mg/L	0.012 mg/L	102	80.0	120	----
Iron, dissolved	7439-89-6	E421	0.01	mg/L	0.05 mg/L	100	80.0	120	----
Lead, dissolved	7439-92-1	E421	0.00005	mg/L	0.025 mg/L	102	80.0	120	----
Lithium, dissolved	7439-93-2	E421	0.001	mg/L	0.012 mg/L	88.8	80.0	120	----
Magnesium, dissolved	7439-95-4	E421	0.005	mg/L	2.5 mg/L	110	80.0	120	----
Manganese, dissolved	7439-96-5	E421	0.0001	mg/L	0.012 mg/L	101	80.0	120	----
Molybdenum, dissolved	7439-98-7	E421	0.00005	mg/L	0.012 mg/L	98.8	80.0	120	----
Nickel, dissolved	7440-02-0	E421	0.0005	mg/L	0.025 mg/L	102	80.0	120	----
Phosphorus, dissolved	7723-14-0	E421	0.05	mg/L	0.5 mg/L	99.9	80.0	120	----
Potassium, dissolved	7440-09-7	E421	0.05	mg/L	2.5 mg/L	99.9	80.0	120	----
Rubidium, dissolved	7440-17-7	E421	0.0002	mg/L	0.005 mg/L	102	80.0	120	----
Selenium, dissolved	7782-49-2	E421	0.00005	mg/L	0.05 mg/L	105	80.0	120	----
Silicon, dissolved	7440-21-3	E421	0.05	mg/L	0.5 mg/L	96.0	60.0	140	----
Silver, dissolved	7440-22-4	E421	0.00001	mg/L	0.005 mg/L	91.7	80.0	120	----
Sodium, dissolved	7440-23-5	E421	0.05	mg/L	2.5 mg/L	106	80.0	120	----
Strontium, dissolved	7440-24-6	E421	0.0002	mg/L	0.012 mg/L	102	80.0	120	----
Sulfur, dissolved	7704-34-9	E421	0.5	mg/L	2.5 mg/L	95.3	80.0	120	----
Tellurium, dissolved	13494-80-9	E421	0.0002	mg/L	0.005 mg/L	96.9	80.0	120	----
Thallium, dissolved	7440-28-0	E421	0.00001	mg/L	0.05 mg/L	99.0	80.0	120	----
Thorium, dissolved	7440-29-1	E421	0.0001	mg/L	0.005 mg/L	91.3	80.0	120	----
Tin, dissolved	7440-31-5	E421	0.0001	mg/L	0.025 mg/L	102	80.0	120	----
Titanium, dissolved	7440-32-6	E421	0.0003	mg/L	0.012 mg/L	98.7	80.0	120	----
Tungsten, dissolved	7440-33-7	E421	0.0001	mg/L	0.005 mg/L	99.9	80.0	120	----



Sub-Matrix: Water					Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		Qualifier
					Target Concentration	LCS	Low	High	
Analyte	CAS Number	Method	LOR	Unit	Target Concentration	LCS	Low	High	Qualifier
Dissolved Metals (QCLot: 1971968) - continued									
Uranium, dissolved	7440-61-1	E421	0.00001	mg/L	0 mg/L	91.3	80.0	120	----
Vanadium, dissolved	7440-62-2	E421	0.0005	mg/L	0.025 mg/L	103	80.0	120	----
Zinc, dissolved	7440-66-6	E421	0.001	mg/L	0.025 mg/L	101	80.0	120	----
Zirconium, dissolved	7440-67-7	E421	0.0002	mg/L	0.005 mg/L	98.4	80.0	120	----
Volatile Organic Compounds (QCLot: 1972270)									
Acetone	67-64-1	E611D	20	µg/L	100 µg/L	110	70.0	130	----
Benzene	71-43-2	E611D	0.5	µg/L	100 µg/L	108	70.0	130	----
Bromodichloromethane	75-27-4	E611D	0.5	µg/L	100 µg/L	107	70.0	130	----
Bromoform	75-25-2	E611D	0.5	µg/L	100 µg/L	82.5	70.0	130	----
Bromomethane	74-83-9	E611D	0.5	µg/L	100 µg/L	85.9	60.0	140	----
Carbon tetrachloride	56-23-5	E611D	0.2	µg/L	100 µg/L	104	70.0	130	----
Chlorobenzene	108-90-7	E611D	0.5	µg/L	100 µg/L	108	70.0	130	----
Chloroform	67-66-3	E611D	0.5	µg/L	100 µg/L	111	70.0	130	----
Dibromochloromethane	124-48-1	E611D	0.5	µg/L	100 µg/L	94.0	70.0	130	----
Dibromoethane, 1,2-	106-93-4	E611D	0.2	µg/L	100 µg/L	97.8	70.0	130	----
Dichlorobenzene, 1,2-	95-50-1	E611D	0.5	µg/L	100 µg/L	104	70.0	130	----
Dichlorobenzene, 1,3-	541-73-1	E611D	0.5	µg/L	100 µg/L	106	70.0	130	----
Dichlorobenzene, 1,4-	106-46-7	E611D	0.5	µg/L	100 µg/L	106	70.0	130	----
Dichlorodifluoromethane	75-71-8	E611D	0.5	µg/L	100 µg/L	136	60.0	140	----
Dichloroethane, 1,1-	75-34-3	E611D	0.5	µg/L	100 µg/L	112	70.0	130	----
Dichloroethane, 1,2-	107-06-2	E611D	0.5	µg/L	100 µg/L	109	70.0	130	----
Dichloroethylene, 1,1-	75-35-4	E611D	0.5	µg/L	100 µg/L	116	70.0	130	----
Dichloroethylene, cis-1,2-	156-59-2	E611D	0.5	µg/L	100 µg/L	114	70.0	130	----
Dichloroethylene, trans-1,2-	156-60-5	E611D	0.5	µg/L	100 µg/L	116	70.0	130	----
Dichloromethane	75-09-2	E611D	1	µg/L	100 µg/L	106	70.0	130	----
Dichloropropane, 1,2-	78-87-5	E611D	0.5	µg/L	100 µg/L	111	70.0	130	----
Dichloropropylene, cis-1,3-	10061-01-5	E611D	0.3	µg/L	100 µg/L	107	70.0	130	----
Dichloropropylene, trans-1,3-	10061-02-6	E611D	0.3	µg/L	100 µg/L	105	70.0	130	----
Ethylbenzene	100-41-4	E611D	0.5	µg/L	100 µg/L	106	70.0	130	----
Hexane, n-	110-54-3	E611D	0.5	µg/L	100 µg/L	115	70.0	130	----
Methyl ethyl ketone [MEK]	78-93-3	E611D	20	µg/L	100 µg/L	96.1	70.0	130	----
Methyl isobutyl ketone [MIBK]	108-10-1	E611D	20	µg/L	100 µg/L	97.1	70.0	130	----
Methyl-tert-butyl ether [MTBE]	1634-04-4	E611D	0.5	µg/L	100 µg/L	106	70.0	130	----
Styrene	100-42-5	E611D	0.5	µg/L	100 µg/L	99.6	70.0	130	----
Tetrachloroethane, 1,1,1,2-	630-20-6	E611D	0.5	µg/L	100 µg/L	97.5	70.0	130	----



Sub-Matrix: Water					Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		
Analyte	CAS Number	Method	LOR	Unit	Target Concentration	LCS	Low	High	Qualifier
Volatile Organic Compounds (QCLot: 1972270) - continued									
Tetrachloroethane, 1,1,2,2-	79-34-5	E611D	0.5	µg/L	100 µg/L	101	70.0	130	----
Tetrachloroethylene	127-18-4	E611D	0.5	µg/L	100 µg/L	95.1	70.0	130	----
Toluene	108-88-3	E611D	0.5	µg/L	100 µg/L	108	70.0	130	----
Trichloroethane, 1,1,1-	71-55-6	E611D	0.5	µg/L	100 µg/L	111	70.0	130	----
Trichloroethane, 1,1,2-	79-00-5	E611D	0.5	µg/L	100 µg/L	102	70.0	130	----
Trichloroethylene	79-01-6	E611D	0.5	µg/L	100 µg/L	102	70.0	130	----
Trichlorofluoromethane	75-69-4	E611D	0.5	µg/L	100 µg/L	108	60.0	140	----
Vinyl chloride	75-01-4	E611D	0.2	µg/L	100 µg/L	118	60.0	140	----
Xylene, m+p-	179601-23-1	E611D	0.4	µg/L	200 µg/L	109	70.0	130	----
Xylene, o-	95-47-6	E611D	0.3	µg/L	100 µg/L	108	70.0	130	----



Matrix Spike (MS) Report

A Matrix Spike (MS) is a randomly selected intra-laboratory replicate sample that has been fortified (spiked) with test analytes at known concentration, and processed in an identical manner to test samples. Matrix Spikes provide information regarding analyte recovery and potential matrix effects. MS DQO exceedances due to sample matrix may sometimes be unavoidable; in such cases, test results for the associated sample (or similar samples) may be subject to bias. ND – Recovery not determined, background level >= 1x spike level.

Laboratory sample ID					Matrix Spike (MS) Report					
					Spike		Recovery (%)	Recovery Limits (%)		Qualifier
					Concentration	Target	MS	Low	High	
Client sample ID	Analyte	CAS Number	Method							
Anions and Nutrients (QCLot: 1974690)										
WT2509603-002	Anonymous	Ammonia, total (as N)	7664-41-7	E298	0.104 mg/L	0.1 mg/L	104	75.0	125	----
Anions and Nutrients (QCLot: 1974699)										
WT2509690-001	OW-1	Nitrate (as N)	14797-55-8	E235.NO3	2.42 mg/L	2.5 mg/L	96.8	75.0	125	----
Anions and Nutrients (QCLot: 1974700)										
WT2509690-001	OW-1	Sulfate (as SO4)	14808-79-8	E235.SO4	97.8 mg/L	100 mg/L	97.8	75.0	125	----
Anions and Nutrients (QCLot: 1974701)										
WT2509690-001	OW-1	Chloride	16887-00-6	E235.Cl	99.2 mg/L	100 mg/L	99.2	75.0	125	----
Anions and Nutrients (QCLot: 1974702)										
WT2509690-001	OW-1	Nitrite (as N)	14797-65-0	E235.NO2	0.497 mg/L	0.5 mg/L	99.5	75.0	125	----
Anions and Nutrients (QCLot: 1974703)										
WT2509690-001	OW-1	Fluoride	16984-48-8	E235.F	0.920 mg/L	1 mg/L	92.0	75.0	125	----
Anions and Nutrients (QCLot: 1974707)										
WT2509626-005	Anonymous	Phosphate, ortho-, dissolved (as P)	14265-44-2	E378-U	ND mg/L	----	ND	70.0	130	----
Anions and Nutrients (QCLot: 1975034)										
HA2501224-001	Anonymous	Ammonia, total (as N)	7664-41-7	E298	0.104 mg/L	0.1 mg/L	104	75.0	125	----
Anions and Nutrients (QCLot: 1976646)										
WT2509690-008	OW-7D	Ammonia, total (as N)	7664-41-7	E298	ND mg/L	----	ND	75.0	125	----
Dissolved Metals (QCLot: 1971968)										
WT2509690-002	OW-2S	Aluminum, dissolved	7429-90-5	E421	0.107 mg/L	0.1 mg/L	107	70.0	130	----
		Antimony, dissolved	7440-36-0	E421	0.0562 mg/L	0.05 mg/L	112	70.0	130	----
		Arsenic, dissolved	7440-38-2	E421	0.508 mg/L	0.5 mg/L	102	70.0	130	----
		Barium, dissolved	7440-39-3	E421	ND mg/L	----	ND	70.0	130	----
		Beryllium, dissolved	7440-41-7	E421	0.00492 mg/L	0.005 mg/L	98.5	70.0	130	----
		Bismuth, dissolved	7440-69-9	E421	0.0462 mg/L	0.05 mg/L	92.3	70.0	130	----
		Boron, dissolved	7440-42-8	E421	ND mg/L	----	ND	70.0	130	----
		Cadmium, dissolved	7440-43-9	E421	0.00520 mg/L	0.005 mg/L	104	70.0	130	----
		Calcium, dissolved	7440-70-2	E421	ND mg/L	----	ND	70.0	130	----
		Cesium, dissolved	7440-46-2	E421	0.00249 mg/L	0.002 mg/L	99.6	70.0	130	----
		Chromium, dissolved	7440-47-3	E421	0.0132 mg/L	0.012 mg/L	106	70.0	130	----
		Cobalt, dissolved	7440-48-4	E421	0.0125 mg/L	0.012 mg/L	100	70.0	130	----
		Copper, dissolved	7440-50-8	E421	0.0123 mg/L	0.012 mg/L	98.3	70.0	130	----
		Iron, dissolved	7439-89-6	E421	ND mg/L	----	ND	70.0	130	----
		Lead, dissolved	7439-92-1	E421	0.0248 mg/L	0.025 mg/L	99.2	70.0	130	----
		Lithium, dissolved	7439-93-2	E421	0.0118 mg/L	0.012 mg/L	94.0	70.0	130	----



Sub-Matrix: Water					Matrix Spike (MS) Report					
					Spike		Recovery (%)	Recovery Limits (%)		Qualifier
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	Concentration	Target	MS	Low	High	
Dissolved Metals (QCLot: 1971968) - continued										
WT2509690-002	OW-2S	Magnesium, dissolved	7439-95-4	E421	ND mg/L	----	ND	70.0	130	----
		Manganese, dissolved	7439-96-5	E421	ND mg/L	----	ND	70.0	130	----
		Molybdenum, dissolved	7439-98-7	E421	0.0132 mg/L	0.012 mg/L	106	70.0	130	----
		Nickel, dissolved	7440-02-0	E421	0.0245 mg/L	0.025 mg/L	98.1	70.0	130	----
		Phosphorus, dissolved	7723-14-0	E421	0.557 mg/L	0.5 mg/L	111	70.0	130	----
		Potassium, dissolved	7440-09-7	E421	2.69 mg/L	2.5 mg/L	108	70.0	130	----
		Rubidium, dissolved	7440-17-7	E421	0.00517 mg/L	0.005 mg/L	103	70.0	130	----
		Selenium, dissolved	7782-49-2	E421	0.496 mg/L	0.5 mg/L	99.3	70.0	130	----
		Silicon, dissolved	7440-21-3	E421	ND mg/L	----	ND	70.0	130	----
		Silver, dissolved	7440-22-4	E421	0.00368 mg/L	0.005 mg/L	73.6	70.0	130	----
		Sodium, dissolved	7440-23-5	E421	ND mg/L	----	ND	70.0	130	----
		Strontium, dissolved	7440-24-6	E421	ND mg/L	----	ND	70.0	130	----
		Sulfur, dissolved	7704-34-9	E421	ND mg/L	----	ND	70.0	130	----
		Tellurium, dissolved	13494-80-9	E421	0.00582 mg/L	0.005 mg/L	116	70.0	130	----
		Thallium, dissolved	7440-28-0	E421	0.0489 mg/L	0.05 mg/L	97.8	70.0	130	----
		Thorium, dissolved	7440-29-1	E421	0.00456 mg/L	0.005 mg/L	91.1	70.0	130	----
		Tin, dissolved	7440-31-5	E421	0.0266 mg/L	0.025 mg/L	106	70.0	130	----
		Titanium, dissolved	7440-32-6	E421	0.0133 mg/L	0.012 mg/L	107	70.0	130	----
		Tungsten, dissolved	7440-33-7	E421	0.00505 mg/L	0.005 mg/L	101	70.0	130	----
		Uranium, dissolved	7440-61-1	E421	ND mg/L	----	ND	70.0	130	----
Vanadium, dissolved	7440-62-2	E421	0.0270 mg/L	0.025 mg/L	108	70.0	130	----		
Zinc, dissolved	7440-66-6	E421	0.0253 mg/L	0.025 mg/L	101	70.0	130	----		
Zirconium, dissolved	7440-67-7	E421	0.00520 mg/L	0.005 mg/L	104	70.0	130	----		
Volatile Organic Compounds (QCLot: 1972270)										
WT2509690-001	OW-1	Acetone	67-64-1	E611D	109 µg/L	100 µg/L	109	60.0	140	----
		Benzene	71-43-2	E611D	98.9 µg/L	100 µg/L	98.9	60.0	140	----
		Bromodichloromethane	75-27-4	E611D	99.9 µg/L	100 µg/L	99.9	60.0	140	----
		Bromoform	75-25-2	E611D	79.0 µg/L	100 µg/L	79.0	60.0	140	----
		Bromomethane	74-83-9	E611D	78.9 µg/L	100 µg/L	78.9	60.0	140	----
		Carbon tetrachloride	56-23-5	E611D	92.0 µg/L	100 µg/L	92.0	60.0	140	----
		Chlorobenzene	108-90-7	E611D	99.4 µg/L	100 µg/L	99.4	60.0	140	----
		Chloroform	67-66-3	E611D	102 µg/L	100 µg/L	102	60.0	140	----
		Dibromochloromethane	124-48-1	E611D	88.6 µg/L	100 µg/L	88.6	60.0	140	----
		Dibromoethane, 1,2-	106-93-4	E611D	94.4 µg/L	100 µg/L	94.4	60.0	140	----
		Dichlorobenzene, 1,2-	95-50-1	E611D	99.2 µg/L	100 µg/L	99.2	60.0	140	----
		Dichlorobenzene, 1,3-	541-73-1	E611D	98.8 µg/L	100 µg/L	98.8	60.0	140	----
		Dichlorobenzene, 1,4-	106-46-7	E611D	99.0 µg/L	100 µg/L	99.0	60.0	140	----
		Dichlorodifluoromethane	75-71-8	E611D	120 µg/L	100 µg/L	120	60.0	140	----
		Dichloroethane, 1,1-	75-34-3	E611D	104 µg/L	100 µg/L	104	60.0	140	----
		Dichloroethane, 1,2-	107-06-2	E611D	104 µg/L	100 µg/L	104	60.0	140	----
		Dichloroethylene, 1,1-	75-35-4	E611D	105 µg/L	100 µg/L	105	60.0	140	----
		Dichloroethylene, cis-1,2-	156-59-2	E611D	106 µg/L	100 µg/L	106	60.0	140	----
		Dichloroethylene, trans-1,2-	156-60-5	E611D	104 µg/L	100 µg/L	104	60.0	140	----
		Dichloromethane	75-09-2	E611D	99.5 µg/L	100 µg/L	99.5	60.0	140	----



Sub-Matrix: Water					Matrix Spike (MS) Report					
					Spike		Recovery (%)	Recovery Limits (%)		
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	Concentration	Target	MS	Low	High	Qualifier
Volatile Organic Compounds (QCLot: 1972270) - continued										
WT2509690-001	OW-1	Dichloropropane, 1,2-	78-87-5	E611D	104 µg/L	100 µg/L	104	60.0	140	----
		Dichloropropylene, cis-1,3-	10061-01-5	E611D	99.2 µg/L	100 µg/L	99.2	60.0	140	----
		Dichloropropylene, trans-1,3-	10061-02-6	E611D	98.7 µg/L	100 µg/L	98.7	60.0	140	----
		Ethylbenzene	100-41-4	E611D	95.1 µg/L	100 µg/L	95.1	60.0	140	----
		Hexane, n-	110-54-3	E611D	103 µg/L	100 µg/L	103	60.0	140	----
		Methyl ethyl ketone [MEK]	78-93-3	E611D	95 µg/L	100 µg/L	95.4	60.0	140	----
		Methyl isobutyl ketone [MIBK]	108-10-1	E611D	97 µg/L	100 µg/L	97.2	60.0	140	----
		Methyl-tert-butyl ether [MTBE]	1634-04-4	E611D	102 µg/L	100 µg/L	102	60.0	140	----
		Styrene	100-42-5	E611D	91.6 µg/L	100 µg/L	91.6	60.0	140	----
		Tetrachloroethane, 1,1,1,2-	630-20-6	E611D	90.0 µg/L	100 µg/L	90.0	60.0	140	----
		Tetrachloroethane, 1,1,2,2-	79-34-5	E611D	99.4 µg/L	100 µg/L	99.4	60.0	140	----
		Tetrachloroethylene	127-18-4	E611D	84.5 µg/L	100 µg/L	84.5	60.0	140	----
		Toluene	108-88-3	E611D	97.8 µg/L	100 µg/L	97.8	60.0	140	----
		Trichloroethane, 1,1,1-	71-55-6	E611D	98.9 µg/L	100 µg/L	98.9	60.0	140	----
		Trichloroethane, 1,1,2-	79-00-5	E611D	97.6 µg/L	100 µg/L	97.6	60.0	140	----
		Trichloroethylene	79-01-6	E611D	91.3 µg/L	100 µg/L	91.3	60.0	140	----
		Trichlorofluoromethane	75-69-4	E611D	97.8 µg/L	100 µg/L	97.8	60.0	140	----
		Vinyl chloride	75-01-4	E611D	106 µg/L	100 µg/L	106	60.0	140	----
		Xylene, m+p-	179601-23-1	E611D	198 µg/L	200 µg/L	98.9	60.0	140	----
		Xylene, o-	95-47-6	E611D	98.5 µg/L	100 µg/L	98.5	60.0	140	----



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ALS-00-118
N-746
MM-831
57C-89C

Chain of Custody (COC) / Analytical Request Form

Canada Toll Free: 1 800 668 9878

COC Number: 23 - 11100077

Page 1 of 2

Environmental Division
Waterloo
Work Order Reference

WT2509690



Toll Free: +1 519 886 6910

Report To: Contact and company name below will appear on the final report

Company: Alameda Bioscience

Contact: B. LEMAY

Phone: Company address below will appear on the final report

Street:

City/Province:

Postal Code:

Invoice To: Same as Report To ☒ YES ☐ NO

Company: Copy of Invoice with Report ☐ YES ☒ NO

Contact:

Project Information

ALS Client Code / QUOTE #: 65-924

Job / Project #:

PO / AFE:

LSD:

ALS Lab Work Order # (ALS use only): WTAS09090 FH

Sample Identification and/or Coordinates (this description will appear on the report)

ALS Sample # (ALS use only): DW-1

DW-2S

DW-2D

DW-3S

DW-3D

DW-5

DW-7S

DW-8

DW-10S

DW-10D

DW-12S

Reports / Recipients

Select Report Format: ☒ PDF ☐ EXCEL ☐ EDD (DIGITAL)

Merge QC/QCI Reports with COA ☒ YES ☐ NO ☐ N/A

Compare Results to Criteria on Report - provide details below if box checked

Select Distribution: ☒ EMAIL ☐ MAIL ☐ FAX

Email 1 or Fax

Email 2

Email 3

Invoice Recipients

Select Invoice Distribution: ☒ EMAIL ☐ MAIL ☐ FAX

Email 1 or Fax

Email 2

Oil and Gas Required Fields (client use)

AFFCOast Center

MajorMinor Code

Routing Code

Requisitioner

Location

ALS Contact: GAYLE

Sampler: BSL

Date (dd-mm-yy): 29/04/25

Time (hh:mm)

Sample Type

GU

Turnaround Time (TAT) Requested

☒ Routine (R) if received by 3pm M-F - no surcharges apply

4 day (P4) if received by 3pm M-F - 20% rush surcharge min

3 day (P3) if received by 3pm M-F - 25% rush surcharge min

2 day (P2) if received by 3pm M-F - 50% rush surcharge min

1 day (P1) if received by 3pm M-F - 100% rush surcharge min

Same day (E2) if received by 10am M-S - 200% rush surcharge

Additional fees may apply to rush requests on week

Date and Time Required for all EAP TATs:

For all tests with rush TATs requested, please advise your TAT.

Analysis Request

Indicate Filtered (F), Preserved (P) or Filtered at Preserved (F/P) below

VOC

Gen. Chem. Pkg. 1

SAMPLES ON HOLD

EXTENDED STORAGE REQUIRED

SUSPECTED HAZARD (see notes)

Drinking Water (DW) Samples (client use)

Are samples taken from a Regulated DW System? ☒ YES ☐ NO

Are samples for human consumption use? ☐ YES ☒ NO

Notes / Specify Limits for result evaluation by selecting from drop-down below (Excel COC only)

Metals are Full of Pesticides

ODAS

SHIPPING RELEASE (client use)

Released by: BSL Date: APR 29/25 Time:

Received by: Date: Time:

INITIAL SHIPMENT RECEPTION (ALS use only)

Time:

Received by: Date: Time:

FINAL SHIPMENT RECEPTION (ALS use only)

Date: APR 29/25 Time: 13:15

Received by: Date: Time:

COOLING METHOD: ☐ NONE ☐ ICE ☒ FLE PACKS ☐ FROZEN ☐ COOLING INITIATED

Cooler Custody Seals Intact: ☐ YES ☐ N/A Sample Custody Seals Intact: ☐ YES ☐ N/A

INITIAL COOLER TEMPERATURES °C: 18.6 10.5

FINAL COOLER TEMPERATURES °C:

WHITE - LABORATORY COPY YELLOW - CLIENT COPY

Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY. By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the back page of the white - report copy.

1. If any water samples are taken from a Regulated Drinking Water (DW) System, please submit using an Authorized DW COC form.

JAN 10/23 11:00AM



www.alsglobal.com

Canada Toll Free: 1 800 666 9878

Chain of Custody (COC) / Analytical Request Form

COC Number 23 - 11196626

Page 2 of 2

Contact and company name below will appear on the final report

Company: Bluewater Geoscience

Contact: B. LEMIEUX

Phone: _____

Company address below will appear on the final report

Street: _____

City/Province: _____

Postal Code: _____

Invoice To: Same as Report To ☒ YES ☐ NO

Copy of Invoice with Report ☐ YES ☒ NO

Company: _____

Contact: _____

Project Information

ALS Client Code / QUOTE #: _____

Job / Project #: BG-924 924

PO / AFE: _____

LSD: _____

ALS Lab Work Order # (ALS use only): _____

Reports / Recipients

Select Report Format: ☒ PDF ☐ EXCEL ☐ EDO (DIGITAL)

Merge QC/QCI Reports with COA ☒ YES ☐ NO ☐ N/A

☒ Compare Results to Criteria on Report - provide details below if box checked

Select Distribution: ☒ EMAIL ☐ MAIL ☐ FAX

Email 1 or Fax _____

Email 2 _____

Email 3 _____

Invoice Recipients

Select Invoice Distribution: ☒ EMAIL ☐ MAIL ☐ FAX

Email 1 or Fax _____

Email 2 _____

Oil and Gas Required Fields (client use)

AFC/Coast Center: _____

Major/Minor Code: _____

Routing Code: _____

Requestor: _____

Location: _____

ALS Contact: GARYL

Sampler: BSL

Date (dd-mm-yy): 29/04/25

Time (hh:mm): _____

Sample Type: GS

Turnaround Time (TAT) Requested

☒ Routine [R] if received by 3pm M-F - no surcharges apply

4 day [P4] if received by 3pm M-F - 20% rush surcharge minimum

3 day [P3] if received by 3pm M-F - 25% rush surcharge minimum

2 day [P2] if received by 3pm M-F - 50% rush surcharge minimum

1 day [E] if received by 3pm M-F - 100% rush surcharge minimum

Same day [E2] if received by 10am M-S - 200% rush surcharge

Additional fees may apply to rush requests on weekends, statutory holidays and for non-routine tests.

Date and Time Requested for all EAP TATs: _____

For all tests with rush TATs requested, please select your LMT to confirm availability.

Indicate Filtered (F), Preserved (P) or Filtered & Preserved (FP) below

Analysis Request

Indicate Filtered (F), Preserved (P) or Filtered & Preserved (FP) below

Indicate Filtered (F), Preserved (P) or Filtered & Preserved (FP) below

Indicate Filtered (F), Preserved (P) or Filtered & Preserved (FP) below

Indicate Filtered (F), Preserved (P) or Filtered & Preserved (FP) below

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Indicate Filtered (F), Preserved (P) or Filtered & Preserved (FP) below

Indicate Filtered (F), Preserved (P) or Filtered & Preserved (FP) below

Indicate Filtered (F), Preserved (P) or Filtered & Preserved (FP) below

Indicate Filtered (F), Preserved (P) or Filtered & Preserved (FP) below

Indicate Filtered (F), Preserved (P) or Filtered & Preserved (FP) below

Indicate Filtered (F), Preserved (P) or Filtered & Preserved (FP) below

Indicate Filtered (F), Preserved (P) or Filtered & Preserved (FP) below

AFIX ALS BARCODE LABEL HERE (ALS use only)

Drinking Water (DW) Samples¹ (client use)

Are samples taken from a Regulated DW System?
☐ YES ☒ NO

Are samples for human consumption use?
☐ YES ☒ NO

SHIPMENT RELEASE (client use)

Released by: BL Date: 10/29/25 Time: _____

Received by: _____ Date: _____ Time: _____

Initial Shipment Reception (ALS use only)

White - Laboratory Copy

Yellow - Client Copy

Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY. By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the back page of the white - report copy.

Notes / Specify Limits for result evaluation by selecting from drop-down below (Excel COC only)

Drinking Water (DW) Samples¹ (client use)

Are samples taken from a Regulated DW System?
☐ YES ☒ NO

Are samples for human consumption use?
☐ YES ☒ NO

SHIPMENT RELEASE (client use)

Released by: BL Date: 10/29/25 Time: _____

Received by: _____ Date: _____ Time: _____

Initial Shipment Reception (ALS use only)

White - Laboratory Copy

Yellow - Client Copy

SAMPLE RECEIPT DETAILS (ALS use only)

Cooling Method: ☐ NONE ☐ ICE ☒ Dry Pack ☐ FROZEN

Cooler Custody Seals Intact: ☐ YES ☒ N/A

Sample Custody Seals Intact: ☐ YES ☒ N/A

INITIAL COOLER TEMPERATURES °C

INITIAL COOLER TEMPERATURES °C

INITIAL COOLER TEMPERATURES °C

INITIAL COOLER TEMPERATURES °C

INITIAL COOLER TEMPERATURES °C

INITIAL COOLER TEMPERATURES °C

SAMPLES ON HOLD

EXTENDED STORAGE REQUIRED

SUSPECTED HAZARD (see notes)

DATE RECEIVED BY: 29 APR 25 TIME: 13:15

DATE RECEIVED BY: _____ TIME: _____

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DATE RECEIVED BY: _____ TIME: _____

CERTIFICATE OF ANALYSIS (GUIDELINE EVALUATION)

Work Order	: WT2529612		
Client	: Bluewater Geoscience Consultants Inc.	Laboratory	: ALS Environmental - Waterloo
Contact	: Breton Lemieux	Account Manager	: Gayle Braun
Address	: 42 Shadyridge Place Kitchener Ontario Canada N2N 3J1	Address	: 60 Northland Road, Unit 1 Waterloo ON Canada N2V 2B8
Telephone	: 519 744 4123	Telephone	: +1 519 886 6910
Project	: BG-924	Date Samples Received	: 16-Oct-2025 14:00
PO	: ----	Date Analysis Commenced	: 17-Oct-2025
C-O-C number	: ----	Issue Date	: 24-Oct-2025 17:19
Sampler	: ----		
Site	: ----		
Quote number	: SOA		
No. of samples received	: 16		
No. of samples analysed	: 16		

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results
- Guideline Comparison

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QC Interpretive report to assist with Quality Review and Sample Receipt Notification (SRN).

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is conducted in accordance with US FDA 21 CFR Part 11.

Signatories	Position	Laboratory Department
Greg Pokocky	Manager - Inorganics	Inorganics, Waterloo, Ontario
Walt Kippenhuck	Supervisor - Inorganic	Metals, Waterloo, Ontario
Walt Kippenhuck	Supervisor - Inorganic	Inorganics, Waterloo, Ontario

Summary of Guideline Breaches by Sample

SampleID/Client ID	Matrix	Analyte	Analyte Summary	Guideline	Category	Result	Limit
OW-1 ----	Water	Colour, apparent	May interfere with disinfection; removal is important to ensure effective treatment.	ONDWS	AO/OG	426 CU	5 CU
	Water	Hardness (as CaCO ₃), dissolved	Hardness levels between 80 and 100 mg/L (as CaCO ₃) provide acceptable balance between corrosion and incrustation; where a water softener is used, a separate unsoftened supply for cooking and drinking purposes is recommended.	ONDWS	AO/OG	458 mg/L	80 - 100 mg/L



	Water	Turbidity	Filtration systems should be designed and operated to reduce turbidity levels as low as reasonably achievable and strive to achieve a treated water turbidity target from individual filters of less than 0.1 NTU. Particles can harbour microorganisms, protecting them from disinfection, and can entrap heavy metals and biocides; elevated or fluctuating turbidity in filtered water can indicate a problem with the water treatment process and a potential increased risk of pathogens in treated water.	ONDWS	AO/OG	100 NTU	5 NTU
OW-2S ----	Water	Alkalinity, total (as CaCO ₃)		ONDWS	AO/OG	602 mg/L	30 - 500 mg/L
	Water	Colour, apparent	May interfere with disinfection; removal is important to ensure effective treatment.	ONDWS	AO/OG	342 CU	5 CU
	Water	Hardness (as CaCO ₃), dissolved	Hardness levels between 80 and 100 mg/L (as CaCO ₃) provide acceptable balance between corrosion and incrustation; where a water softener is used, a separate unsoftened supply for cooking and drinking purposes is recommended.	ONDWS	AO/OG	682 mg/L	80 - 100 mg/L
	Water	Solids, total dissolved [TDS]	Based on taste; TDS above 500 mg/L results in excessive scaling in water pipes, water heaters, boilers and appliances; TDS is composed of calcium, magnesium, sodium, potassium, carbonate, bicarbonate, chloride, sulphate and nitrate.	ONDWS	AO/OG	628 mg/L	500 mg/L
	Water	Turbidity	Filtration systems should be designed and operated to reduce turbidity levels as low as reasonably achievable and strive to achieve a treated water turbidity target from individual filters of less than 0.1 NTU. Particles can harbour microorganisms, protecting them from disinfection, and can entrap heavy metals and biocides; elevated or fluctuating turbidity in filtered water can indicate a problem with the water treatment process and a potential increased risk of pathogens in treated water.	ONDWS	AO/OG	91.1 NTU	5 NTU
	Water	Iron, dissolved	Based on taste and staining of laundry and plumbing fixtures; no evidence exists of dietary iron toxicity in the general population.	ONDWS	AO/OG	1.74 mg/L	0.3 mg/L
	Water	Manganese, dissolved	Based on taste and staining of laundry and plumbing fixtures.	ONDWS	AO/OG	0.157 mg/L	0.05 mg/L
OW-2D ----	Water	Alkalinity, total (as CaCO ₃)		ONDWS	AO/OG	616 mg/L	30 - 500 mg/L
	Water	Colour, apparent	May interfere with disinfection; removal is important to ensure effective treatment.	ONDWS	AO/OG	99.0 CU	5 CU



	Water	Hardness (as CaCO ₃), dissolved	Hardness levels between 80 and 100 mg/L (as CaCO ₃) provide acceptable balance between corrosion and incrustation; where a water softener is used, a separate unsoftened supply for cooking and drinking purposes is recommended.	ONDWS	AO/OG	667 mg/L	80 - 100 mg/L
	Water	Solids, total dissolved [TDS]	Based on taste; TDS above 500 mg/L results in excessive scaling in water pipes, water heaters, boilers and appliances; TDS is composed of calcium, magnesium, sodium, potassium, carbonate, bicarbonate, chloride, sulphate and nitrate.	ONDWS	AO/OG	748 mg/L	500 mg/L
	Water	Turbidity	Filtration systems should be designed and operated to reduce turbidity levels as low as reasonably achievable and strive to achieve a treated water turbidity target from individual filters of less than 0.1 NTU. Particles can harbour microorganisms, protecting them from disinfection, and can entrap heavy metals and biocides; elevated or fluctuating turbidity in filtered water can indicate a problem with the water treatment process and a potential increased risk of pathogens in treated water.	ONDWS	AO/OG	39.1 NTU	5 NTU
	Water	Iron, dissolved	Based on taste and staining of laundry and plumbing fixtures; no evidence exists of dietary iron toxicity in the general population.	ONDWS	AO/OG	3.06 mg/L	0.3 mg/L
	Water	Manganese, dissolved	Based on taste and staining of laundry and plumbing fixtures.	ONDWS	AO/OG	0.677 mg/L	0.05 mg/L
	Water	Sodium, dissolved	Based on taste; where a sodium-based water softener is used, a separate unsoftened supply for cooking and drinking purposes is recommended.	ONDWS	MAC	26.0 mg/L	20 mg/L
OW-3S ----	Water	Colour, apparent	May interfere with disinfection; removal is important to ensure effective treatment.	ONDWS	AO/OG	478 CU	5 CU
	Water	Hardness (as CaCO ₃), dissolved	Hardness levels between 80 and 100 mg/L (as CaCO ₃) provide acceptable balance between corrosion and incrustation; where a water softener is used, a separate unsoftened supply for cooking and drinking purposes is recommended.	ONDWS	AO/OG	441 mg/L	80 - 100 mg/L



	Water	Turbidity	Filtration systems should be designed and operated to reduce turbidity levels as low as reasonably achievable and strive to achieve a treated water turbidity target from individual filters of less than 0.1 NTU. Particles can harbour microorganisms, protecting them from disinfection, and can entrap heavy metals and biocides; elevated or fluctuating turbidity in filtered water can indicate a problem with the water treatment process and a potential increased risk of pathogens in treated water.	ONDWS	AO/OG	146 NTU	5 NTU
	Water	Iron, dissolved	Based on taste and staining of laundry and plumbing fixtures; no evidence exists of dietary iron toxicity in the general population.	ONDWS	AO/OG	3.46 mg/L	0.3 mg/L
	Water	Manganese, dissolved	Based on taste and staining of laundry and plumbing fixtures.	ONDWS	AO/OG	0.322 mg/L	0.05 mg/L
OW-3D ----	Water	Alkalinity, total (as CaCO ₃)		ONDWS	AO/OG	966 mg/L	30 - 500 mg/L
	Water	Colour, apparent	May interfere with disinfection; removal is important to ensure effective treatment.	ONDWS	AO/OG	1100 CU	5 CU
	Water	Hardness (as CaCO ₃), dissolved	Hardness levels between 80 and 100 mg/L (as CaCO ₃) provide acceptable balance between corrosion and incrustation; where a water softener is used, a separate unsoftened supply for cooking and drinking purposes is recommended.	ONDWS	AO/OG	754 mg/L	80 - 100 mg/L
	Water	Solids, total dissolved [TDS]	Based on taste; TDS above 500 mg/L results in excessive scaling in water pipes, water heaters, boilers and appliances; TDS is composed of calcium, magnesium, sodium, potassium, carbonate, bicarbonate, chloride, sulphate and nitrate.	ONDWS	AO/OG	965 mg/L	500 mg/L
	Water	Turbidity	Filtration systems should be designed and operated to reduce turbidity levels as low as reasonably achievable and strive to achieve a treated water turbidity target from individual filters of less than 0.1 NTU. Particles can harbour microorganisms, protecting them from disinfection, and can entrap heavy metals and biocides; elevated or fluctuating turbidity in filtered water can indicate a problem with the water treatment process and a potential increased risk of pathogens in treated water.	ONDWS	AO/OG	216 NTU	5 NTU
	Water	Iron, dissolved	Based on taste and staining of laundry and plumbing fixtures; no evidence exists of dietary iron toxicity in the general population.	ONDWS	AO/OG	17.8 mg/L	0.3 mg/L
	Water	Manganese, dissolved	Based on taste and staining of laundry and plumbing fixtures.	ONDWS	AO/OG	0.581 mg/L	0.05 mg/L



	Water	Sodium, dissolved	Based on taste; where a sodium-based water softener is used, a separate unsoftened supply for cooking and drinking purposes is recommended.	ONDWS	MAC	49.9 mg/L	20 mg/L
OW-7S ----	Water	Alkalinity, total (as CaCO ₃)		ONDWS	AO/OG	576 mg/L	30 - 500 mg/L
	Water	Colour, apparent	May interfere with disinfection; removal is important to ensure effective treatment.	ONDWS	AO/OG	2210 CU	5 CU
	Water	Hardness (as CaCO ₃), dissolved	Hardness levels between 80 and 100 mg/L (as CaCO ₃) provide acceptable balance between corrosion and incrustation; where a water softener is used, a separate unsoftened supply for cooking and drinking purposes is recommended.	ONDWS	AO/OG	685 mg/L	80 - 100 mg/L
	Water	Solids, total dissolved [TDS]	Based on taste; TDS above 500 mg/L results in excessive scaling in water pipes, water heaters, boilers and appliances; TDS is composed of calcium, magnesium, sodium, potassium, carbonate, bicarbonate, chloride, sulphate and nitrate.	ONDWS	AO/OG	864 mg/L	500 mg/L
	Water	Turbidity	Filtration systems should be designed and operated to reduce turbidity levels as low as reasonably achievable and strive to achieve a treated water turbidity target from individual filters of less than 0.1 NTU. Particles can harbour microorganisms, protecting them from disinfection, and can entrap heavy metals and biocides; elevated or fluctuating turbidity in filtered water can indicate a problem with the water treatment process and a potential increased risk of pathogens in treated water.	ONDWS	AO/OG	631 NTU	5 NTU
	Water	Iron, dissolved	Based on taste and staining of laundry and plumbing fixtures; no evidence exists of dietary iron toxicity in the general population.	ONDWS	AO/OG	0.604 mg/L	0.3 mg/L
	Water	Manganese, dissolved	Based on taste and staining of laundry and plumbing fixtures.	ONDWS	AO/OG	0.0946 mg/L	0.05 mg/L
OW-7D ----	Water	Alkalinity, total (as CaCO ₃)		ONDWS	AO/OG	595 mg/L	30 - 500 mg/L
	Water	Colour, apparent	May interfere with disinfection; removal is important to ensure effective treatment.	ONDWS	AO/OG	186 CU	5 CU
	Water	Hardness (as CaCO ₃), dissolved	Hardness levels between 80 and 100 mg/L (as CaCO ₃) provide acceptable balance between corrosion and incrustation; where a water softener is used, a separate unsoftened supply for cooking and drinking purposes is recommended.	ONDWS	AO/OG	672 mg/L	80 - 100 mg/L



	Water	Solids, total dissolved [TDS]	Based on taste; TDS above 500 mg/L results in excessive scaling in water pipes, water heaters, boilers and appliances; TDS is composed of calcium, magnesium, sodium, potassium, carbonate, bicarbonate, chloride, sulphate and nitrate.	ONDWS	AO/OG	803 mg/L	500 mg/L
	Water	Turbidity	Filtration systems should be designed and operated to reduce turbidity levels as low as reasonably achievable and strive to achieve a treated water turbidity target from individual filters of less than 0.1 NTU. Particles can harbour microorganisms, protecting them from disinfection, and can entrap heavy metals and biocides; elevated or fluctuating turbidity in filtered water can indicate a problem with the water treatment process and a potential increased risk of pathogens in treated water.	ONDWS	AO/OG	38.4 NTU	5 NTU
	Water	Iron, dissolved	Based on taste and staining of laundry and plumbing fixtures; no evidence exists of dietary iron toxicity in the general population.	ONDWS	AO/OG	1.41 mg/L	0.3 mg/L
	Water	Manganese, dissolved	Based on taste and staining of laundry and plumbing fixtures.	ONDWS	AO/OG	0.131 mg/L	0.05 mg/L
	Water	Sodium, dissolved	Based on taste; where a sodium-based water softener is used, a separate unsoftened supply for cooking and drinking purposes is recommended.	ONDWS	MAC	25.8 mg/L	20 mg/L
OW-10S ----	Water	Colour, apparent	May interfere with disinfection; removal is important to ensure effective treatment.	ONDWS	AO/OG	3130 CU	5 CU
	Water	Hardness (as CaCO ₃), dissolved	Hardness levels between 80 and 100 mg/L (as CaCO ₃) provide acceptable balance between corrosion and incrustation; where a water softener is used, a separate unsoftened supply for cooking and drinking purposes is recommended.	ONDWS	AO/OG	433 mg/L	80 - 100 mg/L
	Water	Solids, total dissolved [TDS]	Based on taste; TDS above 500 mg/L results in excessive scaling in water pipes, water heaters, boilers and appliances; TDS is composed of calcium, magnesium, sodium, potassium, carbonate, bicarbonate, chloride, sulphate and nitrate.	ONDWS	AO/OG	549 mg/L	500 mg/L



	Water	Turbidity	Filtration systems should be designed and operated to reduce turbidity levels as low as reasonably achievable and strive to achieve a treated water turbidity target from individual filters of less than 0.1 NTU. Particles can harbour microorganisms, protecting them from disinfection, and can entrap heavy metals and biocides; elevated or fluctuating turbidity in filtered water can indicate a problem with the water treatment process and a potential increased risk of pathogens in treated water.	ONDWS	AO/OG	990 NTU	5 NTU
	Water	Iron, dissolved	Based on taste and staining of laundry and plumbing fixtures; no evidence exists of dietary iron toxicity in the general population.	ONDWS	AO/OG	0.325 mg/L	0.3 mg/L
	Water	Manganese, dissolved	Based on taste and staining of laundry and plumbing fixtures.	ONDWS	AO/OG	0.273 mg/L	0.05 mg/L
OW-10D ----	Water	Alkalinity, total (as CaCO ₃)		ONDWS	AO/OG	640 mg/L	30 - 500 mg/L
	Water	Colour, apparent	May interfere with disinfection; removal is important to ensure effective treatment.	ONDWS	AO/OG	246 CU	5 CU
	Water	Hardness (as CaCO ₃), dissolved	Hardness levels between 80 and 100 mg/L (as CaCO ₃) provide acceptable balance between corrosion and incrustation; where a water softener is used, a separate unsoftened supply for cooking and drinking purposes is recommended.	ONDWS	AO/OG	622 mg/L	80 - 100 mg/L
	Water	Solids, total dissolved [TDS]	Based on taste; TDS above 500 mg/L results in excessive scaling in water pipes, water heaters, boilers and appliances; TDS is composed of calcium, magnesium, sodium, potassium, carbonate, bicarbonate, chloride, sulphate and nitrate.	ONDWS	AO/OG	674 mg/L	500 mg/L
	Water	Turbidity	Filtration systems should be designed and operated to reduce turbidity levels as low as reasonably achievable and strive to achieve a treated water turbidity target from individual filters of less than 0.1 NTU. Particles can harbour microorganisms, protecting them from disinfection, and can entrap heavy metals and biocides; elevated or fluctuating turbidity in filtered water can indicate a problem with the water treatment process and a potential increased risk of pathogens in treated water.	ONDWS	AO/OG	66.2 NTU	5 NTU
	Water	Iron, dissolved	Based on taste and staining of laundry and plumbing fixtures; no evidence exists of dietary iron toxicity in the general population.	ONDWS	AO/OG	4.10 mg/L	0.3 mg/L
	Water	Manganese, dissolved	Based on taste and staining of laundry and plumbing fixtures.	ONDWS	AO/OG	1.08 mg/L	0.05 mg/L



	Water	Sodium, dissolved	Based on taste; where a sodium-based water softener is used, a separate unsoftened supply for cooking and drinking purposes is recommended.	ONDWS	MAC	31.7 mg/L	20 mg/L
OW-12D ----	Water	Colour, apparent	May interfere with disinfection; removal is important to ensure effective treatment.	ONDWS	AO/OG	63.4 CU	5 CU
	Water	Hardness (as CaCO ₃), dissolved	Hardness levels between 80 and 100 mg/L (as CaCO ₃) provide acceptable balance between corrosion and incrustation; where a water softener is used, a separate unsoftened supply for cooking and drinking purposes is recommended.	ONDWS	AO/OG	468 mg/L	80 - 100 mg/L
	Water	Solids, total dissolved [TDS]	Based on taste; TDS above 500 mg/L results in excessive scaling in water pipes, water heaters, boilers and appliances; TDS is composed of calcium, magnesium, sodium, potassium, carbonate, bicarbonate, chloride, sulphate and nitrate.	ONDWS	AO/OG	542 mg/L	500 mg/L
	Water	Turbidity	Filtration systems should be designed and operated to reduce turbidity levels as low as reasonably achievable and strive to achieve a treated water turbidity target from individual filters of less than 0.1 NTU. Particles can harbour microorganisms, protecting them from disinfection, and can entrap heavy metals and biocides; elevated or fluctuating turbidity in filtered water can indicate a problem with the water treatment process and a potential increased risk of pathogens in treated water.	ONDWS	AO/OG	12.3 NTU	5 NTU
	Water	Manganese, dissolved	Based on taste and staining of laundry and plumbing fixtures.	ONDWS	AO/OG	0.568 mg/L	0.05 mg/L
OW-13S ----	Water	Colour, apparent	May interfere with disinfection; removal is important to ensure effective treatment.	ONDWS	AO/OG	9790 CU	5 CU
	Water	Hardness (as CaCO ₃), dissolved	Hardness levels between 80 and 100 mg/L (as CaCO ₃) provide acceptable balance between corrosion and incrustation; where a water softener is used, a separate unsoftened supply for cooking and drinking purposes is recommended.	ONDWS	AO/OG	416 mg/L	80 - 100 mg/L
	Water	Solids, total dissolved [TDS]	Based on taste; TDS above 500 mg/L results in excessive scaling in water pipes, water heaters, boilers and appliances; TDS is composed of calcium, magnesium, sodium, potassium, carbonate, bicarbonate, chloride, sulphate and nitrate.	ONDWS	AO/OG	556 mg/L	500 mg/L



	Water	Turbidity	Filtration systems should be designed and operated to reduce turbidity levels as low as reasonably achievable and strive to achieve a treated water turbidity target from individual filters of less than 0.1 NTU. Particles can harbour microorganisms, protecting them from disinfection, and can entrap heavy metals and biocides; elevated or fluctuating turbidity in filtered water can indicate a problem with the water treatment process and a potential increased risk of pathogens in treated water.	ONDWS	AO/OG	>4000 NTU	5 NTU
	Water	Iron, dissolved	Based on taste and staining of laundry and plumbing fixtures; no evidence exists of dietary iron toxicity in the general population.	ONDWS	AO/OG	0.543 mg/L	0.3 mg/L
	Water	Manganese, dissolved	Based on taste and staining of laundry and plumbing fixtures.	ONDWS	AO/OG	0.0668 mg/L	0.05 mg/L
OW-13D ----	Water	Alkalinity, total (as CaCO ₃)		ONDWS	AO/OG	616 mg/L	30 - 500 mg/L
	Water	Colour, apparent	May interfere with disinfection; removal is important to ensure effective treatment.	ONDWS	AO/OG	606 CU	5 CU
	Water	Hardness (as CaCO ₃), dissolved	Hardness levels between 80 and 100 mg/L (as CaCO ₃) provide acceptable balance between corrosion and incrustation; where a water softener is used, a separate unsoftened supply for cooking and drinking purposes is recommended.	ONDWS	AO/OG	600 mg/L	80 - 100 mg/L
	Water	Solids, total dissolved [TDS]	Based on taste; TDS above 500 mg/L results in excessive scaling in water pipes, water heaters, boilers and appliances; TDS is composed of calcium, magnesium, sodium, potassium, carbonate, bicarbonate, chloride, sulphate and nitrate.	ONDWS	AO/OG	706 mg/L	500 mg/L
	Water	Turbidity	Filtration systems should be designed and operated to reduce turbidity levels as low as reasonably achievable and strive to achieve a treated water turbidity target from individual filters of less than 0.1 NTU. Particles can harbour microorganisms, protecting them from disinfection, and can entrap heavy metals and biocides; elevated or fluctuating turbidity in filtered water can indicate a problem with the water treatment process and a potential increased risk of pathogens in treated water.	ONDWS	AO/OG	147 NTU	5 NTU
	Water	Iron, dissolved	Based on taste and staining of laundry and plumbing fixtures; no evidence exists of dietary iron toxicity in the general population.	ONDWS	AO/OG	3.83 mg/L	0.3 mg/L
	Water	Manganese, dissolved	Based on taste and staining of laundry and plumbing fixtures.	ONDWS	AO/OG	0.266 mg/L	0.05 mg/L



OW-16S ----	Water	Colour, apparent	May interfere with disinfection; removal is important to ensure effective treatment.	ONDWS	AO/OG	1060 CU	5 CU
	Water	Hardness (as CaCO ₃), dissolved	Hardness levels between 80 and 100 mg/L (as CaCO ₃) provide acceptable balance between corrosion and incrustation; where a water softener is used, a separate unsoftened supply for cooking and drinking purposes is recommended.	ONDWS	AO/OG	413 mg/L	80 - 100 mg/L
	Water	Turbidity	Filtration systems should be designed and operated to reduce turbidity levels as low as reasonably achievable and strive to achieve a treated water turbidity target from individual filters of less than 0.1 NTU. Particles can harbour microorganisms, protecting them from disinfection, and can entrap heavy metals and biocides; elevated or fluctuating turbidity in filtered water can indicate a problem with the water treatment process and a potential increased risk of pathogens in treated water.	ONDWS	AO/OG	296 NTU	5 NTU
OW-16D ----	Water	Alkalinity, total (as CaCO ₃)		ONDWS	AO/OG	678 mg/L	30 - 500 mg/L
	Water	Colour, apparent	May interfere with disinfection; removal is important to ensure effective treatment.	ONDWS	AO/OG	542 CU	5 CU
	Water	Hardness (as CaCO ₃), dissolved	Hardness levels between 80 and 100 mg/L (as CaCO ₃) provide acceptable balance between corrosion and incrustation; where a water softener is used, a separate unsoftened supply for cooking and drinking purposes is recommended.	ONDWS	AO/OG	705 mg/L	80 - 100 mg/L
	Water	Solids, total dissolved [TDS]	Based on taste; TDS above 500 mg/L results in excessive scaling in water pipes, water heaters, boilers and appliances; TDS is composed of calcium, magnesium, sodium, potassium, carbonate, bicarbonate, chloride, sulphate and nitrate.	ONDWS	AO/OG	795 mg/L	500 mg/L
	Water	Turbidity	Filtration systems should be designed and operated to reduce turbidity levels as low as reasonably achievable and strive to achieve a treated water turbidity target from individual filters of less than 0.1 NTU. Particles can harbour microorganisms, protecting them from disinfection, and can entrap heavy metals and biocides; elevated or fluctuating turbidity in filtered water can indicate a problem with the water treatment process and a potential increased risk of pathogens in treated water.	ONDWS	AO/OG	102 NTU	5 NTU
	Water	Iron, dissolved	Based on taste and staining of laundry and plumbing fixtures; no evidence exists of dietary iron toxicity in the general population.	ONDWS	AO/OG	4.80 mg/L	0.3 mg/L



	Water	Manganese, dissolved	Based on taste and staining of laundry and plumbing fixtures.	ONDWS	AO/OG	0.432 mg/L	0.05 mg/L
	Water	Sodium, dissolved	Based on taste; where a sodium-based water softener is used, a separate unsoftened supply for cooking and drinking purposes is recommended.	ONDWS	MAC	21.6 mg/L	20 mg/L
OW-20S ----	Water	Colour, apparent	May interfere with disinfection; removal is important to ensure effective treatment.	ONDWS	AO/OG	9100 CU	5 CU
	Water	Hardness (as CaCO ₃), dissolved	Hardness levels between 80 and 100 mg/L (as CaCO ₃) provide acceptable balance between corrosion and incrustation; where a water softener is used, a separate unsoftened supply for cooking and drinking purposes is recommended.	ONDWS	AO/OG	392 mg/L	80 - 100 mg/L
	Water	Solids, total dissolved [TDS]	Based on taste; TDS above 500 mg/L results in excessive scaling in water pipes, water heaters, boilers and appliances; TDS is composed of calcium, magnesium, sodium, potassium, carbonate, bicarbonate, chloride, sulphate and nitrate.	ONDWS	AO/OG	540 mg/L	500 mg/L
	Water	Turbidity	Filtration systems should be designed and operated to reduce turbidity levels as low as reasonably achievable and strive to achieve a treated water turbidity target from individual filters of less than 0.1 NTU. Particles can harbour microorganisms, protecting them from disinfection, and can entrap heavy metals and biocides; elevated or fluctuating turbidity in filtered water can indicate a problem with the water treatment process and a potential increased risk of pathogens in treated water.	ONDWS	AO/OG	>4000 NTU	5 NTU
	Water	Iron, dissolved	Based on taste and staining of laundry and plumbing fixtures; no evidence exists of dietary iron toxicity in the general population.	ONDWS	AO/OG	1.44 mg/L	0.3 mg/L
	Water	Manganese, dissolved	Based on taste and staining of laundry and plumbing fixtures.	ONDWS	AO/OG	0.148 mg/L	0.05 mg/L
	Water	Sodium, dissolved	Based on taste; where a sodium-based water softener is used, a separate unsoftened supply for cooking and drinking purposes is recommended.	ONDWS	MAC	27.8 mg/L	20 mg/L
OW-20D ----	Water	Alkalinity, total (as CaCO ₃)		ONDWS	AO/OG	584 mg/L	30 - 500 mg/L
	Water	Colour, apparent	May interfere with disinfection; removal is important to ensure effective treatment.	ONDWS	AO/OG	245 CU	5 CU
	Water	Hardness (as CaCO ₃), dissolved	Hardness levels between 80 and 100 mg/L (as CaCO ₃) provide acceptable balance between corrosion and incrustation; where a water softener is used, a separate unsoftened supply for cooking and drinking purposes is recommended.	ONDWS	AO/OG	691 mg/L	80 - 100 mg/L



	Water	Solids, total dissolved [TDS]	Based on taste; TDS above 500 mg/L results in excessive scaling in water pipes, water heaters, boilers and appliances; TDS is composed of calcium, magnesium, sodium, potassium, carbonate, bicarbonate, chloride, sulphate and nitrate.	ONDWS	AO/OG	832 mg/L	500 mg/L
	Water	Turbidity	Filtration systems should be designed and operated to reduce turbidity levels as low as reasonably achievable and strive to achieve a treated water turbidity target from individual filters of less than 0.1 NTU. Particles can harbour microorganisms, protecting them from disinfection, and can entrap heavy metals and biocides; elevated or fluctuating turbidity in filtered water can indicate a problem with the water treatment process and a potential increased risk of pathogens in treated water.	ONDWS	AO/OG	44.5 NTU	5 NTU
	Water	Iron, dissolved	Based on taste and staining of laundry and plumbing fixtures; no evidence exists of dietary iron toxicity in the general population.	ONDWS	AO/OG	3.28 mg/L	0.3 mg/L
	Water	Manganese, dissolved	Based on taste and staining of laundry and plumbing fixtures.	ONDWS	AO/OG	0.566 mg/L	0.05 mg/L
	Water	Sodium, dissolved	Based on taste; where a sodium-based water softener is used, a separate unsoftened supply for cooking and drinking purposes is recommended.	ONDWS	MAC	25.4 mg/L	20 mg/L

Key:

ONDWS	Ontario Drinking Water Regulation (JAN, 2020)
AO/OG	Aesthetic Objective/Operational Guideline (2006)
MAC	Schedule 1 (Microbiological) and 2 (Chemical) Standards (JAN,2020)



General Comments

The analytical methods used by ALS are developed using internationally recognized reference methods (where available), such as those published by US EPA, APHA Standard Methods, ASTM, ISO, Environment Canada, BC MOE, and Ontario MOE. Refer to the ALS Quality Control Interpretive report (QCI) for applicable references and methodology summaries. Reference methods may incorporate modifications to improve performance.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QA/QC Compliance Assessment to assist with Quality Review and Sample Receipt Notification.

When sampling time information is not provided by the client, sampling dates are shown without a time component. In these instances, the time component has been assumed by the laboratory for processing purposes.

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

Key: CAS Number: Chemical Abstracts Services number is a unique identifier assigned to discrete substances.

LOR: Limit of Reporting (detection limit).

Unit	Description
-	no units
CU	colour units (1 cu = 1 mg/l pt)
mg/L	milligrams per litre
NTU	nephelometric turbidity units
pH units	pH units
µS/cm	microsiemens per centimetre

>: greater than.

<: less than.

Red shading is applied where the result or the LOR is greater than the Guideline Upper Limit (or lower than the Guideline Lower Limit, if applicable).

For drinking water samples, Red shading is applied where the result for E.coli, fecal or total coliforms is greater than or equal to the Guideline Upper Limit.

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED on SRN or QCI Report, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

Qualifiers

Qualifier	Description
DLDS	Detection Limit Raised: Dilution required due to high Dissolved Solids / Electrical Conductivity.
DLUI	Detection Limit Raised: Unknown interference generated an apparent false positive test result.
TMV	Turbidity exceeded upper limit of the nephelometric method. Minimum value reported.



Analytical Results

SubMatrix: (Matrix: Water Water)	Client sample ID				OW-1	OW-2S	OW-2D	OW-3S					
	Client sampling date / time				16-Oct-2025 00:00	16-Oct-2025 00:00	16-Oct-2025 00:00	16-Oct-2025 00:00					
	Analyte	CAS Number	Method/Lab	LOR	Unit	WT2529612-001	WT2529612-002	WT2529612-003	WT2529612-004	ONDWS AQ/OG	ONDWS MAC	----	----
Physical Tests													
Alkalinity, total (as CaCO3)	----	E290/WT	1.0	mg/L	378	602	616	362	30 - 500 mg/L	----	----	----	----
Colour, apparent	----	E330/WT	2.0	CU	426	342	99.0	478	5 CU	----	----	----	----
Conductivity	----	E100/WT	1.0	µS/cm	666	979	1260	576	----	----	----	----	----
Hardness (as CaCO3), dissolved	----	EC100/WT	0.50	mg/L	458	682	667	441	80 - 100 mg/L	----	----	----	----
pH	----	E108/WT	0.10	pH units	8.03	7.72	8.08	7.82	6.5 - 8.5 pH units	----	----	----	----
Solids, total dissolved [TDS]	----	E162/WT	10	mg/L	445 DLDS	628 DLDS	748 DLDS	383 DLDS	500 mg/L	----	----	----	----
Turbidity	----	E121/WT	0.10	NTU	100	91.1	39.1	146	5 NTU	----	----	----	----
Anions and Nutrients													
Ammonia, total (as N)	7664-41-7	E298/WT	0.0050	mg/L	0.196	0.206	7.12	0.0379	----	----	----	----	----
Chloride	16887-00-6	E235.Cl/WT	0.50	mg/L	2.98	<2.50 DLDS	24.1 DLDS	<0.50	250 mg/L	----	----	----	----
Fluoride	16984-48-8	E235.F/WT	0.020	mg/L	0.028	<0.100 DLDS	<0.100 DLDS	0.025	----	1.5 mg/L	----	----	----
Nitrate (as N)	14797-55-8	E235.NO3/WT	0.020	mg/L	0.733	<0.100 DLDS	<0.100 DLDS	<0.020	----	10 mg/L	----	----	----
Nitrite (as N)	14797-65-0	E235.NO2/WT	0.010	mg/L	0.020	<0.050 DLDS	<0.050 DLDS	<0.010	----	1 mg/L	----	----	----
Phosphate, ortho-, dissolved (as P)	14265-44-2	E378-U/WT	0.0010	mg/L	0.0386	0.0014	0.0013	0.0011	----	----	----	----	----
Sulfate (as SO4)	14808-79-8	E235.SO4/WT	0.30	mg/L	17.9	8.40 DLDS	120 DLDS	0.39	500 mg/L	----	----	----	----
Dissolved Metals													
Aluminum, dissolved	7429-90-5	E421/WT	0.0010	mg/L	<0.0010	0.0019	0.0024	0.0039	0.1 mg/L	----	----	----	----
Antimony, dissolved	7440-36-0	E421/WT	0.00010	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	----	0.006 mg/L	----	----	----
Arsenic, dissolved	7440-38-2	E421/WT	0.00010	mg/L	0.00026	0.00097	0.00168	0.00265	----	0.01 mg/L	----	----	----
Barium, dissolved	7440-39-3	E421/WT	0.00010	mg/L	0.0447	0.0666	0.144	0.0873	----	1 mg/L	----	----	----
Beryllium, dissolved	7440-41-7	E421/WT	0.000020	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	----	----	----	----	----
Bismuth, dissolved	7440-69-9	E421/WT	0.000050	mg/L	<0.000050	<0.000050	<0.000050	<0.000050	----	----	----	----	----
Boron, dissolved	7440-42-8	E421/WT	0.010	mg/L	0.146	0.346	0.611	0.162	----	5 mg/L	----	----	----
Cadmium, dissolved	7440-43-9	E421/WT	0.0000050	mg/L	0.0000129	<0.0000050	<0.0000050	<0.0000050	----	0.005 mg/L	----	----	----
Calcium, dissolved	7440-70-2	E421/WT	0.050	mg/L	116	160	142	126	----	----	----	----	----
Cesium, dissolved	7440-46-2	E421/WT	0.000010	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	----	----	----	----	----
Chromium, dissolved	7440-47-3	E421/WT	0.00050	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	----	0.05 mg/L	----	----	----
Cobalt, dissolved	7440-48-4	E421/WT	0.00010	mg/L	0.00022	0.00067	0.00347	0.00096	----	----	----	----	----
Copper, dissolved	7440-50-8	E421/WT	0.00020	mg/L	0.00115	<0.00020	<0.00020	<0.00020	1 mg/L	----	----	----	----
Iron, dissolved	7439-89-6	E421/WT	0.010	mg/L	0.103	1.74	3.06	3.46	0.3 mg/L	----	----	----	----
Lead, dissolved	7439-92-1	E421/WT	0.000050	mg/L	0.000207	0.000178	0.000826	<0.000050	----	0.01 mg/L	----	----	----



Client sample ID					OW-1	OW-2S	OW-2D	OW-3S				
					----	----	----	----				
Client sampling date / time					16-Oct-2025 00:00	16-Oct-2025 00:00	16-Oct-2025 00:00	16-Oct-2025 00:00				
Analyte	CAS Number	Method/Lab	LOR	Unit	WT2529612-001	WT2529612-002	WT2529612-003	WT2529612-004	ONDWS AQ/OG	ONDWS MAC	----	----
Dissolved Metals												
Lithium, dissolved	7439-93-2	E421/WT	0.0010	mg/L	0.0032	0.0096	0.0046	0.0019	----	----	----	----
Magnesium, dissolved	7439-95-4	E421/WT	0.0050	mg/L	40.8	68.5	75.8	30.7	----	----	----	----
Manganese, dissolved	7439-96-5	E421/WT	0.00010	mg/L	0.0287	0.157	0.677	0.322	0.05 mg/L	----	----	----
Molybdenum, dissolved	7439-98-7	E421/WT	0.000050	mg/L	0.000245	0.000224	0.000642	0.000492	----	----	----	----
Nickel, dissolved	7440-02-0	E421/WT	0.00050	mg/L	0.00110	0.00206	0.0104	0.00141	----	----	----	----
Phosphorus, dissolved	7723-14-0	E421/WT	0.050	mg/L	<0.050	<0.050	<0.050	<0.050	----	----	----	----
Potassium, dissolved	7440-09-7	E421/WT	0.050	mg/L	3.24	2.34	12.1	4.90	----	----	----	----
Rubidium, dissolved	7440-17-7	E421/WT	0.00020	mg/L	0.00188	0.00095	0.00287	0.00140	----	----	----	----
Selenium, dissolved	7782-49-2	E421/WT	0.000050	mg/L	0.000069	0.00141	0.00157	0.00122	----	0.05 mg/L	----	----
Silicon, dissolved	7440-21-3	E421/WT	0.050	mg/L	5.46	9.02	6.84	4.72	----	----	----	----
Silver, dissolved	7440-22-4	E421/WT	0.000010	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	----	----	----	----
Sodium, dissolved	7440-23-5	E421/WT	0.050	mg/L	7.11	8.56	26.0	9.63	200 mg/L	20 mg/L	----	----
Strontium, dissolved	7440-24-6	E421/WT	0.00020	mg/L	0.173	0.221	0.336	0.250	----	----	----	----
Sulfur, dissolved	7704-34-9	E421/WT	0.50	mg/L	11.5	8.10	40.3	2.31	----	----	----	----
Tellurium, dissolved	13494-80-9	E421/WT	0.00020	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	----	----	----	----
Thallium, dissolved	7440-28-0	E421/WT	0.000010	mg/L	0.000032	0.000044	0.000138	<0.000010	----	----	----	----
Thorium, dissolved	7440-29-1	E421/WT	0.00010	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	----	----	----	----
Tin, dissolved	7440-31-5	E421/WT	0.00010	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	----	----	----	----
Titanium, dissolved	7440-32-6	E421/WT	0.00030	mg/L	<0.00030	<0.00030	<0.00030	<0.00030	----	----	----	----
Tungsten, dissolved	7440-33-7	E421/WT	0.00010	mg/L	0.00012	0.00070	<0.00010	0.00010	----	----	----	----
Uranium, dissolved	7440-61-1	E421/WT	0.000010	mg/L	0.000564	0.000565	0.00121	0.000445	----	0.02 mg/L	----	----
Vanadium, dissolved	7440-62-2	E421/WT	0.00050	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	----	----	----	----
Zinc, dissolved	7440-66-6	E421/WT	0.0010	mg/L	0.0066	0.0025	0.0055	0.0017	5 mg/L	----	----	----
Zirconium, dissolved	7440-67-7	E421/WT	0.00020	mg/L	<0.00020	0.00020	0.00052	0.00038	----	----	----	----
Dissolved metals filtration location	----	EP421/WT	-	-	Field	Field	Field	Field	----	----	----	----



SubMatrix: (Matrix:)	Water Water	Client sample ID				OW-3D	OW-7S	OW-7D	OW-10S				
		Client sampling date / time				16-Oct-2025 00:00	16-Oct-2025 00:00	16-Oct-2025 00:00	16-Oct-2025 00:00				
Analyte	CAS Number	Method/Lab	LOR	Unit	WT2529612-005	WT2529612-006	WT2529612-007	WT2529612-008	ONDWS AO/QG	ONDWS MAC	----	----	----
Physical Tests													
Conductivity	----	E100/WT	1.0	µS/cm	1790	1170	1330	740	----	----	----	----	----
Hardness (as CaCO3), dissolved	----	EC100/WT	0.50	mg/L	754	685	672	433	80 - 100 mg/L	----	----	----	----
pH	----	E108/WT	0.10	pH units	7.84	7.82	7.33	7.43	6.5 - 8.5 pH units	----	----	----	----
Solids, total dissolved [TDS]	----	E162/WT	10	mg/L	965 DLDS	864 DLDS	803 DLDS	549 DLDS	500 mg/L	----	----	----	----
Turbidity	----	E121/WT	0.10	NTU	216	631	38.4	990	5 NTU	----	----	----	----
Anions and Nutrients													
Ammonia, total (as N)	7664-41-7	E298/WT	0.0050	mg/L	39.6	0.0376	7.77	0.642	----	----	----	----	----
Chloride	16887-00-6	E235.Cl/WT	0.50	mg/L	49.3 DLDS	32.3 DLDS	29.5 DLDS	8.86	250 mg/L	----	----	----	----
Fluoride	16984-48-8	E235.F/WT	0.020	mg/L	<0.100 DLDS	<0.100 DLDS	<0.100 DLDS	0.055	----	1.5 mg/L	----	----	----
Nitrate (as N)	14797-55-8	E235.NO3/WT	0.020	mg/L	<0.100 DLDS	<0.100 DLDS	2.49 DLDS	0.056	----	10 mg/L	----	----	----
Nitrite (as N)	14797-65-0	E235.NO2/WT	0.010	mg/L	<0.050 DLDS	<0.050 DLDS	<0.050 DLDS	0.024	----	1 mg/L	----	----	----
Phosphate, ortho-, dissolved (as P)	14265-44-2	E378-U/WT	0.0010	mg/L	<0.0010	0.0011	<0.0010	<0.0010	----	----	----	----	----
Sulfate (as SO4)	14808-79-8	E235.SO4/WT	0.30	mg/L	33.9 DLDS	110 DLDS	124 DLDS	13.3	500 mg/L	----	----	----	----
Dissolved Metals													
Aluminum, dissolved	7429-90-5	E421/WT	0.0010	mg/L	0.0144	0.0024	0.0012	0.0060	0.1 mg/L	----	----	----	----
Antimony, dissolved	7440-36-0	E421/WT	0.00010	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	----	0.006 mg/L	----	----	----
Arsenic, dissolved	7440-38-2	E421/WT	0.00010	mg/L	0.00649	0.00182	0.00157	0.00058	----	0.01 mg/L	----	----	----
Barium, dissolved	7440-39-3	E421/WT	0.00010	mg/L	0.428	0.0962	0.129	0.0468	----	1 mg/L	----	----	----
Beryllium, dissolved	7440-41-7	E421/WT	0.000020	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	----	----	----	----	----
Bismuth, dissolved	7440-69-9	E421/WT	0.000050	mg/L	<0.000050	<0.000050	<0.000050	<0.000050	----	----	----	----	----
Boron, dissolved	7440-42-8	E421/WT	0.010	mg/L	0.952	0.272	0.602	0.126	----	5 mg/L	----	----	----
Cadmium, dissolved	7440-43-9	E421/WT	0.0000050	mg/L	0.0000054	0.0000288	0.0000087	<0.0000050	----	0.005 mg/L	----	----	----
Calcium, dissolved	7440-70-2	E421/WT	0.050	mg/L	201	188	153	107	----	----	----	----	----
Cesium, dissolved	7440-46-2	E421/WT	0.000010	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	----	----	----	----	----
Chromium, dissolved	7440-47-3	E421/WT	0.00050	mg/L	0.00113	<0.00050	<0.00050	<0.00050	----	0.05 mg/L	----	----	----
Cobalt, dissolved	7440-48-4	E421/WT	0.00010	mg/L	0.00090	0.00030	0.00169	0.00073	----	----	----	----	----
Copper, dissolved	7440-50-8	E421/WT	0.00020	mg/L	<0.00020	0.00220	0.00036	0.00032	1 mg/L	----	----	----	----
Iron, dissolved	7439-89-6	E421/WT	0.010	mg/L	17.8	0.604	1.41	0.325	0.3 mg/L	----	----	----	----
Lead, dissolved	7439-92-1	E421/WT	0.000050	mg/L	0.000198	0.000060	0.00118	0.000775	----	0.01 mg/L	----	----	----
Lithium, dissolved	7439-93-2	E421/WT	0.0010	mg/L	0.0024	0.0028	0.0040	0.0022	----	----	----	----	----
Magnesium, dissolved	7439-95-4	E421/WT	0.0050	mg/L	61.1	52.4	70.5	40.2	----	----	----	----	----
Manganese, dissolved	7439-96-5	E421/WT	0.00010	mg/L	0.581	0.0946	0.131	0.273	0.05 mg/L	----	----	----	----



SubMatrix: (Matrix: Water)	CAS Number	Method/Lab	LOR	Unit	Client sample ID	OW-3D	OW-7S	OW-7D	OW-10S	ONDWS AO/OG	ONDWS MAC	----	----
					Client sampling date / time	16-Oct-2025 00:00	16-Oct-2025 00:00	16-Oct-2025 00:00	16-Oct-2025 00:00				
Analyte						WT2529612-005	WT2529612-006	WT2529612-007	WT2529612-008				
Dissolved Metals													
Molybdenum, dissolved	7439-98-7	E421/WT	0.000050	mg/L		0.000151	0.000753	0.000459	0.000516	----	----	----	----
Nickel, dissolved	7440-02-0	E421/WT	0.00050	mg/L		0.00329	0.00230	0.00663	0.00350	----	----	----	----
Phosphorus, dissolved	7723-14-0	E421/WT	0.050	mg/L		<0.050	<0.050	<0.050	<0.050	----	----	----	----
Potassium, dissolved	7440-09-7	E421/WT	0.050	mg/L		27.4	2.70	22.8	2.05	----	----	----	----
Rubidium, dissolved	7440-17-7	E421/WT	0.00020	mg/L		0.00677	0.00061	0.00681	0.00188	----	----	----	----
Selenium, dissolved	7782-49-2	E421/WT	0.000050	mg/L		0.00391	0.000278	0.000211	0.000262	----	0.05 mg/L	----	----
Silicon, dissolved	7440-21-3	E421/WT	0.050	mg/L		7.41	6.20	6.25	4.04	----	----	----	----
Silver, dissolved	7440-22-4	E421/WT	0.000010	mg/L		<0.000010	<0.000010	<0.000010	<0.000010	----	----	----	----
Sodium, dissolved	7440-23-5	E421/WT	0.050	mg/L		49.9	19.0	25.8	9.97	200 mg/L	20 mg/L	----	----
Strontium, dissolved	7440-24-6	E421/WT	0.00020	mg/L		0.676	0.282	0.426	0.144	----	----	----	----
Sulfur, dissolved	7704-34-9	E421/WT	0.50	mg/L		13.7	38.9	44.2	5.73	----	----	----	----
Tellurium, dissolved	13494-80-9	E421/WT	0.00020	mg/L		<0.00020	<0.00020	<0.00020	<0.00020	----	----	----	----
Thallium, dissolved	7440-28-0	E421/WT	0.000010	mg/L		0.000014	<0.000010	0.000404	0.000095	----	----	----	----
Thorium, dissolved	7440-29-1	E421/WT	0.00010	mg/L		<0.00010	<0.00010	<0.00010	<0.00010	----	----	----	----
Tin, dissolved	7440-31-5	E421/WT	0.00010	mg/L		<0.00010	<0.00010	<0.00010	<0.00010	----	----	----	----
Titanium, dissolved	7440-32-6	E421/WT	0.00030	mg/L		<0.00050 DLUI	<0.00030	<0.00030	<0.00030	----	----	----	----
Tungsten, dissolved	7440-33-7	E421/WT	0.00010	mg/L		<0.00010	<0.00010	<0.00010	<0.00010	----	----	----	----
Uranium, dissolved	7440-61-1	E421/WT	0.000010	mg/L		0.000277	0.00296	0.000929	0.000717	----	0.02 mg/L	----	----
Vanadium, dissolved	7440-62-2	E421/WT	0.00050	mg/L		0.00110	<0.00050	<0.00050	<0.00050	----	----	----	----
Zinc, dissolved	7440-66-6	E421/WT	0.0010	mg/L		0.0023	0.0276	0.0439	0.0054	5 mg/L	----	----	----
Zirconium, dissolved	7440-67-7	E421/WT	0.00020	mg/L		0.00225	0.00066	0.00035	<0.00020	----	----	----	----
Dissolved metals filtration location	----	EP421/WT	-	-		Field	Field	Field	Field	----	----	----	----

Please refer to the General Comments section for an explanation of any result qualifiers detected.

SubMatrix: (Matrix: Water)	CAS Number	Method/Lab	LOR	Unit	Client sample ID	OW-10D	OW-12D	OW-13S	OW-13D	ONDWS AO/OG	ONDWS MAC	----	----
					Client sampling date / time	16-Oct-2025 00:00	16-Oct-2025 00:00	16-Oct-2025 00:00	16-Oct-2025 00:00				
Analyte						WT2529612-009	WT2529612-010	WT2529612-011	WT2529612-012				
Physical Tests													
Alkalinity, total (as CaCO3)	----	E290/WT	1.0	mg/L		640	470	406	616	30 - 500 mg/L	----	----	----
Colour, apparent	----	E330/WT	2.0	CU		246	63.4	9790	606	5 CU	----	----	----
Conductivity	----	E100/WT	1.0	µS/cm		1230	915	643	1200	----	----	----	----
Hardness (as CaCO3), dissolved	----	EC100/WT	0.50	mg/L		622	468	416	600	80 - 100 mg/L	----	----	----
pH	----	E108/WT	0.10	pH units		7.22	7.34	7.68	7.24	6.5 - 8.5 pH units	----	----	----



SubMatrix: (Matrix: Water Water)	CAS Number	Method/Lab	LOR	Unit	Client sample ID	OW-10D	OW-12D	OW-13S	OW-13D	ONDWS AOIQG	ONDWS MAC	----	----
					Client sampling date / time	16-Oct-2025 00:00	16-Oct-2025 00:00	16-Oct-2025 00:00	16-Oct-2025 00:00				
Analyte	CAS Number	Method/Lab	LOR	Unit	WT2529612-009	WT2529612-010	WT2529612-011	WT2529612-012	WT2529612-012	ONDWS AOIQG	ONDWS MAC	----	----
Physical Tests													
Solids, total dissolved [TDS]	----	E162/WT	10	mg/L	674 DLDS	542 DLDS	556 DLDS	706 DLDS	500 mg/L	----	----	----	----
Turbidity	----	E121/WT	0.10	NTU	66.2	12.3	>4000 TMV	147	5 NTU	----	----	----	----
Anions and Nutrients													
Ammonia, total (as N)	7664-41-7	E298/WT	0.0050	mg/L	11.5	0.977	0.0148	8.71	----	----	----	----	----
Chloride	16887-00-6	E235.Cl/WT	0.50	mg/L	29.0 DLDS	19.2	1.17	21.3 DLDS	250 mg/L	----	----	----	----
Fluoride	16984-48-8	E235.F/WT	0.020	mg/L	<0.100 DLDS	0.046	0.044	<0.100 DLDS	----	1.5 mg/L	----	----	----
Nitrate (as N)	14797-55-8	E235.NO3/WT	0.020	mg/L	<0.100 DLDS	0.066	<0.020	0.217 DLDS	----	10 mg/L	----	----	----
Nitrite (as N)	14797-65-0	E235.NO2/WT	0.010	mg/L	<0.050 DLDS	<0.010	<0.010	<0.050 DLDS	----	1 mg/L	----	----	----
Phosphate, ortho-, dissolved (as P)	14265-44-2	E378-U/WT	0.0010	mg/L	<0.0010	0.0014	0.0023	<0.0010	----	----	----	----	----
Sulfate (as SO4)	14808-79-8	E235.SO4/WT	0.30	mg/L	39.3 DLDS	32.3	20.1	63.1 DLDS	500 mg/L	----	----	----	----
Dissolved Metals													
Aluminum, dissolved	7429-90-5	E421/WT	0.0010	mg/L	0.0021	0.0014	0.0043	0.0065	0.1 mg/L	----	----	----	----
Antimony, dissolved	7440-36-0	E421/WT	0.00010	mg/L	<0.00010	0.00010	<0.00010	<0.00010	----	0.006 mg/L	----	----	----
Arsenic, dissolved	7440-38-2	E421/WT	0.00010	mg/L	0.00464	0.00048	0.00062	0.00228	----	0.01 mg/L	----	----	----
Barium, dissolved	7440-39-3	E421/WT	0.00010	mg/L	0.228	0.0448	0.0316	0.112	----	1 mg/L	----	----	----
Beryllium, dissolved	7440-41-7	E421/WT	0.000020	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	----	----	----	----	----
Bismuth, dissolved	7440-69-9	E421/WT	0.000050	mg/L	<0.000050	<0.000050	<0.000050	<0.000050	----	----	----	----	----
Boron, dissolved	7440-42-8	E421/WT	0.010	mg/L	0.510	0.269	0.057	0.320	----	5 mg/L	----	----	----
Cadmium, dissolved	7440-43-9	E421/WT	0.0000050	mg/L	0.0000052	0.000270	0.0000111	<0.0000050	----	0.005 mg/L	----	----	----
Calcium, dissolved	7440-70-2	E421/WT	0.050	mg/L	146	121	111	162	----	----	----	----	----
Cesium, dissolved	7440-46-2	E421/WT	0.000010	mg/L	0.000013	0.000013	<0.000010	0.000013	----	----	----	----	----
Chromium, dissolved	7440-47-3	E421/WT	0.00050	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	----	0.05 mg/L	----	----	----
Cobalt, dissolved	7440-48-4	E421/WT	0.00010	mg/L	0.00644	0.00037	0.00013	0.00056	----	----	----	----	----
Copper, dissolved	7440-50-8	E421/WT	0.00020	mg/L	0.00055	0.00099	0.00061	0.00042	1 mg/L	----	----	----	----
Iron, dissolved	7439-89-6	E421/WT	0.010	mg/L	4.10	0.020	0.543	3.83	0.3 mg/L	----	----	----	----
Lead, dissolved	7439-92-1	E421/WT	0.000050	mg/L	0.000571	0.000359	0.000116	0.000565	----	0.01 mg/L	----	----	----
Lithium, dissolved	7439-93-2	E421/WT	0.0010	mg/L	0.0042	0.0022	0.0012	0.0017	----	----	----	----	----
Magnesium, dissolved	7439-95-4	E421/WT	0.0050	mg/L	62.5	40.3	33.6	47.4	----	----	----	----	----
Manganese, dissolved	7439-96-5	E421/WT	0.00010	mg/L	1.08	0.568	0.0668	0.266	0.05 mg/L	----	----	----	----
Molybdenum, dissolved	7439-98-7	E421/WT	0.000050	mg/L	0.000613	0.00145	0.000252	0.000675	----	----	----	----	----
Nickel, dissolved	7440-02-0	E421/WT	0.00050	mg/L	0.0178	0.00692	0.00087	0.00428	----	----	----	----	----
Phosphorus, dissolved	7723-14-0	E421/WT	0.050	mg/L	<0.050	<0.050	<0.050	<0.050	----	----	----	----	----



SubMatrix: (Matrix:)	CAS Number	Method/Lab	LOR	Unit	Client sample ID	OW-10D	OW-12D	OW-13S	OW-13D	ONDWS AOIOG	ONDWS MAC	----	----
					Client sampling date / time	16-Oct-2025 00:00	16-Oct-2025 00:00	16-Oct-2025 00:00	16-Oct-2025 00:00				
Analyte	CAS Number	Method/Lab	LOR	Unit	WT2529612-009	WT2529612-010	WT2529612-011	WT2529612-012	WT2529612-012	ONDWS AOIOG	ONDWS MAC	----	----
Dissolved Metals													
Potassium, dissolved	7440-09-7	E421/WT	0.050	mg/L	10.5	1.88	1.43	7.44	----	----	----	----	----
Rubidium, dissolved	7440-17-7	E421/WT	0.00020	mg/L	0.00375	0.00210	0.00080	0.00295	----	----	----	----	----
Selenium, dissolved	7782-49-2	E421/WT	0.000050	mg/L	0.000395	0.000216	0.000719	0.00120	----	0.05 mg/L	----	----	----
Silicon, dissolved	7440-21-3	E421/WT	0.050	mg/L	7.00	4.37	4.01	5.20	----	----	----	----	----
Silver, dissolved	7440-22-4	E421/WT	0.000010	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	----	----	----	----	----
Sodium, dissolved	7440-23-5	E421/WT	0.050	mg/L	31.7	14.5	5.46	19.8	200 mg/L	20 mg/L	----	----	----
Strontium, dissolved	7440-24-6	E421/WT	0.00020	mg/L	0.331	0.159	0.146	0.358	----	----	----	----	----
Sulfur, dissolved	7704-34-9	E421/WT	0.50	mg/L	14.6	11.1	9.71	22.4	----	----	----	----	----
Tellurium, dissolved	13494-80-9	E421/WT	0.00020	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	----	----	----	----	----
Thallium, dissolved	7440-28-0	E421/WT	0.000010	mg/L	0.000460	0.000275	<0.000010	0.000024	----	----	----	----	----
Thorium, dissolved	7440-29-1	E421/WT	0.00010	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	----	----	----	----	----
Tin, dissolved	7440-31-5	E421/WT	0.00010	mg/L	<0.00010	0.00019	<0.00010	<0.00010	----	----	----	----	----
Titanium, dissolved	7440-32-6	E421/WT	0.00030	mg/L	<0.00030	<0.00030	<0.00030	0.00032	----	----	----	----	----
Tungsten, dissolved	7440-33-7	E421/WT	0.00010	mg/L	<0.00010	0.00041	<0.00010	<0.00010	----	----	----	----	----
Uranium, dissolved	7440-61-1	E421/WT	0.000010	mg/L	0.000966	0.0120	0.000723	0.000723	----	0.02 mg/L	----	----	----
Vanadium, dissolved	7440-62-2	E421/WT	0.00050	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	----	----	----	----	----
Zinc, dissolved	7440-66-6	E421/WT	0.0010	mg/L	0.0465	0.0734	0.0076	0.114	5 mg/L	----	----	----	----
Zirconium, dissolved	7440-67-7	E421/WT	0.00020	mg/L	0.00041	<0.00020	<0.00020	0.00062	----	----	----	----	----
Dissolved metals filtration location	----	EP421/WT	-	-	Field	Field	Field	Field	----	----	----	----	----

Please refer to the General Comments section for an explanation of any result qualifiers detected.

SubMatrix: (Matrix:)	CAS Number	Method/Lab	LOR	Unit	Client sample ID	OW-16S	OW-16D	OW-20S	OW-20D	ONDWS AOIOG	ONDWS MAC	----	----
					Client sampling date / time	16-Oct-2025 00:00	16-Oct-2025 00:00	16-Oct-2025 00:00	16-Oct-2025 00:00				
Analyte	CAS Number	Method/Lab	LOR	Unit	WT2529612-013	WT2529612-014	WT2529612-015	WT2529612-016	WT2529612-016	ONDWS AOIOG	ONDWS MAC	----	----
Physical Tests													
Alkalinity, total (as CaCO3)	----	E290/WT	1.0	mg/L	396	678	435	584	30 - 500 mg/L	----	----	----	----
Colour, apparent	----	E330/WT	2.0	CU	1060	542	9100	245	5 CU	----	----	----	----
Conductivity	----	E100/WT	1.0	µS/cm	690	1390	697	1340	----	----	----	----	----
Hardness (as CaCO3), dissolved	----	EC100/WT	0.50	mg/L	413	705	392	691	80 - 100 mg/L	----	----	----	----
pH	----	E108/WT	0.10	pH units	7.70	7.39	7.86	7.58	6.5 - 8.5 pH units	----	----	----	----
Solids, total dissolved [TDS]	----	E162/WT	10	mg/L	436 DLDS	795 DLDS	540 DLDS	832 DLDS	500 mg/L	----	----	----	----
Turbidity	----	E121/WT	0.10	NTU	296	102	>4000 TMV	44.5	5 NTU	----	----	----	----



SubMatrix: (Matrix: Water)	CAS Number	Method/Lab	LOR	Unit	Client sample ID	OW-16S	OW-16D	OW-20S	OW-20D	ONDWS AO/QG	ONDWS MAC	----	----
					Client sampling date / time	16-Oct-2025 00:00	16-Oct-2025 00:00	16-Oct-2025 00:00	16-Oct-2025 00:00				
Analyte	CAS Number	Method/Lab	LOR	Unit	WT2529612-013	WT2529612-014	WT2529612-015	WT2529612-016	WT2529612-016	ONDWS AO/QG	ONDWS MAC	----	----
Anions and Nutrients													
Ammonia, total (as N)	7664-41-7	E298/WT	0.0050	mg/L	0.0142	14.7	0.161	8.75	8.75	----	----	----	----
Chloride	16887-00-6	E235.CI/WT	0.50	mg/L	11.2	19.4 DLDS	8.93	27.0 DLDS	27.0 DLDS	250 mg/L	----	----	----
Fluoride	16984-48-8	E235.F/WT	0.020	mg/L	0.046	<0.100 DLDS	0.201	<0.100 DLDS	<0.100 DLDS	----	1.5 mg/L	----	----
Nitrate (as N)	14797-55-8	E235.NO3/WT	0.020	mg/L	0.227	<0.100 DLDS	0.040	<0.100 DLDS	<0.100 DLDS	----	10 mg/L	----	----
Nitrite (as N)	14797-65-0	E235.NO2/WT	0.010	mg/L	<0.010	<0.050 DLDS	0.031	0.093 DLDS	0.093 DLDS	----	1 mg/L	----	----
Phosphate, ortho-, dissolved (as P)	14265-44-2	E378-U/WT	0.0010	mg/L	0.0173	0.0013	0.0015	<0.0010	<0.0010	----	----	----	----
Sulfate (as SO4)	14808-79-8	E235.SO4/WT	0.30	mg/L	6.06	97.4 DLDS	35.2	167 DLDS	167 DLDS	500 mg/L	----	----	----
Dissolved Metals													
Aluminum, dissolved	7429-90-5	E421/WT	0.0010	mg/L	0.0027	0.0018	0.0959	0.0019	0.0019	0.1 mg/L	----	----	----
Antimony, dissolved	7440-36-0	E421/WT	0.00010	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	----	0.006 mg/L	----	----
Arsenic, dissolved	7440-38-2	E421/WT	0.00010	mg/L	0.00044	0.00348	0.00403	0.00374	0.00374	----	0.01 mg/L	----	----
Barium, dissolved	7440-39-3	E421/WT	0.00010	mg/L	0.0357	0.188	0.0496	0.136	0.136	----	1 mg/L	----	----
Beryllium, dissolved	7440-41-7	E421/WT	0.000020	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	----	----	----	----
Bismuth, dissolved	7440-69-9	E421/WT	0.000050	mg/L	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	----	----	----	----
Boron, dissolved	7440-42-8	E421/WT	0.010	mg/L	0.050	0.714	0.157	0.572	0.572	----	5 mg/L	----	----
Cadmium, dissolved	7440-43-9	E421/WT	0.0000050	mg/L	<0.0000050	0.0000118	0.0000058	<0.0000050	<0.0000050	----	0.005 mg/L	----	----
Calcium, dissolved	7440-70-2	E421/WT	0.050	mg/L	111	161	83.2	156	156	----	----	----	----
Cesium, dissolved	7440-46-2	E421/WT	0.000010	mg/L	<0.000010	0.000014	<0.000010	0.000011	0.000011	----	----	----	----
Chromium, dissolved	7440-47-3	E421/WT	0.00050	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	----	0.05 mg/L	----	----
Cobalt, dissolved	7440-48-4	E421/WT	0.00010	mg/L	0.00018	0.00202	0.00058	0.00304	0.00304	----	----	----	----
Copper, dissolved	7440-50-8	E421/WT	0.00020	mg/L	0.00076	0.00056	0.00032	0.00043	0.00043	1 mg/L	----	----	----
Iron, dissolved	7439-89-6	E421/WT	0.010	mg/L	0.217	4.80	1.44	3.28	3.28	0.3 mg/L	----	----	----
Lead, dissolved	7439-92-1	E421/WT	0.000050	mg/L	0.000192	0.00316	0.000378	0.000493	0.000493	----	0.01 mg/L	----	----
Lithium, dissolved	7439-93-2	E421/WT	0.0010	mg/L	0.0028	0.0050	0.0082	0.0044	0.0044	----	----	----	----
Magnesium, dissolved	7439-95-4	E421/WT	0.0050	mg/L	33.1	73.5	44.7	73.3	73.3	----	----	----	----
Manganese, dissolved	7439-96-5	E421/WT	0.00010	mg/L	0.0277	0.432	0.148	0.566	0.566	0.05 mg/L	----	----	----
Molybdenum, dissolved	7439-98-7	E421/WT	0.000050	mg/L	0.000547	0.000323	0.00220	0.000385	0.000385	----	----	----	----
Nickel, dissolved	7440-02-0	E421/WT	0.00050	mg/L	0.00082	0.00468	0.00155	0.00745	0.00745	----	----	----	----
Phosphorus, dissolved	7723-14-0	E421/WT	0.050	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	----	----	----	----
Potassium, dissolved	7440-09-7	E421/WT	0.050	mg/L	2.34	24.8	3.86	21.0	21.0	----	----	----	----
Rubidium, dissolved	7440-17-7	E421/WT	0.00020	mg/L	0.00109	0.00920	0.00159	0.00646	0.00646	----	----	----	----
Selenium, dissolved	7782-49-2	E421/WT	0.000050	mg/L	0.000136	0.000158	0.000124	0.000124	0.000124	----	0.05 mg/L	----	----



					Client sample ID	OW-16S	OW-16D	OW-20S	OW-20D			
					Client sampling date / time	16-Oct-2025 00:00	16-Oct-2025 00:00	16-Oct-2025 00:00	16-Oct-2025 00:00			
Analyte	CAS Number	Method/Lab	LOR	Unit		WT2529612-013	WT2529612-014	WT2529612-015	WT2529612-016	ONDWS AO/QG	ONDWS MAC	----
Dissolved Metals												
Silicon, dissolved	7440-21-3	E421/WT	0.050	mg/L		6.60	6.36	7.80	5.94	----	----	----
Silver, dissolved	7440-22-4	E421/WT	0.000010	mg/L		<0.000010	<0.000010	<0.000010	<0.000010	----	----	----
Sodium, dissolved	7440-23-5	E421/WT	0.050	mg/L		3.90	21.6	27.8	25.4	200 mg/L	20 mg/L	----
Strontium, dissolved	7440-24-6	E421/WT	0.00020	mg/L		0.169	0.501	0.238	0.421	----	----	----
Sulfur, dissolved	7704-34-9	E421/WT	0.50	mg/L		4.12	34.6	18.7	57.3	----	----	----
Tellurium, dissolved	13494-80-9	E421/WT	0.00020	mg/L		<0.00020	<0.00020	<0.00020	<0.00020	----	----	----
Thallium, dissolved	7440-28-0	E421/WT	0.000010	mg/L		0.000018	0.000178	0.000068	0.000447	----	----	----
Thorium, dissolved	7440-29-1	E421/WT	0.00010	mg/L		<0.00010	<0.00010	<0.00010	<0.00010	----	----	----
Tin, dissolved	7440-31-5	E421/WT	0.00010	mg/L		<0.00010	0.00023	<0.00010	<0.00010	----	----	----
Titanium, dissolved	7440-32-6	E421/WT	0.00030	mg/L		<0.00030	<0.00030	0.00335	<0.00030	----	----	----
Tungsten, dissolved	7440-33-7	E421/WT	0.00010	mg/L		<0.00010	<0.00010	0.00017	<0.00010	----	----	----
Uranium, dissolved	7440-61-1	E421/WT	0.000010	mg/L		0.000856	0.000419	0.00117	0.000780	----	0.02 mg/L	----
Vanadium, dissolved	7440-62-2	E421/WT	0.00050	mg/L		<0.00050	<0.00050	<0.00050	<0.00050	----	----	----
Zinc, dissolved	7440-66-6	E421/WT	0.0010	mg/L		0.0019	0.0112	0.0050	0.0174	5 mg/L	----	----
Zirconium, dissolved	7440-67-7	E421/WT	0.00020	mg/L		<0.00020	0.00083	0.00025	0.00051	----	----	----
Dissolved metals filtration location	----	EP421/WT	-	-		Field	Field	Field	Field	----	----	----

Please refer to the General Comments section for an explanation of any result qualifiers detected.

QUALITY CONTROL INTERPRETIVE REPORT

Work Order	: WT2529612	Page	: 1 of 32
Client	: Bluewater Geoscience Consultants Inc.	Laboratory	: ALS Environmental - Waterloo
Contact	: Breton Lemieux	Account Manager	: Gayle Braun
Address	: 42 Shadyridge Place Kitchener ON Canada N2N 3J1	Address	: 60 Northland Road, Unit 1 Waterloo, Ontario Canada N2V 2B8
Telephone	: 519 744 4123	Telephone	: +1 519 886 6910
Project	: BG-924	Date Samples Received	: 16-Oct-2025 14:00
PO	: ----	Issue Date	: 24-Oct-2025 17:17
C-O-C number	: ----		
Sampler	: ----		
Site	: ----		
Quote number	: SOA		
No. of samples received	: 16		
No. of samples analysed	: 16		

This report is automatically generated by the ALS LIMS (Laboratory Information Management System) through evaluation of Quality Control (QC) results and other QA parameters associated with this submission, and is intended to facilitate rapid data validation by auditors or reviewers. The report highlights any exceptions and outliers to ALS Data Quality Objectives, provides holding time details and exceptions, summarizes QC sample frequencies, and lists applicable methodology references and summaries.

Key

Anonymous: Refers to samples which are not part of this work order, but which formed part of the QC process lot.

CAS Number: Chemical Abstracts Service number is a unique identifier assigned to discrete substances.

DQO: Data Quality Objective.

LOR: Limit of Reporting (detection limit).

RPD: Relative Percent Difference.

Workorder Comments

Holding times are displayed as "----" if no guidance exists from CCME, Canadian provinces, or broadly recognized international references.

Summary of Outliers

Outliers : Quality Control Samples

- No Method Blank value outliers occur.
- No Duplicate outliers occur.
- No Laboratory Control Sample (LCS) outliers occur
- No Matrix Spike outliers occur.
- No Test sample Surrogate recovery outliers exist.

Outliers: Reference Material (RM) Samples

- No Reference Material (RM) Sample outliers occur.

Outliers : Analysis Holding Time Compliance (Breaches)

- Analysis Holding Time Outliers exist - please see following pages for full details.

Outliers : Frequency of Quality Control Samples

- No Quality Control Sample Frequency Outliers occur.



Analysis Holding Time Compliance

This report summarizes extraction / preparation and analysis times and compares each with ALS recommended holding times, which are selected to meet known provincial and /or federal requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by organizations such as CCME, US EPA, APHA Standard Methods, ASTM, or Environment Canada (where available). Dates and holding times reported below represent the first dates of extraction or analysis. If subsequent tests or dilutions exceeded holding times, qualifiers are added (refer to COA).

If samples are identified below as having been analyzed or extracted outside of recommended holding times, measurement uncertainties may be increased, and this should be taken into consideration when interpreting results.

Where actual sampling date is not provided on the chain of custody, the date of receipt with time at 00:00 is used for calculation purposes.

Where only the sample date without time is provided on the chain of custody, the sampling date at 00:00 is used for calculation purposes.

Matrix: **Water**

Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Anions and Nutrients : Ammonia by Fluorescence										
Amber glass total (sulfuric acid) OW-1	E298	16-Oct-2025	21-Oct-2025	28 days	6 days	✓	22-Oct-2025	28 days	6 days	✓
Anions and Nutrients : Ammonia by Fluorescence										
Amber glass total (sulfuric acid) OW-10D	E298	16-Oct-2025	21-Oct-2025	28 days	6 days	✓	22-Oct-2025	28 days	6 days	✓
Anions and Nutrients : Ammonia by Fluorescence										
Amber glass total (sulfuric acid) OW-10S	E298	16-Oct-2025	21-Oct-2025	28 days	6 days	✓	22-Oct-2025	28 days	6 days	✓
Anions and Nutrients : Ammonia by Fluorescence										
Amber glass total (sulfuric acid) OW-12D	E298	16-Oct-2025	21-Oct-2025	28 days	6 days	✓	22-Oct-2025	28 days	6 days	✓
Anions and Nutrients : Ammonia by Fluorescence										
Amber glass total (sulfuric acid) OW-13D	E298	16-Oct-2025	21-Oct-2025	28 days	6 days	✓	22-Oct-2025	28 days	6 days	✓
Anions and Nutrients : Ammonia by Fluorescence										
Amber glass total (sulfuric acid) OW-13S	E298	16-Oct-2025	21-Oct-2025	28 days	6 days	✓	22-Oct-2025	28 days	6 days	✓
Anions and Nutrients : Ammonia by Fluorescence										
Amber glass total (sulfuric acid) OW-16D	E298	16-Oct-2025	21-Oct-2025	28 days	6 days	✓	22-Oct-2025	28 days	6 days	✓



Matrix: **Water** Evaluation: **x** = Holding time exceedance ; **✓** = Within Holding Time

Analyte Group : Analytical Method	Method	Sampling Date	Extraction / Preparation				Analysis			
Container / Client Sample ID(s)			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Anions and Nutrients : Ammonia by Fluorescence										
Amber glass total (sulfuric acid) OW-16S	E298	16-Oct-2025	21-Oct-2025	28 days	6 days	✓	22-Oct-2025	28 days	6 days	✓
Anions and Nutrients : Ammonia by Fluorescence										
Amber glass total (sulfuric acid) OW-20D	E298	16-Oct-2025	21-Oct-2025	28 days	6 days	✓	22-Oct-2025	28 days	6 days	✓
Anions and Nutrients : Ammonia by Fluorescence										
Amber glass total (sulfuric acid) OW-20S	E298	16-Oct-2025	21-Oct-2025	28 days	6 days	✓	22-Oct-2025	28 days	6 days	✓
Anions and Nutrients : Ammonia by Fluorescence										
Amber glass total (sulfuric acid) OW-2D	E298	16-Oct-2025	21-Oct-2025	28 days	6 days	✓	22-Oct-2025	28 days	6 days	✓
Anions and Nutrients : Ammonia by Fluorescence										
Amber glass total (sulfuric acid) OW-2S	E298	16-Oct-2025	21-Oct-2025	28 days	6 days	✓	22-Oct-2025	28 days	6 days	✓
Anions and Nutrients : Ammonia by Fluorescence										
Amber glass total (sulfuric acid) OW-3D	E298	16-Oct-2025	21-Oct-2025	28 days	6 days	✓	22-Oct-2025	28 days	6 days	✓
Anions and Nutrients : Ammonia by Fluorescence										
Amber glass total (sulfuric acid) OW-3S	E298	16-Oct-2025	21-Oct-2025	28 days	6 days	✓	22-Oct-2025	28 days	6 days	✓
Anions and Nutrients : Ammonia by Fluorescence										
Amber glass total (sulfuric acid) OW-7D	E298	16-Oct-2025	21-Oct-2025	28 days	6 days	✓	22-Oct-2025	28 days	6 days	✓
Anions and Nutrients : Ammonia by Fluorescence										
Amber glass total (sulfuric acid) OW-7S	E298	16-Oct-2025	21-Oct-2025	28 days	6 days	✓	22-Oct-2025	28 days	6 days	✓



Matrix: **Water** Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Anions and Nutrients : Chloride in Water by IC										
HDPE [ON MECP] OW-1	E235.Cl	16-Oct-2025	19-Oct-2025	28 days	4 days	✓	21-Oct-2025	28 days	4 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE [ON MECP] OW-10D	E235.Cl	16-Oct-2025	19-Oct-2025	28 days	4 days	✓	22-Oct-2025	28 days	4 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE [ON MECP] OW-10S	E235.Cl	16-Oct-2025	19-Oct-2025	28 days	4 days	✓	22-Oct-2025	28 days	4 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE [ON MECP] OW-12D	E235.Cl	16-Oct-2025	19-Oct-2025	28 days	4 days	✓	22-Oct-2025	28 days	4 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE [ON MECP] OW-13D	E235.Cl	16-Oct-2025	19-Oct-2025	28 days	4 days	✓	22-Oct-2025	28 days	4 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE [ON MECP] OW-13S	E235.Cl	16-Oct-2025	19-Oct-2025	28 days	4 days	✓	22-Oct-2025	28 days	4 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE [ON MECP] OW-16D	E235.Cl	16-Oct-2025	19-Oct-2025	28 days	4 days	✓	22-Oct-2025	28 days	4 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE [ON MECP] OW-16S	E235.Cl	16-Oct-2025	19-Oct-2025	28 days	4 days	✓	22-Oct-2025	28 days	4 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE [ON MECP] OW-20D	E235.Cl	16-Oct-2025	19-Oct-2025	28 days	4 days	✓	22-Oct-2025	28 days	4 days	✓



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Analyte Group : Analytical Method Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Anions and Nutrients : Chloride in Water by IC										
HDPE [ON MECP] OW-20S	E235.Cl	16-Oct-2025	19-Oct-2025	28 days	4 days	✓	22-Oct-2025	28 days	4 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE [ON MECP] OW-2D	E235.Cl	16-Oct-2025	19-Oct-2025	28 days	4 days	✓	21-Oct-2025	28 days	4 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE [ON MECP] OW-2S	E235.Cl	16-Oct-2025	19-Oct-2025	28 days	4 days	✓	21-Oct-2025	28 days	4 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE [ON MECP] OW-3D	E235.Cl	16-Oct-2025	19-Oct-2025	28 days	4 days	✓	21-Oct-2025	28 days	4 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE [ON MECP] OW-3S	E235.Cl	16-Oct-2025	19-Oct-2025	28 days	4 days	✓	21-Oct-2025	28 days	4 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE [ON MECP] OW-7D	E235.Cl	16-Oct-2025	19-Oct-2025	28 days	4 days	✓	22-Oct-2025	28 days	4 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE [ON MECP] OW-7S	E235.Cl	16-Oct-2025	19-Oct-2025	28 days	4 days	✓	21-Oct-2025	28 days	4 days	✓
Anions and Nutrients : Dissolved Orthophosphate by Colourimetry (Ultra Trace Level 0.001 mg/L)										
HDPE [ON MECP] OW-1	E378-U	16-Oct-2025	19-Oct-2025	7 days	4 days	✓	21-Oct-2025	7 days	4 days	✓
Anions and Nutrients : Dissolved Orthophosphate by Colourimetry (Ultra Trace Level 0.001 mg/L)										
HDPE [ON MECP] OW-10D	E378-U	16-Oct-2025	19-Oct-2025	7 days	4 days	✓	21-Oct-2025	7 days	4 days	✓



Matrix: **Water** Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Anions and Nutrients : Dissolved Orthophosphate by Colourimetry (Ultra Trace Level 0.001 mg/L)										
HDPE [ON MECP] OW-10S	E378-U	16-Oct-2025	19-Oct-2025	7 days	4 days	✓	21-Oct-2025	7 days	4 days	✓
Anions and Nutrients : Dissolved Orthophosphate by Colourimetry (Ultra Trace Level 0.001 mg/L)										
HDPE [ON MECP] OW-12D	E378-U	16-Oct-2025	19-Oct-2025	7 days	4 days	✓	21-Oct-2025	7 days	4 days	✓
Anions and Nutrients : Dissolved Orthophosphate by Colourimetry (Ultra Trace Level 0.001 mg/L)										
HDPE [ON MECP] OW-13D	E378-U	16-Oct-2025	19-Oct-2025	7 days	4 days	✓	21-Oct-2025	7 days	4 days	✓
Anions and Nutrients : Dissolved Orthophosphate by Colourimetry (Ultra Trace Level 0.001 mg/L)										
HDPE [ON MECP] OW-13S	E378-U	16-Oct-2025	19-Oct-2025	7 days	4 days	✓	21-Oct-2025	7 days	4 days	✓
Anions and Nutrients : Dissolved Orthophosphate by Colourimetry (Ultra Trace Level 0.001 mg/L)										
HDPE [ON MECP] OW-16D	E378-U	16-Oct-2025	19-Oct-2025	7 days	4 days	✓	21-Oct-2025	7 days	4 days	✓
Anions and Nutrients : Dissolved Orthophosphate by Colourimetry (Ultra Trace Level 0.001 mg/L)										
HDPE [ON MECP] OW-16S	E378-U	16-Oct-2025	19-Oct-2025	7 days	4 days	✓	21-Oct-2025	7 days	4 days	✓
Anions and Nutrients : Dissolved Orthophosphate by Colourimetry (Ultra Trace Level 0.001 mg/L)										
HDPE [ON MECP] OW-20D	E378-U	16-Oct-2025	19-Oct-2025	7 days	4 days	✓	21-Oct-2025	7 days	4 days	✓
Anions and Nutrients : Dissolved Orthophosphate by Colourimetry (Ultra Trace Level 0.001 mg/L)										
HDPE [ON MECP] OW-20S	E378-U	16-Oct-2025	19-Oct-2025	7 days	4 days	✓	21-Oct-2025	7 days	4 days	✓
Anions and Nutrients : Dissolved Orthophosphate by Colourimetry (Ultra Trace Level 0.001 mg/L)										
HDPE [ON MECP] OW-2D	E378-U	16-Oct-2025	19-Oct-2025	7 days	4 days	✓	21-Oct-2025	7 days	4 days	✓



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Analyte Group : Analytical Method Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Anions and Nutrients : Dissolved Orthophosphate by Colourimetry (Ultra Trace Level 0.001 mg/L)										
HDPE [ON MECP] OW-2S	E378-U	16-Oct-2025	19-Oct-2025	7 days	4 days	✓	21-Oct-2025	7 days	4 days	✓
Anions and Nutrients : Dissolved Orthophosphate by Colourimetry (Ultra Trace Level 0.001 mg/L)										
HDPE [ON MECP] OW-3D	E378-U	16-Oct-2025	19-Oct-2025	7 days	4 days	✓	21-Oct-2025	7 days	4 days	✓
Anions and Nutrients : Dissolved Orthophosphate by Colourimetry (Ultra Trace Level 0.001 mg/L)										
HDPE [ON MECP] OW-3S	E378-U	16-Oct-2025	19-Oct-2025	7 days	4 days	✓	21-Oct-2025	7 days	4 days	✓
Anions and Nutrients : Dissolved Orthophosphate by Colourimetry (Ultra Trace Level 0.001 mg/L)										
HDPE [ON MECP] OW-7D	E378-U	16-Oct-2025	19-Oct-2025	7 days	4 days	✓	21-Oct-2025	7 days	4 days	✓
Anions and Nutrients : Dissolved Orthophosphate by Colourimetry (Ultra Trace Level 0.001 mg/L)										
HDPE [ON MECP] OW-7S	E378-U	16-Oct-2025	19-Oct-2025	7 days	4 days	✓	21-Oct-2025	7 days	4 days	✓
Anions and Nutrients : Fluoride in Water by IC										
HDPE [ON MECP] OW-1	E235.F	16-Oct-2025	19-Oct-2025	28 days	4 days	✓	21-Oct-2025	28 days	4 days	✓
Anions and Nutrients : Fluoride in Water by IC										
HDPE [ON MECP] OW-10D	E235.F	16-Oct-2025	19-Oct-2025	28 days	4 days	✓	22-Oct-2025	28 days	4 days	✓
Anions and Nutrients : Fluoride in Water by IC										
HDPE [ON MECP] OW-10S	E235.F	16-Oct-2025	19-Oct-2025	28 days	4 days	✓	22-Oct-2025	28 days	4 days	✓
Anions and Nutrients : Fluoride in Water by IC										
HDPE [ON MECP] OW-12D	E235.F	16-Oct-2025	19-Oct-2025	28 days	4 days	✓	22-Oct-2025	28 days	4 days	✓



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			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Anions and Nutrients : Fluoride in Water by IC										
HDPE [ON MECP] OW-13D	E235.F	16-Oct-2025	19-Oct-2025	28 days	4 days	✓	22-Oct-2025	28 days	4 days	✓
Anions and Nutrients : Fluoride in Water by IC										
HDPE [ON MECP] OW-13S	E235.F	16-Oct-2025	19-Oct-2025	28 days	4 days	✓	22-Oct-2025	28 days	4 days	✓
Anions and Nutrients : Fluoride in Water by IC										
HDPE [ON MECP] OW-16D	E235.F	16-Oct-2025	19-Oct-2025	28 days	4 days	✓	22-Oct-2025	28 days	4 days	✓
Anions and Nutrients : Fluoride in Water by IC										
HDPE [ON MECP] OW-16S	E235.F	16-Oct-2025	19-Oct-2025	28 days	4 days	✓	22-Oct-2025	28 days	4 days	✓
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HDPE [ON MECP] OW-20S	E235.F	16-Oct-2025	19-Oct-2025	28 days	4 days	✓	22-Oct-2025	28 days	4 days	✓
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HDPE [ON MECP] OW-2S	E235.F	16-Oct-2025	19-Oct-2025	28 days	4 days	✓	21-Oct-2025	28 days	4 days	✓
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HDPE [ON MECP] OW-3D	E235.F	16-Oct-2025	19-Oct-2025	28 days	4 days	✓	21-Oct-2025	28 days	4 days	✓



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			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Anions and Nutrients : Fluoride in Water by IC										
HDPE [ON MECP] OW-3S	E235.F	16-Oct-2025	19-Oct-2025	28 days	4 days	✓	21-Oct-2025	28 days	4 days	✓
Anions and Nutrients : Fluoride in Water by IC										
HDPE [ON MECP] OW-7D	E235.F	16-Oct-2025	19-Oct-2025	28 days	4 days	✓	22-Oct-2025	28 days	4 days	✓
Anions and Nutrients : Fluoride in Water by IC										
HDPE [ON MECP] OW-7S	E235.F	16-Oct-2025	19-Oct-2025	28 days	4 days	✓	21-Oct-2025	28 days	4 days	✓
Anions and Nutrients : Nitrate in Water by IC										
HDPE [ON MECP] OW-1	E235.NO3	16-Oct-2025	19-Oct-2025	7 days	4 days	✓	21-Oct-2025	7 days	4 days	✓
Anions and Nutrients : Nitrate in Water by IC										
HDPE [ON MECP] OW-10D	E235.NO3	16-Oct-2025	19-Oct-2025	7 days	4 days	✓	22-Oct-2025	7 days	4 days	✓
Anions and Nutrients : Nitrate in Water by IC										
HDPE [ON MECP] OW-10S	E235.NO3	16-Oct-2025	19-Oct-2025	7 days	4 days	✓	22-Oct-2025	7 days	4 days	✓
Anions and Nutrients : Nitrate in Water by IC										
HDPE [ON MECP] OW-12D	E235.NO3	16-Oct-2025	19-Oct-2025	7 days	4 days	✓	22-Oct-2025	7 days	4 days	✓
Anions and Nutrients : Nitrate in Water by IC										
HDPE [ON MECP] OW-13D	E235.NO3	16-Oct-2025	19-Oct-2025	7 days	4 days	✓	22-Oct-2025	7 days	4 days	✓
Anions and Nutrients : Nitrate in Water by IC										
HDPE [ON MECP] OW-13S	E235.NO3	16-Oct-2025	19-Oct-2025	7 days	4 days	✓	22-Oct-2025	7 days	4 days	✓



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			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Anions and Nutrients : Nitrate in Water by IC										
HDPE [ON MECP] OW-16D	E235.NO3	16-Oct-2025	19-Oct-2025	7 days	4 days	✓	22-Oct-2025	7 days	4 days	✓
Anions and Nutrients : Nitrate in Water by IC										
HDPE [ON MECP] OW-16S	E235.NO3	16-Oct-2025	19-Oct-2025	7 days	4 days	✓	22-Oct-2025	7 days	4 days	✓
Anions and Nutrients : Nitrate in Water by IC										
HDPE [ON MECP] OW-20D	E235.NO3	16-Oct-2025	19-Oct-2025	7 days	4 days	✓	22-Oct-2025	7 days	4 days	✓
Anions and Nutrients : Nitrate in Water by IC										
HDPE [ON MECP] OW-20S	E235.NO3	16-Oct-2025	19-Oct-2025	7 days	4 days	✓	22-Oct-2025	7 days	4 days	✓
Anions and Nutrients : Nitrate in Water by IC										
HDPE [ON MECP] OW-2D	E235.NO3	16-Oct-2025	19-Oct-2025	7 days	4 days	✓	21-Oct-2025	7 days	4 days	✓
Anions and Nutrients : Nitrate in Water by IC										
HDPE [ON MECP] OW-2S	E235.NO3	16-Oct-2025	19-Oct-2025	7 days	4 days	✓	21-Oct-2025	7 days	4 days	✓
Anions and Nutrients : Nitrate in Water by IC										
HDPE [ON MECP] OW-3D	E235.NO3	16-Oct-2025	19-Oct-2025	7 days	4 days	✓	21-Oct-2025	7 days	4 days	✓
Anions and Nutrients : Nitrate in Water by IC										
HDPE [ON MECP] OW-3S	E235.NO3	16-Oct-2025	19-Oct-2025	7 days	4 days	✓	21-Oct-2025	7 days	4 days	✓
Anions and Nutrients : Nitrate in Water by IC										
HDPE [ON MECP] OW-7D	E235.NO3	16-Oct-2025	19-Oct-2025	7 days	4 days	✓	22-Oct-2025	7 days	4 days	✓



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			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Anions and Nutrients : Nitrate in Water by IC										
HDPE [ON MECP] OW-7S	E235.NO3	16-Oct-2025	19-Oct-2025	7 days	4 days	✓	21-Oct-2025	7 days	4 days	✓
Anions and Nutrients : Nitrite in Water by IC										
HDPE [ON MECP] OW-1	E235.NO2	16-Oct-2025	19-Oct-2025	7 days	4 days	✓	21-Oct-2025	7 days	4 days	✓
Anions and Nutrients : Nitrite in Water by IC										
HDPE [ON MECP] OW-10D	E235.NO2	16-Oct-2025	19-Oct-2025	7 days	4 days	✓	22-Oct-2025	7 days	4 days	✓
Anions and Nutrients : Nitrite in Water by IC										
HDPE [ON MECP] OW-10S	E235.NO2	16-Oct-2025	19-Oct-2025	7 days	4 days	✓	22-Oct-2025	7 days	4 days	✓
Anions and Nutrients : Nitrite in Water by IC										
HDPE [ON MECP] OW-12D	E235.NO2	16-Oct-2025	19-Oct-2025	7 days	4 days	✓	22-Oct-2025	7 days	4 days	✓
Anions and Nutrients : Nitrite in Water by IC										
HDPE [ON MECP] OW-13D	E235.NO2	16-Oct-2025	19-Oct-2025	7 days	4 days	✓	22-Oct-2025	7 days	4 days	✓
Anions and Nutrients : Nitrite in Water by IC										
HDPE [ON MECP] OW-13S	E235.NO2	16-Oct-2025	19-Oct-2025	7 days	4 days	✓	22-Oct-2025	7 days	4 days	✓
Anions and Nutrients : Nitrite in Water by IC										
HDPE [ON MECP] OW-16D	E235.NO2	16-Oct-2025	19-Oct-2025	7 days	4 days	✓	22-Oct-2025	7 days	4 days	✓
Anions and Nutrients : Nitrite in Water by IC										
HDPE [ON MECP] OW-16S	E235.NO2	16-Oct-2025	19-Oct-2025	7 days	4 days	✓	22-Oct-2025	7 days	4 days	✓



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Container / Client Sample ID(s)			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Anions and Nutrients : Nitrite in Water by IC										
HDPE [ON MECP] OW-20D	E235.NO2	16-Oct-2025	19-Oct-2025	7 days	4 days	✓	22-Oct-2025	7 days	4 days	✓
Anions and Nutrients : Nitrite in Water by IC										
HDPE [ON MECP] OW-20S	E235.NO2	16-Oct-2025	19-Oct-2025	7 days	4 days	✓	22-Oct-2025	7 days	4 days	✓
Anions and Nutrients : Nitrite in Water by IC										
HDPE [ON MECP] OW-2D	E235.NO2	16-Oct-2025	19-Oct-2025	7 days	4 days	✓	21-Oct-2025	7 days	4 days	✓
Anions and Nutrients : Nitrite in Water by IC										
HDPE [ON MECP] OW-2S	E235.NO2	16-Oct-2025	19-Oct-2025	7 days	4 days	✓	21-Oct-2025	7 days	4 days	✓
Anions and Nutrients : Nitrite in Water by IC										
HDPE [ON MECP] OW-3D	E235.NO2	16-Oct-2025	19-Oct-2025	7 days	4 days	✓	21-Oct-2025	7 days	4 days	✓
Anions and Nutrients : Nitrite in Water by IC										
HDPE [ON MECP] OW-3S	E235.NO2	16-Oct-2025	19-Oct-2025	7 days	4 days	✓	21-Oct-2025	7 days	4 days	✓
Anions and Nutrients : Nitrite in Water by IC										
HDPE [ON MECP] OW-7D	E235.NO2	16-Oct-2025	19-Oct-2025	7 days	4 days	✓	22-Oct-2025	7 days	4 days	✓
Anions and Nutrients : Nitrite in Water by IC										
HDPE [ON MECP] OW-7S	E235.NO2	16-Oct-2025	19-Oct-2025	7 days	4 days	✓	21-Oct-2025	7 days	4 days	✓
Anions and Nutrients : Sulfate in Water by IC										
HDPE [ON MECP] OW-1	E235.SO4	16-Oct-2025	19-Oct-2025	28 days	4 days	✓	21-Oct-2025	28 days	4 days	✓



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Analyte Group : Analytical Method Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Anions and Nutrients : Sulfate in Water by IC										
HDPE [ON MECP] OW-10D	E235.SO4	16-Oct-2025	19-Oct-2025	28 days	4 days	✓	22-Oct-2025	28 days	4 days	✓
Anions and Nutrients : Sulfate in Water by IC										
HDPE [ON MECP] OW-10S	E235.SO4	16-Oct-2025	19-Oct-2025	28 days	4 days	✓	22-Oct-2025	28 days	4 days	✓
Anions and Nutrients : Sulfate in Water by IC										
HDPE [ON MECP] OW-12D	E235.SO4	16-Oct-2025	19-Oct-2025	28 days	4 days	✓	22-Oct-2025	28 days	4 days	✓
Anions and Nutrients : Sulfate in Water by IC										
HDPE [ON MECP] OW-13D	E235.SO4	16-Oct-2025	19-Oct-2025	28 days	4 days	✓	22-Oct-2025	28 days	4 days	✓
Anions and Nutrients : Sulfate in Water by IC										
HDPE [ON MECP] OW-13S	E235.SO4	16-Oct-2025	19-Oct-2025	28 days	4 days	✓	22-Oct-2025	28 days	4 days	✓
Anions and Nutrients : Sulfate in Water by IC										
HDPE [ON MECP] OW-16D	E235.SO4	16-Oct-2025	19-Oct-2025	28 days	4 days	✓	22-Oct-2025	28 days	4 days	✓
Anions and Nutrients : Sulfate in Water by IC										
HDPE [ON MECP] OW-16S	E235.SO4	16-Oct-2025	19-Oct-2025	28 days	4 days	✓	22-Oct-2025	28 days	4 days	✓
Anions and Nutrients : Sulfate in Water by IC										
HDPE [ON MECP] OW-20D	E235.SO4	16-Oct-2025	19-Oct-2025	28 days	4 days	✓	22-Oct-2025	28 days	4 days	✓
Anions and Nutrients : Sulfate in Water by IC										
HDPE [ON MECP] OW-20S	E235.SO4	16-Oct-2025	19-Oct-2025	28 days	4 days	✓	22-Oct-2025	28 days	4 days	✓



Matrix: **Water** Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Anions and Nutrients : Sulfate in Water by IC										
HDPE [ON MECP] OW-2D	E235.SO4	16-Oct-2025	19-Oct-2025	28 days	4 days	✓	21-Oct-2025	28 days	4 days	✓
Anions and Nutrients : Sulfate in Water by IC										
HDPE [ON MECP] OW-2S	E235.SO4	16-Oct-2025	19-Oct-2025	28 days	4 days	✓	21-Oct-2025	28 days	4 days	✓
Anions and Nutrients : Sulfate in Water by IC										
HDPE [ON MECP] OW-3D	E235.SO4	16-Oct-2025	19-Oct-2025	28 days	4 days	✓	21-Oct-2025	28 days	4 days	✓
Anions and Nutrients : Sulfate in Water by IC										
HDPE [ON MECP] OW-3S	E235.SO4	16-Oct-2025	19-Oct-2025	28 days	4 days	✓	21-Oct-2025	28 days	4 days	✓
Anions and Nutrients : Sulfate in Water by IC										
HDPE [ON MECP] OW-7D	E235.SO4	16-Oct-2025	19-Oct-2025	28 days	4 days	✓	22-Oct-2025	28 days	4 days	✓
Anions and Nutrients : Sulfate in Water by IC										
HDPE [ON MECP] OW-7S	E235.SO4	16-Oct-2025	19-Oct-2025	28 days	4 days	✓	21-Oct-2025	28 days	4 days	✓
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid) OW-1	E421	16-Oct-2025	17-Oct-2025	180 days	2 days	✓	17-Oct-2025	180 days	2 days	✓
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid) OW-10D	E421	16-Oct-2025	17-Oct-2025	180 days	2 days	✓	17-Oct-2025	180 days	2 days	✓
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid) OW-10S	E421	16-Oct-2025	17-Oct-2025	180 days	2 days	✓	17-Oct-2025	180 days	2 days	✓



Matrix: **Water** Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method	Method	Sampling Date	Extraction / Preparation				Analysis			
Container / Client Sample ID(s)			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid) OW-12D	E421	16-Oct-2025	17-Oct-2025	180 days	2 days	✓	17-Oct-2025	180 days	2 days	✓
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid) OW-13D	E421	16-Oct-2025	17-Oct-2025	180 days	2 days	✓	17-Oct-2025	180 days	2 days	✓
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid) OW-13S	E421	16-Oct-2025	17-Oct-2025	180 days	2 days	✓	17-Oct-2025	180 days	2 days	✓
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid) OW-16D	E421	16-Oct-2025	17-Oct-2025	180 days	2 days	✓	17-Oct-2025	180 days	2 days	✓
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid) OW-16S	E421	16-Oct-2025	17-Oct-2025	180 days	2 days	✓	17-Oct-2025	180 days	2 days	✓
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid) OW-20D	E421	16-Oct-2025	17-Oct-2025	180 days	2 days	✓	17-Oct-2025	180 days	2 days	✓
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid) OW-20S	E421	16-Oct-2025	17-Oct-2025	180 days	2 days	✓	17-Oct-2025	180 days	2 days	✓
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid) OW-2D	E421	16-Oct-2025	17-Oct-2025	180 days	2 days	✓	17-Oct-2025	180 days	2 days	✓
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid) OW-2S	E421	16-Oct-2025	17-Oct-2025	180 days	2 days	✓	17-Oct-2025	180 days	2 days	✓



Matrix: **Water** Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid) OW-3D	E421	16-Oct-2025	17-Oct-2025	180 days	2 days	✓	17-Oct-2025	180 days	2 days	✓
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid) OW-3S	E421	16-Oct-2025	17-Oct-2025	180 days	2 days	✓	17-Oct-2025	180 days	2 days	✓
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid) OW-7D	E421	16-Oct-2025	17-Oct-2025	180 days	2 days	✓	17-Oct-2025	180 days	2 days	✓
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid) OW-7S	E421	16-Oct-2025	17-Oct-2025	180 days	2 days	✓	17-Oct-2025	180 days	2 days	✓
Physical Tests : Alkalinity Species by Titration										
HDPE [ON MECP] OW-1	E290	16-Oct-2025	19-Oct-2025	14 days	4 days	✓	20-Oct-2025	14 days	4 days	✓
Physical Tests : Alkalinity Species by Titration										
HDPE [ON MECP] OW-10D	E290	16-Oct-2025	19-Oct-2025	14 days	4 days	✓	20-Oct-2025	14 days	4 days	✓
Physical Tests : Alkalinity Species by Titration										
HDPE [ON MECP] OW-10S	E290	16-Oct-2025	19-Oct-2025	14 days	4 days	✓	20-Oct-2025	14 days	4 days	✓
Physical Tests : Alkalinity Species by Titration										
HDPE [ON MECP] OW-12D	E290	16-Oct-2025	19-Oct-2025	14 days	4 days	✓	20-Oct-2025	14 days	4 days	✓
Physical Tests : Alkalinity Species by Titration										
HDPE [ON MECP] OW-13D	E290	16-Oct-2025	19-Oct-2025	14 days	4 days	✓	20-Oct-2025	14 days	4 days	✓



Matrix: **Water** Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Physical Tests : Alkalinity Species by Titration										
HDPE [ON MECP] OW-13S	E290	16-Oct-2025	19-Oct-2025	14 days	4 days	✓	20-Oct-2025	14 days	4 days	✓
Physical Tests : Alkalinity Species by Titration										
HDPE [ON MECP] OW-16D	E290	16-Oct-2025	19-Oct-2025	14 days	4 days	✓	20-Oct-2025	14 days	4 days	✓
Physical Tests : Alkalinity Species by Titration										
HDPE [ON MECP] OW-16S	E290	16-Oct-2025	19-Oct-2025	14 days	4 days	✓	20-Oct-2025	14 days	4 days	✓
Physical Tests : Alkalinity Species by Titration										
HDPE [ON MECP] OW-20D	E290	16-Oct-2025	19-Oct-2025	14 days	4 days	✓	20-Oct-2025	14 days	4 days	✓
Physical Tests : Alkalinity Species by Titration										
HDPE [ON MECP] OW-20S	E290	16-Oct-2025	19-Oct-2025	14 days	4 days	✓	20-Oct-2025	14 days	4 days	✓
Physical Tests : Alkalinity Species by Titration										
HDPE [ON MECP] OW-2D	E290	16-Oct-2025	19-Oct-2025	14 days	4 days	✓	20-Oct-2025	14 days	4 days	✓
Physical Tests : Alkalinity Species by Titration										
HDPE [ON MECP] OW-2S	E290	16-Oct-2025	19-Oct-2025	14 days	4 days	✓	20-Oct-2025	14 days	4 days	✓
Physical Tests : Alkalinity Species by Titration										
HDPE [ON MECP] OW-3D	E290	16-Oct-2025	19-Oct-2025	14 days	4 days	✓	20-Oct-2025	14 days	4 days	✓
Physical Tests : Alkalinity Species by Titration										
HDPE [ON MECP] OW-3S	E290	16-Oct-2025	19-Oct-2025	14 days	4 days	✓	20-Oct-2025	14 days	4 days	✓



Matrix: **Water** Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Physical Tests : Alkalinity Species by Titration										
HDPE [ON MECP] OW-7D	E290	16-Oct-2025	19-Oct-2025	14 days	4 days	✓	20-Oct-2025	14 days	4 days	✓
Physical Tests : Alkalinity Species by Titration										
HDPE [ON MECP] OW-7S	E290	16-Oct-2025	19-Oct-2025	14 days	4 days	✓	20-Oct-2025	14 days	4 days	✓
Physical Tests : Colour (Apparent) by Spectrometer										
HDPE [ON MECP] OW-1	E330	16-Oct-2025	----	----	----		22-Oct-2025	48 hrs	156 hrs	✖ EHT
Physical Tests : Colour (Apparent) by Spectrometer										
HDPE [ON MECP] OW-10D	E330	16-Oct-2025	----	----	----		22-Oct-2025	48 hrs	156 hrs	✖ EHT
Physical Tests : Colour (Apparent) by Spectrometer										
HDPE [ON MECP] OW-10S	E330	16-Oct-2025	----	----	----		22-Oct-2025	48 hrs	156 hrs	✖ EHT
Physical Tests : Colour (Apparent) by Spectrometer										
HDPE [ON MECP] OW-12D	E330	16-Oct-2025	----	----	----		22-Oct-2025	48 hrs	156 hrs	✖ EHT
Physical Tests : Colour (Apparent) by Spectrometer										
HDPE [ON MECP] OW-13D	E330	16-Oct-2025	----	----	----		22-Oct-2025	48 hrs	156 hrs	✖ EHT
Physical Tests : Colour (Apparent) by Spectrometer										
HDPE [ON MECP] OW-13S	E330	16-Oct-2025	----	----	----		22-Oct-2025	48 hrs	156 hrs	✖ EHT
Physical Tests : Colour (Apparent) by Spectrometer										
HDPE [ON MECP] OW-16D	E330	16-Oct-2025	----	----	----		22-Oct-2025	48 hrs	156 hrs	✖ EHT



Matrix: **Water** Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method	Method	Sampling Date	Extraction / Preparation				Analysis			
Container / Client Sample ID(s)			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Physical Tests : Colour (Apparent) by Spectrometer										
HDPE [ON MECP] OW-16S	E330	16-Oct-2025	----	----	----		22-Oct-2025	48 hrs	156 hrs	✖ EHT
Physical Tests : Colour (Apparent) by Spectrometer										
HDPE [ON MECP] OW-20D	E330	16-Oct-2025	----	----	----		22-Oct-2025	48 hrs	156 hrs	✖ EHT
Physical Tests : Colour (Apparent) by Spectrometer										
HDPE [ON MECP] OW-20S	E330	16-Oct-2025	----	----	----		22-Oct-2025	48 hrs	156 hrs	✖ EHT
Physical Tests : Colour (Apparent) by Spectrometer										
HDPE [ON MECP] OW-2D	E330	16-Oct-2025	----	----	----		22-Oct-2025	48 hrs	156 hrs	✖ EHT
Physical Tests : Colour (Apparent) by Spectrometer										
HDPE [ON MECP] OW-2S	E330	16-Oct-2025	----	----	----		22-Oct-2025	48 hrs	156 hrs	✖ EHT
Physical Tests : Colour (Apparent) by Spectrometer										
HDPE [ON MECP] OW-3D	E330	16-Oct-2025	----	----	----		22-Oct-2025	48 hrs	156 hrs	✖ EHT
Physical Tests : Colour (Apparent) by Spectrometer										
HDPE [ON MECP] OW-3S	E330	16-Oct-2025	----	----	----		22-Oct-2025	48 hrs	156 hrs	✖ EHT
Physical Tests : Colour (Apparent) by Spectrometer										
HDPE [ON MECP] OW-7D	E330	16-Oct-2025	----	----	----		22-Oct-2025	48 hrs	156 hrs	✖ EHT
Physical Tests : Colour (Apparent) by Spectrometer										
HDPE [ON MECP] OW-7S	E330	16-Oct-2025	----	----	----		22-Oct-2025	48 hrs	156 hrs	✖ EHT



Matrix: **Water** Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Physical Tests : Conductivity in Water										
HDPE [ON MECP] OW-1	E100	16-Oct-2025	19-Oct-2025	28 days	4 days	✓	20-Oct-2025	28 days	4 days	✓
Physical Tests : Conductivity in Water										
HDPE [ON MECP] OW-10D	E100	16-Oct-2025	19-Oct-2025	28 days	4 days	✓	20-Oct-2025	28 days	4 days	✓
Physical Tests : Conductivity in Water										
HDPE [ON MECP] OW-10S	E100	16-Oct-2025	19-Oct-2025	28 days	4 days	✓	20-Oct-2025	28 days	4 days	✓
Physical Tests : Conductivity in Water										
HDPE [ON MECP] OW-12D	E100	16-Oct-2025	19-Oct-2025	28 days	4 days	✓	20-Oct-2025	28 days	4 days	✓
Physical Tests : Conductivity in Water										
HDPE [ON MECP] OW-13D	E100	16-Oct-2025	19-Oct-2025	28 days	4 days	✓	20-Oct-2025	28 days	4 days	✓
Physical Tests : Conductivity in Water										
HDPE [ON MECP] OW-13S	E100	16-Oct-2025	19-Oct-2025	28 days	4 days	✓	20-Oct-2025	28 days	4 days	✓
Physical Tests : Conductivity in Water										
HDPE [ON MECP] OW-16D	E100	16-Oct-2025	19-Oct-2025	28 days	4 days	✓	20-Oct-2025	28 days	4 days	✓
Physical Tests : Conductivity in Water										
HDPE [ON MECP] OW-16S	E100	16-Oct-2025	19-Oct-2025	28 days	4 days	✓	20-Oct-2025	28 days	4 days	✓
Physical Tests : Conductivity in Water										
HDPE [ON MECP] OW-20D	E100	16-Oct-2025	19-Oct-2025	28 days	4 days	✓	20-Oct-2025	28 days	4 days	✓



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Analyte Group : Analytical Method Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Physical Tests : Conductivity in Water										
HDPE [ON MECP] OW-20S	E100	16-Oct-2025	19-Oct-2025	28 days	4 days	✓	20-Oct-2025	28 days	4 days	✓
Physical Tests : Conductivity in Water										
HDPE [ON MECP] OW-2D	E100	16-Oct-2025	19-Oct-2025	28 days	4 days	✓	20-Oct-2025	28 days	4 days	✓
Physical Tests : Conductivity in Water										
HDPE [ON MECP] OW-2S	E100	16-Oct-2025	19-Oct-2025	28 days	4 days	✓	20-Oct-2025	28 days	4 days	✓
Physical Tests : Conductivity in Water										
HDPE [ON MECP] OW-3D	E100	16-Oct-2025	19-Oct-2025	28 days	4 days	✓	20-Oct-2025	28 days	4 days	✓
Physical Tests : Conductivity in Water										
HDPE [ON MECP] OW-3S	E100	16-Oct-2025	19-Oct-2025	28 days	4 days	✓	20-Oct-2025	28 days	4 days	✓
Physical Tests : Conductivity in Water										
HDPE [ON MECP] OW-7D	E100	16-Oct-2025	19-Oct-2025	28 days	4 days	✓	20-Oct-2025	28 days	4 days	✓
Physical Tests : Conductivity in Water										
HDPE [ON MECP] OW-7S	E100	16-Oct-2025	19-Oct-2025	28 days	4 days	✓	20-Oct-2025	28 days	4 days	✓
Physical Tests : pH by Meter										
HDPE [ON MECP] OW-1	E108	16-Oct-2025	19-Oct-2025	14 days	4 days	✓	20-Oct-2025	14 days	4 days	✓
Physical Tests : pH by Meter										
HDPE [ON MECP] OW-10D	E108	16-Oct-2025	19-Oct-2025	14 days	4 days	✓	20-Oct-2025	14 days	4 days	✓



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Analyte Group : Analytical Method Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Physical Tests : pH by Meter										
HDPE [ON MECP] OW-10S	E108	16-Oct-2025	19-Oct-2025	14 days	4 days	✓	20-Oct-2025	14 days	4 days	✓
Physical Tests : pH by Meter										
HDPE [ON MECP] OW-12D	E108	16-Oct-2025	19-Oct-2025	14 days	4 days	✓	20-Oct-2025	14 days	4 days	✓
Physical Tests : pH by Meter										
HDPE [ON MECP] OW-13D	E108	16-Oct-2025	19-Oct-2025	14 days	4 days	✓	20-Oct-2025	14 days	4 days	✓
Physical Tests : pH by Meter										
HDPE [ON MECP] OW-13S	E108	16-Oct-2025	19-Oct-2025	14 days	4 days	✓	20-Oct-2025	14 days	4 days	✓
Physical Tests : pH by Meter										
HDPE [ON MECP] OW-16D	E108	16-Oct-2025	19-Oct-2025	14 days	4 days	✓	20-Oct-2025	14 days	4 days	✓
Physical Tests : pH by Meter										
HDPE [ON MECP] OW-16S	E108	16-Oct-2025	19-Oct-2025	14 days	4 days	✓	20-Oct-2025	14 days	4 days	✓
Physical Tests : pH by Meter										
HDPE [ON MECP] OW-20D	E108	16-Oct-2025	19-Oct-2025	14 days	4 days	✓	20-Oct-2025	14 days	4 days	✓
Physical Tests : pH by Meter										
HDPE [ON MECP] OW-20S	E108	16-Oct-2025	19-Oct-2025	14 days	4 days	✓	20-Oct-2025	14 days	4 days	✓
Physical Tests : pH by Meter										
HDPE [ON MECP] OW-2D	E108	16-Oct-2025	19-Oct-2025	14 days	4 days	✓	20-Oct-2025	14 days	4 days	✓



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Analyte Group : Analytical Method Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Physical Tests : pH by Meter										
HDPE [ON MECP] OW-2S	E108	16-Oct-2025	19-Oct-2025	14 days	4 days	✓	20-Oct-2025	14 days	4 days	✓
Physical Tests : pH by Meter										
HDPE [ON MECP] OW-3D	E108	16-Oct-2025	19-Oct-2025	14 days	4 days	✓	20-Oct-2025	14 days	4 days	✓
Physical Tests : pH by Meter										
HDPE [ON MECP] OW-3S	E108	16-Oct-2025	19-Oct-2025	14 days	4 days	✓	20-Oct-2025	14 days	4 days	✓
Physical Tests : pH by Meter										
HDPE [ON MECP] OW-7D	E108	16-Oct-2025	19-Oct-2025	14 days	4 days	✓	20-Oct-2025	14 days	4 days	✓
Physical Tests : pH by Meter										
HDPE [ON MECP] OW-7S	E108	16-Oct-2025	19-Oct-2025	14 days	4 days	✓	20-Oct-2025	14 days	4 days	✓
Physical Tests : TDS by Gravimetry										
HDPE [ON MECP] OW-1	E162	16-Oct-2025	----	----	----		23-Oct-2025	7 days	8 days	✓
Physical Tests : TDS by Gravimetry										
HDPE [ON MECP] OW-10D	E162	16-Oct-2025	----	----	----		23-Oct-2025	7 days	8 days	✓
Physical Tests : TDS by Gravimetry										
HDPE [ON MECP] OW-10S	E162	16-Oct-2025	----	----	----		23-Oct-2025	7 days	8 days	✓
Physical Tests : TDS by Gravimetry										
HDPE [ON MECP] OW-12D	E162	16-Oct-2025	----	----	----		23-Oct-2025	7 days	8 days	✓



Matrix: **Water** Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Physical Tests : TDS by Gravimetry										
HDPE [ON MECP] OW-13D	E162	16-Oct-2025	----	----	----		23-Oct-2025	7 days	8 days	✔
Physical Tests : TDS by Gravimetry										
HDPE [ON MECP] OW-13S	E162	16-Oct-2025	----	----	----		23-Oct-2025	7 days	8 days	✔
Physical Tests : TDS by Gravimetry										
HDPE [ON MECP] OW-16D	E162	16-Oct-2025	----	----	----		23-Oct-2025	7 days	8 days	✔
Physical Tests : TDS by Gravimetry										
HDPE [ON MECP] OW-16S	E162	16-Oct-2025	----	----	----		23-Oct-2025	7 days	8 days	✔
Physical Tests : TDS by Gravimetry										
HDPE [ON MECP] OW-20D	E162	16-Oct-2025	----	----	----		23-Oct-2025	7 days	8 days	✔
Physical Tests : TDS by Gravimetry										
HDPE [ON MECP] OW-20S	E162	16-Oct-2025	----	----	----		23-Oct-2025	7 days	8 days	✔
Physical Tests : TDS by Gravimetry										
HDPE [ON MECP] OW-2D	E162	16-Oct-2025	----	----	----		23-Oct-2025	7 days	8 days	✔
Physical Tests : TDS by Gravimetry										
HDPE [ON MECP] OW-2S	E162	16-Oct-2025	----	----	----		23-Oct-2025	7 days	8 days	✔
Physical Tests : TDS by Gravimetry										
HDPE [ON MECP] OW-3D	E162	16-Oct-2025	----	----	----		23-Oct-2025	7 days	8 days	✔



Matrix: **Water** Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Physical Tests : TDS by Gravimetry										
HDPE [ON MECP] OW-3S	E162	16-Oct-2025	----	----	----		23-Oct-2025	7 days	8 days	✓
Physical Tests : TDS by Gravimetry										
HDPE [ON MECP] OW-7D	E162	16-Oct-2025	----	----	----		23-Oct-2025	7 days	8 days	✓
Physical Tests : TDS by Gravimetry										
HDPE [ON MECP] OW-7S	E162	16-Oct-2025	----	----	----		23-Oct-2025	7 days	8 days	✓
Physical Tests : Turbidity by Nephelometry										
HDPE [ON MECP] OW-1	E121	16-Oct-2025	----	----	----		18-Oct-2025	48 hrs	56 hrs	✗ EHT
Physical Tests : Turbidity by Nephelometry										
HDPE [ON MECP] OW-10D	E121	16-Oct-2025	----	----	----		18-Oct-2025	48 hrs	56 hrs	✗ EHT
Physical Tests : Turbidity by Nephelometry										
HDPE [ON MECP] OW-10S	E121	16-Oct-2025	----	----	----		18-Oct-2025	48 hrs	56 hrs	✗ EHT
Physical Tests : Turbidity by Nephelometry										
HDPE [ON MECP] OW-12D	E121	16-Oct-2025	----	----	----		18-Oct-2025	48 hrs	56 hrs	✗ EHT
Physical Tests : Turbidity by Nephelometry										
HDPE [ON MECP] OW-13D	E121	16-Oct-2025	----	----	----		18-Oct-2025	48 hrs	56 hrs	✗ EHT
Physical Tests : Turbidity by Nephelometry										
HDPE [ON MECP] OW-13S	E121	16-Oct-2025	----	----	----		18-Oct-2025	48 hrs	56 hrs	✗ EHT



Matrix: **Water** Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Physical Tests : Turbidity by Nephelometry										
HDPE [ON MECP] OW-16D	E121	16-Oct-2025	----	----	----		18-Oct-2025	48 hrs	56 hrs	✖ EHT
Physical Tests : Turbidity by Nephelometry										
HDPE [ON MECP] OW-16S	E121	16-Oct-2025	----	----	----		18-Oct-2025	48 hrs	56 hrs	✖ EHT
Physical Tests : Turbidity by Nephelometry										
HDPE [ON MECP] OW-20D	E121	16-Oct-2025	----	----	----		18-Oct-2025	48 hrs	56 hrs	✖ EHT
Physical Tests : Turbidity by Nephelometry										
HDPE [ON MECP] OW-20S	E121	16-Oct-2025	----	----	----		18-Oct-2025	48 hrs	56 hrs	✖ EHT
Physical Tests : Turbidity by Nephelometry										
HDPE [ON MECP] OW-2D	E121	16-Oct-2025	----	----	----		18-Oct-2025	48 hrs	56 hrs	✖ EHT
Physical Tests : Turbidity by Nephelometry										
HDPE [ON MECP] OW-2S	E121	16-Oct-2025	----	----	----		18-Oct-2025	48 hrs	56 hrs	✖ EHT
Physical Tests : Turbidity by Nephelometry										
HDPE [ON MECP] OW-3D	E121	16-Oct-2025	----	----	----		18-Oct-2025	48 hrs	56 hrs	✖ EHT
Physical Tests : Turbidity by Nephelometry										
HDPE [ON MECP] OW-3S	E121	16-Oct-2025	----	----	----		18-Oct-2025	48 hrs	56 hrs	✖ EHT
Physical Tests : Turbidity by Nephelometry										
HDPE [ON MECP] OW-7D	E121	16-Oct-2025	----	----	----		18-Oct-2025	48 hrs	56 hrs	✖ EHT

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 Work Order : WT2529612
 Client : Bluewater Geoscience Consultants Inc.
 Project : BG-924



Matrix: **Water** Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method			Method	Sampling Date	Extraction / Preparation			Analysis				
Container / Client Sample ID(s)					Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
						Rec	Actual			Rec	Actual	
Physical Tests : Turbidity by Nephelometry												
HDPE [ON MECP] OW-7S			E121	16-Oct-2025	----	----	----		18-Oct-2025	48 hrs	56 hrs	✖ EHT

Legend & Qualifier Definitions

EHT: Exceeded ALS recommended hold time prior to analysis.

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



Quality Control Parameter Frequency Compliance

The following report summarizes the frequency of laboratory QC samples analyzed within the analytical batches (QC lots) in which the submitted samples were processed. The actual frequency should be greater than or equal to the expected frequency.

Matrix: **Water** Evaluation: ✖ = QC frequency outside specification; ✔ = QC frequency within specification.

Quality Control Sample Type			Count		Frequency (%)		
Analytical Methods	Method	QC Lot #	QC	Regular	Actual	Expected	Evaluation
Laboratory Duplicates (DUP)							
Conductivity in Water	E100	2285411	2	33	6.0	5.0	✔
pH by Meter	E108	2285413	2	29	6.9	5.0	✔
Turbidity by Nephelometry	E121	2283858	2	40	5.0	5.0	✔
TDS by Gravimetry	E162	2294364	1	20	5.0	5.0	✔
Chloride in Water by IC	E235.Cl	2285418	2	37	5.4	5.0	✔
Fluoride in Water by IC	E235.F	2285414	2	32	6.2	5.0	✔
Nitrite in Water by IC	E235.NO2	2285416	2	38	5.2	5.0	✔
Nitrate in Water by IC	E235.NO3	2285415	2	38	5.2	5.0	✔
Sulfate in Water by IC	E235.SO4	2285419	2	33	6.0	5.0	✔
Alkalinity Species by Titration	E290	2285412	2	33	6.0	5.0	✔
Ammonia by Fluorescence	E298	2288771	1	20	5.0	5.0	✔
Colour (Apparent) by Spectrometer	E330	2291142	2	39	5.1	5.0	✔
Dissolved Orthophosphate by Colourimetry (Ultra Trace Level 0.001 mg/L)	E378-U	2285421	2	40	5.0	5.0	✔
Dissolved Metals in Water by CRC ICPMS	E421	2283609	1	18	5.5	5.0	✔
Laboratory Control Samples (LCS)							
Conductivity in Water	E100	2285411	2	33	6.0	5.0	✔
pH by Meter	E108	2285413	2	29	6.9	5.0	✔
Turbidity by Nephelometry	E121	2283858	2	40	5.0	5.0	✔
TDS by Gravimetry	E162	2294364	1	20	5.0	5.0	✔
Chloride in Water by IC	E235.Cl	2285418	2	37	5.4	5.0	✔
Fluoride in Water by IC	E235.F	2285414	2	32	6.2	5.0	✔
Nitrite in Water by IC	E235.NO2	2285416	2	38	5.2	5.0	✔
Nitrate in Water by IC	E235.NO3	2285415	2	38	5.2	5.0	✔
Sulfate in Water by IC	E235.SO4	2285419	2	33	6.0	5.0	✔
Alkalinity Species by Titration	E290	2285412	2	33	6.0	5.0	✔
Ammonia by Fluorescence	E298	2288771	1	20	5.0	5.0	✔
Colour (Apparent) by Spectrometer	E330	2291142	2	39	5.1	5.0	✔
Dissolved Orthophosphate by Colourimetry (Ultra Trace Level 0.001 mg/L)	E378-U	2285421	2	40	5.0	5.0	✔
Dissolved Metals in Water by CRC ICPMS	E421	2283609	1	18	5.5	5.0	✔
Method Blanks (MB)							
Conductivity in Water	E100	2285411	2	33	6.0	5.0	✔
Turbidity by Nephelometry	E121	2283858	2	40	5.0	5.0	✔
TDS by Gravimetry	E162	2294364	1	20	5.0	5.0	✔
Chloride in Water by IC	E235.Cl	2285418	2	37	5.4	5.0	✔
Fluoride in Water by IC	E235.F	2285414	2	32	6.2	5.0	✔



Matrix: **Water**

Evaluation: ✖ = QC frequency outside specification; ✔ = QC frequency within specification.

Quality Control Sample Type			Count		Frequency (%)		
<i>Analytical Methods</i>	<i>Method</i>	<i>QC Lot #</i>	<i>QC</i>	<i>Regular</i>	<i>Actual</i>	<i>Expected</i>	<i>Evaluation</i>
Method Blanks (MB) - Continued							
Nitrite in Water by IC	E235.NO2	2285416	2	38	5.2	5.0	✔
Nitrate in Water by IC	E235.NO3	2285415	2	38	5.2	5.0	✔
Sulfate in Water by IC	E235.SO4	2285419	2	33	6.0	5.0	✔
Alkalinity Species by Titration	E290	2285412	2	33	6.0	5.0	✔
Ammonia by Fluorescence	E298	2288771	1	20	5.0	5.0	✔
Colour (Apparent) by Spectrometer	E330	2291142	2	39	5.1	5.0	✔
Dissolved Orthophosphate by Colourimetry (Ultra Trace Level 0.001 mg/L)	E378-U	2285421	2	40	5.0	5.0	✔
Dissolved Metals in Water by CRC ICPMS	E421	2283609	1	18	5.5	5.0	✔
Matrix Spikes (MS)							
Chloride in Water by IC	E235.Cl	2285418	2	37	5.4	5.0	✔
Fluoride in Water by IC	E235.F	2285414	2	32	6.2	5.0	✔
Nitrite in Water by IC	E235.NO2	2285416	2	38	5.2	5.0	✔
Nitrate in Water by IC	E235.NO3	2285415	2	38	5.2	5.0	✔
Sulfate in Water by IC	E235.SO4	2285419	2	33	6.0	5.0	✔
Ammonia by Fluorescence	E298	2288771	1	20	5.0	5.0	✔
Dissolved Orthophosphate by Colourimetry (Ultra Trace Level 0.001 mg/L)	E378-U	2285421	2	40	5.0	5.0	✔
Dissolved Metals in Water by CRC ICPMS	E421	2283609	1	18	5.5	5.0	✔



Methodology References and Summaries

The analytical methods used by ALS are developed using internationally recognized reference methods (where available), such as those published by US EPA, APHA Standard Methods, ASTM, ISO, Environment Canada, BC MOE, and Ontario MOE. Reference methods may incorporate modifications to improve performance (indicated by "mod").

Analytical Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
Conductivity in Water	E100 ALS Environmental - Waterloo	Water	APHA 2510 (mod)	Conductivity, also known as Electrical Conductivity (EC) or Specific Conductance, is measured by immersion of a conductivity cell with platinum electrodes into a water sample. Conductivity measurements are temperature-compensated to 25°C.
pH by Meter	E108 ALS Environmental - Waterloo	Water	APHA 4500-H (mod)	pH is determined by potentiometric measurement with a pH electrode, and is conducted at ambient laboratory temperature (normally $20 \pm 5^\circ\text{C}$). For high accuracy test results, pH should be measured in the field within the recommended 15 minute hold time.
Turbidity by Nephelometry	E121 ALS Environmental - Waterloo	Water	APHA 2130 B (mod)	Turbidity is measured by the nephelometric method, by measuring the intensity of light scatter under defined conditions.
TDS by Gravimetry	E162 ALS Environmental - Waterloo	Water	APHA 2540 C (mod)	Total Dissolved Solids (TDS) are determined by filtering a sample through a glass fibre filter, with evaporation of the filtrate at $180 \pm 2^\circ\text{C}$ for 16 hours or to constant weight, with gravimetric measurement of the residue.
Chloride in Water by IC	E235.Cl ALS Environmental - Waterloo	Water	EPA 300.1 (mod)	Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.
Fluoride in Water by IC	E235.F ALS Environmental - Waterloo	Water	EPA 300.1 (mod)	Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.
Nitrite in Water by IC	E235.NO2 ALS Environmental - Waterloo	Water	EPA 300.1 (mod)	Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.
Nitrate in Water by IC	E235.NO3 ALS Environmental - Waterloo	Water	EPA 300.1 (mod)	Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.
Sulfate in Water by IC	E235.SO4 ALS Environmental - Waterloo	Water	EPA 300.1 (mod)	Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.
Alkalinity Species by Titration	E290 ALS Environmental - Waterloo	Water	APHA 2320 B (mod)	Total alkalinity is determined by potentiometric titration to a pH 4.5 endpoint. Bicarbonate, carbonate and hydroxide alkalinity are calculated from phenolphthalein alkalinity and total alkalinity values.



Analytical Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
Ammonia by Fluorescence	E298 ALS Environmental - Waterloo	Water	Method Fialab 100, 2018	Ammonia in water is determined by automated continuous flow analysis with membrane diffusion and fluorescence detection, after reaction with OPA (ortho-phthalaldehyde). This method is approved under US EPA 40 CFR Part 136 (May 2021)
Colour (Apparent) by Spectrometer	E330 ALS Environmental - Waterloo	Water	APHA 2120 C (mod)	Colour (Apparent) is measured in an unfiltered sample spectrophotometrically using the single wavelength method. The colour contribution of settleable solids are not included in the result. This method is intended for potable waters. Colour measurements can be highly pH dependent, and apply to the pH of the sample as received (at time of testing), without pH adjustment.
Dissolved Orthophosphate by Colourimetry (Ultra Trace Level 0.001 mg/L)	E378-U ALS Environmental - Waterloo	Water	APHA 4500-P F (mod)	Dissolved Orthophosphate is determined colourimetrically on a sample that has been lab or field filtered through a 0.45 micron membrane filter. Field filtration is recommended to ensure test results represent conditions at time of sampling.
Dissolved Metals in Water by CRC ICPMS	E421 ALS Environmental - Waterloo	Water	APHA 3030B/EPA 6020B (mod)	Water samples are filtered (0.45 um), preserved with nitric acid, and analyzed by Collision/Reaction Cell ICPMS. Method Limitation (re: Sulfur): Sulfide and volatile sulfur species may not be recovered by this method.
Dissolved Hardness (Calculated)	EC100 ALS Environmental - Waterloo	Water	APHA 2340B	"Hardness (as CaCO ₃), dissolved" is calculated from the sum of dissolved Calcium and Magnesium concentrations, expressed in CaCO ₃ equivalents. "Total Hardness" refers to the sum of Calcium and Magnesium Hardness. Hardness is normally or preferentially calculated from dissolved Calcium and Magnesium concentrations, because it is a property of water due to dissolved divalent cations.
Preparation Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
Preparation for Ammonia	EP298 ALS Environmental - Waterloo	Water		Sample preparation for Preserved Nutrients Water Quality Analysis.
Dissolved Metals Water Filtration	EP421 ALS Environmental - Waterloo	Water	APHA 3030B	Water samples are filtered (0.45 um), and preserved with HNO ₃ .

QUALITY CONTROL REPORT

Work Order	: WT2529612	Page	: 1 of 13
Client	: Bluewater Geoscience Consultants Inc.	Laboratory	: ALS Environmental - Waterloo
Contact	: Breton Lemieux	Account Manager	: Gayle Braun
Address	: 42 Shadyridge Place Kitchener ON Canada N2N 3J1	Address	: 60 Northland Road, Unit 1 Waterloo, Ontario Canada N2V 2B8
Telephone	: 519 744 4123	Telephone	: +1 519 886 6910
Project	: BG-924	Date Samples Received	: 16-Oct-2025 14:00
PO	: ----	Date Analysis Commenced	: 17-Oct-2025
C-O-C number	: ----	Issue Date	: 24-Oct-2025 17:19
Sampler	: ----		
Site	: ----		
Quote number	: SOA		
No. of samples received	: 16		
No. of samples analysed	: 16		

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Quality Control Report contains the following information:

- Laboratory Duplicate (DUP) Report; Relative Percent Difference (RPD) and Data Quality Objectives
- Matrix Spike (MS) Report; Recovery and Data Quality Objectives
- Method Blank (MB) Report; Recovery and Data Quality Objectives
- Laboratory Control Sample (LCS) Report; Recovery and Data Quality Objectives

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is conducted in accordance with US FDA 21 CFR Part 11.

Signatories	Position	Laboratory Department
Greg Pokocky	Manager - Inorganics	Waterloo Inorganics, Waterloo, Ontario
Walt Kippenhuck	Supervisor - Inorganic	Waterloo Inorganics, Waterloo, Ontario
Walt Kippenhuck	Supervisor - Inorganic	Waterloo Metals, Waterloo, Ontario



General Comments

The ALS Quality Control (QC) report is optionally provided to ALS clients upon request. ALS test methods include comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against predetermined Data Quality Objectives (DQOs) to provide confidence in the accuracy of associated test results. This report contains detailed results for all QC results applicable to this sample submission. Please refer to the ALS Quality Control Interpretation report (QCI) for applicable method references and methodology summaries.

Key :

Anonymous = Refers to samples which are not part of this work order, but which formed part of the QC process lot.

CAS Number = Chemical Abstracts Service number is a unique identifier assigned to discrete substances.

DQO = Data Quality Objective.

LOR = Limit of Reporting (detection limit).

RPD = Relative Percent Difference

= Indicates a QC result that did not meet the ALS DQO.

Workorder Comments

Holding times are displayed as "---" if no guidance exists from CCME, Canadian provinces, or broadly recognized international references.

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 Work Order : WT2529612
 Client : Bluewater Geoscience Consultants Inc.
 Project : BG-924



Laboratory Duplicate (DUP) Report

A Laboratory Duplicate (DUP) is a randomly selected intralaboratory replicate sample. Laboratory Duplicates provide information regarding method precision and sample heterogeneity. ALS DQOs for Laboratory Duplicates are expressed as test-specific limits for Relative Percent Difference (RPD), or as an absolute difference limit of 2 times the LOR for low concentration duplicates within ~ 4-10 times the LOR (cut-off is test-specific).

Sub-Matrix: Water					Laboratory Duplicate (DUP) Report						
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	LOR	Unit	Original Result	Duplicate Result	RPD(%) or Difference	Duplicate Limits	Qualifier
Physical Tests (QC Lot: 2283858)											
WT2529612-016	OW-20D	Turbidity	----	E121	0.10	NTU	44.5	44.9	0.895%	15%	----
Physical Tests (QC Lot: 2283860)											
HA2504536-001	Anonymous	Turbidity	----	E121	0.10	NTU	23.2	24.7	6.27%	15%	----
Physical Tests (QC Lot: 2285411)											
WT2529490-001	Anonymous	Conductivity	----	E100	2.0	µS/cm	2450	2450	0.00%	10%	----
Physical Tests (QC Lot: 2285412)											
WT2529490-001	Anonymous	Alkalinity, total (as CaCO ₃)	----	E290	10.0	mg/L	1160	1170	0.326%	20%	----
Physical Tests (QC Lot: 2285413)											
WT2529490-001	Anonymous	pH	----	E108	0.10	pH units	7.75	7.80	0.643%	4%	----
Physical Tests (QC Lot: 2285423)											
WT2529525-002	Anonymous	pH	----	E108	0.10	pH units	8.28	8.24	0.484%	4%	----
Physical Tests (QC Lot: 2285424)											
WT2529525-002	Anonymous	Alkalinity, total (as CaCO ₃)	----	E290	2.0	mg/L	121	123	1.20%	20%	----
Physical Tests (QC Lot: 2285425)											
WT2529525-002	Anonymous	Conductivity	----	E100	2.0	µS/cm	1000	1010	0.496%	10%	----
Physical Tests (QC Lot: 2291142)											
HA2504493-002	Anonymous	Colour, apparent	----	E330	2.0	CU	56.8	56.5	0.681%	20%	----
Physical Tests (QC Lot: 2291157)											
HA2504517-001	Anonymous	Colour, apparent	----	E330	2.0	CU	7.1	7.5	0.4	Diff <2x LOR	----
Physical Tests (QC Lot: 2294364)											
WT2529557-001	Anonymous	Solids, total dissolved [TDS]	----	E162	20	mg/L	330	338	2.40%	20%	----
Anions and Nutrients (QC Lot: 2285414)											
WT2529784-001	Anonymous	Fluoride	16984-48-8	E235.F	0.020	mg/L	<0.020	<0.020	0	Diff <2x LOR	----
Anions and Nutrients (QC Lot: 2285415)											
WT2529784-001	Anonymous	Nitrate (as N)	14797-55-8	E235.NO3	0.020	mg/L	<0.020	<0.020	0	Diff <2x LOR	----
Anions and Nutrients (QC Lot: 2285416)											
WT2529784-001	Anonymous	Nitrite (as N)	14797-65-0	E235.NO2	0.010	mg/L	<0.010	<0.010	0	Diff <2x LOR	----
Anions and Nutrients (QC Lot: 2285418)											
WT2529784-001	Anonymous	Chloride	16887-00-6	E235.Cl	0.50	mg/L	2.73	2.73	0.004	Diff <2x LOR	----
Anions and Nutrients (QC Lot: 2285419)											



Sub-Matrix: Water					Laboratory Duplicate (DUP) Report						
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	LOR	Unit	Original Result	Duplicate Result	RPD(%) or Difference	Duplicate Limits	Qualifier
Anions and Nutrients (QC Lot: 2285419) - continued											
WT2529784-001	Anonymous	Sulfate (as SO4)	14808-79-8	E235.SO4	0.30	mg/L	0.48	0.46	0.02	Diff <2x LOR	----
Anions and Nutrients (QC Lot: 2285421)											
HA2504517-001	Anonymous	Phosphate, ortho-, dissolved (as P)	14265-44-2	E378-U	0.0010	mg/L	0.0031	0.0031	0.00001	Diff <2x LOR	----
Anions and Nutrients (QC Lot: 2285427)											
WT2529525-002	Anonymous	Fluoride	16984-48-8	E235.F	0.040	mg/L	0.219	0.213	0.007	Diff <2x LOR	----
Anions and Nutrients (QC Lot: 2285428)											
WT2529525-002	Anonymous	Nitrate (as N)	14797-55-8	E235.NO3	0.040	mg/L	<0.040	<0.040	0	Diff <2x LOR	----
Anions and Nutrients (QC Lot: 2285429)											
WT2529525-002	Anonymous	Nitrite (as N)	14797-65-0	E235.NO2	0.020	mg/L	<0.020	<0.020	0	Diff <2x LOR	----
Anions and Nutrients (QC Lot: 2285430)											
WT2529525-002	Anonymous	Chloride	16887-00-6	E235.Cl	1.00	mg/L	94.0	93.8	0.252%	20%	----
Anions and Nutrients (QC Lot: 2285431)											
WT2529525-002	Anonymous	Sulfate (as SO4)	14808-79-8	E235.SO4	0.60	mg/L	262	263	0.420%	20%	----
Anions and Nutrients (QC Lot: 2285432)											
WT2529525-002	Anonymous	Phosphate, ortho-, dissolved (as P)	14265-44-2	E378-U	0.0010	mg/L	<0.0010	<0.0010	0	Diff <2x LOR	----
Anions and Nutrients (QC Lot: 2288771)											
WT2529443-007	Anonymous	Ammonia, total (as N)	7664-41-7	E298	0.0500	mg/L	0.596	0.611	2.50%	20%	----
Dissolved Metals (QC Lot: 2283609)											
WT2529612-001	OW-1	Aluminum, dissolved	7429-90-5	E421	0.0010	mg/L	<0.0010	0.0010	0.00002	Diff <2x LOR	----
		Antimony, dissolved	7440-36-0	E421	0.00010	mg/L	<0.00010	<0.00010	0	Diff <2x LOR	----
		Arsenic, dissolved	7440-38-2	E421	0.00010	mg/L	0.00026	0.00028	0.00002	Diff <2x LOR	----
		Barium, dissolved	7440-39-3	E421	0.00010	mg/L	0.0447	0.0453	1.18%	20%	----
		Beryllium, dissolved	7440-41-7	E421	0.000020	mg/L	<0.000020	<0.000020	0	Diff <2x LOR	----
		Bismuth, dissolved	7440-69-9	E421	0.000050	mg/L	<0.000050	<0.000050	0	Diff <2x LOR	----
		Boron, dissolved	7440-42-8	E421	0.010	mg/L	0.146	0.142	2.67%	20%	----
		Cadmium, dissolved	7440-43-9	E421	0.0000050	mg/L	0.0000129	0.0000100	0.0000029	Diff <2x LOR	----
		Calcium, dissolved	7440-70-2	E421	0.050	mg/L	116	115	1.09%	20%	----
		Cesium, dissolved	7440-46-2	E421	0.000010	mg/L	<0.000010	<0.000010	0	Diff <2x LOR	----
		Chromium, dissolved	7440-47-3	E421	0.00050	mg/L	<0.00050	<0.00050	0	Diff <2x LOR	----
		Cobalt, dissolved	7440-48-4	E421	0.00010	mg/L	0.00022	0.00022	0.000008	Diff <2x LOR	----
		Copper, dissolved	7440-50-8	E421	0.00020	mg/L	0.00115	0.00114	0.000006	Diff <2x LOR	----
		Iron, dissolved	7439-89-6	E421	0.010	mg/L	0.103	0.103	0.494%	20%	----
		Lead, dissolved	7439-92-1	E421	0.000050	mg/L	0.000207	0.000203	0.000005	Diff <2x LOR	----
		Lithium, dissolved	7439-93-2	E421	0.0010	mg/L	0.0032	0.0030	0.0003	Diff <2x LOR	----



Sub-Matrix: Water					Laboratory Duplicate (DUP) Report						
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	LOR	Unit	Original Result	Duplicate Result	RPD(%) or Difference	Duplicate Limits	Qualifier
Dissolved Metals (QC Lot: 2283609) - continued											
WT2529612-001	OW-1	Magnesium, dissolved	7439-95-4	E421	0.0050	mg/L	40.8	40.2	1.39%	20%	----
		Manganese, dissolved	7439-96-5	E421	0.00010	mg/L	0.0287	0.0289	0.997%	20%	----
		Molybdenum, dissolved	7439-98-7	E421	0.000050	mg/L	0.000245	0.000232	0.000013	Diff <2x LOR	----
		Nickel, dissolved	7440-02-0	E421	0.00050	mg/L	0.00110	0.00111	0.00002	Diff <2x LOR	----
		Phosphorus, dissolved	7723-14-0	E421	0.050	mg/L	<0.050	<0.050	0	Diff <2x LOR	----
		Potassium, dissolved	7440-09-7	E421	0.050	mg/L	3.24	3.25	0.339%	20%	----
		Rubidium, dissolved	7440-17-7	E421	0.00020	mg/L	0.00188	0.00185	0.00003	Diff <2x LOR	----
		Selenium, dissolved	7782-49-2	E421	0.000050	mg/L	0.000069	0.000054	0.000014	Diff <2x LOR	----
		Silicon, dissolved	7440-21-3	E421	0.050	mg/L	5.46	5.43	0.576%	20%	----
		Silver, dissolved	7440-22-4	E421	0.000010	mg/L	<0.000010	<0.000010	0	Diff <2x LOR	----
		Sodium, dissolved	7440-23-5	E421	0.050	mg/L	7.11	7.07	0.502%	20%	----
		Strontium, dissolved	7440-24-6	E421	0.00020	mg/L	0.173	0.174	0.335%	20%	----
		Sulfur, dissolved	7704-34-9	E421	0.50	mg/L	11.5	11.2	2.10%	20%	----
		Tellurium, dissolved	13494-80-9	E421	0.00020	mg/L	<0.00020	<0.00020	0	Diff <2x LOR	----
		Thallium, dissolved	7440-28-0	E421	0.000010	mg/L	0.000032	0.000031	0.000001	Diff <2x LOR	----
		Thorium, dissolved	7440-29-1	E421	0.00010	mg/L	<0.00010	<0.00010	0	Diff <2x LOR	----
		Tin, dissolved	7440-31-5	E421	0.00010	mg/L	<0.00010	<0.00010	0	Diff <2x LOR	----
		Titanium, dissolved	7440-32-6	E421	0.00030	mg/L	<0.00030	<0.00030	0	Diff <2x LOR	----
		Tungsten, dissolved	7440-33-7	E421	0.00010	mg/L	0.00012	0.00012	0.000009	Diff <2x LOR	----
		Uranium, dissolved	7440-61-1	E421	0.000010	mg/L	0.000564	0.000562	0.373%	20%	----
		Vanadium, dissolved	7440-62-2	E421	0.00050	mg/L	<0.00050	<0.00050	0	Diff <2x LOR	----
		Zinc, dissolved	7440-66-6	E421	0.0010	mg/L	0.0066	0.0064	0.0002	Diff <2x LOR	----
		Zirconium, dissolved	7440-67-7	E421	0.00020	mg/L	<0.00020	<0.00020	0	Diff <2x LOR	----



Method Blank (MB) Report

A Method Blank is an analyte-free matrix that undergoes sample processing identical to that carried out for test samples. Method Blank results are used to monitor and control for potential contamination from the laboratory environment and reagents. For most tests, the DQO for Method Blanks is for the result to be < LOR.

Sub-Matrix: Water

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Physical Tests (QCLot: 2283858)						
Turbidity	----	E121	0.1	NTU	<0.10	----
Physical Tests (QCLot: 2283860)						
Turbidity	----	E121	0.1	NTU	<0.10	----
Physical Tests (QCLot: 2285411)						
Conductivity	----	E100	1	µS/cm	1.2	----
Physical Tests (QCLot: 2285412)						
Alkalinity, total (as CaCO ₃)	----	E290	1	mg/L	<1.0	----
Physical Tests (QCLot: 2285424)						
Alkalinity, total (as CaCO ₃)	----	E290	1	mg/L	<1.0	----
Physical Tests (QCLot: 2285425)						
Conductivity	----	E100	1	µS/cm	<1.0	----
Physical Tests (QCLot: 2291142)						
Colour, apparent	----	E330	2	CU	<2.0	----
Physical Tests (QCLot: 2291157)						
Colour, apparent	----	E330	2	CU	<2.0	----
Physical Tests (QCLot: 2294364)						
Solids, total dissolved [TDS]	----	E162	10	mg/L	<10	----
Anions and Nutrients (QCLot: 2285414)						
Fluoride	16984-48-8	E235.F	0.02	mg/L	<0.020	----
Anions and Nutrients (QCLot: 2285415)						
Nitrate (as N)	14797-55-8	E235.NO3	0.02	mg/L	<0.020	----
Anions and Nutrients (QCLot: 2285416)						
Nitrite (as N)	14797-65-0	E235.NO2	0.01	mg/L	<0.010	----
Anions and Nutrients (QCLot: 2285418)						
Chloride	16887-00-6	E235.Cl	0.5	mg/L	<0.50	----
Anions and Nutrients (QCLot: 2285419)						
Sulfate (as SO ₄)	14808-79-8	E235.SO4	0.3	mg/L	<0.30	----
Anions and Nutrients (QCLot: 2285421)						
Phosphate, ortho-, dissolved (as P)	14265-44-2	E378-U	0.001	mg/L	<0.0010	----
Anions and Nutrients (QCLot: 2285427)						
Fluoride	16984-48-8	E235.F	0.02	mg/L	<0.020	----
Anions and Nutrients (QCLot: 2285428)						



Sub-Matrix: **Water**

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Anions and Nutrients (QCLot: 2285428) - continued						
Nitrate (as N)	14797-55-8	E235.NO3	0.02	mg/L	<0.020	----
Anions and Nutrients (QCLot: 2285429)						
Nitrite (as N)	14797-65-0	E235.NO2	0.01	mg/L	<0.010	----
Anions and Nutrients (QCLot: 2285430)						
Chloride	16887-00-6	E235.Cl	0.5	mg/L	<0.50	----
Anions and Nutrients (QCLot: 2285431)						
Sulfate (as SO4)	14808-79-8	E235.SO4	0.3	mg/L	<0.30	----
Anions and Nutrients (QCLot: 2285432)						
Phosphate, ortho-, dissolved (as P)	14265-44-2	E378-U	0.001	mg/L	<0.0010	----
Anions and Nutrients (QCLot: 2288771)						
Ammonia, total (as N)	7664-41-7	E298	0.005	mg/L	<0.0050	----
Dissolved Metals (QCLot: 2283609)						
Aluminum, dissolved	7429-90-5	E421	0.001	mg/L	<0.0010	----
Antimony, dissolved	7440-36-0	E421	0.0001	mg/L	<0.00010	----
Arsenic, dissolved	7440-38-2	E421	0.0001	mg/L	<0.00010	----
Barium, dissolved	7440-39-3	E421	0.0001	mg/L	<0.00010	----
Beryllium, dissolved	7440-41-7	E421	0.00002	mg/L	<0.000020	----
Bismuth, dissolved	7440-69-9	E421	0.00005	mg/L	<0.000050	----
Boron, dissolved	7440-42-8	E421	0.01	mg/L	<0.010	----
Cadmium, dissolved	7440-43-9	E421	0.000005	mg/L	<0.0000050	----
Calcium, dissolved	7440-70-2	E421	0.05	mg/L	<0.050	----
Cesium, dissolved	7440-46-2	E421	0.00001	mg/L	<0.000010	----
Chromium, dissolved	7440-47-3	E421	0.0005	mg/L	<0.00050	----
Cobalt, dissolved	7440-48-4	E421	0.0001	mg/L	<0.00010	----
Copper, dissolved	7440-50-8	E421	0.0002	mg/L	<0.00020	----
Iron, dissolved	7439-89-6	E421	0.01	mg/L	<0.010	----
Lead, dissolved	7439-92-1	E421	0.00005	mg/L	<0.000050	----
Lithium, dissolved	7439-93-2	E421	0.001	mg/L	<0.0010	----
Magnesium, dissolved	7439-95-4	E421	0.005	mg/L	<0.0050	----
Manganese, dissolved	7439-96-5	E421	0.0001	mg/L	<0.00010	----
Molybdenum, dissolved	7439-98-7	E421	0.00005	mg/L	<0.000050	----
Nickel, dissolved	7440-02-0	E421	0.0005	mg/L	<0.00050	----
Phosphorus, dissolved	7723-14-0	E421	0.05	mg/L	<0.050	----
Potassium, dissolved	7440-09-7	E421	0.05	mg/L	<0.050	----
Rubidium, dissolved	7440-17-7	E421	0.0002	mg/L	<0.00020	----



Sub-Matrix: **Water**

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Dissolved Metals (QCLot: 2283609) - continued						
Selenium, dissolved	7782-49-2	E421	0.00005	mg/L	<0.000050	----
Silicon, dissolved	7440-21-3	E421	0.05	mg/L	<0.050	----
Silver, dissolved	7440-22-4	E421	0.00001	mg/L	<0.000010	----
Sodium, dissolved	7440-23-5	E421	0.05	mg/L	<0.050	----
Strontium, dissolved	7440-24-6	E421	0.0002	mg/L	<0.00020	----
Sulfur, dissolved	7704-34-9	E421	0.5	mg/L	<0.50	----
Tellurium, dissolved	13494-80-9	E421	0.0002	mg/L	<0.00020	----
Thallium, dissolved	7440-28-0	E421	0.00001	mg/L	<0.000010	----
Thorium, dissolved	7440-29-1	E421	0.0001	mg/L	<0.00010	----
Tin, dissolved	7440-31-5	E421	0.0001	mg/L	<0.00010	----
Titanium, dissolved	7440-32-6	E421	0.0003	mg/L	<0.00030	----
Tungsten, dissolved	7440-33-7	E421	0.0001	mg/L	<0.00010	----
Uranium, dissolved	7440-61-1	E421	0.00001	mg/L	<0.000010	----
Vanadium, dissolved	7440-62-2	E421	0.0005	mg/L	<0.00050	----
Zinc, dissolved	7440-66-6	E421	0.001	mg/L	<0.0010	----
Zirconium, dissolved	7440-67-7	E421	0.0002	mg/L	<0.00020	----



Laboratory Control Sample (LCS) Report

A Laboratory Control Sample (LCS) is an analyte-free matrix that has been fortified (spiked) with test analytes at known concentration and processed in an identical manner to test samples. LCS results are expressed as percent recovery, and are used to monitor and control test method accuracy and precision, independent of test sample matrix.

Sub-Matrix: Water

					Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		
Analyte	CAS Number	Method	LOR	Unit	Target Concentration	LCS	Low	High	Qualifier
Physical Tests (QCLot: 2283858)									
Turbidity	----	E121	0.1	NTU	200 NTU	95.0	85.0	115	----
Physical Tests (QCLot: 2283860)									
Turbidity	----	E121	0.1	NTU	200 NTU	95.0	85.0	115	----
Physical Tests (QCLot: 2285411)									
Conductivity	----	E100	1	µS/cm	1410 µS/cm	99.8	90.0	110	----
Physical Tests (QCLot: 2285412)									
Alkalinity, total (as CaCO3)	----	E290	1	mg/L	150 mg/L	105	85.0	115	----
Physical Tests (QCLot: 2285413)									
pH	----	E108	----	pH units	7 pH units	101	98.0	102	----
Physical Tests (QCLot: 2285423)									
pH	----	E108	----	pH units	7 pH units	102	98.0	102	----
Physical Tests (QCLot: 2285424)									
Alkalinity, total (as CaCO3)	----	E290	1	mg/L	150 mg/L	102	85.0	115	----
Physical Tests (QCLot: 2285425)									
Conductivity	----	E100	1	µS/cm	1410 µS/cm	98.2	90.0	110	----
Physical Tests (QCLot: 2291142)									
Colour, apparent	----	E330	2	CU	25 CU	100.0	85.0	115	----
Physical Tests (QCLot: 2291157)									
Colour, apparent	----	E330	2	CU	25 CU	94.9	85.0	115	----
Physical Tests (QCLot: 2294364)									
Solids, total dissolved [TDS]	----	E162	10	mg/L	1000 mg/L	102	85.0	115	----
Anions and Nutrients (QCLot: 2285414)									
Fluoride	16984-48-8	E235.F	0.02	mg/L	1 mg/L	101	90.0	110	----
Anions and Nutrients (QCLot: 2285415)									
Nitrate (as N)	14797-55-8	E235.NO3	0.02	mg/L	2.5 mg/L	97.5	90.0	110	----
Anions and Nutrients (QCLot: 2285416)									
Nitrite (as N)	14797-65-0	E235.NO2	0.01	mg/L	0.5 mg/L	94.7	90.0	110	----
Anions and Nutrients (QCLot: 2285418)									
Chloride	16887-00-6	E235.Cl	0.5	mg/L	100 mg/L	99.8	90.0	110	----
Anions and Nutrients (QCLot: 2285419)									
Sulfate (as SO4)	14808-79-8	E235.SO4	0.3	mg/L	100 mg/L	102	90.0	110	----



Sub-Matrix: Water					Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		
Analyte	CAS Number	Method	LOR	Unit	Target Concentration	LCS	Low	High	Qualifier
Anions and Nutrients (QCLot: 2285421)									
Phosphate, ortho-, dissolved (as P)	14265-44-2	E378-U	0.001	mg/L	0.05 mg/L	93.9	80.0	120	----
Anions and Nutrients (QCLot: 2285427)									
Fluoride	16984-48-8	E235.F	0.02	mg/L	1 mg/L	101	90.0	110	----
Anions and Nutrients (QCLot: 2285428)									
Nitrate (as N)	14797-55-8	E235.NO3	0.02	mg/L	2.5 mg/L	101	90.0	110	----
Anions and Nutrients (QCLot: 2285429)									
Nitrite (as N)	14797-65-0	E235.NO2	0.01	mg/L	0.5 mg/L	99.4	90.0	110	----
Anions and Nutrients (QCLot: 2285430)									
Chloride	16887-00-6	E235.Cl	0.5	mg/L	100 mg/L	101	90.0	110	----
Anions and Nutrients (QCLot: 2285431)									
Sulfate (as SO4)	14808-79-8	E235.SO4	0.3	mg/L	100 mg/L	102	90.0	110	----
Anions and Nutrients (QCLot: 2285432)									
Phosphate, ortho-, dissolved (as P)	14265-44-2	E378-U	0.001	mg/L	0.05 mg/L	94.6	80.0	120	----
Anions and Nutrients (QCLot: 2288771)									
Ammonia, total (as N)	7664-41-7	E298	0.005	mg/L	0.2 mg/L	100	85.0	115	----
Dissolved Metals (QCLot: 2283609)									
Aluminum, dissolved	7429-90-5	E421	0.001	mg/L	0.1 mg/L	97.9	80.0	120	----
Antimony, dissolved	7440-36-0	E421	0.0001	mg/L	0.05 mg/L	93.7	80.0	120	----
Arsenic, dissolved	7440-38-2	E421	0.0001	mg/L	0.05 mg/L	96.5	80.0	120	----
Barium, dissolved	7440-39-3	E421	0.0001	mg/L	0.012 mg/L	98.1	80.0	120	----
Beryllium, dissolved	7440-41-7	E421	0.00002	mg/L	0.005 mg/L	99.6	80.0	120	----
Bismuth, dissolved	7440-69-9	E421	0.00005	mg/L	0.05 mg/L	93.9	80.0	120	----
Boron, dissolved	7440-42-8	E421	0.01	mg/L	0.05 mg/L	97.3	80.0	120	----
Cadmium, dissolved	7440-43-9	E421	0.000005	mg/L	0.005 mg/L	95.5	80.0	120	----
Calcium, dissolved	7440-70-2	E421	0.05	mg/L	2.5 mg/L	96.2	80.0	120	----
Cesium, dissolved	7440-46-2	E421	0.00001	mg/L	0.002 mg/L	93.4	80.0	120	----
Chromium, dissolved	7440-47-3	E421	0.0005	mg/L	0.012 mg/L	94.9	80.0	120	----
Cobalt, dissolved	7440-48-4	E421	0.0001	mg/L	0.012 mg/L	93.4	80.0	120	----
Copper, dissolved	7440-50-8	E421	0.0002	mg/L	0.012 mg/L	93.2	80.0	120	----
Iron, dissolved	7439-89-6	E421	0.01	mg/L	0.05 mg/L	93.6	80.0	120	----
Lead, dissolved	7439-92-1	E421	0.00005	mg/L	0.025 mg/L	95.0	80.0	120	----
Lithium, dissolved	7439-93-2	E421	0.001	mg/L	0.012 mg/L	99.1	80.0	120	----
Magnesium, dissolved	7439-95-4	E421	0.005	mg/L	2.5 mg/L	95.1	80.0	120	----
Manganese, dissolved	7439-96-5	E421	0.0001	mg/L	0.012 mg/L	95.1	80.0	120	----
Molybdenum, dissolved	7439-98-7	E421	0.00005	mg/L	0.012 mg/L	94.7	80.0	120	----



Sub-Matrix: Water					Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		
					Target Concentration	LCS	Low	High	Qualifier
Analyte	CAS Number	Method	LOR	Unit	Target Concentration	LCS	Low	High	Qualifier
Dissolved Metals (QCLot: 2283609) - continued									
Nickel, dissolved	7440-02-0	E421	0.0005	mg/L	0.025 mg/L	93.0	80.0	120	----
Phosphorus, dissolved	7723-14-0	E421	0.05	mg/L	0.5 mg/L	98.5	80.0	120	----
Potassium, dissolved	7440-09-7	E421	0.05	mg/L	2.5 mg/L	96.6	80.0	120	----
Rubidium, dissolved	7440-17-7	E421	0.0002	mg/L	0.005 mg/L	93.9	80.0	120	----
Selenium, dissolved	7782-49-2	E421	0.00005	mg/L	0.05 mg/L	92.0	80.0	120	----
Silicon, dissolved	7440-21-3	E421	0.05	mg/L	0.5 mg/L	95.6	60.0	140	----
Silver, dissolved	7440-22-4	E421	0.00001	mg/L	0.005 mg/L	93.0	80.0	120	----
Sodium, dissolved	7440-23-5	E421	0.05	mg/L	2.5 mg/L	96.2	80.0	120	----
Strontium, dissolved	7440-24-6	E421	0.0002	mg/L	0.012 mg/L	96.5	80.0	120	----
Sulfur, dissolved	7704-34-9	E421	0.5	mg/L	2.5 mg/L	97.5	80.0	120	----
Tellurium, dissolved	13494-80-9	E421	0.0002	mg/L	0.005 mg/L	91.4	80.0	120	----
Thallium, dissolved	7440-28-0	E421	0.00001	mg/L	0.05 mg/L	94.8	80.0	120	----
Thorium, dissolved	7440-29-1	E421	0.0001	mg/L	0.005 mg/L	86.9	80.0	120	----
Tin, dissolved	7440-31-5	E421	0.0001	mg/L	0.025 mg/L	93.8	80.0	120	----
Titanium, dissolved	7440-32-6	E421	0.0003	mg/L	0.012 mg/L	92.1	80.0	120	----
Tungsten, dissolved	7440-33-7	E421	0.0001	mg/L	0.005 mg/L	90.2	80.0	120	----
Uranium, dissolved	7440-61-1	E421	0.00001	mg/L	0 mg/L	94.2	80.0	120	----
Vanadium, dissolved	7440-62-2	E421	0.0005	mg/L	0.025 mg/L	95.0	80.0	120	----
Zinc, dissolved	7440-66-6	E421	0.001	mg/L	0.025 mg/L	94.0	80.0	120	----
Zirconium, dissolved	7440-67-7	E421	0.0002	mg/L	0.005 mg/L	90.7	80.0	120	----



Matrix Spike (MS) Report

A Matrix Spike (MS) is a randomly selected intra-laboratory replicate sample that has been fortified (spiked) with test analytes at known concentration, and processed in an identical manner to test samples. Matrix Spikes provide information regarding analyte recovery and potential matrix effects. MS DQO exceedances due to sample matrix may sometimes be unavoidable; in such cases, test results for the associated sample (or similar samples) may be subject to bias. ND – Recovery not determined, background level >= 1x spike level.

Laboratory sample ID					Matrix Spike (MS) Report					
					Spike		Recovery (%)	Recovery Limits (%)		Qualifier
					Concentration	Target	MS	Low	High	
Client sample ID	Analyte	CAS Number	Method							
Anions and Nutrients (QCLot: 2285414)										
WT2529784-001	Anonymous	Fluoride	16984-48-8	E235.F	0.926 mg/L	1 mg/L	92.6	75.0	125	----
Anions and Nutrients (QCLot: 2285415)										
WT2529784-001	Anonymous	Nitrate (as N)	14797-55-8	E235.NO3	2.40 mg/L	2.5 mg/L	95.9	75.0	125	----
Anions and Nutrients (QCLot: 2285416)										
WT2529784-001	Anonymous	Nitrite (as N)	14797-65-0	E235.NO2	0.463 mg/L	0.5 mg/L	92.6	75.0	125	----
Anions and Nutrients (QCLot: 2285418)										
WT2529784-001	Anonymous	Chloride	16887-00-6	E235.Cl	96.5 mg/L	100 mg/L	96.5	75.0	125	----
Anions and Nutrients (QCLot: 2285419)										
WT2529784-001	Anonymous	Sulfate (as SO4)	14808-79-8	E235.SO4	97.9 mg/L	100 mg/L	97.9	75.0	125	----
Anions and Nutrients (QCLot: 2285421)										
HA2504517-001	Anonymous	Phosphate, ortho-, dissolved (as P)	14265-44-2	E378-U	0.0192 mg/L	0.02 mg/L	97.7	70.0	130	----
Anions and Nutrients (QCLot: 2285427)										
WT2529525-002	Anonymous	Fluoride	16984-48-8	E235.F	1.91 mg/L	2 mg/L	95.3	75.0	125	----
Anions and Nutrients (QCLot: 2285428)										
WT2529525-002	Anonymous	Nitrate (as N)	14797-55-8	E235.NO3	4.89 mg/L	5 mg/L	97.8	75.0	125	----
Anions and Nutrients (QCLot: 2285429)										
WT2529525-002	Anonymous	Nitrite (as N)	14797-65-0	E235.NO2	0.968 mg/L	1 mg/L	96.8	75.0	125	----
Anions and Nutrients (QCLot: 2285430)										
WT2529525-002	Anonymous	Chloride	16887-00-6	E235.Cl	197 mg/L	200 mg/L	98.4	75.0	125	----
Anions and Nutrients (QCLot: 2285431)										
WT2529525-002	Anonymous	Sulfate (as SO4)	14808-79-8	E235.SO4	ND mg/L	----	ND	75.0	125	----
Anions and Nutrients (QCLot: 2285432)										
WT2529525-002	Anonymous	Phosphate, ortho-, dissolved (as P)	14265-44-2	E378-U	0.0196 mg/L	0.02 mg/L	100	70.0	130	----
Anions and Nutrients (QCLot: 2288771)										
WT2529443-007	Anonymous	Ammonia, total (as N)	7664-41-7	E298	ND mg/L	----	ND	75.0	125	----
Dissolved Metals (QCLot: 2283609)										
WT2529612-002	OW-2S	Aluminum, dissolved	7429-90-5	E421	0.0984 mg/L	0.1 mg/L	98.4	70.0	130	----
		Antimony, dissolved	7440-36-0	E421	0.0498 mg/L	0.05 mg/L	99.6	70.0	130	----
		Arsenic, dissolved	7440-38-2	E421	0.0561 mg/L	0.05 mg/L	112	70.0	130	----
		Barium, dissolved	7440-39-3	E421	ND mg/L	----	ND	70.0	130	----
		Beryllium, dissolved	7440-41-7	E421	0.00524 mg/L	0.005 mg/L	105	70.0	130	----



Sub-Matrix: Water					Matrix Spike (MS) Report					
					Spike		Recovery (%)	Recovery Limits (%)		
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	Concentration	Target	MS	Low	High	Qualifier
Dissolved Metals (QCLot: 2283609) - continued										
WT2529612-002	OW-2S	Bismuth, dissolved	7440-69-9	E421	0.0411 mg/L	0.05 mg/L	82.2	70.0	130	----
		Boron, dissolved	7440-42-8	E421	ND mg/L	----	ND	70.0	130	----
		Cadmium, dissolved	7440-43-9	E421	0.00477 mg/L	0.005 mg/L	95.4	70.0	130	----
		Calcium, dissolved	7440-70-2	E421	ND mg/L	----	ND	70.0	130	----
		Cesium, dissolved	7440-46-2	E421	0.00246 mg/L	0.002 mg/L	98.5	70.0	130	----
		Chromium, dissolved	7440-47-3	E421	0.0120 mg/L	0.012 mg/L	95.8	70.0	130	----
		Cobalt, dissolved	7440-48-4	E421	0.0115 mg/L	0.012 mg/L	92.1	70.0	130	----
		Copper, dissolved	7440-50-8	E421	0.0110 mg/L	0.012 mg/L	88.2	70.0	130	----
		Iron, dissolved	7439-89-6	E421	ND mg/L	----	ND	70.0	130	----
		Lead, dissolved	7439-92-1	E421	0.0231 mg/L	0.025 mg/L	92.5	70.0	130	----
		Lithium, dissolved	7439-93-2	E421	0.0128 mg/L	0.012 mg/L	102	70.0	130	----
		Magnesium, dissolved	7439-95-4	E421	ND mg/L	----	ND	70.0	130	----
		Manganese, dissolved	7439-96-5	E421	ND mg/L	----	ND	70.0	130	----
		Molybdenum, dissolved	7439-98-7	E421	0.0128 mg/L	0.012 mg/L	103	70.0	130	----
		Nickel, dissolved	7440-02-0	E421	0.0224 mg/L	0.025 mg/L	89.6	70.0	130	----
		Phosphorus, dissolved	7723-14-0	E421	0.576 mg/L	0.5 mg/L	115	70.0	130	----
		Potassium, dissolved	7440-09-7	E421	2.41 mg/L	2.5 mg/L	96.6	70.0	130	----
		Rubidium, dissolved	7440-17-7	E421	0.00510 mg/L	0.005 mg/L	102	70.0	130	----
		Selenium, dissolved	7782-49-2	E421	0.0513 mg/L	0.05 mg/L	102	70.0	130	----
		Silicon, dissolved	7440-21-3	E421	ND mg/L	----	ND	70.0	130	----
		Silver, dissolved	7440-22-4	E421	0.00402 mg/L	0.005 mg/L	80.4	70.0	130	----
		Sodium, dissolved	7440-23-5	E421	ND mg/L	----	ND	70.0	130	----
		Strontium, dissolved	7440-24-6	E421	ND mg/L	----	ND	70.0	130	----
		Sulfur, dissolved	7704-34-9	E421	ND mg/L	----	ND	70.0	130	----
		Tellurium, dissolved	13494-80-9	E421	0.00459 mg/L	0.005 mg/L	91.9	70.0	130	----
		Thallium, dissolved	7440-28-0	E421	0.0470 mg/L	0.05 mg/L	94.0	70.0	130	----
		Thorium, dissolved	7440-29-1	E421	0.00443 mg/L	0.005 mg/L	88.7	70.0	130	----
		Tin, dissolved	7440-31-5	E421	0.0246 mg/L	0.025 mg/L	98.2	70.0	130	----
		Titanium, dissolved	7440-32-6	E421	0.0124 mg/L	0.012 mg/L	99.1	70.0	130	----
		Tungsten, dissolved	7440-33-7	E421	0.00468 mg/L	0.005 mg/L	93.6	70.0	130	----
		Uranium, dissolved	7440-61-1	E421	ND mg/L	----	ND	70.0	130	----
		Vanadium, dissolved	7440-62-2	E421	0.0249 mg/L	0.025 mg/L	99.5	70.0	130	----
		Zinc, dissolved	7440-66-6	E421	0.0221 mg/L	0.025 mg/L	88.6	70.0	130	----
		Zirconium, dissolved	7440-67-7	E421	0.00492 mg/L	0.005 mg/L	98.4	70.0	130	----



2

Canada Toll Free: 1 800 668 9878

Page 1 of 7

Environmental Division
Waterloo
Work Order Reference
WT2529612

[illegible]

[illegible]

Denise Holmes

From: Fred Simpson <fred.simpson@townofmono.com>
Sent: Friday, February 13, 2026 11:11 AM
To: babrady-co@ola.org; mschreiner@ola.org
Cc: sylvia.jones@pc.ola.org; resolutions@amo.on.ca; info@ontariofarmlandtrust.ca; tyler.brooks@ofa.on.ca; Denise Holmes; jwilloughby@shelburne.ca; Jessica Kennedy; Meghan Townsend; Michelle Dunne; Nicole Martin; rmartell@orangeville.ca; Roseann Knechtel
Subject: Bill 21 – Protect our Food Act
Attachments: VII.9 Town of Orangeville Resolution, Bill 21 - Protect our Food Act.pdf

Council for the Town of Mono supports and endorses the resolution passed by the Town of Orangeville supporting Bill 21, Protect Our Food Act, 2025.

Resolution #9-3-2026

Moved by Melinda Davie, Seconded by Ralph Manktelow

THAT Council for the Town of Mono supports and endorses the resolution passed by the Town of Orangeville and likewise expresses its support of Bill 21 to establish a foodbelt protection plan.

"Carried"

Fred Simpson

Clerk

Town of Mono

519.941.3599, 234



This email and any files transmitted with it are confidential and intended solely for the use of the individual or entity to whom they are addressed. If you have received this email in error please notify fred.simpson@townofmono.com.

January 29, 2026

Chris Gerrits, Mayor, Township of Amaranth, cgerrits@amaranth.ca
Guy Gardhouse, Mayor, Township of East Garafraxa, ggardhouse@eastgarafraxa.ca
Steve Soloman, Mayor, Town of Grand Valley, ssoloman@townofgrandvalley.ca
Darren White, Mayor, Township of Melancthon, dwhite@melancthontownship.ca
John Creelman, Mayor, Town of Mono, john.creelman@townofmono.com
Janet Horner, Mayor, Township of Mulmur, jhorner@mulmur.ca
Wade Mills, Mayor, Town of Shelburne, mayor@shelburne.ca

Sent via email

Subject: Town of Orangeville resolution re: Bill 21 – Protect our Food Act

The Council of the Corporation of the Town of Orangeville express their support of Bill 21 – Protect our Food Act and the establishment of a foodbelt. The following resolution was passed at their January 26, 2026 Council meeting. You are receiving this letter as the Town of Orangeville has requested additional support from your municipality.

Resolution Number: 2026-005

Moved by: Councillor Prendergast

Seconded by: Councillor Andrews

Whereas Ontario's Farmers play a vital role in sustaining food security, strengthening the economy, supporting rural communities and stewarding the land that feeds Ontarians; and

Whereas we must recognize that both food security – the ability of individuals to access adequate nourishment – and food sovereignty – the capacity of a country to meet its own food needs – are critical components of national security; and

Whereas Bill 21 was introduced to the Ontario Legislature by MPP Bobby Ann Brady and MPP Mike Schreiner to protect Ontario farmland through the establishment of a food belt; and

Whereas Ontario is losing approximately 319 acres of farmland every day; and

Whereas the Provincial Planning Statement is intended to safeguard farmland, recognizing it as vital for food security and the economy; and

Whereas Bill 21 would make farmlands within a designated food belt permanently protected from development; and

Whereas Bill 21 could improve land-use planning, improve soil health and encourage all farmland to be used in the production of food; and

Whereas the Agri-food sector contributes to Ontario's Gross Domestic Product (over \$50 billion dollars) exceeding 900,000 jobs in Ontario; and

Whereas Bill 21 is supported by the Ontario Farmland Trust, the Ontario Federation of Agriculture, the Christian Farmers and the National Farmers Union, demonstrating sector wide support within the provinces farming community; and

Whereas Ontario relies significantly on the U.S. for produce including fruits and vegetables due to its seasonal climate, resulting in an existing challenge that Ontarian's face in trying to strengthen its food security; and

Whereas this legislation will help to prevent further land degradation by protecting farm and arable land for future Ontarian's; and

Now therefore be it resolved that the Town of Orangeville expresses its support of Bill 21 to establish a foodbelt protection plan; and

That the foodbelt protection advisory committee be comprised of farmers, farm groups, agricultural experts, land use planners; and other persons necessary, to facilitate the implementation of the plan; and

That the Town of Orangeville request that this resolution be circulated the municipalities within Dufferin County for their support; and

That this resolution be circulated to the Honourable Bobbi Anne Brady, MPP Haldimand-Norfolk, the Honourable Mike Schreiner, Leader of the Green Party of Ontario and MPP Guelph, the Honourable Sylvia Jones, MPP Dufferin-Caledon, the Association of Municipalities of Ontario, the Rural Ontario Municipalities Association, the Ontario Farmland Trust, the Ontario Federation of Agriculture, the Christian Farmers, and the National Union of Farmers.

Carried

If you have any questions, please contact clerk@orangeville.ca.

Sincerely,

Lisa Post
Mayor
Town of Orangeville



February 13, 2026

Town of Orangeville
87 Broadway
Orangeville ON L9W 1K1

At its regular meeting on February 12, 2026, Dufferin County Council passed the following resolution:

THAT Council support the Town of Orangeville resolution regarding *Bill 21 – Protect Our Food Act*.

Thank you,

Michelle Dunne

Michelle Dunne
Clerk

Attachment Town of Orangeville Resolution – January 29, 2026

Cc Syliva Jones, Dufferin-Caledon MPP
Local Municipalities



INFO 4
MAR 5 2026

January 29, 2026

Chris Gerrits, Mayor, Township of Amaranth, cgerrits@amaranth.ca
Guy Gardhouse, Mayor, Township of East Garafraxa, ggardhouse@eastgarafraxa.ca
Steve Soloman, Mayor, Town of Grand Valley, ssoloman@townofgrandvalley.ca
Darren White, Mayor, Township of Melancthon, dwhite@melancthontownship.ca
John Creelman, Mayor, Town of Mono, john.creelman@townofmono.com
Janet Horner, Mayor, Township of Mulmur, jhorner@mulmur.ca
Wade Mills, Mayor, Town of Shelburne, mayor@shelburne.ca

Sent via email

Subject: Town of Orangeville resolution re: Bill 21 – Protect our Food Act

The Council of the Corporation of the Town of Orangeville express their support of Bill 21 – Protect our Food Act and the establishment of a foodbelt. The following resolution was passed at their January 26, 2026 Council meeting. You are receiving this letter as the Town of Orangeville has requested additional support from your municipality.

Resolution Number: 2026-005

Moved by: Councillor Prendergast

Seconded by: Councillor Andrews

Whereas Ontario's Farmers play a vital role in sustaining food security, strengthening the economy, supporting rural communities and stewarding the land that feeds Ontarians; and

Whereas we must recognize that both food security – the ability of individuals to access adequate nourishment – and food sovereignty – the capacity of a country to meet its own food needs – are critical components of national security; and

Whereas Bill 21 was introduced to the Ontario Legislature by MPP Bobby Ann Brady and MPP Mike Schreiner to protect Ontario farmland through the establishment of a food belt; and

Whereas Ontario is losing approximately 319 acres of farmland every day; and

Whereas the Provincial Planning Statement is intended to safeguard farmland, recognizing it as vital for food security and the economy; and

Whereas Bill 21 would make farmlands within a designated food belt permanently protected from development; and

Whereas Bill 21 could improve land-use planning, improve soil health and encourage all farmland to be used in the production of food; and

Whereas the Agri-food sector contributes to Ontario's Gross Domestic Product (over \$50 billion dollars) exceeding 900,000 jobs in Ontario; and

Whereas Bill 21 is supported by the Ontario Farmland Trust, the Ontario Federation of Agriculture, the Christian Farmers and the National Farmers Union, demonstrating sector wide support within the provinces farming community; and

Whereas Ontario relies significantly on the U.S. for produce including fruits and vegetables due to its seasonal climate, resulting in an existing challenge that Ontarian's face in trying to strengthen its food security; and

Whereas this legislation will help to prevent further land degradation by protecting farm and arable land for future Ontarian's; and

Now therefore be it resolved that the Town of Orangeville expresses its support of Bill 21 to establish a foodbelt protection plan; and

That the foodbelt protection advisory committee be comprised of farmers, farm groups, agricultural experts, land use planners; and other persons necessary, to facilitate the implementation of the plan; and

That the Town of Orangeville request that this resolution be circulated the municipalities within Dufferin County for their support; and

That this resolution be circulated to the Honourable Bobbi Anne Brady, MPP Haldimand-Norfolk, the Honourable Mike Schreiner, Leader of the Green Party of Ontario and MPP Guelph, the Honourable Sylvia Jones, MPP Dufferin-Caledon, the Association of Municipalities of Ontario, the Rural Ontario Municipalities Association, the Ontario Farmland Trust, the Ontario Federation of Agriculture, the Christian Farmers, and the National Union of Farmers.

Carried

If you have any questions, please contact clerk@orangeville.ca.

Sincerely,

Lisa Post
Mayor
Town of Orangeville



MEDIA RELEASE

FOR IMMEDIATE RELEASE

Modernized System & Hard Work brings NVCA review timelines from 20 days down to 17 days

UTOPIA, Ontario (February 11, 2026) – The Nottawasaga Valley Conservation Authority (NVCA) has plenty to celebrate heading into 2026. After more than a year of refining processes and modernization, the results speak for themselves. In 2025, a total of 435 permits were issued with an average time of just 17 days, down from 20 days in 2024.

Efficiency remained a strong focus throughout the year, driven by modernization efforts and process improvements introduced in early 2025. This included introducing an e-permitting platform and implementing a triage system that allows straightforward permits to move efficiently, while complex or higher-risk applications receive the thorough technical assessment they require.

"I'm extremely proud of our team, this was no small feat," said Jennifer Vincent, CAO of NVCA. "It shows how committed our staff are to efficient, high-quality service driven by science, experience, and local insight. Our new e-permitting system and triage process has transformed how quickly and effectively we can support our municipalities, developers, and residents to grow our communities safely and sustainably. And we're not stopping here – our next e-permitting platform update will soon allow applicants to track their application status in real-time. We're entering 2026 with real momentum and a continued focus on delivering efficient, transparent, and responsible service across the watershed."

Under the *Conservation Authorities Act*, conservation authorities are responsible for protecting homes, infrastructure, and communities from natural hazards such as flooding and erosion. Permits are required whenever development or other regulated activities take place in or near natural hazard areas to ensure people, property, and infrastructure are protected.

Applications are categorized as either major or minor based on the level of risk and complexity involved. Major permit applications require a more detailed technical review for activities such as constructing buildings, significant grade alterations, or interfering with wetlands. Minor permit applications involve lower-risk activities – such as pools, patio, and minor grading – and do not have the same technical information requirements and can be reviewed more quickly.

About NVCA: The Nottawasaga Valley Conservation Authority is a public agency dedicated to the preservation of a healthy environment through specialized programs to protect, conserve and enhance our water, wetlands, forests and lands.

Media contact: Maria Leung, Senior Communications Specialist at 705-424-1479 ext.254, mleung@nvca.on.ca



Denise Holmes

From: Fred Simpson <fred.simpson@townofmono.com>
Sent: Friday, February 13, 2026 10:52 AM
To: minister.mecp@ontario.ca
Cc: sylvia.jones@pc.ola.org; resolutions@amo.on.ca; roma@roma.on.ca; info@otda.com; communications@rpra.ca; info@trca.ca; info@cvc.ca; admin@nvca.on.ca; Denise Holmes; jwilloughby@shelburne.ca; Jessica Kennedy; Meghan Townsend; Michelle Dunne; Nicole Martin; rmartell@orangeville.ca; Roseann Knechtel
Subject: Scrap Tire Disposal
Attachments: VII.8 Dufferin County Resolution, Scrap Tire Disposal.pdf

Council for the Town of Mono supports and endorses the resolution passed by Dufferin County regarding scrap tire disposal.

Resolution #10-3-2026

Moved by Melinda Davie, Seconded by John Creelman

THAT Council for the Town of Mono supports and endorses the resolution passed by Dufferin County calling on the province to take actions to stabilize the tire recycling system and protect rural communities from environmental and public-safety risks.

"Carried"

Fred Simpson

Clerk

Town of Mono

519.941.3599, 234



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January 26, 2026

The Honourable Doug Ford, Premier of Ontario
Legislative Building
Queen's Park
Toronto ON M7A 1A1

Dear Honourable Doug Ford:

At its regular meeting on January 22, 2026, Dufferin County Council passed the following resolution:

WHEREAS Dufferin County residents and businesses depend on reliable access to scrap tire disposal services to prevent illegal dumping, fire hazards, and environmental harm;

AND WHEREAS the Province's transition to a Producer Responsibility system requires tire manufacturers to meet annual collection obligations through Producer Responsibility Organizations (PROs);

AND WHEREAS multiple PROs have recently met their annual quotas and are now slowing or pausing scrap tire pickups across Ontario, creating widespread service disruptions;

AND WHEREAS rural communities such as Dufferin County are at heightened risk of stockpiling, non-compliance, and illegal dumping due to limited disposal options;

AND WHEREAS consumers have already paid tire recycling and environmental fees at the time of purchase, yet are now experiencing reduced or unavailable access to the very disposal services those fees were intended to support;

THEREFORE BE IT RESOLVED THAT

- 1. Dufferin County Council express serious concern regarding the instability of Ontario's scrap tire recycling system under the current Producer Responsibility framework.**
- 2. Council request that the Ministry of the Environment, Conservation and Parks (MECP) conduct an immediate review of the tire recycling program**

and take steps to ensure year-round, province-wide collection services—particularly in rural areas like Dufferin County.

- 3. Council request that the Resource Productivity and Recovery Authority (RPRA) investigate whether PROs' service reductions comply with their regulatory obligations and take enforcement action where necessary.**
- 4. Council urge the Province to implement temporary stabilization measures, including mandating minimum year-round pickup capacity and establishing contingency plans to prevent illegal dumping and environmental risk.**
- 5. Council direct staff to share this motion with all local municipalities within Dufferin County, Dufferin–Caledon's Member of Provincial Parliament (MPP), the Ontario Tire Dealers Association (OTDA), the Association of Municipalities of Ontario (AMO), the Rural Ontario Municipal Association (ROMA), Local Conservation Authorities, the Resource Productivity and Recovery Authority (RPRA), other Ontario municipalities**
- 6. Council direct staff to monitor any local impacts resulting from service disruptions and report back as necessary;**

BE IT FURTHER RESOLVED THAT the Province be requested to report back on actions taken to stabilize the tire recycling system and protect rural communities from environmental and public-safety risks.

Thank you,

Michelle Dunne

Michelle Dunne
Clerk

Cc Ministry of the Environment, Conservation and Parks
 Syliva Jones, Dufferin-Caledon MPP
 Resource Productivity and Recovery Authority
 Ontario Tire Dealers Association
 AMO
 ROMA
 Conservation Authorities - NVCA, SVCA, CVCA, GRCA, TRCA
 Dufferin Clerks

Denise Holmes

From: Kim Fraser <kfraser@shelburne.ca>
Sent: Friday, February 13, 2026 3:39 PM
To: Carey Holmes; Maryon English; Nicole Martin; Catherine Goustos; Denise Holmes; Sarah Culshaw; clerksoffice@townofmono.com; Alice Byl
Subject: CDRC 2026 Approved Budget
Attachments: 2026 Approved CDRC Budget_ Jan 28.pdf

Hello,

For your review, please find attached the CDRC 2026 Budget document approved at the CDRC Board meeting held January 28, 2026

The following motion was presented:

Motion – Moved by V. Paan seconded by C. Gerrits

Be it resolved that the 2026 CDRC draft budget presented at the January 28, 2026 Board Meeting with an operating and capital deficit of \$609,000.00 and municipal contribution of \$604,075.00 be adopted. And that a copy of the budget be sent to all member municipalities.

Carried

Please let me know if you have any questions

Kind regards,

Kim Fraser

Facility Administration Manager

Centre Dufferin Recreation Complex
200 Fiddle Park Lane, Shelburne ON
L9V 3C9
519.925.2400 Ext #22
kfraser@shelburne.ca

CDRC 2026 APPROVED BUDGET (Approved at Board Meeting January 28 2026)

Description	2026 BUDGET	2025 BUDGET	2025 EST ACT	2024 BUDGET	2024 ACT	26 VS 25 BGT	25 EST VS 24 ACT
Ice Rentals	\$262,000	\$261,928	\$244,556	\$257,390	\$251,713	0%	-3%
Floor Rental	\$17,500	\$17,139	\$18,017	\$15,628	\$18,371	2%	-2%
Advertising	\$15,000	\$15,000	\$12,266	\$13,600	\$13,229	0%	-7%
Room Rental	\$25,000	\$21,040	\$27,271	\$15,285	\$24,863	19%	10%
Concession Sales	\$80,000	\$75,750	\$78,610	\$66,250	\$87,993	6%	-11%
Pool Fees	\$123,500	\$123,792	\$126,589	\$124,075	\$117,469	0%	8%
Recreation Programs	\$191,000	\$191,894	\$181,715	\$183,332	\$193,218	0%	-6%
Miscellaneous	\$0	\$60	\$265	\$180	\$105	-100%	151%
Grants	\$12,000	\$12,000	\$38,184	\$10,000	\$27,490	0%	39%
Total Operating Revenue	\$726,000	\$718,603	\$727,473	\$685,740	\$734,451	1%	-1%
Payroll	\$658,000	\$657,864	\$612,047	\$653,303	\$577,324	0%	6%
Benefits / Source Dedns	\$100,000	\$94,550	\$100,619	\$110,752	\$93,531	6%	8%
Maintenance	\$150,000	\$132,350	\$149,340	\$110,819	\$130,337	13%	15%
Utilities	\$145,000	\$151,400	\$155,403	\$154,789	\$144,714	-4%	7%
Vending	\$40,000	\$36,650	\$40,315	\$33,500	\$42,804	9%	-6%
Rec Programs	\$22,000	\$20,985	\$22,134	\$18,985	\$16,802	5%	32%
Admin	\$73,000	\$63,648	\$70,175	\$63,264	\$56,512	15%	24%
Total Operating Expense	\$1,188,000	\$1,157,447	\$1,150,034	\$1,145,412	\$1,062,024	3%	8%
Operating (Gain)/Loss	\$462,000	\$438,844	\$422,561	\$459,672	\$327,572	5%	29%
Capital Expense	\$147,000	\$122,700	\$78,520	\$110,000	\$115,807	20%	-32%
Capital Grants	\$0	\$0	\$0	\$0	\$0	0%	0%
Total Capital Expense	\$147,000	\$122,700	\$78,520	\$110,000	\$115,807	20%	-32%
Total Opr & Captl (Gain)/Loss	\$609,000	\$561,544	\$501,081	\$569,672	\$443,379	8%	13%
Municipal Contribution	\$604,075	\$559,330	\$559,330	\$532,695	\$532,695	8%	5%
Total (Gain) / Loss	\$4,925	\$2,214	-\$58,249	\$36,977	-\$89,316		

Opening Reserve Balance	\$309	\$241	\$251	\$96	\$161
Current Year (Gain) / Loss	\$5	\$2	-\$58	\$37	-\$89
Closing Reserve Balance	\$304	\$239	\$309	\$59	\$251

2026 Assumptions:

2% rental rate increase on floor rentals and programs and on ice rentals starting in September

2% wage increase based upon Town of Shelburne increase (historical method of determining wage rate increases)

Descriptions	Actual	BUDGET	EST YTD	BUDGET								
	2024	2025	2025	2026	2027	2028	2029	2030	2031	2032	2033	Beyond
Usage study												
logo design		2500	1017									
play ground equipment for day camp												
electronic road sign		5000	0	5000								
Trusses	13060											
Arena roof	26522											
Man doors		10000	7550	5000								
other roofs												250000
Install large roll up door remove bifold							50000					
EV charging stations 2 stations									12000			
Storage and storage management		4250				40000						
Electric Olympia door		4500										
Roof HVAC unit original												60000
Electric control panel-refrigeration room				35000								
walking track modify time box player beanches		3000										
front sliding door												
T&C Mens's Bathroom update (urinals, sinks, fawcets)		3000	2674						25000			
Rubber floor arena \$5.00 sq ft 8000 sq ft									35000			40000
boiler 1 Dressing room 3	12913											
Boiler 2 dressing room 3		12000	11987									
Main boiler		15000	16078									
Upstairs boiler				26000								
Pumps circulation												
Water softener-replace	9607											
Walking track colapsible time keepers box												
Steel trusses clean /paint (as per sba preventive maintenance)						68000						
Lighting retro fit fluorescent phase out by 2026 ???					5000							
Arena sound system (end of life obsolete)		5000	6127	4000								

rentals ice skates or roller blades		5000										
Event lighting		2000										
Office equipment replacement, lap tops	4767											
Appliance replacement (kitchens)		1200	916		3000							
Tables replacements plastic folding												
Lighting retro fit fluorescent phase out by 2026					5000		5000					
fridge for staff ice and water for summer staff		1200	1626									
New phone system		2000	1203									
Computer and monitor for admin position/kiosk computer			3150									
Aruba switch replacement IT			2632									
New floor scrubber			7276									
T&C Bathroom - new sinks, faucets, urinal valve			2674									
Roof project - final engineering costs			6883									
Capital (not yet identified) or bring item forward		13550		10000	15000	15000	15000	15000	15000	15000	15000	
	115807	122700	78330	147000	139000	198000	145000	115000	87000	171750	115000	

The Corporation of the Township of Melancthon

By-Law Number _____ - 2026

“STEWART DRAINAGE WORKS,
MAINTENANCE LEVYING BY-LAW”

A by-law to provide for the levying of the costs
resulting from the maintenance and repair of the
Stewart Drainage Works

WHEREAS owners, under Section 79 of the Drainage Act, R.S.O. 1990, c. D.17 (the Act), have notified the Township of Melancthon of the deteriorating conditions of the Stewart Drainage Works (the Drain);

AND WHEREAS under Section 74 of the Act, it is the duty of the Township of Melancthon to maintain and repair those parts of the Drain lying within its limits;

AND WHEREAS the Drain has been constructed under By-Law No. 32-1993 of the Township of Melancthon;

AND WHEREAS the Council of the Township of Melancthon, pursuant to the recommendations made by the Township’s Drainage Superintendent, has ordered certain maintenance and repair work to be performed on the Stewart Drainage Works under the supervision and to the satisfaction of the Drainage Superintendent.

AND WHEREAS the work has now been completed

AND WHEREAS the cost of the work is \$72,621.02

AND WHEREAS the amount of grant expected is \$20,794.67

AND WHEREAS the amount to be raised is \$51,826.35

NOW THEREFORE the Council of the Township of Melancthon enacts as follows:

- 1. The assessments shall be imposed in accordance with Section 74 of the Act and in proportion to the governing By-Law No. 32-1993.
- 2. The amount of \$51,826.35 necessary to be raised for such work, shall be made a cash assessment upon the upstream lands and roads affected, as shown in the attached Schedule A, with interest at the rate set for collecting taxes in arrears being added after the date payment is called on the same.
- 3. This By-Law shall be cited as the “Stewart Drainage Works, Maintenance Levying By-Law”.
- 4. That this By-Law shall come into force and take effect upon passing thereof.

READ A FIRST, SECOND AND THIRD TIME AND FINALLY PASSED THIS _____ DAY OF _____, 2026.

MAYOR

CAO/CLERK

CORPORATION OF THE TOWNSHIP OF MELANCTHON
BY-LAW NUMBER -2026

**A BY-LAW TO AMEND BY-LAW 50-2024 BEING A BY-LAW TO AUTHORIZE THE
USE OF ALTERNATIVE VOTING METHODS (TELEPHONE AND INTERNET) FOR
THE 2026 SCHOOL BOARD AND MUNICIPAL ELECTION**

WHEREAS Section 42 of the Municipal Elections Act, 1996, S.O. 1996, c. 32, as amended, (“the Act”) provides that a municipal council may pass by-laws authorizing the use of voting and vote counting equipment and electors to use an alternative voting method that does not require electors to attend a voting place in order to vote:

AND WHEREAS, Section 42(5) of the Act states that advance voting is permitted when using Alternative Voting Methods if so stated in the authorizing By-law;

AND WHEREAS, Council of the Township of Melancthon on the 12th day of December, 2024 passed By-law 50-2024 being a By-law to Authorize the Use of Internet and Televoting Voting for the 2026 School Board and Municipal Election.

BE IT THEREFORE ENACTED BY THE Municipal Council of the Corporation of the Township of Melancthon as follows:

- 1. That By-law 50-2024 is hereby amended by inserting the following:
 - 5. The voting period of internet and telephone voting will commence at 10:00 a.m. on Friday, October 16, 2026 and end at 8:00 p.m. on Election Day, Monday, October 26, 2026.
- 2. Subsequent sections of By-law 50-2024 to be renumbered accordingly.
- 3. That this By-law shall come into force and effect on the date of the final passing thereof.

BY-LAW read a first, second and third time and passed this 5th day of March, 2026.

MAYOR

CLERK

AGREEMENT FOR THE PROVISION OF BUILDING SERVICES

This Agreement is made effective on the ____ day of _____.

B E T W E E N:

THE CORPORATION OF THE COUNTY OF DUFFERIN
("Dufferin County")

- and -

THE CORPORATION OF THE (TOWNSHIP/TOWN) OF _____.
("Municipality")

WHEREAS (Municipality) and Dufferin County are desirous of entering into a relationship whereby (Municipality) will utilize the services of certain Dufferin County employees;

AND WHEREAS subsection 3(5) the *Building Code Act, 1992*, S.O. 1992, c. 23, provides that the council of an upper-tier municipality and of one or more municipalities in the upper-tier municipality may enter into an agreement for the enforcement by the upper-tier municipality of the *Building Code Act, 1992* in the municipalities and for charging the municipalities the whole or part of the cost;

AND WHEREAS in addition, subsection 20(1) of the *Municipal Act, 2001*, S.O. 2001 c. 25, provides that a municipality may enter into an agreement with one or more municipalities or local bodies, as defined in section 19 of the *Municipal Act, 2001*, or a combination of both to jointly provide, for their joint benefit, any matter which all of them have the power to provide within their own boundaries;

AND WHEREAS (Municipality) is a municipality within the upper-tier municipality of Dufferin County;

AND WHEREAS the parties to this Agreement wish to enter into this Agreement for the sharing of the costs of the enforcement of the *Building Code Act, 1992*;

AND WHEREAS a breakdown of costs for services rendered will be allocated proportionately to those receiving services from Dufferin County, which may be revised from time-to-time;

AND WHEREAS (Municipality) and Dufferin County wish to clarify certain obligations and rights in respect of relationship between the municipalities;

THEREFORE THIS AGREEMENT WITNESSETH THAT, in consideration of the mutual covenants and undertakings contained herein and the provision of other good and valuable consideration by each Party to the other, the receipt and sufficiency of which is hereby acknowledged, the Parties do hereby mutually covenant and agree as follows:

1. Recitals

- 1.1 The above recitals are true and hereby incorporated into this Agreement by reference.

2. General

- 2.1 (Municipality) hereby agrees to retain the services of employees of Dufferin County, subject to the terms in this agreement, who shall perform Building Services duties as defined in Section 2.5 (Municipality) and as further agreed to by Dufferin County in writing from time to time as it relates to Building Services, including the services of a chief building official, building inspectors and plans review personnel ("**Building Officials**").
- 2.2 In carrying out the agreed upon duties and responsibilities, employees of Dufferin County shall comply with all applicable law federal, provincial and municipal including but not limited to all by-laws, policies, procedures, rules and regulations in force from time to time and that are applicable to the Building Services being provided by Dufferin County in this Agreement.
- 2.3 Dufferin County shall carry out the Building Services agreed upon by the parties in a diligent, faithful and honest manner.
- 2.4 Neither (Municipality) nor Dufferin County nor any of their respective employees or representatives are employees of the other party and neither Dufferin County nor (Municipality) shall represent to the contrary to any entity or individual. Neither party shall be liable for any obligations incurred by the other party other than specified herein and as agreed to in writing by the parties, it being specifically understood that the respective activities of each of the parties shall be operated separately. This Agreement is not intended to create and shall not be deemed to have created the relationship of partners or joint venturers or any other relationship between the parties hereto.
- 2.5 Dufferin County shall appoint, by by-law, a chief building official pursuant to subsections 3(5) and (6) of the *Building Code Act, 1992* and Dufferin County shall appoint inspectors pursuant to the above sections and shall issue the required Certificates under subsection 3(8) of the *Building Code Act, 1992* and retain or engage plans review personnel that shall be performing all building plans review, inspection and enforcement services under the *Building Code Act, 1992* (collectively, the "**Building Services**") under the provisions of this Agreement.

3. Duration of Agreement

- 3.1 This Agreement shall be for a term of five (5) years and shall begin on (insert date) (the "**Commencement Date**") and shall continue to remain in effect ending on (insert date) (the "**Initial Term**") and shall be automatically renewed for subsequent three (3) year terms

for a total of 5 additional renewal terms for a total of 15 years of automatic renewals (the “**Renewal Term**”) unless either party terminates this Agreement by providing the other party with written notification of the termination of **two years** prior to the effective date of termination set out above for the Initial Term and Renewal Term.

Commented [BM1]: Two years will be standard, unless the municipality suggests a different timeframe to give notice.

- 3.2 This Agreement and the Building Services provided by Dufferin County may be terminated by either Party (Municipality) in their sole and absolute discretion any time, upon providing the other Party with a minimum of **two year’s** written notice of the termination (the “**Termination Notice**”).

Commented [BM2]: As mentioned in note for clause 3.2, the two years will be the standard timeframe, unless suggested otherwise. We can customize this timeframe for each municipality.

- 3.3 In the event the (Municipality) exercises its option to terminate this Agreement and the Building Services provided to (Municipality) under the terms of this Agreement pursuant to Section **3.23-2** above, the obligations and services provided by Dufferin County shall cease three (3) months following the date set out in the Termination Notice with no further obligation or responsibility to (Municipality) upon which date the terms and conditions of this Agreement shall become null and void.

- 3.4 In the event that this Agreement is terminated, the Party that exercised the termination right in accordance with section 3.2 shall be solely responsible for all transition costs, including: the cost of digitization, record storage, and/or records retention requirements.

- 3.5 In the event the agreement is terminated, all permit applications, permits and enforcement cases that remain open with the County prior to the termination date, will remain with the County and the County will be responsible for continuing building services for these files until they are closed.

- 3.6 The Parties agree that upon expiry or termination of this Agreement, enforcement cases managed by Dufferin County that have been open for at least six months shall be transferred to the (Municipality) **unless an order has been issued.**

Commented [BM3]: If an order has been issued or charges laid, the County will see this through until the end.

4. Fees Payable

- 4.1 No fees are payable from either party under this Agreement.
- 4.2 The Parties agree that Dufferin County is entitled to retain all permit fees received and this is the mechanism for recovery of its costs to provide the Municipality with the services herein.

5. Building Services Duties

- 5.1 The parties agree that the Building Officials shall provide Building Services to (Municipality) and their duties shall include but not limited to plans review, processing and issuance of building permits, building inspections and building code enforcement and as agreed to by the parties in writing and the Building Officials shall at all times perform these services in a timely fashion and in accordance with all applicable law.

- 5.2 In addition to Section **5.15-1** above, the Building Officials are providing services to (Municipality) in order to respond to any and all building code enforcement related matters

solely related for the purposes of reviewing non-compliance of permit, planning applications and property in accordance with applicable law including but not limited to the *Building Code Act, 1992*.

- 5.3 The Municipality agrees that it remains responsible for by-law and property standards enforcement matters. Dufferin County is only providing building code enforcement services under this Agreement. Further, the Municipality shall be responsible for the enforcement of all land use and zoning by-laws passed by the Municipality and shall inform the County of all relevant land use and zoning by-law provisions under the jurisdiction of the Municipality which provisions are included as part of the requirements set out under section 1.1.3.3 of O. Reg 305/03 3 by completing and providing a Municipal approval for all building permit applications. .
- 5.4 The Municipality shall, as required by Dufferin County, provide timely responses and background information, reviews for applicable law, upload forms and other supporting tasks as required by Dufferin County in support of Building Services work under this Agreement.
- 5.5 Dufferin County agrees that as part of the Building Services performed under Sections [5.15.1](#) and [5.25.2](#) above, Dufferin County agrees to provide reports and updates to (Municipality) staff as requested on building permit and enforcement activity.

6. System Requirements

- 6.1 Dufferin County will be responsible for completing all requests made by MPAC on a monthly basis or as requested with regards to uploading permit drawings for assessment purposes.
- 6.2 (Municipality) acknowledges and agrees that it shall use and rely on the same software platform as Dufferin County in the administration and processing of permits and applications as may be amended and or changed from time to time.
- 6.3 (Municipality) acknowledges and agrees that it shall be responsible for training its staff to utilize the software platform identified by Dufferin County in Section 6.1 above for the purposes of municipal review during the permit application phase, records management and financial processing.

7. Mutual Indemnity

- 7.1 (Municipality) hereby agrees to indemnify and save harmless Dufferin County from any and all losses, costs, expenses, liabilities and other claims incurred by Dufferin County arising out of, or connected with, or in any way associated with, the performance or non-performance of (Municipality)'s obligations under this Agreement provided that Dufferin County's actions are in compliance with the terms and conditions of this Agreement.
- 7.2 Dufferin County hereby agrees to indemnify and save harmless (Municipality) from any and all losses, costs, expenses, liabilities and other claims incurred by (Municipality) arising out of, or connected with, or in any way associated with, the performance or non-

performance of Dufferin County's obligations under this Agreement provided that Dufferin's actions are in compliance with the terms and conditions of this Agreement.

- 7.3 All liability insurance required under this Agreement, excluding WSIB coverage, must include an additional insured endorsement naming Dufferin County, its officers, employees, and agents as additional insureds. This coverage must extend to liability arising from both ongoing and completed operations performed by the County under this Agreement. If a claim, statement of claim, or legal action is commenced in which the Municipality is named as a defendant for matters arising out of the County's services under this Agreement, the County's insurance shall assume primary responsibility for the defence of the claim

Commented [BM4]: This clause has been revised to clearly outline that the County will take the lead on defense should the municipality be named in a lawsuit.

8. Severability

- 8.1 If any section of this Agreement, in whole or in part, is or becomes illegal, invalid, void, voidable or unenforceable in any jurisdiction by any court of competent jurisdiction, the illegality, invalidity or unenforceability of that section, in whole or in part, will not affect:
- (a) the legality, validity or enforceability of the remaining sections of this Agreement, in whole or in part; or
 - (b) the legality, validity or enforceability of that section, in whole or in part, in any other jurisdiction.

9. Dispute Resolution

- 9.1 The Parties shall make every reasonable effort to resolve all disputes regarding the interpretation or implementation of this Agreement that may arise during the term of this Agreement by negotiation, in accordance with the following:
- (a) In the event of a dispute, the party raising the dispute shall provide reasonable particulars of the dispute in writing to the other party.
 - (b) Upon receipt of particulars of the dispute, the authorized representatives of the Parties shall, by telephone or in-person, engage in good faith negotiations with a view to resolving the dispute.
 - (c) The dispute shall proceed through a four-stage resolution process, through the parties' authorized representatives.
 - (1) The first stage shall involve the department heads/Chief Building Official of each respective party, or their designate.
 - (2) In the event that the matter is not resolved within ten (10) business days, the dispute shall be referred to the chief administrative officers of each respective party, or their designate.

- (3) In the event that the chief administrative officers cannot resolve the dispute the parties shall proceed to mediation.
- (4) In the event that the Parties cannot resolve the dispute at good faith mediation, the Parties shall proceed to arbitration before a single arbitrator in accordance with the Ontario *Arbitrations Act*.

9.2 The parties agree that, subject to any termination rights set out in this Agreement, the existence of a dispute shall not interfere with the performance by the parties of their respective obligations under this Agreement, and each party shall continue to perform its obligations under this Agreement pending the resolution of the dispute.

10. Governing Law

10.1 This agreement shall be governed by and construed and interpreted in accordance with the laws of the Province of Ontario and the laws of Canada.

11. Further Assurances

11.1 The Parties hereto at all times warrant that they shall do, execute, acknowledge, deliver and/or cause to be done such other acts, agreements and other documents as may be reasonably required or desirable to give effect to the terms of this Agreement.

12. Amendment and Waiver

12.1 No amendment, discharge, modification, restatement, supplement, termination or waiver of this Agreement or any section of this Agreement is binding unless it is in writing and executed by the parties to be bound. No waiver of, failure to exercise, or delay in exercising, any section of this Agreement constitutes a waiver of any other section (whether or not similar) nor does any waiver constitute a continuing waiver unless otherwise expressly provided.

Commented [BM5]: If the County and Municipality wishes to make amendments to this agreement, this is agreed upon in writing. This is not something that needs to be added as a separate clause in this agreement.

13. Enurement

13.1 This Agreement enures to the benefit of and is binding upon the parties.

14. Assignment

14.1 Neither this Agreement nor any right or obligation under this Agreement may be assigned by any party without the prior written consent of the other Parties.

15. Covenants

15.1 All obligations contained in this Agreement, even if not expressed to be covenants, shall be deemed to be covenants.

16. Entire Agreement

- 16.1 This Agreement constitutes the entire agreement between the parties pertaining to the Building Services and supersedes all prior agreements, understandings, negotiations and discussions, whether oral or written, of the parties, including the existing 2001 Agreement upon the commencement date of this Agreement. The parties acknowledge that there are no representations, warranties or other agreements between the parties in connection with the subject matter of this Agreement except as specifically set out in this Agreement and that no party has been induced to enter into this Agreement in reliance on, and there will be no liability assessed, either in tort or contract, with respect to, any warranty, representation, opinion, advice or assertion of fact, except to the extent it has been reduced to writing and included as a term in this Agreement. Except as amended herein, the terms of this Agreement shall remain in full force and effect.

17. General Provisions

- 17.1 The parties agree that:
- (a) words importing the singular only shall include the plural;
 - (b) words importing the masculine only shall include the female;
 - (c) words importing a person shall include a corporation;
 - (d) the part numbers and headings, subheadings and section, subsection, clause and paragraph numbers are inserted for convenience of reference only and shall not affect the construction or interpretation of this Agreement;
 - (e) all references to any statute, regulation or by-law or any provision thereof includes such statute, regulation or by-law or provision thereof as amended, revised, re-enacted and/or consolidated from time to time and any successor statute, regulation or by-law thereto; and
 - (f) whenever a statement or provision in this Agreement is followed by words denoting inclusion or example and then a list of or reference to specific items, such list or reference shall not be read so as to limit the generality of that statement or provision, even if words such as “**without limiting the generality of the foregoing**” do not precede such list or reference.

18. Counterparts and Electronic Signature

- 18.1 This Agreement may be executed and delivered by the Parties in one or more counterparts, each of which will be an original, and those counterparts will together constitute one and the same instrument. Counterparts may be executed either in original or electronic PDF and the parties hereto shall adopt any signatures received by email as original signatures of the parties.

19. Communications

19.1 Any communication under this Agreement by either party shall be in writing and may be delivered:

- (a) personally or by courier;
- (b) by prepaid registered mail; or
- (c) by electronic mail or equivalent electronic means of transmission, if a hard copy of the communication is delivered by one of the three methods of delivery referred to above.

to the persons and addresses as follows:

to Dufferin County at: Becky MacNaughtan, Chief Building Official
55 Zina St,
Orangeville, ON, L9W 1E5
bmacnaughtan@dufferincounty.ca

to (Municipality) at: <*>

or to any other address as any of the parties may at any time advise the other by communication given or made in accordance with this Section.

19.2 Any communication delivered to the party to whom it is addressed will be deemed to have been given or made and received on the day it is delivered at that party's address, provided that if that day is not a business day then the communication will be deemed to have been given or made and received on the next business day. Any communication transmitted by facsimile, e-mail or other functionally equivalent electronic means of transmission will be deemed to have been given or made and received on the day on which it is transmitted; but if the communication is transmitted on a day which is not a business day or after 4 p.m. (local time of the recipient), the communication will be deemed to have been given or made and received on the next business day.

[Signature page to follow]

IN WITNESS WHEREOF the parties hereto have duly executed this Agreement in the Province of Ontario and agree to be bound thereby as of the day, month and year first written above.

**THE CORPORATION OF THE COUNTY
OF DUFFERIN**

As authorized by By-law No. _____

Per: _____
Name: _____
Title: _____

Per: _____
Name: _____
Title: _____

**THE CORPORATION OF THE
(TOWNSHIP/TOWN) OF (Municipality)**

As authorized by By-law No. _____

Per: _____
Name: _____
Title: _____

Per: _____
Name: _____
Title: _____



The Corporation of the

TOWNSHIP OF MELANCTHON

157101 Highway 10, Melancthon, Ontario, L9V 2E6

STAFF REPORT

TO: Council

FROM: Sarah Culshaw, Treasurer

DATE: March 5, 2026

SUBJECT: Budget Draft

Purpose

The purpose of this report is to present the 2026 Draft Budget to Council.

Discussion and Presentation

The current draft budget reflects a 5.87% levy increase or, 4.80% factoring assessment growth. If the OPP extra patrolling is removed, the increase would be reduced to 5.30% and 4.23% with growth.

Information to be provided with presentation:

- Development Charge Chart
- Household Assessment Chart
- Reserves Charts
- 5 Year Capital plan with Capital needs and possible ways to fund them
- Tax Rates
- Growth Impact
- Dufferin Municipalities Tax Rates.

Respectfully Submitted,

Sarah Culshaw
Treasurer

Reviewed By:

Denise Holmes
CAO/Clerk

**TOWNSHIP OF MELANCTHON 2026 BUDGET - MARCH 5TH, 2026**

BUDGET PAGE	DEPARTMENT EXPENDITURES	2024 BUDGET	2024 Actual	2025 BUDGET	2025 PROPOSED	2026 BUDGET
	GENERAL GOVERNMENT SERVICES					
4	COUNCIL	\$ 120,387.00	\$ 120,983.14	\$ 150,764.00	\$ 146,060.00	\$ 139,405.00
5	ADMINISTRATION	\$ 919,397.00	\$ 877,340.19	\$ 798,080.00	\$ 766,317.00	\$ 842,532.00
5	TAXATION WRITE OFFS	\$ 50,000.00	\$ 26,758.00	\$ 30,000.00	\$ 25,000.00	\$ 20,000.00
		\$ 1,089,784.00	\$ 1,025,081.33	\$ 978,844.00	\$ 937,377.00	\$ 1,001,937.00

	PROTECTION TO PERSONAL & PROPERTY					
6	FIRE SERVICES	\$ 417,686.00	\$ 390,873.49	\$ 450,985.00	\$ 452,220.00	\$ 471,265.00
6	POLICING	\$ 488,370.00	\$ 486,660.31	\$ 527,573.00	\$ 521,538.00	\$ 582,362.00
6	BYLAW ENFORCEMENT	\$ 32,000.00	\$ 34,971.00	\$ 40,000.00	\$ 78,000.00	\$ 60,000.00
6	CONSERVATION AUTHORITY	\$ 36,016.00	\$ 37,561.11	\$ 40,460.00	\$ 40,460.00	\$ 41,565.00
6	ANIMAL CONTROL	\$ 11,500.00	\$ 9,315.00	\$ 11,500.00	\$ 6,500.00	\$ 9,500.00
6	STREET LIGHTS	\$ 6,500.00	\$ 6,678.00	\$ 7,100.00	\$ 6,600.00	\$ 6,800.00
		\$ 992,072.00	\$ 966,058.91	\$ 1,077,618.00	\$ 1,105,318.00	\$ 1,171,492.00

	TRANSPORTATION SERVICES					
7	SALARIES & ADMINISTRATION	\$ 715,300.00	\$ 657,119.00	\$ 731,518.00	\$ 758,655.00	\$ 768,274.00
7	ROAD DEPARTMENT BUILDING & MISC.	\$ 202,942.00	\$ 202,468.00	\$ 277,280.00	\$ 282,250.00	\$ 267,050.00
8	ROAD EQUIPMENT	\$ 416,444.20	\$ 381,029.00	\$ 344,500.00	\$ 362,500.00	\$ 392,500.00
8	NEW EQUIPMENT	\$ 150,000.00	\$ 17,300.00	\$ 954,615.00	\$ 454,615.00	\$ 500,000.00
9	BRIDGES, CULVERTS, DRAINS	\$ 310,907.00	\$ 301,574.00	\$ 145,907.00	\$ 79,907.00	\$ 110,907.00
9	ROADSIDE	\$ 21,700.00	\$ 27,255.00	\$ 68,500.00	\$ 34,510.00	\$ 197,500.00
9	HARDTOP	\$ 49,500.00	\$ 10,488.00	\$ 49,500.00	\$ 21,900.00	\$ 47,000.00
9	LOOSETOP	\$ 602,000.00	\$ 582,838.00	\$ 642,000.00	\$ 703,070.00	\$ 698,000.00
10	WINTER CONTROL	\$ 70,000.00	\$ 55,065.00	\$ 71,000.00	\$ 57,000.00	\$ 77,500.00
10	ROAD IMPROVEMENTS	\$ 375,000.00	\$ 293,894.00	\$ 750,000.00	\$ 670,000.00	\$ 230,000.00
10	RESERVES	\$ 270,000.00	\$ 285,918.10	\$ 50,000.00	\$ 50,000.00	\$ 50,000.00
		\$ 3,183,793.20	\$ 2,814,948.10	\$ 4,084,820.00	\$ 3,474,407.00	\$ 3,338,731.00

BUDGET PAGE	DEPARTMENT EXPENDITURES	2024 BUDGET	2024 Actual	2025 BUDGET	2025 PROPOSED	2026 BUDGET
11	ENVIRONMENTAL SERVICES	\$ 33,918.00	\$ 26,318.00	\$ 26,998.00	\$ 26,898.00	\$ 27,100.00
		\$ 33,918.00	\$ 26,318.00	\$ 26,998.00	\$ 26,898.00	\$ 27,100.00
11	RECREATION	\$ 129,700.00	\$ 220,349.20	\$ 333,200.00	\$ 175,172.00	\$ 213,662.00
		\$ 129,700.00	\$ 220,349.20	\$ 333,200.00	\$ 175,172.00	\$ 213,662.00
11	HEALTH & SOCIAL SERVICES (CEMETERY)	\$ 5,000.00	\$ 341.00	\$ 5,000.00	\$ -	\$ -
		\$ 5,000.00	\$ 341.00	\$ 5,000.00	\$ -	\$ -
11	LIBRARY	\$ 69,490.00	\$ 69,490.00	\$ 72,888.00	\$ 72,468.00	\$ 76,520.00
		\$ 69,490.00	\$ 69,490.00	\$ 72,888.00	\$ 72,468.00	\$ 76,520.00
12	PLANNING	\$ 200,000.00	\$ 35,055.00	\$ 125,000.00	\$ 60,000.00	\$ 360,000.00
		\$ 200,000.00	\$ 35,055.00	\$ 125,000.00	\$ 60,000.00	\$ 360,000.00
12	DRAINAGE	\$ 55,000.00	\$ 28,103.00	\$ 65,000.00	\$ 47,253.00	\$ 65,000.00
		\$ 55,000.00	\$ 28,103.00	\$ 65,000.00	\$ 47,253.00	\$ 65,000.00
12	RESERVES	\$ -	\$ -	\$ -	\$ -	\$ -
		\$ -	\$ -	\$ -	\$ -	\$ -
12	SUBTOTAL EXPENSES	\$ 5,758,757.20	\$ 5,185,744.54	\$ 6,769,368.00	\$ 5,898,893.00	\$ 6,254,442.00

BUDGET PAGE	DEPARTMENT REVENUE SUMMARY	2024 BUDGET	2024 Actual	2025 BUDGET	2025 PROPOSED	2026 BUDGET
13	TAXATION					
	SUPPLEMENTALS	\$ 90,000.00	\$ 108,912.00	\$ 100,000.00	\$ 67,840.00	\$ 80,000.00
	GRANT IN LIEU	\$ 2,050.00	\$ 2,015.00	\$ 2,050.00	\$ 2,120.00	\$ 2,150.00
		\$ 92,050.00	\$ 110,927.00	\$ 102,050.00	\$ 69,960.00	\$ 82,150.00
13	GRANTS	\$ 406,590.00	\$ 391,677.00	\$ 443,313.00	\$ 413,852.00	\$ 443,952.00
		\$ 406,590.00	\$ 391,677.00	\$ 443,313.00	\$ 413,852.00	\$ 443,952.00
13	ADMINISTRATION	\$ 93,664.20	\$ 90,875.50	\$ 24,720.00	\$ 23,390.00	\$ 22,790.00
		\$ 93,664.20	\$ 90,875.50	\$ 24,720.00	\$ 23,390.00	\$ 22,790.00
14	PROTECTIONS TO PERSONS & PROPERTY	\$ 5,500.00	\$ 6,590.00	\$ 5,500.00	\$ 18,591.00	\$ 7,500.00
		\$ 5,500.00	\$ 6,590.00	\$ 5,500.00	\$ 18,591.00	\$ 7,500.00
14	ROADS	\$ 902,137.00	\$ 565,380.00	\$ 1,605,409.00	\$ 868,834.00	\$ 903,435.00
		\$ 902,137.00	\$ 565,380.00	\$ 1,605,409.00	\$ 868,834.00	\$ 903,435.00
14	PLANNING	\$ 57,450.00	\$ 40,006.00	\$ 30,250.00	\$ 64,500.00	\$ 26,500.00
		\$ 57,450.00	\$ 40,006.00	\$ 30,250.00	\$ 64,500.00	\$ 26,500.00
15	OTHER	\$ 897,150.00	\$ 1,030,560.30	\$ 1,058,890.00	\$ 1,085,444.00	\$ 1,063,455.00
		\$ 897,150.00	\$ 1,030,560.30	\$ 1,058,890.00	\$ 1,085,444.00	\$ 1,063,455.00
15	SUBTOTAL REVENUE	\$ 2,454,541.20	\$ 2,236,015.80	\$ 3,270,132.00	\$ 2,544,571.00	\$ 2,549,782.00

GL ACCT # 5001	COUNCIL EXPENDITURES EXPENDITURES	2024 BUDGET	2024 Actual	2025 BUDGET	2025 PROPOSED	2026 BUDGET
1010	SALARIES, MEETINGS	\$ 99,505.00	\$ 99,500.00	\$ 102,520.00	\$ 103,000.00	\$ 115,500.00
1025	RECEIVER GENERAL	\$ 4,840.00	\$ 4,850.00	\$ 5,145.00	\$ 5,100.00	\$ 5,305.00
1030	EHT	\$ 1,942.00	\$ 10,748.14	\$ 1,999.00	\$ 2,010.00	\$ 2,300.00
1070	MILEAGE	\$ 1,000.00	\$ 500.00	\$ 1,000.00	\$ 1,100.00	\$ 1,200.00
1080	CONFERENCES/CONVENTIONS/SEMINARS/TRAINING	\$ 9,500.00	\$ 4,000.00	\$ 9,500.00	\$ 6,500.00	\$ 6,500.00
1090	MEALS	\$ 600.00	\$ 300.00	\$ 600.00	\$ 350.00	\$ 600.00
2190	MISCELLANEOUS/HYBRID COUNCIL	\$ 3,000.00	\$ 1,085.00	\$ 30,000.00	\$ 28,000.00	\$ 8,000.00
	TOTAL COUNCIL EXPENDITURES	\$ 120,387.00	\$ 120,983.14	\$ 150,764.00	\$ 146,060.00	\$ 139,405.00

GL ACCT # 5002	ADMINISTRATION EXPENDITURES EXPENDITURES	2024 BUDGET	2024 Actual	2025 BUDGET	2025 PROPOSED	2026 BUDGET
1010	WAGES, VACATION PAY, UNUSED SICK PAY	\$ 379,180.00	\$ 384,564.00	\$ 425,148.00	\$ 410,000.00	\$ 445,950.00
1020	BENEFITS	\$ 32,000.00	\$ 30,717.71	\$ 36,000.00	\$ 35,500.00	\$ 40,000.00
1022	TRAINING	\$ 2,000.00	\$ 1,400.00	\$ 2,000.00	\$ 1,400.00	\$ 4,000.00
1025	RECEIVER GENERAL (CPP & EI)	\$ 21,100.00	\$ 18,777.47	\$ 21,984.00	\$ 22,000.00	\$ 24,000.00
1026	MEETINGS	\$ 1,000.00	\$ 37.00	\$ 1,000.00	\$ -	
1030	EHT	\$ 8,980.00	\$ 13,806.00	\$ 9,196.00	\$ 9,200.00	\$ 10,100.00
1040	WSIB	\$ 13,123.00	\$ 11,835.09	\$ 12,862.00	\$ 13,000.00	\$ 14,000.00
1065	OMERS TOWNSHIP	\$ 44,172.00	\$ 41,849.00	\$ 46,408.00	\$ 46,000.00	\$ 49,000.00
1070	MILEAGE	\$ 1,500.00	\$ 1,083.60	\$ 1,500.00	\$ 1,200.00	\$ 1,500.00
1080	CONFERENCES	\$ 4,000.00	\$ 1,230.00	\$ 4,000.00	\$ -	\$ 2,000.00
2025	OFFICE FURNITURE	\$ 5,000.00	\$ 5,000.00	\$ 4,000.00	\$ 2,500.00	\$ 2,000.00
2010	OFFICE SUPPLIES	\$ 8,000.00	\$ 8,300.00	\$ 8,500.00	\$ 8,500.00	\$ 9,000.00
2020	POSTAGE	\$ 6,000.00	\$ 6,000.00	\$ 7,000.00	\$ 6,000.00	\$ 7,000.00
2030	OFFICE EQUIPMENT	\$ 4,500.00	\$ 4,022.00	\$ 4,500.00	\$ 4,000.00	\$ 4,500.00
2035	COMPUTER PROGRAM UPDATES & IT SERVICES	\$ 32,500.00	\$ 41,124.00	\$ 40,000.00	\$ 41,000.00	\$ 42,000.00
2036	COMPUTERS & SERVER	\$ 30,500.00	\$ 28,616.00	\$ -		
2037	ESRI LICENSE AGREEMENT	\$ 3,100.00	\$ 2,650.00	\$ 3,100.00	\$ 3,100.00	\$ 3,100.00
2040	ADVERTISING	\$ 1,500.00	\$ 1,486.00	\$ 1,000.00	\$ 300.00	\$ 1,000.00
2050	AUDIT	\$ 24,000.00	\$ 25,973.00	\$ 26,000.00	\$ 28,210.00	\$ 30,000.00
2060	MEMBERSHIPS	\$ 4,000.00	\$ 4,364.00	\$ 4,000.00	\$ 4,315.00	\$ 4,500.00
2070	HEATING	\$ 3,700.00	\$ 3,500.00	\$ 3,700.00	\$ 4,000.00	\$ 4,000.00
2080	HYDRO	\$ 5,500.00	\$ 5,300.00	\$ 5,500.00	\$ 5,500.00	\$ 5,800.00
2090	TELEPHONE	\$ 2,500.00	\$ 2,250.00	\$ 3,100.00	\$ 3,100.00	\$ 3,000.00
2094	INTERNET	\$ 2,500.00	\$ 2,500.00	\$ 2,500.00	\$ 2,500.00	\$ 2,700.00
2095	WEBSITE MAINTENANCE	\$ 500.00	\$ 500.00	\$ 500.00	\$ 200.00	\$ 500.00

GL ACCT # 5002	ADMINISTRATION EXPENDITURES EXPENDITURES (CONTINUED)	2024 BUDGET	2024 Actual	2025 BUDGET	2025 PROPOSED	2026 BUDGET
	STRATEGIC PLAN	\$ 30,000.00	\$ 26,270.00	\$ -	\$ -	\$ -
2100	PROFESSIONAL FEES - LEGAL	\$ 25,000.00	\$ 11,544.00	\$ 15,000.00	\$ 14,000.00	\$ 15,000.00
2102	INTEGRITY COMMISSIONER SERVICES	\$ 3,000.00	\$ 100.00	\$ 1,500.00	\$ 500.00	\$ 1,500.00
2103	HEALTH AND SAFETY SERVICES	\$ 6,022.00	\$ 6,044.00	\$ 6,100.00	\$ 6,100.00	\$ 6,100.00
2107	DEVELOPMENT CHARGE STUDY	\$ 27,000.00	\$ 28,020.32	\$ -	\$ -	\$ -
	RISK ASSESSMENT STUDY	\$ 17,000.00	\$ 16,923.00	\$ -	\$ -	\$ -
	ASSET RETIREMENT STUDY	\$ 10,000.00	\$ -	\$ -	\$ -	\$ -
	ASSET MANAGEMENT PLAN & FINANCIAL REPORTING	\$ 46,300.00	\$ 41,609.00	\$ 6,000.00	\$ 6,000.00	\$ 6,000.00
2109	EMPLOYEE TOWNSHIP COMPENSATION PLAN	\$ -	\$ -	\$ -	\$ -	\$ 500.00
2110	INSURANCE	\$ 64,000.00	\$ 38,478.00	\$ 42,000.00	\$ 42,010.00	\$ 45,000.00
2120	ELECTION	\$ -	\$ -	\$ 5,000.00	\$ 5,000.00	\$ 15,000.00
2162	BLDG MAINTENANCE	\$ 6,000.00	\$ 14,100.00	\$ 6,000.00	\$ 2,000.00	\$ 3,000.00
2163	OFFICE CLEANING	\$ 3,664.00	\$ 2,595.00	\$ 3,000.00	\$ 3,000.00	\$ 3,000.00
2164	LANDSCAPING & GRASS CUTTING	\$ 300.00	\$ 225.00	\$ 300.00	\$ -	\$ 300.00
2165	WATER SAMPLING	\$ 125.00	\$ 116.00	\$ 125.00	\$ 125.00	\$ 125.00
2190	OTHER/MISCELLANEOUS	\$ 4,000.00	\$ 6,500.00	\$ 4,000.00	\$ 5,000.00	\$ 4,500.00
2200	PETTY CASH	\$ 500.00	\$ 200.00	\$ 500.00	\$ 200.00	\$ 500.00
4030	BANK CHARGES	\$ 1,800.00	\$ 1,800.00	\$ 2,000.00	\$ 1,800.00	\$ 2,000.00
6135	GRANT TO OTHERS	\$ 3,750.00	\$ 5,850.00	\$ 5,000.00	\$ 1,000.00	\$ 2,000.00
	REMEMBRANCE DAY EXPENSIS					\$ 300.00
6133	DONATION TO MARKDALE HOSPITAL (5YRS)	\$ 10,000.00	\$ 10,000.00	\$ 10,000.00	\$ 10,000.00	\$ 10,000.00
6136	ERSKINE CLINIC (2018-2027)	\$ 5,000.00	\$ 5,000.00	\$ 5,000.00	\$ 5,000.00	\$ 5,000.00
	MUNICIPAL PARKING LOT					
7011	LOAN FOR MUNICIPAL EXPANSION	\$ 13,057.00	\$ 13,057.00	\$ 13,057.00	\$ 13,057.00	\$ 13,057.00
	TOTAL	\$ 919,397.00	\$ 877,340.19	\$ 798,080.00	\$ 766,317.00	\$ 842,532.00

4010	TOTAL TAX WRITE OFF EXPENDITURES	\$ 50,000.00	\$ 26,758.00	\$ 30,000.00	\$ 19,000.00	\$ 20,000.00
	TOTAL ADMINISTRATION EXPENDITURES	\$ 1,089,784.00	\$ 1,025,081.33	\$ 978,844.00	\$ 931,377.00	\$ 1,001,937.00

GL ACCT #	PROTECTION TO PERSONS/PROPERTY EXPENDITURES	2024 BUDGET	2024 Actual	2025 BUDGET	2025 PROPOSED	2026 BUDGET
	FIRE SERVICES					
3 6010	MULMUR MELANCTHON FD	\$ 152,494.00	\$ 142,311.49	\$ 166,535.00	\$ 160,000.00	\$ 161,370.00
3 6020	SHELBURNE AND DISTRICT FD	\$ 190,192.00	\$ 176,252.00	\$ 204,450.00	\$ 212,220.00	\$ 224,895.00
3 6030	TOWNSHIP OF SOUTHGATE FD - OPER/CAP	\$ 75,000.00	\$ 72,310.00	\$ 80,000.00	\$ 80,000.00	\$ 85,000.00
	SUB TOTAL	\$ 417,686.00	\$ 390,873.49	\$ 450,985.00	\$ 452,220.00	\$ 471,265.00
	POLICING					
4 3050	POLICING	\$ 452,154.00	\$ 452,154.00	\$ 492,038.00	\$ 492,038.00	\$ 552,862.00
4 3055	POLICING - ESO	\$ 3,408.00	\$ 3,408.00	\$ 6,035.00		\$ -
4 3052	POLICING - RIDE	\$ 27,508.00	\$ 28,042.82	\$ 28,000.00	\$ 28,000.00	\$ 28,000.00
4 3053	POLICE SERVICES BOARD	\$ 300.00	\$ 1,350.00	\$ 1,500.00	\$ 1,500.00	\$ 1,500.00
4 2310	TASK FORCE	\$ 5,000.00	\$ 1,705.49			
	SUB TOTAL	\$ 488,370.00	\$ 486,660.31	\$ 527,573.00	\$ 521,538.00	\$ 582,362.00
	BY LAW ENFORCEMENT					
4 6155	BY LAW ENFORCEMENT	\$ 32,000.00	\$ 34,971.00	\$ 40,000.00	\$ 78,000.00	\$ 60,000.00
	CONSERVATION AREA					
4 6040	NOTTAWASAGA VALLEY CA	\$ 14,226.00	\$ 15,869.11	\$ 18,010.00	\$ 18,010.00	\$ 18,355.00
4 6050	GRAND RIVER CA	\$ 21,790.00	\$ 21,692.00	\$ 22,450.00	\$ 22,450.00	\$ 23,210.00
	SUB TOTAL	\$ 36,016.00	\$ 37,561.11	\$ 40,460.00	\$ 40,460.00	\$ 41,565.00
	ANIMAL CONTROL					
13 6140	LIVESTOCK CLAIMS	\$ 4,000.00	\$ 2,000.00	\$ 4,000.00	\$ 500.00	\$ 2,000.00
4 6150	ANIMAL CONTROL	\$ 7,500.00	\$ 7,315.00	\$ 7,500.00	\$ 6,000.00	\$ 7,500.00
	SUB TOTAL	\$ 11,500.00	\$ 9,315.00	\$ 11,500.00	\$ 6,500.00	\$ 9,500.00
	STREET LIGHTS					
6 3025	STREET LIGHTS LED	\$ 5,500.00	\$ 5,500.00	\$ 5,600.00	\$ 5,600.00	\$ 5,800.00
6 3026	STREET LIGHT REPAIR	\$ 1,000.00	\$ 1,178.00	\$ 1,500.00	\$ 1,000.00	\$ 1,000.00
	SUB TOTAL	\$ 6,500.00	\$ 6,678.00	\$ 7,100.00	\$ 6,600.00	\$ 6,800.00
	TOTAL PROTECTION TO PERSONS/PROPERTY	\$ 992,072.00	\$ 966,058.91	\$ 1,077,618.00	\$ 1,105,318.00	\$ 1,171,492.00

GL ACCT # 5005	ROADWAYS EXPENDITURES	2024 BUDGET	2024 Actual	2025 BUDGET	2025 PROPOSED	2026 BUDGET
SALARIES & ADMINISTRATION						
1010	SALARIES AND WAGES	\$ 542,420.00	\$ 504,545.00	\$ 549,295.00	\$ 567,885.00	\$ 578,674.00
1025	RECEIVER GENERAL, EHT & WSIB	\$ 70,610.00	\$ 64,285.00	\$ 65,115.00	\$ 65,200.00	\$ 71,000.00
1020	BENEFITS	\$ 34,000.00	\$ 32,784.00	\$ 36,000.00	\$ 36,000.00	\$ 38,000.00
1065	OMERS TOWNSHIP CONTRIBUTION	\$ 41,670.00	\$ 41,824.00	\$ 43,508.00	\$ 42,300.00	\$ 45,000.00
1070	MILEAGE	\$ 100.00	\$ 28.00	\$ 100.00	\$ 100.00	\$ 100.00
1022	STAFF TRAINING AND SEMINARS	\$ 7,500.00	\$ 1,690.00	\$ 7,500.00	\$ 8,800.00	\$ 15,000.00
2010	OFFICE SUPPLIES/COMPUTOR	\$ 2,000.00	\$ 1,114.00	\$ 2,000.00	\$ 1,900.00	\$ 2,000.00
2036	GPS MONTHLY TRACKING EXPENSE	\$ 5,000.00	\$ 4,849.00	\$ 5,000.00	\$ 6,470.00	\$ 6,500.00
2112	ASSET MANAGEMENT PLAN SUPPORT	\$ 12,000.00	\$ 6,000.00	\$ 5,000.00	\$ 12,000.00	\$ 12,000.00
3105	BRIDGE STUDY/INSPECTIONS	\$ -	\$ -	\$ 18,000.00	\$ 18,000.00	\$ -
TOTAL		\$ 715,300.00	\$ 657,119.00	\$ 731,518.00	\$ 758,655.00	\$ 768,274.00
ROAD DEPARTMENT BUILDING MISC.						
2070	UTILITIES - HEAT	\$ 16,000.00	\$ 13,000.00	\$ 15,000.00	\$ 22,000.00	\$ 22,000.00
2080	UTILITIES - HYDRO	\$ 8,200.00	\$ 7,280.00	\$ 8,000.00	\$ 8,000.00	\$ 8,500.00
2090	TELEPHONE	\$ 1,200.00	\$ 1,200.00	\$ 1,300.00	\$ 1,200.00	\$ 1,000.00
2091	MOBILE PHONE	\$ 700.00	\$ 1,208.00	\$ 780.00	\$ 780.00	\$ 800.00
2040	ADVERTISING	\$ 750.00	\$ -	\$ 750.00	\$ -	\$ 750.00
2041	SIGNS	\$ 6,000.00	\$ 19,371.00	\$ 15,000.00	\$ 15,000.00	\$ 14,000.00
2110	INSURANCE	\$ 92,220.00	\$ 101,823.00	\$ 110,000.00	\$ 122,000.00	\$ 128,000.00
2100	LEGAL FEES	\$ 20,000.00	\$ 6,701.00	\$ 10,000.00	\$ 7,000.00	\$ 10,000.00
2050	AUDIT	\$ 10,000.00	\$ 10,000.00	\$ 10,000.00	\$ 10,000.00	\$ 10,000.00
2060	MEMBERSHIPS	\$ 150.00	\$ 113.00	\$ 150.00	\$ 170.00	\$ 200.00
2165	MATERIALS AND SUPPLIES/STOCK	\$ 9,000.00	\$ 8,000.00	\$ 9,000.00	\$ 8,000.00	\$ 9,000.00
2166	COVERALLS	\$ 4,000.00	\$ 3,000.00	\$ 1,000.00	\$ 1,200.00	\$ 3,000.00
3000	SERVICES AND RENTS/MISC	\$ 7,500.00	\$ 1,500.00	\$ 12,500.00	\$ 7,500.00	\$ 10,000.00
2103	HEALTH & SAFETY SERVICES	\$ 6,022.00	\$ 6,022.00	\$ 6,500.00	\$ 6,500.00	\$ 6,500.00
2104	HEALTH & SAFETY SERVICES/SUPPLIES	\$ 1,000.00	\$ 2,650.00	\$ 2,500.00	\$ 500.00	\$ 2,500.00
2162	BUILDING MAINTENANCE	\$ 10,000.00	\$ 12,000.00	\$ 62,000.00	\$ 30,000.00	\$ 30,000.00
2185	OIL SEPARATER	\$ 2,200.00	\$ 2,600.00	\$ 2,800.00	\$ 2,800.00	\$ 2,800.00
2192	SHOP TOOLS	\$ 5,000.00	\$ 2,000.00	\$ 5,000.00	\$ 2,000.00	\$ 5,000.00
2190	MISCELLANEOUS	\$ 2,000.00	\$ 4,000.00	\$ 4,000.00	\$ 1,000.00	\$ 2,000.00
2105	EMERGENCY EXPENSES (ICE STORM)				\$ 36,600.00	
3800	CONTRACT WORK	\$ 1,000.00	\$ -	\$ 1,000.00	\$ -	\$ 1,000.00
TOTAL		\$ 202,942.00	\$ 202,468.00	\$ 277,280.00	\$ 282,250.00	\$ 267,050.00

GL ACCT # 5005	ROADWAYS EXPENDITURES	2024 BUDGET	2024 Actual	2025 BUDGET	2025 PROPOSED	2026 BUDGET
ROAD EQUIPMENT						
2150	FUEL - CLEAR	\$ 74,000.00	\$ 55,000.00	\$ 72,000.00	\$ 72,000.00	\$ 74,000.00
2155	FUEL - DYED	\$ 65,000.00	\$ 55,000.00	\$ 65,000.00	\$ 57,000.00	\$ 65,000.00
3070/3072	FUEL - PATROL TRUCKS	\$ 20,000.00	\$ 17,000.00	\$ 20,000.00	\$ 18,000.00	\$ 20,000.00
	COLVEY RENT TO PAY				\$ 12,500.00	
2180	OIL - TRUCKS AND GRADER	\$ 5,000.00	\$ 4,875.00	\$ 6,000.00	\$ 6,000.00	\$ 6,000.00
3071	TR # 1 - REPAIRS	\$ 5,000.00	\$ 5,000.00	\$ 5,000.00	\$ 5,000.00	\$ 8,000.00
3073	TR # 2 - REPAIRS	\$ 15,000.00	\$ 10,000.00	\$ 15,000.00	\$ 12,000.00	\$ 15,000.00
3074	TR # 3 - REPAIRS	\$ 15,000.00	\$ 10,000.00	\$ 15,000.00	\$ 8,000.00	\$ 15,000.00
3075	TR # 4 - REPAIRS	\$ 15,000.00	\$ 12,000.00	\$ 15,000.00	\$ 20,000.00	\$ 25,000.00
3076	TR # 5 - REPAIRS	\$ 15,000.00	\$ 25,630.00	\$ 15,000.00	\$ 29,000.00	\$ 15,000.00
3077	TR # 6 - REPAIRS	\$ 15,000.00	\$ 25,000.00	\$ 15,000.00	\$ 36,000.00	\$ 15,000.00
3069	TR # 7 - REPAIRS	\$ 5,000.00	\$ 202.00	\$ 5,000.00	\$ 3,000.00	\$ 5,000.00
3068	TR # 8 - REPAIRS	\$ 5,000.00	\$ 3,600.00	\$ 5,000.00	\$ 9,000.00	\$ 5,000.00
3067	TR # 9 - REPAIRS	\$ 5,000.00	\$ 1,500.00	\$ 5,000.00	\$ 3,000.00	\$ 5,000.00
3079	GR#1 - CAT - REPAIRS	\$ 15,000.00	\$ 10,000.00	\$ 15,000.00	\$ 7,000.00	\$ 20,000.00
3080	GR#2 - REPAIRS	\$ 81,444.20	\$ 85,687.00	\$ 10,000.00	\$ 18,500.00	\$ 30,000.00
3065	GR#3 - REPAIRS	\$ 15,000.00	\$ 10,500.00	\$ 15,000.00	\$ -	\$ 20,000.00
3081	BACKHOE REPAIRS	\$ 3,000.00	\$ 1,500.00	\$ 3,000.00	\$ 7,500.00	\$ 3,000.00
3082	LOADER	\$ 2,500.00	\$ 20,000.00	\$ 2,500.00	\$ 9,000.00	\$ 2,500.00
3083	JOHN DEERE MOWER	\$ 1,000.00	\$ 150.00	\$ 1,000.00	\$ 3,400.00	\$ 1,500.00
3084	POWER WASHER	\$ 3,000.00	\$ 300.00	\$ 3,000.00	\$ 1,500.00	\$ 3,000.00
3085	CHAIN SAW	\$ 1,000.00	\$ 785.00	\$ 1,000.00	\$ 500.00	\$ 1,000.00
3086	ROADSIDE MOWER	\$ 1,000.00	\$ -	\$ 1,000.00	\$ -	\$ 1,000.00
3500	WINTER CONTROL-PLOW & WING PARTS	\$ 20,000.00	\$ 15,000.00	\$ 20,000.00	\$ 10,000.00	\$ 20,000.00
2191	RADIO AND TRUCK LICENSES	\$ 12,000.00	\$ 12,300.00	\$ 12,500.00	\$ 14,600.00	\$ 15,000.00
2195	RADIO MAINTENANCE & REPAIR	\$ 2,500.00	\$ -	\$ 2,500.00	\$ -	\$ 2,500.00
	TOTAL	\$ 416,444.20	\$ 381,029.00	\$ 344,500.00	\$ 362,500.00	\$ 392,500.00
NEW EQUIPMENT (CAPITAL)						
7010	VEHICLES - TRUCK	\$ 70,000.00		\$ 65,000.00	\$ 65,000.00	
7005	MOWER	\$ 20,000.00	\$ 17,300.00			
	TRACTOR WITH BLOWER BRUSHER	\$ 60,000.00	\$ -	\$ 500,000.00	\$ -	\$ 500,000.00
	SNOW PLOW			\$ 389,615.00	\$ 389,615.00	
	TOTAL	\$ 150,000.00	\$ 17,300.00	\$ 954,615.00	\$ 454,615.00	\$ 500,000.00

GL ACCT # 5005	ROADWAYS EXPENDITURES	2024 BUDGET			2025 PROPOSED	2026 BUDGET

BRIDGES, CULVERTS, DRAINS

3100	BRIDGE & CULVERT MTCE	\$ 15,000.00	\$ 667.00	\$ 15,000.00	\$ 5,000.00	\$ 15,000.00
3102	BRIDGE # 7 (ENG. 2025 - CONST. 2026)	\$ -	\$ -	\$ 35,000.00	\$ 28,000.00	
3118	BRIDGE # 2033, 2007, 6 - ENGINEERING DESIGN	\$ 200,000.00	\$ 260,000.00		\$ 6,000.00	
3851	ROAD CROSSINGS DUE TO DRAIN MTCE	\$ 55,000.00		\$ 55,000.00	\$ -	\$ 55,000.00
7021	CULVERT 2027 LOAN PAYMENT	\$ 40,907.00	\$ 40,907.00	\$ 40,907.00	\$ 40,907.00	\$ 40,907.00
TOTAL		\$ 310,907.00	\$ 301,574.00	\$ 145,907.00	\$ 79,907.00	\$ 110,907.00

ROADSIDE

3215	GRASS MOWING & WEED SPRAYING	\$ 5,200.00	\$ 6,921.00	\$ 7,000.00	\$ 6,510.00	\$ 7,000.00
3212	PARK MAINTENANCE	\$ 4,000.00	\$ 3,371.00	\$ 4,000.00	\$ -	\$ 4,000.00
3205	BRUSHING - TREE TRIM AND REMOVAL		\$ 5,785.00	\$ -		\$ 20,000.00
3206	DITCHING	\$ -	\$ 5,373.00	\$ 20,000.00	\$ -	\$ 20,000.00
3322	CATCH BASINS	\$ 2,500.00	\$ 1,870.00	\$ 2,500.00	\$ -	\$ 2,500.00
3610	GUIDE POSTS & HARDWARE	\$ 5,000.00	\$ 235.00	\$ 5,000.00	\$ -	\$ 5,000.00
3315	SHOULDER MAINTENANCE	\$ 5,000.00	\$ 3,700.00	\$ 5,000.00	\$ -	\$ 5,000.00
	SIDEWALK- HORNING'S MILLS LOAN					\$ 14,000.00
	SIDEWALK- HORNING'S MILLS			\$ 25,000.00	\$ 28,000.00	\$ 120,000.00
TOTAL		\$ 21,700.00	\$ 27,255.00	\$ 68,500.00	\$ 34,510.00	\$ 197,500.00

HARDTOP

3304	PREVENTATIVE MAINTENANCE	\$ 20,000.00	\$ 3,000.00	\$ 20,000.00	\$ 5,000.00	\$ 20,000.00
3310	COLD MIX, PATCHING, ROUTINE MTCE	\$ 6,000.00	\$ 2,400.00	\$ 6,000.00	\$ 1,550.00	\$ 6,000.00
3320	SWEEPING, FLUSHING, CLEANING	\$ 5,500.00	\$ 5,088.00	\$ 5,500.00	\$ 5,100.00	\$ 6,000.00
3321	LINE PAINTING	\$ 18,000.00	\$ -	\$ 18,000.00	\$ 10,250.00	\$ 15,000.00
TOTAL		\$ 49,500.00	\$ 10,488.00	\$ 49,500.00	\$ 21,900.00	\$ 47,000.00

LOOSE TOP

3750	TOWNLINES	\$ 1,000.00	\$ 112.00	\$ 1,000.00	\$ 500.00	\$ 1,000.00
3200	ROADSIDE MAINTENANCE	\$ 1,000.00	\$ 1,300.00	\$ 1,000.00	\$ 250.00	\$ 1,000.00
3210	GRAVEL RESURFACING	\$ 400,000.00	\$ 430,458.00	\$ 440,000.00	\$ 475,700.00	\$ 480,000.00
3211	GRAVEL MAINTENANCE	\$ 30,000.00	\$ 15,650.00	\$ 30,000.00	\$ 46,000.00	\$ 36,000.00
3410	DUST LAYER (CALCIUM CHLORIDE)	\$ 170,000.00	\$ 135,318.00	\$ 170,000.00	\$ 180,620.00	\$ 180,000.00
TOTAL		\$ 602,000.00	\$ 582,838.00	\$ 642,000.00	\$ 703,070.00	\$ 698,000.00

GL ACCT # 5005	ROADWAYS EXPENDITURES	2024 BUDGET	2024 Actual	2025 BUDGET	2025 PROPOSED	2026 BUDGET

WINTER CONTROL

3510	SAND & SALT	\$ 65,000.00	\$ 53,065.00	\$ 65,000.00	\$ 57,000.00	\$ 70,000.00
3505	SNOW REMOVAL/BLOWING	\$ 5,000.00	\$ 2,000.00	\$ 6,000.00		\$ 7,500.00
TOTAL		\$ 70,000.00	\$ 55,065.00	\$ 71,000.00	\$ 57,000.00	\$ 77,500.00

ROAD IMPROVEMENT

	CORBETTON LANEWAY	\$ -	\$ -	\$ -		\$ 80,000.00
	7TH LINE SW - 2KM SOUTH OF 077572 7TH LINE	\$ -	\$ -	\$ -		\$ 150,000.00
	15 SR MAIN ST 1 KM EAST	\$ 250,000.00	\$ 141,250.00			
	GEORGE STREET ADDESON ST AND LLOYD ST	\$ 125,000.00	\$ 49,710.00			
	MILL LANE		\$ 102,934.00			
	260 SIDEROAD - 2ND LINE NE TO RIVERVIEW			\$ 750,000.00	\$ 670,000.00	
TOTAL		\$ 375,000.00	\$ 293,894.00	\$ 750,000.00	\$ 670,000.00	\$ 230,000.00

RESERVE

5030	REPLACEMENT EQUIPMENT RESERVE	\$ 220,000.00	\$ 220,000.00	\$ -	\$ -	\$ -
	TRANSFER TO RESERVES FOR INSURANCE SUPRLUS		\$ 15,918.10	\$ -	\$ -	\$ -
	ROAD CAPITAL RESERVES	\$ 50,000.00	\$ 50,000.00	\$ 50,000.00	\$ 50,000.00	\$ 50,000.00
TOTAL		\$ 270,000.00	\$ 285,918.10	\$ 50,000.00	\$ 50,000.00	\$ 50,000.00

TOTAL ROAD EXPENDITURES		\$ 3,183,793.20	\$ 2,814,948.10	\$ 4,084,820.00	\$ 3,474,407.00	\$ 3,338,731.00

GL ACCT # 5007	ENVIRONMENTAL SERVICES EXPENDITURES	2024 BUDGET	2024 Actual	2025 BUDGET	2025 PROPOSED	2026 BUDGET
2171	LEVELLING	\$ 7,500.00	\$ -			
2105	LANDFILL STUDY/MONITORING	\$ 16,318.00	\$ 16,318.00	\$ 16,898.00	\$ 16,898.00	\$ 17,000.00
2190	MISCELLANEOUS	\$ 100.00	\$ -	\$ 100.00	\$ -	\$ 100.00
7001	REHABILITATION RESERVE	\$ 10,000.00	\$ 10,000.00	\$ 10,000.00	\$ 10,000.00	\$ 10,000.00
	TOTAL	\$ 33,918.00	\$ 26,318.00	\$ 26,998.00	\$ 26,898.00	\$ 27,100.00

GL ACCT # 5010	RECREATION SERVICES EXPENDITURES	2024 BUDGET	2024 Actual	2025 BUDGET	2025 PROPOSED	2026 BUDGET
5055	CORBETTON PARK	\$ 2,500.00	\$ 10,500.00	\$ 6,500.00	\$ 3,600.00	\$ 37,500.00
5057	RIVERVIEW PARK (Beautification)			\$ 10,000.00	\$ -	\$ 5,000.00
6060	HORNING'S MILLS PARK	\$ 12,000.00	\$ 11,000.00	\$ 12,000.00	\$ 12,000.00	\$ 12,000.00
	HORNING'S MILLS PARK UPGRADES (TWP PORTION)			\$ 150,000.00	\$ -	\$ -
6065	HORNING'S MILLS COMMUNITY HALL	\$ 15,000.00	\$ 47,497.00	\$ 22,500.00	\$ 26,000.00	\$ 15,000.00
6063	HORNING'S MILLS HALL PARKING LOT (capital)		\$ 12,733.00	\$ -	\$ -	\$ -
6064	HORNING'S MILLS HALL BLDNG (Trillium Grant)		\$ 41,183.00	\$ -		
6066	HORNING'S MILLS HERITAGE PROJECT	\$ 500.00	\$ 252.20	\$ 500.00	\$ 372.00	\$ 500.00
6070	CENTRE DUFFERIN RECREATION COMPLEX	\$ 60,000.00	\$ 79,904.00	\$ 84,000.00	\$ 84,000.00	\$ 90,612.00
6080	DUNDALK COMMUNITY CENTRE	\$ 16,200.00	\$ 15,600.00	\$ 16,700.00	\$ 16,700.00	\$ 18,000.00
6100	NORTH DUFFERIN COMMUNITY CENTRE	\$ 20,000.00	\$ 1,427.00	\$ 29,000.00	\$ 31,000.00	\$ 32,550.00
6200	HERITAGE COMMITTEE	\$ 3,500.00	\$ 253.00	\$ 2,000.00	\$ 1,500.00	\$ 2,500.00
	TOTAL	\$ 129,700.00	\$ 220,349.20	\$ 333,200.00	\$ 175,172.00	\$ 213,662.00

GL ACCT # 5016	CEMETARY EXPENDITURES	2024 BUDGET	2024 Actual	2025 BUDGET	2025 PROPOSED	2026 BUDGET
8902	HORNING'S MILLS CEMETERY	\$ 5,000.00	\$ 341.00	\$ 5,000.00		\$ -
8904	ST. PAUL'S CEMETERY					
	TOTAL	\$ 5,000.00	\$ 341.00	\$ 5,000.00	\$ -	\$ -

GL ACCT # 5011	LIBRARY EXPENDITURES	2024 BUDGET	2024 Actual	2025 BUDGET	2025 PROPOSED	2026 BUDGET
6110	SHELBURNE LIBRARY	\$ 60,000.00	\$ 60,000.00	\$ 62,968.00	\$ 62,968.00	\$ 66,120.00
6120	DUNDALK LIBRARY	\$ 9,490.00	\$ 9,490.00	\$ 9,920.00	\$ 9,500.00	\$ 10,400.00
	TOTAL	\$ 69,490.00	\$ 69,490.00	\$ 72,888.00	\$ 72,468.00	\$ 76,520.00

GL ACCT # 5012	PLANNING SERVICES EXPENDITURES	2024 BUDGET	2024 Actual	2025 BUDGET	2025 PROPOSED	2026 BUDGET
2100	PROFESSIONAL/LEGAL FEES	\$ 60,000.00	\$ 20,000.00	\$ 25,000.00	\$ 15,000.00	\$ 10,000.00
2111	BUILDING PERMIT REVIEW					
2307	LEGALS/PROFESSIONAL FEES STRADA				\$ 25,000.00	\$ 100,000.00
2108	OFFICIAL PLAN	\$ 50,000.00	\$ -	\$ 100,000.00	\$ 20,000.00	\$ 100,000.00
2109	NEW ZONING BY-LAW	\$ 75,000.00	\$ -		\$ -	\$ -
2101	LPAT/OLT APPEALS				\$ -	\$ -
2102	LPAT/OLT APPEALS RESERVES	\$ 15,000.00	\$ 15,000.00	\$ -	\$ -	\$ 150,000.00
2304	STRADA OPA/ZBA		\$ 55.00		\$ -	\$ -
	TOTAL	\$ 200,000.00	\$ 35,055.00	\$ 125,000.00	\$ 60,000.00	\$ 360,000.00

GL ACCT # 5009	DRAINAGE EXPENDITURES	2024 BUDGET	2024 Actual	2025 BUDGET	2025 PROPOSED	2026 BUDGET
3060	DRAINAGE SUPERINTENDENT	\$ 50,000.00	\$ 22,032.00	\$ 60,000.00	\$ 42,253.00	\$ 60,000.00
3070	NUISANCE BEAVER & BEAVER DAM REMOVAL	\$ 5,000.00	\$ 6,071.00	\$ 5,000.00	\$ 5,000.00	\$ 5,000.00
	TOTAL	\$ 55,000.00	\$ 28,103.00	\$ 65,000.00	\$ 47,253.00	\$ 65,000.00

TOTAL EXPENITURER		\$ 5,758,757.20	\$ 5,185,744.54	\$ 6,769,368.00	\$ 5,892,893.00	\$ 6,254,442.00

GL ACCT #	TAXATION REVENUE	2024 BUDGET	2024 Actual	2025 BUDGET	2025 PROPOSED	2026 BUDGET
4001 0700	SUPPLEMENTAL TAXES	\$ 90,000.00	\$ 108,912.00	\$ 100,000.00	\$ 67,840.00	\$ 80,000.00
4003 0100	PAYMENT IN LIEU	\$ 2,050.00	\$ 2,015.00	\$ 2,050.00	\$ 2,120.00	\$ 2,150.00
	TOTAL TAXATION REVENUE	\$ 92,050.00	\$ 110,927.00	\$ 102,050.00	\$ 69,960.00	\$ 82,150.00

GL ACCT # 4004	GRANT REVENUE	2024 BUDGET	2024 Actual	2025 BUDGET	2025 PROPOSED	2026 BUDGET
150	OMPF	\$ 168,900.00	\$ 168,900.00	\$ 193,300.00	\$ 193,300.00	\$ 206,700.00
300	RIDE GRANT	\$ 7,508.00	\$ 6,600.00	\$ 6,600.00	\$ 6,600.00	\$ 6,600.00
172	COURT SECURITY & PRISONER TRANSPORT	\$ 730.00	\$ 1,100.00	\$ 1,100.00	\$ 1,100.00	\$ 1,100.00
500	LIBRARY GRANT	\$ 4,452.00	\$ 4,452.00	\$ 4,452.00	\$ 4,452.00	\$ 4,552.00
156	OCIF FUNDING (FORMULA COMPONENT)	\$ 100,000.00	\$ 100,000.00	\$ 110,361.00	\$ 110,361.00	\$ 125,000.00
	MUNICIPAL EMERGENCY REDINESS FUNDS			\$ 12,500.00	\$ 12,500.00	\$ -
700	ONTARIO AGGREGATE LIC. FEE	\$ 100,000.00	\$ 86,573.00	\$ 85,000.00	\$ 64,412.00	\$ 65,000.00
	POTHOLE GRANT					\$ 5,000.00
100	DRAINAGE SUPERINTENDENT	\$ 25,000.00	\$ 24,052.00	\$ 30,000.00	\$ 21,127.00	\$ 30,000.00
	TOTAL COUNCIL REVENUE	\$ 406,590.00	\$ 391,677.00	\$ 443,313.00	\$ 413,852.00	\$ 443,952.00

GL ACCT # 4010	ADMINISTRATION REVENUE	2024 BUDGET	2024 Actual	2025 BUDGET	2025 PROPOSED	2026 BUDGET
100	TAX CERTIFICATES	\$ 2,500.00	\$ 3,000.00	\$ 2,800.00	\$ 3,000.00	\$ 2,500.00
110	TAX STATEMENT/DUPLICATE TAX BILLS	\$ 500.00	\$ 560.00	\$ 500.00	\$ 600.00	\$ 500.00
115	REMINDER/OVERDUE NOTICE FEE	\$ 3,000.00	\$ 2,234.00	\$ 3,000.00	\$ 3,000.00	\$ 3,000.00
200	BUILDING PERMIT APPROVAL	\$ 5,500.00	\$ 4,950.00	\$ 5,300.00	\$ 4,500.00	\$ 4,500.00
250	SITE ALTERATION PERMIT APPROVAL	\$ 500.00		\$ 500.00	\$ 1,500.00	\$ 500.00
300	NSF CHEQUE CHARGE	\$ 200.00	\$ 70.00	\$ 100.00	\$ 70.00	\$ 70.00
4015 0100	DOG LICENCES	\$ 10,000.00	\$ 9,580.00	\$ 9,500.00	\$ 9,700.00	\$ 9,700.00
4066 0000	LOTTERY LICENSES	\$ 20.00	\$ 20.00	\$ 20.00	\$ 20.00	\$ 20.00
4040 0100	LIVESTOCK CLAIM GRANTS	\$ 3,000.00	\$ 2,017.50	\$ 3,000.00	\$ 1,000.00	\$ 2,000.00
	TAX SALE PROCEEDS (2024)	\$ 68,444.20	\$ 68,444.00	\$ -		
	TOTAL ADMINISTRATION REVENUE	\$ 93,664.20	\$ 90,875.50	\$ 24,720.00	\$ 23,390.00	\$ 22,790.00

GL ACCT # 4012	FIRE REVENUE	2024 BUDGET	2024 Actual	2025 BUDGET	2025 PROPOSED	2026 BUDGET
100	FIRE REVENUE	\$ 2,000.00	\$ 2,900.00	\$ 2,000.00	\$ 13,566.00	\$ 4,000.00
300	FIRE PERMIT	\$ 3,500.00	\$ 3,690.00	\$ 3,500.00	\$ 5,025.00	\$ 3,500.00
	TOTAL FIRE REVENUE	\$ 5,500.00	\$ 6,590.00	\$ 5,500.00	\$ 18,591.00	\$ 7,500.00

GL ACCT # 4020	ROAD REVENUE	2024 BUDGET	2024 Actual	2025 BUDGET	2025 PROPOSED	2026 BUDGET
110	ROADS MISC REVENUE	\$ 750.00	\$ 24,150.00	\$ 1,000.00	\$ 1,400.00	\$ 1,000.00
115	ROAD OCCUPANCY PERMITS	\$ 9,500.00	\$ 12,000.00	\$ 8,000.00	\$ 9,125.00	\$ 8,000.00
125	ENTRANCE PERMITS	\$ 4,000.00	\$ 5,400.00	\$ 3,000.00	\$ 5,400.00	\$ 3,000.00
130	WIDE LOAD PERMITS	\$ 1,000.00	\$ 200.00	\$ 200.00	\$ 200.00	\$ 200.00
200	CULVERTS					
	ICE STORM RECOVER GRANTS				\$ 10,000.00	\$ 29,000.00
500	SHELburne ROAD AGREEMENT	\$ 6,887.00	\$ 6,887.00	\$ 7,094.00	\$ 7,094.00	\$ 7,235.00
	TRANSFER FROM RESERVES					
703	TRFR FROM GAS TAX (CORBETTON)	\$ 100,000.00	\$ 100,000.00	\$ 100,000.00	\$ 100,000.00	\$ 80,000.00
	TRFR FROM GAS TAX (7TH LINE)					\$ 25,000.00
704	TRFR FROM ROAD CAPITAL RESERVE	\$ -	\$ -	\$ -		
702	TRFR FROM EQUIPMENT RESERVE - TRUCK	\$ 120,000.00	\$ 17,300.00	\$ 514,615.00	\$ 514,615.00	\$ -
	TRFR FROM WORKING TO FUND LPAT (NOT USED IN 2025 FOR PARKS)					\$ 150,000.00
700	TRFR FROM Working (Asset Management)		\$ 41,610.00			
	TRFR DEV CHG (DC STUDY)(BRIDGE STUDY)	\$ 27,000.00	\$ 28,020.00	\$ 9,000.00	\$ 8,500.00	
	TRFR DEV CHG (ZONING BY-LAW)			\$ 67,500.00	\$ -	\$ 67,500.00
	TRFR TAX STABILIZATION (Risk Asses & Strat Plan)	\$ 217,000.00	\$ 43,193.00			
	TRFR WORKING (HM PARK UPGRADES-GRANT)			\$ 150,000.00	\$ -	\$ -
	TRFR DEV CHG (SNOW BLOWER)			\$ 500,000.00	\$ -	\$ 500,000.00
	TRFR MMAH (HYBRID COUNCIL CHAMBERS)	\$ 16,000.00	\$ -	\$ 12,500.00	\$ 12,500.00	
	TRFR WORKING (ROAD PROJECTS)			\$ 200,000.00	\$ 200,000.00	
	TRFR WORKING (BRIDGE)	\$ 200,000.00	\$ 200,000.00			
	TRFR WORKING (ZONING BY-LAW)			\$ 32,500.00	\$ -	\$ 32,500.00
	TRFR WORKING (ROADS)	\$ 200,000.00	\$ 86,620.00	\$ -		
	TOTAL ROADS REVENUE	\$ 902,137.00	\$ 565,380.00	\$ 1,605,409.00	\$ 868,834.00	\$ 903,435.00

GL ACCT # 4035	PLANNING REVENUE	2024 BUDGET	2024 Actual	2025 BUDGET	2025 PROPOSED	2026 BUDGET
100	OFFICIAL PLAN APPLICATION		\$ 5,000.00	\$ 1,000.00	\$ 13,000.00	\$ 1,000.00
310	SITE PLAN APPLICATION FEES	\$ 750.00	\$ 500.00	\$ 750.00	\$ 5,000.00	\$ 500.00
350	ZONING BY-LAW AMENDMENT	\$ 3,000.00	\$ 10,000.00	\$ 6,000.00	\$ 21,000.00	\$ 6,000.00
300	CONSENT APPLICATIONS	\$ 8,000.00	\$ -	\$ 2,000.00	\$ 6,000.00	\$ 2,000.00
325	MINOR VARIANCE	\$ 2,000.00	\$ -	\$ 2,000.00	\$ 4,000.00	\$ 2,000.00
200	ZONING REQUESTS	\$ 1,200.00	\$ 3,000.00	\$ 2,000.00	\$ 2,500.00	\$ 2,000.00
360	CHANGE OF USE CERTIFICATE APPLICATION	\$ 2,500.00	\$ 3,764.00	\$ 2,500.00	\$ 1,000.00	\$ 1,000.00
375	PRE-APPLICATION CONSULTATION	\$ 10,000.00	\$ 7,582.00	\$ 4,000.00	\$ 2,000.00	\$ 2,000.00
	TRAILER LICENSES		\$ 160.00			
500	PROFESSIONAL SERVICES REIMBURSEMENT	\$ 30,000.00		\$ 10,000.00	\$ 10,000.00	\$ 10,000.00
320	SUBDIVISION AGREEMENT		\$ 10,000.00	\$ -		
	TOTAL PLANNING REVENUE	\$ 57,450.00	\$ 40,006.00	\$ 30,250.00	\$ 64,500.00	\$ 26,500.00

GL ACCT # 4050	OTHER REVENUE	2024 BUDGET	2024 Actual	2025 BUDGET	2025 PROPOSED	2026 BUDGET
100	MISCELLANEOUS REVENUE	\$ 600.00	\$ 9,633.00	\$ 1,000.00	\$ 1,100.00	\$ 1,000.00
125	CHD COMMUNITY CONTRIBUTION	\$ 309,000.00	\$ 309,000.00	\$ 309,000.00	\$ 309,000.00	\$ 309,000.00
130	PLATEAU COMMUNITY CONTRIBUTION	\$ 35,000.00	\$ 37,998.30	\$ 38,000.00	\$ 38,000.00	\$ 38,000.00
135	DWP COMMUNITY CONTRIBUTION	\$ 264,000.00	\$ 291,169.66	\$ 291,000.00	\$ 291,000.00	\$ 291,000.00
4015 0400	BY-LAW INFRACTION TO TAXES	\$ 6,000.00	\$ 17,905.00	\$ 10,000.00	\$ 26,478.00	\$ 20,000.00
200	PENALTIES AND INTEREST ON TAXES	\$ 105,000.00	\$ 116,662.00	\$ 105,000.00	\$ 132,000.00	\$ 120,000.00
300	INTEREST ON DEPOSITS	\$ 100,000.00	\$ 165,474.33	\$ 130,000.00	\$ 95,000.00	\$ 85,000.00
400	POA	\$ 50,000.00	\$ 48,968.01	\$ 50,000.00	\$ 68,404.00	\$ 35,000.00
4077 0000	LAND RENTAL	\$ 2,550.00	\$ 2,550.00	\$ 5,775.00	\$ 5,347.00	\$ 5,455.00
	TRFR FROM EMERGENCY RELIEF FUND	\$ 25,000.00	\$ 25,000.00	\$ 9,115.00	\$ 9,115.00	
	TRFR FROM PARKS ACCOUNT/DC's for Park			\$ 10,000.00	\$ 10,000.00	\$ 20,000.00
	TRFR FROM WORKING FOR ELECTION/ipads					\$ 19,000.00
	LOAN FOR SIDEWALK					\$ 90,000.00
	TRFR FROM DC SIDE WALK (25%)	\$ -	\$ -			\$ 30,000.00
	HORNINGS MILLS OTF PROJECT	\$ -	\$ 6,200.00			
	2024 SURPLUS TO ASSIST IN ROADS CAPITAL PROJECT			\$ 100,000.00	\$ 100,000.00	
	TOTAL OTHER REVENUE	\$ 897,150.00	\$ 1,030,560.30	\$ 1,058,890.00	\$ 1,085,444.00	\$ 1,063,455.00
	TOTAL REVENUE	\$ 2,454,541.20	\$ 2,236,015.80	\$ 3,270,132.00	\$ 2,544,571.00	\$ 2,549,782.00
	TOTAL EXPENDITURES	\$ 5,758,757.20	\$ 5,185,744.54	\$ 6,769,368.00	\$ 5,892,893.00	\$ 6,254,442.00
		\$ 3,304,216.00	\$ 2,949,728.74	\$ 3,499,236.00	\$ 3,348,322.00	\$ 3,704,660.00
		0.00%		5.87%	INCREASE	5.87%
		1.07%			Including Growth	4.80%



The Corporation of the

TOWNSHIP OF MELANCTHON

157101 Highway 10, Melancthon, Ontario, L9V 2E6

STAFF REPORT

To: Mayor and Members of Council

From: Treasurer

Date: March 5, 2026

Subject: 2026 Budget – O. Reg. 284/09 Report

RECOMMENDATION

That Council receive the report regarding Ontario Regulation 284/09;

And that Council approve the exclusion of amortization, post-employment benefits, and landfill closure/post-closure expenses from the 2026 Budget.

PURPOSE

Ontario Regulation 284/09 requires municipalities that prepare budgets on a modified cash basis to report on the impact of excluding certain Public Sector Accounting Standards (PSAS) expenses.

This report satisfies that requirement for the Township of Melancthon's 2026 Budget.

2026 BUDGET SUMMARY

Total 2026 Expenditures: \$6,254,442

Total 2026 Revenues: \$2,549,782

Major expenditure areas:

- Transportation Services: \$3,338,731
- Protection to Persons & Property: \$1,171,492
- General Government Services: \$1,001,937

The budget is prepared on a modified cash basis and includes operating costs, capital expenditures (including \$500,000 New Equipment and \$230,000 Road Improvements), and transfers to reserves (\$50,000).

PSAS EXPENSES EXCLUDED

The following accounting expenses required for financial statement purposes are **not included** in the 2026 Budget:

1. Amortization

Represents the annual accounting allocation of the Township's tangible capital assets (roads, equipment, buildings, etc.).

- Non-cash expense
- Does not affect annual cash flow
- Does not impact levy requirements unless funded

2. Post-Employment Benefits

The Township is in the process of adopting a retirement benefit plan. This plan is not yet applicable for current budgeting purposes, as no employees are expected to retire and draw benefits under the plan for several years. Accordingly, no expenditures for this plan are included in the 2026 budget.

3. Landfill Closure/Post-Closure (if applicable)

The Township maintains a landfill site that has been **closed but not fully decommissioned**. To fund closure and post-closure obligations, the Township contributes **\$10,000 annually** to a dedicated reserve. The current balance of this reserve is **\$196,885.00**. Contributions to this reserve are **excluded from taxation funding**, in accordance with O. Reg. 284/09.

4. Other Reserves and Exclusions

Other reserves, such as capital reserves and specific-purpose funds, continue to be reported in accordance with O. Reg. 284/09 and are excluded from taxation requirements.

FINANCIAL IMPACT

If amortization and other PSAS adjustments were included:

- Total expenses would increase significantly
- An accounting deficit would be reported
- There would be **no impact on cash flow, reserves, or service delivery**

Capital asset replacement is addressed through:

- Annual capital investments (Transportation \$3,338,731)
- Equipment replacement (\$500,000)
- Infrastructure improvements (\$230,000 Road Improvements)
- Reserve contributions (\$50,000)

CONCLUSION

The Township of Melancthon's 2026 Budget is prepared in accordance with municipal budgeting practices in Ontario.

Excluding amortization and other non-cash PSAS expenses:

- Is permitted under O. Reg. 284/09
- Does not create a structural deficit
- Does not affect service levels
- Does not impact the tax levy calculation

This report fulfills the legislative requirement under Ontario Regulation 284/09.

Respectfully Submitted,

Sarah Culshaw
Treasurer

Reviewed By:

Denise Holmes
CAO/Clerk

Denise Holmes

From: James McLean
Sent: Wednesday, February 18, 2026 3:36 PM
To: Denise Holmes
Subject: Remuneration Report for Council
Attachments: Melancthon_Council_Remuneration_Report_2026 - February 2026.pdf

Hi Denise,

Attached is the draft Remuneration Report for Council.

I've aimed to synthesize the ideas and comments raised by various Council members throughout the year, adding data and research to help ground the conversation. This is really intended as a "conversation starter" to help us weigh different paths forward, so I look forward to hearing the team's thoughts on where we go from here.

Thanks,

James

REPORT TO COUNCIL

Remuneration Realignment

DATE: February 16, 2026

SUBJECT: Structural Adjustment to Council Salaries and Professional Governance Framework

1. Executive Summary

Over the past 3.5 years, Council has identified a critical need to transition toward a remuneration framework defined by transparency, consistency, and accountability. This need is in response to the largely arbitrary approach to compensation taken in previous years, as well as the failure to appropriately compensate members for the evolving demands of municipal office.

As the Township has experienced significant growth in workload over the past several years—driven by increasingly technical files and shifting legislative requirements—the status quo no longer reflects the professional commitment required of local representatives. With the coming term poised to bring even more complex governance challenges and with limited staff resource support, this structural realignment ensures that the Township is equipped with a stable, professional, and equitable foundation for decision-making and leadership. This report is intended to support Council deliberations on salaries using an evidence-based approach to inform decision-making.

The current compensation model for Melancthon Township's Council is currently anchored to a 'volunteer-stipend' philosophy that no longer aligns with the statutory, fiduciary, and time-intensive demands of modern municipal governance. Since the last major structural review in 2014, the legislative environment in Ontario has shifted significantly, placing increased legal and technical burdens on local elected representatives.

To maintain the Township's ability to attract qualified individuals and provide effective oversight of multi-million dollar corporate assets, this report proposes a transition to a 'Professional Salary' approach. Under this proposal, two models are examined that would increase the base salaries for the Mayor, Deputy Mayor and Councillors. Crucially, both include the strategic phase-out of extra compensation (per diems) for attending committee and board meetings, simplifying the budget while ensuring equitable pay for the total volume of work performed.

2. Benchmarking Analysis: The Regional Market Gap

Melancthon is a small, rural lower-tier municipality in Dufferin County that nonetheless faces a disproportionately high volume of complex, often controversial issues (aggregate mining, wind development, land use pressures, and agricultural policy). After a 2014 salary review, Melancthon's Council Remuneration Sub-Committee concluded that Council wages were comparable to similar-sized municipalities, and Council adopted a cost-of-living increase bringing remuneration to \$14,518.44 for the Mayor, \$10,063.74 for the Deputy Mayor and \$9,074.07 for Councillors. Since that time, no evidence-based review has taken place despite an arbitrary increase in the 2018-22 Council term that increased salaries for all members except the Mayor. Since the last professional review, responsibilities, public expectations, and the complexity of files have continued to grow, while remuneration has not kept pace with either inflation or contemporary comparators.

in Ontario. As of 2024, the salary is \$19,758 for Melancthon’s Mayor, \$17,056 for the Deputy Mayor and \$15,796 for each Councillor.ⁱ

The "Orangeville Shift": A Regional Market Correction

Orangeville, our largest neighbor in Dufferin County, recently conducted a comprehensive market review for the 2026–2030 term. They adopted a 60th percentile target to remain competitive.

Table 1: Council salaries for Orangeville and Melancthon

Position	Orangeville (2026-2030)	Melancthon (Current)
Mayor	\$82,358	\$19,758
Deputy Mayor	\$49,454	\$17,056
Councillor	\$44,958	\$15,796

Council salaries in small rural municipalities

Evidence from comparable small municipalities in Ontario shows that councils performing similar or fewer responsibilities are remunerated at or above the levels now being proposed for Melancthon. In Tiny Township, the 2022 Council Remuneration By-law set annual remuneration at \$41,200.80 for the Mayor, \$30,901.02 for the Deputy Mayor and \$26,780.24 for Councillors, supplemented by per diem payments for additional meetings. This establishes that small, rural municipalities are already compensating councils at or near the proposed salary band for Melancthon (see sections below), even before considering Melancthon’s unique workload profile.

In Meaford, a small lower-tier municipality, base salary levels are \$45,400 for the Mayor, \$30,700 for the Deputy Mayor and \$24,500 for Councillors. More recent reporting shows that by 2024, Meaford’s Mayor earned \$48,292.80 in taxable remuneration (plus expenses), the Deputy Mayor \$32,656.08 (plus expenses), and Councillors \$26,061.24 each. These figures demonstrate that the current Melancthon salaries are outliers; they are outside of the evolving market range for small municipalities, particularly when recognizing Melancthon’s desire to attract and retain capable council members for increasingly complex policy and governance work.

Table 2: Small rural municipality council salaries by position

Municipality	Mayor	Deputy Mayor	Councillor
Meaford (2024) ⁱⁱ	\$48,292	\$32,656	\$26,061
Adjala-Tosorontio ⁱⁱⁱ	\$43,896	\$34,883	\$25,871
Tiny Township ^{iv}	\$41,200	\$30,901	\$26,780
Grey Highlands (2026) ^v	\$39,500	\$29,500	\$22,500
Melancthon (2024)	\$19,758	\$17,056	\$15,796

Table 2 shows that Melancthon's current remuneration is significantly below contemporary peers, and that the proposed salaries would align the township with the lower to mid-range of current small-municipality practice.

A data-driven analysis of neighboring municipalities reveals that Melancthon has become a significant statistical outlier. As surrounding jurisdictions professionalize their councils to meet modern demands, Melancthon's 2024-era rates have fallen into a 'governance gap'.

3. Professionalizing the Role: Growing Complexity & Fiduciary Responsibility

Council roles in small municipalities are formally part-time, but the actual workload has grown to approximate a full-time or near full-time commitment. In Meaford, while council positions are officially part-time, members spend many hours reading hundreds of pages of reports, attending meetings and responding to constant resident correspondence, making it "a full-time job, or close to it" for many. Melancthon council members face a similar or greater burden, dealing with contested land use applications, energy projects, provincial policy changes, and regional collaboration, often with limited staff resources compared to larger centres.^{vi}

The argument that small towns require only "part-time" oversight is a relic of the past. Melancthon Council now oversees a multi-million dollar public corporation facing technical challenges that mirror those of much larger urban centres.

a) Aggregate Management: The "Strada Quarry" Full-Time Mandate

The Strada Quarry application has fundamentally changed the scope of Council work. Unlike standard aggregate renewals, this below-the-water-table application has introduced a level of complexity that requires near-daily attention. Council is currently managing:

- **Constant Technical Oversight:** Regular consultations with hydrogeologists, lawyers, and noise/air quality peer reviewers to analyze thousands of pages of technical data.
- **Inter-Governmental Lobbying:** High-level meetings with provincial officials and MNRF representatives to protect local aquifers.
- **Community Coordination:** Acting as a bridge between specialized legal teams and concerned community groups (e.g., Melancthon Against Quarries, etc.).
- **Expansion Pressure:** With other major applications (e.g., Duivenvoorden expansion) also in the works, this is no longer a one-off file; it is a permanent, high-intensity regulatory role.

b) Renewable Energy Hub: The Fiscal Renewal Imperative

Melancthon is home to one of Canada's largest wind farms, which provides a significant portion of the Township's annual revenue. However, these Community Vibrancy Agreements are voluntary and are set for re-negotiation in the upcoming term.

- **Fiscal Risk:** The Township's financial health relies on these voluntary payments.
- **Negotiation Burden:** Successfully renewing these agreements will require a sophisticated, professionalized Council capable of high-stakes corporate negotiation. Failure to secure these revenues would result in an immediate and drastic tax burden on residents.

c) Provincial Legislative Burden: Navigating "Constant Change"

Recent and ongoing changes from the Government of Ontario (e.g., Bills 23, 97, and 185) have effectively moved land-use decision-making onto a "fast-track" system.

- **Resident Navigators:** In a rural municipality with limited planning staff, Council members have become the primary "navigators" for residents trying to understand new building rules and land-use permissions.
- **County-Level Advocacy:** The role now requires a full-time commitment to push for Melancthon's interests at the Dufferin County level, ensuring that provincial "one-size-fits-all" housing mandates do not destroy the Township's agricultural character or infrastructure capacity.

The Township of Melancthon is a multi-million dollar corporation. In 2026, the Council is responsible for an operating and capital budget around \$7.4M and infrastructure assets valued in the millions.

4. Two Models for Future Council Salaries

To ensure the professionalization of our governance, this proposal moves away from arbitrary honorariums and toward a Professional Salary approach. Two models are explored.

a) Model 1: The "CAO-Equivalent" Compensation Model

The CAO-Indexed model takes the CAO's annual salary¹ and allocates percentages of that salary to members of Council on a weighted basis proportionate to their respective responsibilities and title. This model removes the political friction of Council having to vote on its own pay raises by creating an automatic, indexed link to our professional staff's compensation structure.

To ensure that future compensation debates are grounded in math rather than optics, this proposal ties elected representative salaries to the CAO salary, ensuring Council pay keeps pace with inflation and professional standards without requiring annual manual adjustments. The formula ensures that the cost of the Council should not exceed the cost of the CAO.

Table 3: Council salaries as a percentage of the CAO salary

Position	Weighting	Annual Salary
CAO (2025 salary)	-	\$171,221
Mayor	24%	\$41,093.04
Deputy Mayor	22%	\$37,668.62
Councillor (x3)	18% each	\$30,819.78
TOTAL	100%	\$171,221

Strategic Advantages of This Model

- **Automatic Indexing:** By tying Council pay to a percentage of the CAO salary, the Township eliminates the need for Council to vote on their own raises ever again. When the CAO receives a Cost-of-Living Adjustment (COLA) or a performance increase, the Council "pool" increases proportionately. This removes the need for salary discussions in future agendas.
- **The "One-to-One" Ratio:** It creates a simple and predictable salary structure based on the premise that: The oversight of the entire municipality (The Council) should cost no more than the top executive (The CAO). It ensures that as the organization grows and executive pay increases to stay competitive, the Council's compensation keeps pace automatically.

¹ In Melancthon, the CAO also functions as the Clerk, consolidating two senior executive roles into one. This deviates from the standard municipal model, which typically requires funding two distinct executive salaries for these functions.

b) Model 2: Treating Council as Part-Time Employees

Rather than focus on peer municipality salary comparisons completely, this model accounts for administrative limitations and complexity inherent in the Township's unique operational structure. Melancthon's dedicated team of four professional staff operates with remarkable efficiency. However, given this lean structure, Council recognizes that staff bandwidth is fully committed to core operations. To safeguard staff capacity and respond to increasingly complex files, Council has stepped up to play a more integrated role in Township affairs. This ensures that major files move forward through a true partnership between elected officials and our professional team. This structural shift has been necessitated by high-intensity issues like aggregate applications, windmill negotiations, provincial advocacy and complex planning issues.

As such, Model 2 accounts for the more hands-on approach that Council members have taken on. It is not tied to a specific benchmark per se, but would increase salaries on the higher end of some rural municipalities. Model 2 envisions salaries of \$45,000 for the Mayor, \$42,000 for the Deputy Mayor and \$39,000 for each Councillor.

If Model 2 is selected, Council will need to make decisions about how future salary increases (e.g., COLA) would be handled.

Table 4: Small rural municipality council salaries by position with two models for Melancthon

Municipality	Mayor	Deputy Mayor	Councillor
Meaford (2024) ^{vii}	\$48,292	\$32,656	\$26,061
Adjala-Tosorontio ^{viii}	\$43,896	\$34,883	\$25,871
Tiny Township ^x	\$41,200	\$30,901	\$26,780
Grey Highlands (2026) ^x	\$39,500	\$29,500	\$22,500
Melancthon (2024)	\$19,758	\$17,056	\$15,796
Melancthon (Model 1)	\$41,093	\$37,668	\$30,819
Melancthon (Model 2)	\$45,000	\$42,000	\$39,000

5. Fiscal Impact & Value for Money

Even in municipalities that have already moved to higher council salaries, the overall budget impact is modest in relation to the municipal tax levy. In Meaford, the total cost for all seven members of council in 2024, including remuneration and sundry expenses, was \$235,115—just 1.3 percent of an \$18.4 million tax-supported levy.

This example shows that even robust council remuneration packages remain a small fraction of municipal operating costs, while enabling more effective leadership and decision-making.^{xi}

The same logic applies in Melancthon: council functions as the board of directors of a multi-million-dollar public corporation, responsible for risk, compliance, financial stewardship and strategic direction.

Currently, Melancthon's total Council cost represents 1.42% of all of Township expenditures (\$7.4M). Increasing this to the proposed levels in Model 1 would move that figure to approximately 2.31%, a marginal investment for the oversight of the Township's largest financial risks. Put another way, it represents a 1.89% tax levy increase.

If Council adopted Model 2, total Council salaries as a percentage of total expenditures would be 2.76%, or 2.83% of the tax levy.

Providing competitive remuneration is consistent with the level of fiduciary responsibility and risk assumed, and supports professionalization and stability in municipal governance.^{xii}

When compared to the potential costs of missed meetings due to professional obligations, recruitment challenges, or suboptimal decision-making stemming from under-compensation, the investment in council remuneration is fiscally prudent. Council's decisions shape long-term infrastructure, land use, and service delivery outcomes that far exceed the incremental cost of salary adjustments.

While the percentage increase looks high, the absolute dollar impact on the taxpayer is minimal.

- **The "Price of a Coffee":** An increase of ~\$90,000 in total Council remuneration across the whole Township equates to approximately \$25.71 per resident per year or \$2.14 per month.²
- **Prevention of Costs:** One "bad" decision on a legal settlement, a poorly negotiated haul route agreement, or a missed provincial grant opportunity—often the result of a rushed or "part-time" Council—could cost the Township hundreds of thousands of dollars. Professional pay ensures professional focus.

6. Equity, Recruitment and Retention: Risk of Under-Compensation

Under-compensation can inadvertently limit who can realistically serve on council, favouring individuals with independent wealth, flexible employment or retirement income, and narrowing the diversity of voices at the table. Jurisdictions that have reviewed council remuneration, such as Tiny and Meaford, have framed adjustments as a way to ensure fair compensation and to recognize the true time and skill demands of the role. By aligning salaries with contemporary comparators, Melancthon can improve its ability to attract and retain qualified candidates from a broader range of backgrounds.^{xiii}

Higher, market-aligned remuneration also signals respect for the work undertaken by Council and may help mitigate burnout, particularly in small municipalities where

² Assumes a population of ~3,500 divided by \$90,000.

contentious, time-consuming files (e.g., aggregate, wind, and planning matters) are frequent. This, in turn, supports continuity of experience on Council, better long-term planning, and improved service to residents. The proposed salary framework therefore advances equity, institutional capacity, and democratic representation, while aligning Melancthon with the evolving standard among Ontario's small municipalities.

A Muskoka District 2025 report^{xiv} highlights that when "current rates for all positions are below all market comparison data points" this leads to:

1. **High Turnover:** Qualified individuals cannot afford to stay for multiple terms.
2. **Narrow Candidate Pool:** Only those with supplemental income can run (limiting diversity).
3. **Suboptimal Oversight:** If the pay reflects "volunteer" status, the accountability remains "volunteer" status.

Using the Ontario Living Wage Network rate (\$24.60/hr), a 25-hour work week equates to \$31,980 annually. The proposed \$30,819 for a Councillor salary in Model 1 is the minimum threshold to ensure a diverse Council including working farmers and parents.³

7. Fiscal Option: Phasing Out Per Diems

The Professional Salary Model could phase out all extra meeting compensation for internal committees. This removes administrative burden and provides total budget reliability and transparency to residents.

8. Discussion

To assist Council in navigating the proposed changes to the remuneration framework, the following decision-points have been identified. These options represent the various paths toward finalizing a compensation structure that balances fiscal responsibility with the professional demands of the office.

Option 1: Adopt the CAO-Indexed Model

Council may choose to approve a remuneration pool equivalent to the CAO's current salary (\$171,221). This model establishes a corporate-style "ceiling" where the total cost of the Board does not exceed the cost of the Chief Executive.

³ Tying Council salaries to the CAO's salaries generates a conservative number for Councillors that is modestly below the Ontario Living Wage Network rate.

- **Proposed Figures:** Mayor (\$41,093), Deputy Mayor (\$37,668), Councillors (\$30,819).
- **Impact:** A 1.89% tax levy increase.
- **Benefit:** Provides automatic indexing for future terms, removing the political friction of Council-voted raises.

Option 2: Adopt the Complexity-Based Model

Alternatively, Council may adopt a model that recognizes the "hands-on" role required of Council members with a small administrative team and large files facing the municipality.

- **Proposed Figures:** Mayor (\$45,000), Deputy Mayor (\$42,000), Councillors (\$39,000).
- **Impact:** A 2.83% tax levy increase.
- **Benefit:** Aligns more closely with regional municipalities with complex files and accounts for the lack of deep departmental support.

Option 3: Maintain Status Quo

Council may elect to remain with the current remuneration structure established after the 2018-2022 arbitrary adjustment, increased only by annual Cost-of-Living (COLA) increases.

- **Financials:** Total expenditure remains at approximately \$105,000 (1.42% of total budget).
- **Risk:** Potential for continued "governance gap," recruitment barriers for non-retirees, and absenteeism or lack of "ownership" over key files due to uncompensated workload volume.

Option 4: Examine Modified or Hybrid Models

Council may direct staff to explore modified versions of existing models. This could include:

- Phasing in increases over a multi-year period (e.g., reaching target levels by 2028).
- Indexing to a different benchmark (e.g., the average of the Dufferin County lower-tier municipalities).

- Applying different weighting percentages to the "pool" distribution.

Additional Considerations: Phasing Out Meeting Per Diems

Regardless of the salary model selected, Council must decide whether or not to move to an "All-In" salary. Two considerations are available:

- **A:** Phase out all per diems for internal committees and boards, consolidating all duties into the base salary for maximum budget transparency.
- **B:** Retain the current per diem structure for extra meetings, keeping base salaries at a lower threshold.

Timeline and Implementation

Council must determine the effective date for any approved changes to ensure compliance with the *Municipal Act*.

- **Direction to Staff:** Direct the Clerk and Treasurer to draft a new Council Remuneration By-law based on the selected decision-points.
- **Effective Date:** Typically, structural adjustments are set to take effect at the start of the next term (November 2026) to maintain public confidence and avoid the perception of a mid-term self-adjustment.

9. Works Cited & Data Sources

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- Open Council. (2025). Municipal Council Salaries in Ontario. Retrieved from <https://opencouncil.ca/municipal-council-salary-ontario/>
- Township of Tiny. (2022). By-law 22-076: Being a By-law to provide for the Remuneration and Expenses for Members of Council.
- Municipality of Meaford. (2024). Council Remuneration and Expense Report. The Meaford Independent.
- Township of Adjala-Tosorontio. (2025). Remuneration By-law 25-XX.
- Municipality of Grey Highlands. (2026). Proposed 2026-2030 Council Compensation Framework.

- Ontario Living Wage Network. (2025). 2025 Living Wage Rates by Region.
- District Municipality of Muskoka. (2025). *Council Remuneration for the 2026 – 2030 Term of Council*. Finance and Corporate Services Committee Report. Retrieved from [Muskoka Ratepayers' Association](#).

ⁱ Township of Melancthon. "Council Remuneration Report 2024." <https://melancthontownship.ca/wp-content/uploads/2025/03/Council-Remuneration-Report-2024.pdf>

ⁱⁱ *The Meaford Independent*. "Small Town Councillors Take on a Huge Responsibility For Relatively Little Pay." <https://themeafordindependent.ca/small-town-councillors-take-on-a-huge-responsibility-for-relatively-little-pay/>

ⁱⁱⁱ *Collingwood Today*. "Grey Highlands council pay will increase next term." <https://www.collingwoodtoday.ca/the-blue-mountains-and-grey-highlands/grey-highlands-council-pay-will-increase-next-term-5152245>

^{iv} Township of Tiny. "Council Remuneration By-law 22-010." <https://www.tiny.ca/sites/default/files/2022-04/Council%20Remuneration%20By-law%2022-010.pdf>

^v *Collingwood Today*. "Grey Highlands council salaries, expenses \$370k last year." <https://www.collingwoodtoday.ca/the-blue-mountains-and-grey-highlands/grey-highlands-council-salaries-expenses-370k-last-year-83820388382038#:~:text=Grey%20Highlands%20council%20cost%20just,Coun.>

^{vi} *The Meaford Independent*. "Small Town Councillors Take on a Huge Responsibility For Relatively Little Pay."

^{vii} Ibid.

^{viii} <https://www.collingwoodtoday.ca/the-blue-mountains-and-grey-highlands/grey-highlands-council-pay-will-increase-next-term-5152245>

^{ix} Township of Tiny. "Council Remuneration By-law 22-010." <https://www.tiny.ca/sites/default/files/2022-04/Council%20Remuneration%20By-law%2022-010.pdf>

^x *Collingwood Today*. "Grey Highlands council pay will increase next term." <https://www.collingwoodtoday.ca/the-blue-mountains-and-grey-highlands/grey-highlands-council-pay-will-increase-next-term-5152245>

^{xi} [Small Town Councillors Take on a Huge Responsibility For Relatively Little Pay | The Meaford Independent](#)

^{xii} Ibid.

^{xiii} Township of Melancthon. "Council Remuneration Policy." [Council-Remuneration-Policy.pdf](#)

^{xiv} District Municipality of Muskoka. (2025). *Council Remuneration for the 2026 – 2030 Term of Council*. Finance and Corporate Services Committee Report. Retrieved from [Muskoka Ratepayers' Association](#).

Denise Holmes

From: Shaen Armstrong [REDACTED]
Sent: Tuesday, February 24, 2026 8:39 PM
To: Denise Holmes; [REDACTED]
Subject: Input Regarding Remuneration Mar 5 2026 Agenda

Hello Denise:

Please find below two analysis charts in regards to the upcoming Mar 5th agenda item "Council Remuneration".

1) analysis does not take into account any additional Dufferin County level compensation which could be approx:

- * \$60k for Warden role or
- * \$25K-\$30K for Mayor and Deputy Mayor

NOTE: Sourced from Dufferin County website reporting per Municipality Act and supported by newspaper article in Orangeville
Citizen dated Mar 20/25

2) primarily this analysis focuses on the 5 comparable rural population Town(ship)s within Dufferin County to ensure apples to apples comparison vs. tourist living to rural living challenges.

3) 2nd analysis chart is specific to Tiny Township to show comparison to the report provided by Councilor McLean (Feb 19) for justification for 'professional' compensation model however in our opinion this is a grapes to grapefruit comparison for these reasons:

- * population of Tiny compared to Melancthon (see in charts)
- * population of Dufferin Cty (66,257) vs. Simcoe Cty (533,169)
- * tourist living challenges vs rural living challenges
- * Tiny's population doubling seasonally then dropping

4) sources of compensation details pulled from publicly available reports in accordance with the Municipality Act. Exception to this is Town of Mono whereby the only available info was gleaned from Dufferin County website. Given Mono population does not fall into the range of other 5 we felt not a significant loss of comparative data at detailed level.

TOWNSHIP & YEAR of REMUNERATION	CENSUS 2021	TOTAL REMUNERATION	SALARY	CPP	PER DIEM	MTGS or CONFS
AMARANTH (2023)	4,327	\$ 85,070.80				
Per Capita	\$ 19.66					
Mayor		\$ 18,021.32	\$ 18,021.32			
Dep Mayor		\$ 19,006.25	\$ 14,845.51		\$ 3,540.00	
Councilor		\$ 16,330.65	\$ 13,325.93		\$ 1,740.00	
Councilor		\$ 14,578.52	\$ 13,325.93		\$ 780.00	
Councilor		\$ 17,134.06	\$ 13,325.93		\$ 2,730.00	
NOTES: no detailed 2024 but 2024 budget gave 4% increase. Est \$88,473.63 and Per Capita \$20.45						
EAST GARAFRAXA (2024)	2,794	\$ 75,920.63				
Per Capita	\$ 27.17					
Mayor		\$ 17,669.75	\$ 16,874.00	\$ 795.75		
Dep Mayor		\$ 14,464.32	\$ 13,848.60	\$ 615.72		
Councilor		\$ 15,561.46	\$ 13,241.82	\$ 579.64		\$ 1,740.00
Councilor		\$ 14,412.55	\$ 13,233.42	\$ 579.13		
Councilor		\$ 13,812.55	\$ 13,233.42	\$ 579.13		
GRAND VALLEY (2024)	3,851	\$ 80,268.71				
Per Capita	\$ 20.84					
Mayor		\$ 19,635.52	\$ 17,901.52			
Dep Mayor		\$ 14,504.52	\$ 14,326.52			
Councilor		\$ 13,978.22	\$ 13,428.22			\$ 550.00
Councilor		\$ 15,941.03	\$ 13,428.22			\$ 1,030.38
Councilor		\$ 16,209.42	\$ 13,428.22			\$ 870.00
MELANCTHON (2024)	3,132	\$ 103,829.60				
Per Capita	\$ 33.15					
Mayor (DW)		\$ 22,669.92	\$ 20,419.92		\$ 1,350.00	
Dep Mayor (JMCL)		\$ 21,228.00	\$ 17,628.00		\$ 2,700.00	
Councilor (BN)		\$ 18,950.76	\$ 16,325.76		\$ 1,725.00	
Councilor(RP)		\$ 22,855.16	\$ 16,325.76		\$ 1,359.09	\$ 3,265.91
Councilor (RM)		\$ 18,125.76	\$ 16,325.76		\$ 900.00	
NOTES: RP reported \$4,265 for Per Diem includes education conference \$3265.91						
MULMUR (2024)	3,529	\$ 88,281.67				
Per Capita	\$ 25.02					
Mayor		\$ 22,287.41	\$ 19,297.68		\$ 996.09	\$ 1,876.04
Dep Mayor		\$ 17,858.96	\$ 15,657.96		\$ 1,780.00	
Councilor		\$ 19,402.95	\$ 14,118.48		\$ 2,224.21	\$ 2,746.57
Councilor		\$ 14,613.87	\$ 14,118.48		\$ 450.00	
Councilor		\$ 14,118.48	14,118.48			
MONO (2023)	9,421	\$ 168,633.00				

Per Capita	\$ 17.90				

TINY (2023)	12,966	\$ 246,534.78	SALARY	BENEFITS	MEALS/ ACCOM	EDUC	CONF
Per Capita	\$ 19.01						
Mayor		\$ 60,413.45	\$ 44,886.89	\$ 11,098.56	\$ 144.49	\$ 1,870.21	
Dep Mayor		\$ 47,944.79	\$ 36,051.11	\$ 9,687.83		\$ 1,022.69	
Councilor		\$ 43,805.04	\$ 31,265.89	\$ 7,144.57	\$ 1,733.47	\$ 1,394.11	
Councilor		\$ 46,952.20	\$ 31,531.37	\$ 8,840.97	\$ 82.44	\$ 3,196.50	
Councilor		\$ 47,419.30	\$ 32,371.37	\$ 8,982.93	\$ 1,929.30	\$ 1,289.30	
NOTES: Population doubles in tourist season							

Do not hesitate to reach out if you require more info Denise or I need to provide you with anything else.

Kind Regards,
Shaen

Denise Holmes

From: Linda Polonsky [REDACTED]
Sent: Wednesday, February 25, 2026 3:09 PM
To: Denise Holmes; Darren White; James McLean; Bill Neilson; Ralph Moore; Ruth Plowright; [REDACTED]
Subject: Remuneration Report

Hi Denise:

This letter is in response to the report presented at council on February 19, 2026 by James McLean.

After reviewing James's argument for transitioning to a straight salary based, and total remuneration increase plan for Council members, we do not agree that the tax base is sufficient to support this. While we understand that the ever increasing workload of elected representatives has become more than a part time commitment, we do not believe that more money will decrease or alleviate this issue.

Also, the comparison chart prepared by Shaen Armstrong shows that Melancthon representatives are already paid well above their neighbouring counterparts in Dufferin County based on her dollar value per capita evaluation. As the recent budget discussions determined that the current tax revenues are barely enough to cover the townships fixed expenses and that loans may have to be used to cover capital projects, it does not seem feasible to incur even more fixed expenses, ie: increased Councilor salaries.

As always, we continue to support our Council in all they do for this Township and its residents. Their dedication to community service on our behalf is greatly appreciated.

Respectfully yours,

Jack and Linda Polonsky



The Corporation of

THE TOWNSHIP OF MELANCTHON

157101 Highway 10, Melancthon, Ontario, L9V 2E6

REPORT TO COUNCIL

TO: MAYOR WHITE AND MEMBERS OF COUNCIL

FROM: DENISE B. HOLMES, AMCT, CAO/CLERK

SUBJECT: FOUR-DAY IN OFFICE WORKWEEK PILOT PROJECT

MEETING DATE: FEBRUARY 19, 2026

Recommendation

That the Township of Melancthon implement a four-day in-office workweek for administration staff, operating Monday to Thursday from 8:00 a.m. to 6:00 p.m., maintaining total weekly hours at 37.5, with the office closed on Fridays, effective May 4, 2026, as a one-year pilot project to be reviewed by Council on May 6, 2027.

This schedule will provide extended public access, maintain staffing adequacy, and meet operational needs.

1. Purpose

The purpose of this report is to seek Council approval to implement a four-day in-office workweek for all staff on a one-year pilot project, closing the office on Fridays, while maintaining a total of 37.5 hours per week. The proposal includes extending office hours Monday–Thursday to improve accessibility and customer service for residents.

2. Background

The Township office currently operates Monday–Friday, 8:30 a.m. – 4:30 p.m., with four staff members working 7.5 hours per day (30-minute unpaid lunch). The Human Resources Sub-Committee has indicated that extended office hours would better serve the public, particularly those unable to visit during standard business hours.

Moving to a four-day workweek requires increasing daily hours to 9.5 while maintaining the same total weekly hours. This adjustment allows the office to open earlier and close later during staffed days, improving service availability.

3. Proposed Options

All options assume:

- Four staff members working the same schedule
- Office closed Fridays
- 37.5 hours/week
- 30-minute unpaid lunch
- No staggered shifts

	Option Office Hours	Opens Earlier	Closes Later	Notes
A	7:30 a.m. – 5:30 p.m.	✓✓	—	Morning access for residents before work
B	8:00 a.m. – 6:00 p.m.	✓	✓✓	Balanced access, recommended option

4. Risk Management

Potential risks and mitigation measures:

Risk	Mitigation
Staff fatigue from longer days	9.5-hour days include 30-minute unpaid lunch; monitor staff feedback and adjust as necessary
Resident confusion about Friday closure	Public notice, website update, signage at the office, voicemail messages
Statutory holiday impacts	Adjust schedules as per Employment Standards Act; communicate in advance
Emergency coverage on	Staff may work remotely or in person at the office, but the office will remain closed to the public, except for the third Friday in August

Fridays of an Election year, when the office must be open for Nomination Day.

5. Financial Considerations

- Total hours remain the same; therefore, minimal direct financial impact.
 - Potential savings in overtime expenditures for two staff members who regularly attend evening Council meetings.
 - Potential minor cost savings from reduced utility usage on Fridays.
-

6. Benefits Summary – Municipal Experience with Four-Day Workweeks

Several Canadian municipalities have implemented or piloted four-day workweeks or compressed schedules in recent years. While approaches vary, the overall findings from municipal experience have been largely positive.

Employee Satisfaction and Morale

Municipalities that have adopted four-day workweeks have reported high levels of employee satisfaction. For example, the Municipality of French River (Ontario) implemented a compressed four-day schedule following a pilot project, with approximately 87% of staff opting into the arrangement and more than 80% reporting satisfaction. Improved work-life balance was identified as a key benefit.

Recruitment and Retention

Other Ontario and Atlantic Canadian municipalities, including Algonquin Highlands (ON) and Cumberland (NS), have cited four-day workweeks as a positive recruitment and retention tool, particularly in smaller or rural communities where attracting qualified staff can be challenging. Flexible work arrangements were seen as increasing the municipality's competitiveness as an employer.

Productivity and Service Levels

Municipal case studies indicate that productivity generally remains stable following implementation. In several Ontario examples, management reported no decline in service levels after moving to a compressed schedule, with some noting improved efficiency due to fewer interruptions and higher staff engagement.

Customer Service Improvements

A common benefit across municipal implementations is the ability to extend daily service hours without increasing staffing costs. By redistributing existing weekly hours over four longer days, municipalities have been able to offer earlier opening times and later closing times, improving accessibility for residents who work standard business hours.

Employee Well-Being and Absenteeism

Broader public-sector and international studies (including government trials in Iceland and Nova Scotia) suggest that compressed or reduced workweeks can lead to improved employee well-being and, in some cases, reduced absenteeism and burnout. These findings are consistent with trends reported by Canadian municipalities.

Summary for Council

Based on municipal experience, the primary anticipated benefits of a four-day workweek include:

- Improved employee satisfaction and morale
- Enhanced recruitment and retention
- Maintained productivity and service delivery
- Extended daily office hours for residents
- Potential improvements in staff well-being

Implementing the proposed one-year pilot project allows the Township of Melancthon to evaluate these potential benefits locally and determine whether the model is suitable for permanent adoption.

7. Next Steps

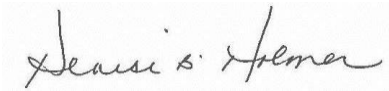
- Communicate schedule to staff with the anticipated start date of May 4, 2026
 - Update public website, signage, and voicemail messages
 - Monitor resident feedback and staff well-being post-implementation
 - Review effectiveness after 6 months and report back to Council on November 5, 2026
 - A further review after 12 months to determine if there is a desire from residents and staff to continue the four-day workweek on a permanent basis
-

Attachments – Articles of Interest

- **February 9, 2026**, *The Globe and Mail*, Amir Barnea – *Let's give everyone a four-day work week*
- **February 27, 2023**, *CBC News*, Vanessa Balintec – *Rural Ontario municipalities are adopting the four-day work week. What does it take to get others on board?*

It should be noted that I have reached out to the CAO for the Township of Algonquin Highlands to inquire if she would be willing to share any feedback on staff experience, challenges encountered and her overall assessment of the change; however, she is currently out of the office until February 17, 2026. A further update will be provided to Council at the Closed Session Council Meeting.

Respectfully submitted,

A handwritten signature in cursive script, reading "Denise B. Holmes". The signature is written in dark ink on a light-colored background.

Denise B. Holmes, AMCT
CAO/Clerk

Denise Holmes

From: Denise Holmes
Sent: Tuesday, February 10, 2026 12:13 PM
To: Denise Holmes
Subject: Globe and Mail Article

Let's give everyone a four-day work week

Research shows that the benefits for individuals, society and corporations are all extremely positive

AMIR BARNEA

THE GLOBE AND MAIL

PUBLISHED 5 HOURS AGO Amir Barnea is an associate professor of finance at HEC Montréal.

This essay is part of the [Prosperity's Path](#) series. In a time of geopolitical instability and a shifting world order, the challenges facing Canada's economy have only gotten more visible, numerous and intense. This series brings solutions.

In 1930, at the beginning of the Great Depression, British economist John Maynard Keynes published a bold article with surprisingly optimistic predictions.

Keynes predicted – and was pretty much spot on – that within a century, the average standard of living in the world would be eight times higher.

But he went even further and conjectured that ultimately, the rat race will end. “In 100 years,” he wrote, “technological progress will allow the work week to be shortened to only 15 hours, or three hours a day.”

While Keynes forecasted future economic growth almost perfectly, he was dead wrong with respect to the amount of time we work today. His 15-hour work week projection is a far cry from the average 40-hour work week we have in Canada, and it seems like those 40 hours are experienced by employees as harder and harder over the years.

According to a [recent national survey](#) of 5,000 employed adults in Canada commissioned by Mental Health Research Canada, nearly 39 per cent of employees reported they feel workplace burnout, up from 35 per cent in 2023. This must change. Canada must adopt the four-day work week. Importantly, it's not just for the sake of individual workers' wellbeing. The entire economy will benefit as a result.

[Open this photo in gallery:](#)



British economist John Maynard Keynes, centre, in July, 1944. Almost a century ago Mr. Keynes predicted that 'technological progress will allow the work week to be shortened to only 15 hours, or three hours a day.' HULTON ARCHIVE/GETTY IMAGES

Kitfox Games, a gaming studio in Montreal, has done exactly that. Five years ago, Kitfox, which employs 15 people, switched to a 4-day 100 per cent pay work week, and the impact on the team has been tremendous.

The idea to shorten the work week came from Tanya Short, Kitfox's chief executive officer. "The video game industry typically has what they call crunch, which is unpaid overtime," she told me at the company's offices in downtown Montreal. "That was never my interest, possibly because my first salary job was in Scandinavia."

She said that at first, a 20 per cent reduction in the working time was scary. But then she realized that getting consistent "good quality" 40-hours a week out of her team is extremely hard and will result in burnout.

"I fully believe that I'm getting better work out of people than we would if we did five days a week. The reason why I believe that fairly strongly, is that I feel like I observe it in myself," Ms. Short told me.

[Open this photo in gallery:](#)



Commuters board a bus in Toronto. Research shows that the benefits of a four-day work week are extremely positive for individuals, society and corporations. FRED LUM/THE GLOBE AND MAIL

Kitfox's story is just one of hundreds of firms and non-profits who have implemented the 4-day work week model successfully around the world. That is exactly the path that Canada should take. Research shows that the benefits for individuals, society and corporations are all extremely positive.

Juliet Schor – an economist, and professor of sociology at Boston College – has the proof. She has been researching the labour market for decades, and in her recent book, *Four Days a Week*, she summarizes her findings as the lead researcher of 245 different experiments on shortening the work week conducted around the world over the past three years.

“The clearest evidence of the model's success is the fact that 90 per cent of companies chose to continue with the short work week after the trial period ended,” she said over Zoom.

Schor did her research in collaboration with Andrew Barnes, a New Zealand entrepreneur working in the financial sector. In 2018, Mr. Barnes decided to switch his entire company (of about 250 employees), to a four-day work week without a reduction in pay.

In his experience, a shorter week increases the productivity of individual employees and of the company in a way that completely offsets the fact that everyone is working 20 per cent less.

Higher levels of individuals' well-being that result from a four-day work week would ultimately translate to a significant increase in productivity across the economy.

Currently, burnout imposes a big hidden cost on Canadian firms. According to the mental health survey cited above, [“burnout costs employers between \\$5,500 and \\$28,500 per employee](#)

[annually.](#)” Recent evidence from the American Journal of Preventative Medicine also suggests that [burnout can cost an average American firm about US\\$5-million annually.](#)

Sure, in some parts of the economy, keeping pay constant while reducing working hours by 20 per cent would require some finessing. Consider, for example, nurses and doctors who work in shifts at a hospital, or employees at a local Tim Horton’s branch. But governments and public corporations alike need to find those funds and add more workers, as [shift workers](#) are among [the most overworked employees in the country.](#)

In fact, the extra costs paid for hiring additional employees for “high intensity” jobs, can be less than what is saved on retention and talent attraction. And as the world’s 10th largest economy, Canada has the capacity to do so.

Additionally, the fact that we’re in the midst of an “AI industrial revolution” means that now is the perfect time to pursue this structural change, since labour productivity is already on the rise. Implementing a short work week in Canada means that the extra profits which the new technology creates will be shared equally by all Canadians, instead of further enriching already rich shareholders.

With 39 per cent of Canadians feeling burnout, the sky won’t fall if profitable companies sacrifice a small fraction of their profits to give “life changing” benefits to their hard-working employees.

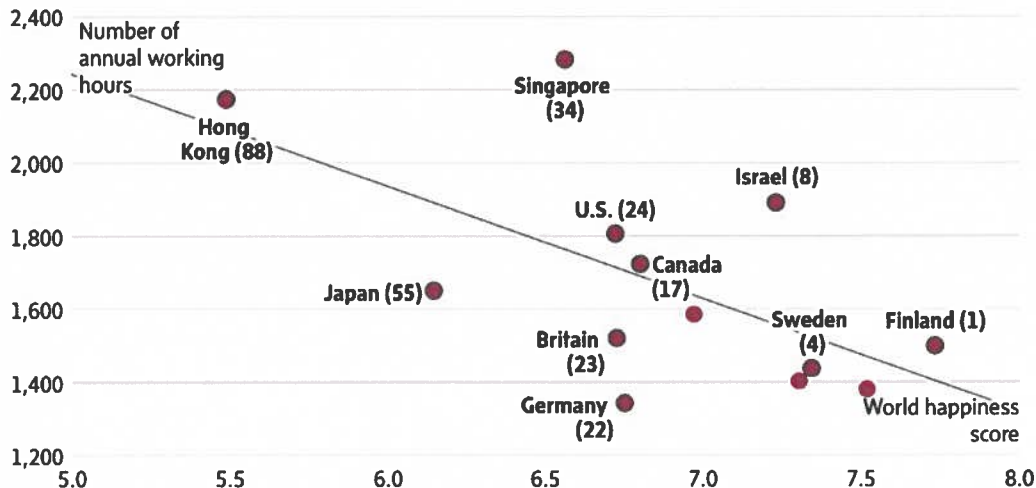
In collaboration with Canada’s largest unions, the public sector would be a natural place to start the design and implementation of a short work week. The legislation that follows should set a 32 hour work week as the new labour standard, with any hours worked beyond that defined as overtime and eligible for a higher pay. A 10-year time frame for the full implementation of a short work week should allow enough time for both the public and the private sector to make the necessary adjustments.

Ms. Schor agrees. “Within 10 years, I am certain that giant companies like Google and Apple will introduce a four-day work week. It will be the new standard in the labour market. Time and again, we hear from employees that shortening the work week by one day is a life-changing experience. That’s where we’re headed,” she concludes.

Keynes’ article [Economic Possibilities for our Grandchildren](#) was written in 1930. So, we still have four years to evaluate his optimistic predictions. An end to the rat race still seems a bit far-fetched, but if we wisely use the new technology that was introduced to us, and if our policy makers make the right calls, maybe we’ll get a step closer to Keynes’s rosier guess that the real problem for humanity will be how to deal with all the leisure that science and compound interest have created for us.

Who's happiest?

Number of annual working hours and happiness scores, by country (rank), 2024



THE GLOBE AND MAIL, SOURCE: THE CONFERENCE BOARD TOTAL ECONOMY DATABASE, MAY 2024; THE WORLD HAPPINESS REPORT, 2025

Effects of a four-day work week on work

Work time, performance, and work design, scale 1-10

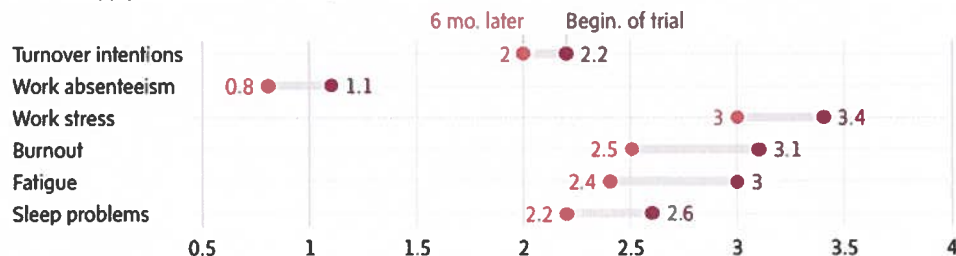


Work-related metrics based on employee surveys and interviews

THE GLOBE AND MAIL, SOURCE: "FOUR DAYS A WEEK," JULIET B. SCHOR, HARPER BUSINESS, 2025

Effects of a four-day work week on health and well-being

Labour supply and work-related strain, scale 1-5



Work-related metrics based on employee surveys and interviews

THE GLOBE AND MAIL, SOURCE: "FOUR DAYS A WEEK," JULIET B. SCHOR, HARPER BUSINESS, 2025

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Rural Ontario municipalities are adopting the 4-day work week. What does it take to get others on board?

Local government and private sector can benefit from the switch, expert says

[Vanessa Balintec](#) · CBC News · Posted: Feb 27, 2023 4:00 AM EST | Last Updated: February 27, 2023

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Algonquin Highlands is one of a handful of small municipalities in rural Ontario that have started offering their employees the option of a four-day work week. The mayor says it's necessary to keep up with what employees want. (Submitted by Township of Algonquin Highlands)

 [comments](#)

Algonquin Highlands will soon be the latest small-town municipality in rural Ontario to convert to a four-day work week.

Starting in March, the cottage country destination will join the townships of Aylmer, [Zorra](#), Springwater and [French River](#) — all which made the same move in recent years in a bid to boost work-life balance and attract and retain staff.

Providing this option, along with other flexible arrangements like remote work, is necessary to keep up with what employees want, says Algonquin Highlands Mayor Liz

"Since COVID, people are looking for a different way of approaching life," said Danielsen. Her town, some 220 kilometres west of Ottawa, houses roughly 2,500 people but surges during the summer tourist season.

"We want to be seen as a dynamic and progressive employer when we are looking for people, and I think this will go a long way to help that."

Data released last week in the U.K. supports what Danielsen says. [Researchers found](#) an overwhelming majority of over 60 companies — which took part in what was reportedly the world's largest four-day reduced work week trial — will continue with the shorter week for similar reasons.

While municipalities are going forward with the compressed work week instead, one work expert says it's just one way different industries can mould the overall concept of the four-day work week to fit their unique needs.

- **Interest grows in 4-day work week as employers consider impact on staff, retention, productivity**
- **How the pandemic has some Ontario employers switching to a 4-day work week**

In Algonquin Highlands, about 95 per cent of the town's staff have opted to work longer work days in exchange for a day off after a seven-month trial period. Not only was this a morale booster, but it had minimal impact on services, Danielsen says.

"I think that that's something that you'll see more and more as time goes by, especially when others can see that it's working successfully."

What does it take?

Before the pandemic, four-day work arrangements were common for specific city roles, says David Arbuckle, the executive director of the volunteer-run Association of Municipal Managers, Clerks and Treasurers of Ontario.

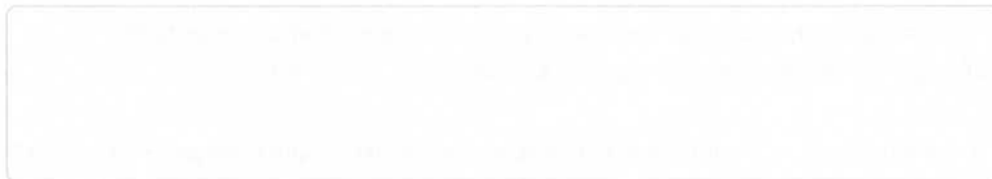
But since COVID-19 hit, Arbuckle says conversations on making those arrangements more widespread started to "creep" throughout northern and rural Ontario — areas where employee burnout and turnover are big challenges made worse by municipalities and the private sector competing for the same talent pool.

"We're certainly supportive of our members and for our municipalities to move in that direction," said Arbuckle.



Before the pandemic, four-day work arrangements were common for specific city roles, but are now being considered for other positions. (Shutterstock)

While four-day weeks can be difficult depending on the size of the community, the potential for this model to work in other, bigger municipalities and beyond Ontario is already there, Arbuckle says. [Saint John](#) and the [District of Guysborough, N.S.](#), have also already made the switch.

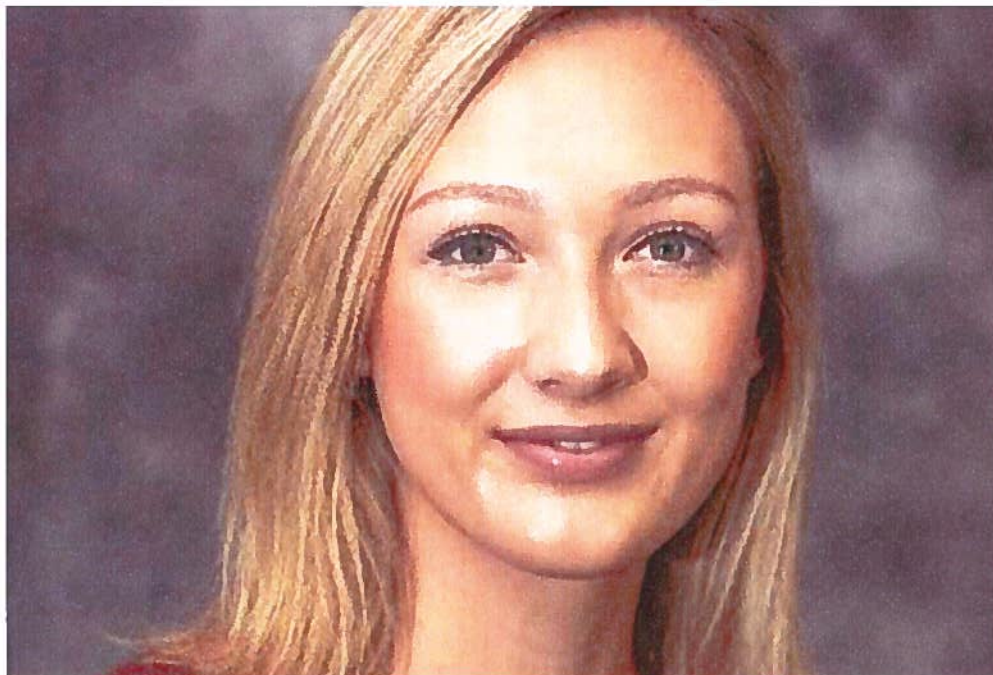


The main challenges are making sure employees get equitable access to this arrangement — four-day weeks are easier to implement for office staff than those in the field — that things like union contracts are accounted for, and that cities can maintain or exceed service expectations for residents, says Arbuckle.

- **[How flexible back-to-work plans could tap the talents of workers facing employment barriers](#)**
- **[This young worker quit amid anxiety and exhaustion. Here's how the pandemic pushed some people to rethink work](#)**

To ensure this, residents in Zorra, a township some 30 kilometres northeast of London, Ont., got an extra hour to access services each day. Alycia Wettlaufer, the town's deputy clerk, says both employees and residents benefit from the change.

"Residents have been able to get all their questions answered and their needs met the same that they would when we were all working the five-day, if not better," said Wettlaufer.



Alycia Wettlaufer, deputy clerk for the Township of Zorra, Ont., says employees and residents have benefited from the change. (Submitted by Alycia Wettlaufer)

While it was a challenge getting used to the longer days and working around everyone's different schedules, things changed for the better, she says. She can't imagine leaving for a job that doesn't offer the same flexibility, and says other cities and industries would benefit from exploring a switch.

"The younger generation, we look for more alternative work arrangements and for things that are different than the typical nine to five," said Wettlaufer, 28.

"I think that it is so great for work life balance and I just couldn't imagine going back."

Are other sectors interested?

John Trougakos, a consultant and researcher with the Work Time Reduction Centre of Excellence, says municipalities are taking part in a compressed work week model, which squeezes the same total number of hours worked over four days rather than five.

This method makes sense for the public sector because no matter what changes it makes, it still needs to be accountable to the public, he says.

It remains to be seen how many of Ontario's 444 municipalities might make the change. But Trougakos says the four-day work week as a whole is likely to pick up as Canada continues to come out of the pandemic.

- **Noticing a labour shortage? Here's what's really going on in Ontario's job market**

"You're still going to have some organizations try to, for example, push people back into the office full-time, or forget about a work-time reduction model like a four-day work week," said Trougakos, who's also a management professor at the University of Toronto.

"But by and large, the companies that are going to be more effective and the companies that are going to see, I think, greater success, are going to find ways to implement various principles related to these issues."

Beyond municipalities, Trougakos says some in the service industry, along with manufacturing and the information sectors, are already embracing this model. In order to successfully implement a new way of work, each industry needs to carefully plan on what works best for their sector and workers, he says.

It's all an important shift compared to a decade ago, when people thought a four-day week was "some crazy idea," he said. But now?

"We're actually finding out that it is feasible."

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