

August 10, 2026

PH5222-LET.01

**Caivan (Stittsville) Inc.**  
3713 Borrisokane Road  
Ottawa, ON  
K2J 4J4

Attention: David Lopez

Subject: **Baseline Water Sampling Program  
Proposed Residential Development  
Magnolia Subdivision, Ottawa, Ontario**



**PATERSON  
GROUP**

**Consulting Engineers**

9 Auriga Drive  
Ottawa, Ontario  
K2E 7T9  
Tel: (613) 226-7381

Geotechnical Engineering  
Environmental Engineering  
Hydrogeology  
Materials Testing  
Building Science  
Rural Development Design  
Temporary Shoring Design  
Retaining Wall Design  
Noise and Vibration Studies  
Energy and Sustainability  
Temporary Shoring Design  
Pile Dynamic Analysis and Testing

[patersongroup.ca](http://patersongroup.ca)

Further to your request and authorization, Paterson Group (Paterson) carried out a Baseline Water Sampling Program (BWSP) at select privately serviced lots neighbouring the proposed residential development located at 5971, 5993, 6115, 6141 and 6159 Flewellyn Road, 6070 Fernbank Road, and 1770 and 1820 Shea Road (Magnolia Subdivision) in Ottawa, Ontario. This letter report summarizes the results of the BWSP at the select properties. This letter should be read in conjunction with Paterson Report PH5222-REP.01R dated June 17, 2026.

## Background

It is Paterson's understanding at the time of report preparation that the proposed development will consist of townhomes and detached residential dwellings with associated driveways, local roadways and landscaped areas. The development is further expected to have condo blocks, parklands, stormwater management ponds and is expected to be municipally serviced.

The eastern portion of the subject site consists of a cleared area that has been converted into agricultural land. The western portion of the site consists of forested area. The forested area has recently been cleared to accommodate the proposed development. A stormwater management pond which services the adjacent residential development to the north is centrally located within the subject site. Furthermore, a hydro corridor transects the eastern portion of the subject site. The subject site is bordered to the northwest by municipally serviced residential developments, to the east by Shea Road,



to the south by Flewellyn Road and to the west by a privately serviced residential development with country estate lots.

## Baseline Water Sampling Program

Based on the water service mapping provided by the City of Ottawa, as well as all available information, a total of twenty-nine (29) potentially privately serviced lots were identified to be included in the BWSP. The following municipal addresses were invited to participate in the BWSP:

- |                                               |                                               |
|-----------------------------------------------|-----------------------------------------------|
| <input type="checkbox"/> 1 Poplarwood Avenue  | <input type="checkbox"/> 16 Poplarwood Avenue |
| <input type="checkbox"/> 2 Poplarwood Avenue  | <input type="checkbox"/> 17 Poplarwood Avenue |
| <input type="checkbox"/> 3 Poplarwood Avenue  | <input type="checkbox"/> 18 Poplarwood Avenue |
| <input type="checkbox"/> 4 Poplarwood Avenue  | <input type="checkbox"/> 19 Poplarwood Avenue |
| <input type="checkbox"/> 5 Poplarwood Avenue  | <input type="checkbox"/> 20 Poplarwood Avenue |
| <input type="checkbox"/> 6 Poplarwood Avenue  | <input type="checkbox"/> 21 Poplarwood Avenue |
| <input type="checkbox"/> 7 Poplarwood Avenue  | <input type="checkbox"/> 23 Poplarwood Avenue |
| <input type="checkbox"/> 8 Poplarwood Avenue  | <input type="checkbox"/> 5891 Flewellyn Road  |
| <input type="checkbox"/> 9 Poplarwood Avenue  | <input type="checkbox"/> 6015 Flewellyn Road  |
| <input type="checkbox"/> 10 Poplarwood Avenue | <input type="checkbox"/> 6025 Flewellyn Road  |
| <input type="checkbox"/> 11 Poplarwood Avenue | <input type="checkbox"/> 6026 Flewellyn Road  |
| <input type="checkbox"/> 12 Poplarwood Avenue | <input type="checkbox"/> 6035 Flewellyn Road  |
| <input type="checkbox"/> 13 Poplarwood Avenue | <input type="checkbox"/> 6140 Flewellyn Road  |
| <input type="checkbox"/> 14 Poplarwood Avenue | <input type="checkbox"/> 6172 Flewellyn Road  |
| <input type="checkbox"/> 15 Poplarwood Avenue |                                               |

The scope of the BWSP was determined by Paterson and outlined in Paterson Report PH5222-REP.01R dated June 17, 2026.

The BWSP has been completed to ensure that all parties considered in the project are protected (the developer, the City of Ottawa and the property owners) should a concern arise during or after construction.

A registered letter was issued by Canada Post to each of the addresses included in the BWSP. The contact letter outlined the sampling program, provided contact information for the City of Ottawa representative, and included a Paterson representative's contact information for scheduling in-person appointments. Additional details can be found in the attached Property Owner Baseline Water Sampling Program Letter. Any property owner who contacted Paterson was scheduled for an appointment at the property owner's convenience. Confirmation of the receipt of the registered letter was provided by Canada Post.



If the property owner did not contact Paterson within 2 weeks of receipt of the registered letter, a second letter was hand delivered by Paterson outlining the proposed sampling program. Paterson considered any property owner who did not contact Paterson after receiving the initial registered letter and second hand delivered letter to have declined to participate in the BWSP.

The sampling program extended from July 8 to July 30, 2026. The following was carried out at the municipal addresses who chose to participate in the BWSP:

- ☐ Property owners completed an optional survey questionnaire to provide anecdotal information about the property and constructions specifications of their well.
- ☐ Water samples were recovered from the property's private well by means of a pressure tank or outside spigot prior to filtration or water treatment.
- ☐ The samples were submitted for analytical testing (Subdivision Supply Package) at an accredited laboratory (Eurofins Environment Testing Canada Inc.)

Of the 29 municipal addresses invited to participate in the BWSP, 24 property owners opted to participate in the BSWP. The following are the municipal addresses that were successfully sampled:

- |                                               |                                               |
|-----------------------------------------------|-----------------------------------------------|
| <input type="checkbox"/> 1 Poplarwood Avenue  | <input type="checkbox"/> 14 Poplarwood Avenue |
| <input type="checkbox"/> 2 Poplarwood Avenue  | <input type="checkbox"/> 15 Poplarwood Avenue |
| <input type="checkbox"/> 3 Poplarwood Avenue  | <input type="checkbox"/> 16 Poplarwood Avenue |
| <input type="checkbox"/> 4 Poplarwood Avenue  | <input type="checkbox"/> 17 Poplarwood Avenue |
| <input type="checkbox"/> 5 Poplarwood Avenue  | <input type="checkbox"/> 18 Poplarwood Avenue |
| <input type="checkbox"/> 6 Poplarwood Avenue  | <input type="checkbox"/> 19 Poplarwood Avenue |
| <input type="checkbox"/> 7 Poplarwood Avenue  | <input type="checkbox"/> 21 Poplarwood Avenue |
| <input type="checkbox"/> 8 Poplarwood Avenue  | <input type="checkbox"/> 6015 Flewellyn Road  |
| <input type="checkbox"/> 9 Poplarwood Avenue  | <input type="checkbox"/> 6025 Flewellyn Road  |
| <input type="checkbox"/> 10 Poplarwood Avenue | <input type="checkbox"/> 6035 Flewellyn Road  |
| <input type="checkbox"/> 11 Poplarwood Avenue | <input type="checkbox"/> 6140 Flewellyn Road  |
| <input type="checkbox"/> 13 Poplarwood Avenue | <input type="checkbox"/> 6172 Flewellyn Road  |

The dwelling at 23 Poplarwood Avenue was under construction at the time of the BWSP and therefore did not participate in the program.

## Sampling Results

Most sample results had select aesthetic and operational parameter exceedances with respect to the Ontario Drinking Water Standards (ODWS). These parameters generally included colour (apparent), sodium, iron, manganese, total dissolved solids (TDS), and hardness.



The bacteriological test results indicated that three (3) properties had a total coliforms concentration greater than (0 CFU/100 mL). All three properties were notified of the exceedance and were provided a Government of Ontario Well Disinfection Instruction Sheet (see attached).

None of the properties were found to have mineralized water supplies. "Mineralized water" as defined by Ontario Regulation 903 under the Ontario Water Resources Act, is well water that has chloride concentrations greater than 500 mg/L, sulphate concentrations greater than 500 mg/L, or total dissolved solids (TDS) concentrations greater than 6000 mg/L.

Details regarding sample results and exceedances are included in the Certificates of Analysis attached to this report.

Of the sampled addresses, no property owners noted historical issues with water quantity.

We trust that the current submission satisfies your immediate requirements.

Best Regards,

**Paterson Group Inc.**

Oliver Blume, P.Geo.



Zavian Buchanan, E.I.T.

#### **Attachments**

- ☐ Property Owner Baseline Water Sampling Program Letter
- ☐ Government of Ontario Well Disinfection Sheet
- ☐ Certificates of Analysis (Eurofins Environmental Testing)



June 29, 2026  
File: PH5222



# PATERSON GROUP

## Consulting Engineers

9 Auriga Drive  
Ottawa, Ontario  
K2E 7T9  
Tel: (613) 226-7381

Attention: **Property Owner**

Subject: **NOTICE**  
**Baseline Water Sampling Program**  
**Proposed Residential Development**  
**5971, 5993, 6115, 6141 & 6151 Flewellyn Road,**  
**6070 Fernbank Road & 1170 & 1820 Shea Road**

Geotechnical Engineering  
Environmental Engineering  
Hydrogeology  
Materials Testing  
Building Science  
Rural Development Design  
Temporary Shoring Design  
Retaining Wall Design  
Noise and Vibration Studies

To whom it may concern,

[patersongroup.ca](http://patersongroup.ca)

At the request of Caivan, Paterson Group (Paterson) is conducting a Baseline Water Sampling Program (BWSP) of select neighbouring properties to the proposed residential development at 5971, 5993, 6115, 6141 and 6159 Flewellyn Road, 6070 Fernbank Road, and 1770 and 1820 Shea Road, that are not municipally serviced. The BWSP is meant to be a precautionary measure to document the existing condition of water wells in proximity to the site for the purpose of protecting the property owners should any impacts arise due to construction activities. Should you opt into the BWSP, a questionnaire regarding historical well and water quality information will be shared and a raw water sample from an exterior untreated tap/spigot or pressure tank will be retrieved by a Paterson representative during a scheduled appointment that is convenient to you. The BWSP is **completely voluntary/free** (valued at \$350) and includes a large suite of testing parameters in excess of bacteriological analyses. It generally takes approximately 15 minutes to complete the questionnaire and 15 minutes to collect the water sample. Paterson will provide each participant with a copy of their sample results. Any information obtained during this sampling program will not be released publicly by Paterson, Caivan or the City of Ottawa.

Paterson hopes that you will contact us as soon as possible to arrange an appointment or notify us that you do not wish to participate in the BWSP. Appointments will be available Monday through Friday, 8 am to 4 pm. The program will be open from **July 6 to July 31, 2026**. To schedule an appointment, sign up by scanning the QR code below, email [wellsurvey@patersongroup.ca](mailto:wellsurvey@patersongroup.ca) or call 613-223-7368. For any questions unrelated to scheduling, please contact Michel Kearney, P.Geo. at 613-606-5862 or [michel.kearney@ottawa.ca](mailto:michel.kearney@ottawa.ca).

Best Regards,

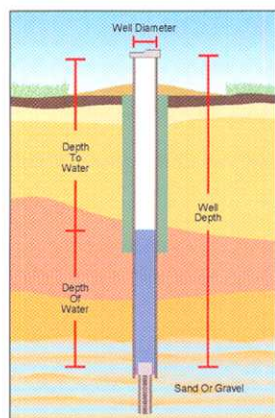
**Paterson Group Inc.**

Zavian Buchanan, E.I.T.

Hydrogeological Department



# Disinfection Instruction Sheet



If your drinking water continues to test positive on repeated submissions, consult your local health unit, which can help you interpret the results of your tests and provide you with advice on what measures you can take to safeguard your drinking water.

The first step in identifying the reason for repeated adverse water quality is to conduct a visual inspection of your well. Start with a close look at your well. The area around it should be

clear of any potential contaminant sources, such as pets, lawn care products, and gardens. Once you're satisfied that the area around your well is okay, take a good, close look at the well itself. If you have an older well, make sure that the cap and the sealant around the well casing isn't cracked or damaged. If it is, you need to fix or replace it right away.

If the source of the problem can't be detected, consult a licensed well contractor right away to identify the source of the problem and eliminate it. You can save yourself a lot of money by doing this instead of rushing out to buy a home treatment device that may be expensive to install, operate, and maintain. And it may not eliminate the source of your trouble.

(If you have a cistern, please talk to your public health unit about disinfection requirements.)

1. Measure the diameter of the well.
2. Measure the well depth and the static or resting water level, then calculate the depth of water in the well.
3. Using the table on this sheet, measure out the amount of bleach needed. (The table gives the volume of bleach needed for different well sizes.) Then, pour the mixture into your well.
4. If possible, mix the water in the well. This can be accomplished by attaching a hose to a tap, running water from the well, through the hose and back into the well.
5. After adding chlorine to the well, remove or bypass any carbon filters that are in the system for water treatment. If you don't, these filters will remove the chlorine from the water, and any pipes beyond the filter will not get disinfected. Replace with new filters after chlorination to avoid reintroducing bacteria into the system.
6. Run water at every faucet in the house (and barn, if you have one) until a strong chlorine odour is detected. Be aware that your nose may lose its ability to detect chlorine.
7. If there is no chlorine smell or it is very weak, add more bleach to the well and repeat Step 6 above.
8. Drain the water heater and fill with chlorinated water.
9. Backflush the water softener and all water filters (except carbon filters).

| Volume of Bleach to Add for Every 3 Metres<br>(10 Feet) of Water in the Well* |        |                                                |
|-------------------------------------------------------------------------------|--------|------------------------------------------------|
| Casing Diameter                                                               |        | Volume of Unscented Bleach<br>(5.25% solution) |
| Millimetres                                                                   | Inches | Millilitres                                    |
| 50                                                                            | 2      | 6                                              |
| 100                                                                           | 4      | 30                                             |
| 150                                                                           | 6      | 60                                             |
| 200                                                                           | 8      | 100                                            |
| 250                                                                           | 10     | 200                                            |
| 300                                                                           | 12     | 250                                            |
| 400                                                                           | 16     | 400                                            |
| 500                                                                           | 20     | 650                                            |
| 600                                                                           | 24     | 900                                            |
| 900                                                                           | 36     | 2000 (2 litres)                                |
| 1200                                                                          | 48     | 3600 (3.6 litres)                              |

**For example:** If you have 6 metres (20 feet) of water in your well and it has a casing diameter of 100 mm or 4 inches, you would add 60 mm or 2 fluid ounces of bleach.

\* For questions or more information on how to disinfect your well, contact your local health unit.

## For more information

### Ontario Government Ministry Abbreviations

Ministry of Health and Long-Term Care  
MOHLTC (also MOH)

Ministry of the Environment  
MOE (also MOEE)

Ontario Ministry of Agriculture and Food  
OMAF (also OMAFRA)

### Ontario Government Information Lines

MOE Public Information Centre: 1-800-565-4923

MOE Water Well Records: 1-888-396-9355

MOHLTC INFOline: 1-800-268-1154

OMAF Agricultural Information Contact Centre: 1-877-424-1300

### Ontario Government Web Sites

MOE: [www.ene.gov.on.ca](http://www.ene.gov.on.ca)

MOHLTC: [www.health.gov.on.ca](http://www.health.gov.on.ca)

OMAF: [www.gov.on.ca/omaf](http://www.gov.on.ca/omaf)

### Publications available on-line

Health Canada: [www.hc-sc.gc.ca](http://www.hc-sc.gc.ca)

- *A Guide to Well Water Treatment and Maintenance*;
- *Water treatment devices for disinfection of drinking water*.

MOHLTC: [www.health.gov.on.ca](http://www.health.gov.on.ca)

- *How to use water safely during a "Boil Water Advisory"*;
- *E. coli Bacteria*;
- List of Public Health Units in Ontario.

OMAF: [www.gov.on.ca/omaf](http://www.gov.on.ca/omaf)

- *Assessing the Potential for Ground Water Contamination on Your Farm*, Publication 97-017;
- *Best Management Practices: Water Wells*, OMAFRA and Agriculture and Agri-Food Canada, 2003 (to order).

MOE: [www.ene.gov.on.ca](http://www.ene.gov.on.ca)

- *Important Facts About Water Well Construction*, Publication 3788;
- *Water Wells and Groundwater Supplies: The Protection of Water Quality in Bored and Dug Wells*, Information Sheet PIB 601b;
- *Water Wells and Groundwater Supplies: The Protection of Water Quality in Drilled Wells*, Information Sheet PIB 602b.

**OFFICIAL CERTIFICATE OF ANALYSIS : 4759310**
**WORK REQUEST : 100449933**
**Report Date : 2026-07-16**
**Paterson Group**

9 Auriga Drive  
Ottawa, Ontario  
K2J 5Z9  
Attention : Zavian Buchanan

Reception Date : 2026-07-10

Project : PH5222

Sampler : NA

PO Number : 66431

Temperature : 7 °C

| Analysis                                     | Quantity | External Method                        |
|----------------------------------------------|----------|----------------------------------------|
| Alkalinity (Water, Automated)                | 1        | Modified from SM 2320 B                |
| Ammonia, Total (Water, Colorimetry)          | 1        | Modified from EPA 350.1                |
| Chloride (Water, IC)                         | 1        | Modified from SM 4110 B and C          |
| Colour, Apparent (Water, Spectrophotometry)  | 1        | Modified from SM 2120 C                |
| Colour, True (Water, Spectrophotometry)      | 1        | Modified from SM 2120 C                |
| Conductivity (Water, Automated)              | 1        | Modified from SM 2510 B                |
| DOC (Water, IR)                              | 1        | Modified from SM 5310 B                |
| Escherichia coli (DC Plate)                  | 1        | Modified from MECP E3407               |
| Fluoride (Water, Auto/ISE)                   | 1        | Modified from SM 4500-F A and 4500-F C |
| Hardness (Water, Calculation Only)           | 1        | SM 2340 B                              |
| Ion Balance (Water, Calculation)             | 1        | Modified from SM1030 E                 |
| Metals Scan (Water, ICP/MS)                  | 1        | Modified from EPA 200.8                |
| Metals Scan (Water, ICP/OES)                 | 1        | Modified from SM 3120 B                |
| Nitrate (Water, IC)                          | 1        | Modified from SM 4110 B and C          |
| Nitrite (Water, IC)                          | 1        | Modified from SM 4110 B and C          |
| pH (25°C) (Water, Automated)                 | 1        | Modified from SM 4500-H+ B             |
| Phenols (Water, Colorimetry)                 | 1        | Modified from EPA 420.2                |
| Sulphate (Water, IC)                         | 1        | Modified from SM 4110 B and C          |
| Sulphide (Water, Colorimetry)                | 1        | Modified from SM 4500-S2 D             |
| Tannin and Lignin (Water, Spec)              | 1        | Modified from SM 5550 B                |
| TDS (Estimated)                              | 1        | Modified from SM 2510 A                |
| Total Coliforms (DC Plate)                   | 1        | Modified from MECP E3407               |
| Total Kjeldahl Nitrogen (Water, Colorimetry) | 1        | Modified from EPA 351.2                |
| Turbidity (Water, Turbidimeter)              | 1        | Modified from SM 2130 B                |

**Criteria :**
**A :** Ontario Regulation 169/03 (Non-Regulated Drinking Water)

**Sample status upon receipt :**

9873521

**Compliant**
**Certificate Comments :**

9873521

**N-NO2 and N-NO3 MRLs increased due to matrix interference.**
**Notes :**

- All analysis is completed at Eurofins Environment Testing Canada Inc. (Ottawa, Ontario) unless otherwise stated.
- Eurofins Environment Testing Canada Inc. is accredited by CALA, Canadian Association for Laboratory Accreditation to ISO/IEC 17025 for tests which appear on the scope of accreditation. The scope is available at <https://directory.cala.ca/>
- Please note: Field data, where presented on the report, has been provided by the client and is presented for informational purposes only. Guideline or regulatory limits listed on this report are provided for ease of use (informational purposes) only. Eurofins recommends consulting the official guideline or regulation as required. Unless otherwise stated, measurement uncertainty is not taken into account when determining guideline or regulatory exceedances.

**Legend :**

RL : Reporting limit

QC : Reference material (QC)

N/A : Not applicable

1 : Results in annex

\* : Analysis conducted by external subcontracting

^ : Analysis not accredited

**OFFICIAL CERTIFICATE OF ANALYSIS - EXCEEDENCE SUMMARY**

Client : Paterson Group

Project : PH5222

Reception Date : 2026-07-10

| Eurofins<br>Sample No              | Client Sample<br>Identification | Analyte                         | Result | Units | Exceeded Criteria |   |   |
|------------------------------------|---------------------------------|---------------------------------|--------|-------|-------------------|---|---|
|                                    |                                 |                                 |        |       | A                 | B | C |
| Hardness (Water, Calculation Only) |                                 |                                 |        |       |                   |   |   |
| 9873521                            | 1POP                            | Hardness as CaCO3 (Calculation) | 480    | mg/L  | 80-100            |   |   |
| TDS (Estimated)                    |                                 |                                 |        |       |                   |   |   |
| 9873521                            | 1POP                            | TDS (Estimated)^                | 839    | mg/L  | 500               |   |   |

## OFFICIAL CERTIFICATE OF ANALYSIS - RESULTS

Client : Paterson Group  
Project : PH5222

Reception Date: 2026-07-10

|                                             |       |       | Eurofins Sample No : <b>9873521</b> |   |   |        |  |  |  |
|---------------------------------------------|-------|-------|-------------------------------------|---|---|--------|--|--|--|
|                                             |       |       | Matrix : Groundwater                |   |   |        |  |  |  |
|                                             |       |       | Sampling Date : 2026-07-10          |   |   |        |  |  |  |
|                                             |       |       | Client Sample Identification : 1POP |   |   |        |  |  |  |
| Anions                                      | RL    | Unit  | Criteria                            |   |   |        |  |  |  |
|                                             |       |       | A                                   | B | C |        |  |  |  |
| Chloride                                    | 0.5   | mg/L  | 250                                 |   |   | 175    |  |  |  |
| Sulphate                                    | 1     | mg/L  | 500                                 |   |   | 98     |  |  |  |
|                                             |       |       |                                     |   |   |        |  |  |  |
|                                             |       |       | Eurofins Sample No : <b>9873521</b> |   |   |        |  |  |  |
|                                             |       |       | Matrix : Groundwater                |   |   |        |  |  |  |
|                                             |       |       | Sampling Date : 2026-07-10          |   |   |        |  |  |  |
|                                             |       |       | Client Sample Identification : 1POP |   |   |        |  |  |  |
| Calculations                                | RL    | Unit  |                                     |   |   |        |  |  |  |
| Ion Balance (Calculation)^                  | 0.1   |       | 1.05                                |   |   |        |  |  |  |
|                                             |       |       |                                     |   |   |        |  |  |  |
|                                             |       |       | Eurofins Sample No : <b>9873521</b> |   |   |        |  |  |  |
|                                             |       |       | Matrix : Groundwater                |   |   |        |  |  |  |
|                                             |       |       | Sampling Date : 2026-07-10          |   |   |        |  |  |  |
|                                             |       |       | Client Sample Identification : 1POP |   |   |        |  |  |  |
| General Chemistry                           | RL    | Unit  | Criteria                            |   |   |        |  |  |  |
|                                             |       |       | A                                   | B | C |        |  |  |  |
| Alkalinity (as CaCO <sub>3</sub> )          | 5     | mg/L  | 500                                 |   |   | 298    |  |  |  |
| Colour (Apparent)                           | 2     | TCU   | 5                                   |   |   | 5      |  |  |  |
| Colour (True)                               | 2     | TCU   |                                     |   |   | <2     |  |  |  |
| Conductivity @ 25°C                         | 5     | µS/cm |                                     |   |   | 1290   |  |  |  |
| Dissolved Organic Carbon                    | 0.5   | mg/L  | 5                                   |   |   | 1.6    |  |  |  |
| Fluoride                                    | 0.1   | mg/L  | 1.5                                 |   |   | 0.20   |  |  |  |
| Hardness as CaCO <sub>3</sub> (Calculation) | 1     | mg/L  | 80-100                              |   |   | 480    |  |  |  |
| pH @ 25°C                                   | 1     |       | 6.5-8.5                             |   |   | 7.64   |  |  |  |
| Phenols-4AAP                                | 0.001 | mg/L  |                                     |   |   | <0.001 |  |  |  |
| Sulphide (S <sub>2</sub> -)                 | 0.01  | mg/L  | 0.05                                |   |   | <0.01  |  |  |  |
| Tannin and Lignin                           | 0.1   | mg/L  |                                     |   |   | <0.1   |  |  |  |
| TDS (Estimated)^                            | 5     | mg/L  | 500                                 |   |   | 839    |  |  |  |
| Turbidity                                   | 0.1   | NTU   | 5                                   |   |   | 1.1    |  |  |  |

## OFFICIAL CERTIFICATE OF ANALYSIS - RESULTS

Client : Paterson Group  
Project : PH5222

Reception Date: 2026-07-10

|                                |        |      |       |          |             |         |  |  |  |  |
|--------------------------------|--------|------|-------|----------|-------------|---------|--|--|--|--|
| Eurofins Sample No :           |        |      |       |          | 9873521     |         |  |  |  |  |
| Matrix :                       |        |      |       |          | Groundwater |         |  |  |  |  |
| Sampling Date :                |        |      |       |          | 2026-07-10  |         |  |  |  |  |
| Client Sample Identification : |        |      |       |          | 1POP        |         |  |  |  |  |
| Metals                         |        | RL   | Unit  | Criteria |             |         |  |  |  |  |
|                                |        |      |       | A        | B           | C       |  |  |  |  |
| Metals Scan (Water, ICP/MS)    |        |      |       |          |             |         |  |  |  |  |
| Aluminum                       | 0.01   | mg/L | 0.1   |          |             | <0.01   |  |  |  |  |
| Antimony                       | 0.0005 | mg/L | 0.006 |          |             | <0.0005 |  |  |  |  |
| Arsenic                        | 0.001  | mg/L | 0.01  |          |             | <0.001  |  |  |  |  |
| Barium                         | 0.001  | mg/L | 1     |          |             | 0.274   |  |  |  |  |
| Beryllium                      | 0.0005 | mg/L |       |          |             | <0.0005 |  |  |  |  |
| Boron                          | 0.01   | mg/L | 5     |          |             | 0.11    |  |  |  |  |
| Cadmium                        | 0.0001 | mg/L | 0.005 |          |             | <0.0001 |  |  |  |  |
| Chromium                       | 0.001  | mg/L | 0.05  |          |             | <0.001  |  |  |  |  |
| Cobalt                         | 0.0002 | mg/L |       |          |             | 0.0011  |  |  |  |  |
| Copper                         | 0.001  | mg/L | 1     |          |             | 0.006   |  |  |  |  |
| Iron                           | 0.03   | mg/L | 0.3   |          |             | 0.16    |  |  |  |  |
| Lead                           | 0.001  | mg/L | 0.01  |          |             | <0.001  |  |  |  |  |
| Manganese                      | 0.01   | mg/L | 0.05  |          |             | 0.04    |  |  |  |  |
| Mercury                        | 0.0001 | mg/L | 0.001 |          |             | <0.0001 |  |  |  |  |
| Molybdenum                     | 0.005  | mg/L |       |          |             | <0.005  |  |  |  |  |
| Nickel                         | 0.005  | mg/L |       |          |             | <0.005  |  |  |  |  |
| Selenium                       | 0.001  | mg/L | 0.05  |          |             | <0.001  |  |  |  |  |
| Silver                         | 0.0001 | mg/L |       |          |             | <0.0001 |  |  |  |  |
| Strontium                      | 0.001  | mg/L |       |          |             | 7.75    |  |  |  |  |
| Thallium                       | 0.0001 | mg/L |       |          |             | <0.0001 |  |  |  |  |
| Uranium                        | 0.001  | mg/L | 0.02  |          |             | <0.001  |  |  |  |  |
| Vanadium                       | 0.001  | mg/L |       |          |             | <0.001  |  |  |  |  |
| Zinc                           | 0.01   | mg/L | 5     |          |             | <0.01   |  |  |  |  |
| Metals Scan (Water, ICP/OES)   |        |      |       |          |             |         |  |  |  |  |
| Calcium                        | 1      | mg/L |       |          |             | 136     |  |  |  |  |
| Magnesium                      | 1      | mg/L |       |          |             | 34      |  |  |  |  |
| Potassium                      | 1      | mg/L |       |          |             | 4       |  |  |  |  |
| Sodium                         | 1      | mg/L | 200   |          |             | 89      |  |  |  |  |

|                       |    |           | Eurofins Sample No : <b>9873521</b> |   |   |   |  |  |  |
|-----------------------|----|-----------|-------------------------------------|---|---|---|--|--|--|
|                       |    |           | Matrix : Groundwater                |   |   |   |  |  |  |
|                       |    |           | Sampling Date : 2026-07-10          |   |   |   |  |  |  |
|                       |    |           | Client Sample Identification : 1POP |   |   |   |  |  |  |
| Microbiology          | RL | Unit      | Criteria                            |   |   |   |  |  |  |
|                       |    |           | A                                   | B | C |   |  |  |  |
| Escherichia coli (DC) | 0  | CFU/100mL | 0                                   |   |   | 0 |  |  |  |
| Total Coliforms (DC)  | 0  | CFU/100mL | 0                                   |   |   | 0 |  |  |  |

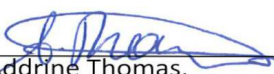
## OFFICIAL CERTIFICATE OF ANALYSIS - RESULTS

Client : Paterson Group  
Project : PH5222

Reception Date: 2026-07-10

|                              |      |      | Eurofins Sample No : <b>9873521</b> |   |   |       |  |  |  |
|------------------------------|------|------|-------------------------------------|---|---|-------|--|--|--|
|                              |      |      | Matrix : Groundwater                |   |   |       |  |  |  |
|                              |      |      | Sampling Date : 2026-07-10          |   |   |       |  |  |  |
|                              |      |      | Client Sample Identification : 1POP |   |   |       |  |  |  |
| Nutrients                    | RL   | Unit | Criteria                            |   |   |       |  |  |  |
|                              |      |      | A                                   | B | C |       |  |  |  |
| Ammonia (Total, as Nitrogen) | 0.02 | mg/L |                                     |   |   | 0.023 |  |  |  |
| Nitrate (as Nitrogen)        | 0.1  | mg/L | 10.0                                |   |   | <0.5  |  |  |  |
| Nitrite (as Nitrogen)        | 0.1  | mg/L | 1.0                                 |   |   | <0.5  |  |  |  |
| Total Kjeldahl Nitrogen      | 0.1  | mg/L |                                     |   |   | 0.134 |  |  |  |

Approved by :

  
Addrine Thomas,  
Chemistry Manager, Ottawa

Approved by :

  
Emma-Dawn Ferguson, M.Sc.  
Environmental Chemist

## OFFICIAL CERTIFICATE OF ANALYSIS - QUALITY CONTROL

Client : Paterson Group

Project : PH5222

Reception Date: 2026-07-10

| Parameter                                                                                        | Unit      | RL   | Blank  | QC         |         | Matrix Spike |         | Duplicate                                          |         |
|--------------------------------------------------------------------------------------------------|-----------|------|--------|------------|---------|--------------|---------|----------------------------------------------------|---------|
|                                                                                                  |           |      |        | Recovery % | Range % | Recovery %   | Range % | RPD %                                              | Range % |
| Ammonia, Total (Water, Colorimetry)                                                              |           |      |        |            |         |              |         |                                                    |         |
| Method : Ammonia (Water, Colorimetry). Internal method: OTT-I-NUT-WI46201.                       |           |      |        |            |         |              |         |                                                    |         |
| Ammonia (Total, as Nitrogen)                                                                     | mg/L      | 0.02 | <0.020 | 97         | 80-120  | 103          | 80-120  | -                                                  | 0-20    |
| Associated Samples : 9873521                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-14<br>Analysis Date: 2026-07-14 |         |
| Chloride (Water, IC)                                                                             |           |      |        |            |         |              |         |                                                    |         |
| Method : Anions (Water, Ion Chromatography). Internal method: OTT-I-IC-WI45985.                  |           |      |        |            |         |              |         |                                                    |         |
| Chloride                                                                                         | mg/L      | 0.5  | <0.5   | 92         | 80-120  | 92           | 80-120  | -                                                  | 0-20    |
| Associated Samples : 9873521                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-14<br>Analysis Date: 2026-07-16 |         |
| Colour, Apparent (Water, Spectrophotometry)                                                      |           |      |        |            |         |              |         |                                                    |         |
| Method : Colour (Water, Spectrophotometric). Internal method: OTT-I-SPEC-WI45980.                |           |      |        |            |         |              |         |                                                    |         |
| Colour (Apparent)                                                                                | TCU       | 2    | <2     | 102        | 78-116  |              |         | 0                                                  | 0-40    |
| Associated Samples : 9873521                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-14<br>Analysis Date: 2026-07-15 |         |
| Colour, True (Water, Spectrophotometry)                                                          |           |      |        |            |         |              |         |                                                    |         |
| Method : Colour (Water, Spectrophotometric). Internal method: OTT-I-SPEC-WI45980.                |           |      |        |            |         |              |         |                                                    |         |
| Colour (True)                                                                                    | TCU       | 2    | <2     | 102        | 78-116  |              |         | -                                                  | 0-40    |
| Associated Samples : 9873521                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-14<br>Analysis Date: 2026-07-15 |         |
| DOC (Water, IR)                                                                                  |           |      |        |            |         |              |         |                                                    |         |
| Method : Organic carbon (water, IR, combustion). Internal method: OTT-I-DEM-WI46148.             |           |      |        |            |         |              |         |                                                    |         |
| Dissolved Organic Carbon                                                                         | mg/L      | 0.5  | <0.5   | 98         | 88-112  | 96           | 85-115  | -                                                  | 0-15    |
| Associated Samples : 9873521                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-13<br>Analysis Date: 2026-07-14 |         |
| Escherichia coli (DC Plate)                                                                      |           |      |        |            |         |              |         |                                                    |         |
| Method : Total Coliforms and E.Coli by MF (Water, DC plate). Internal method: OTT-M-BAC-WI45296. |           |      |        |            |         |              |         |                                                    |         |
| Escherichia coli (DC)                                                                            | CFU/100mL | 0    | 0      |            |         |              |         | -                                                  | 0-30    |
| Associated Samples : 9873521                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-11<br>Analysis Date: 2026-07-12 |         |

## OFFICIAL CERTIFICATE OF ANALYSIS - QUALITY CONTROL

Client : Paterson Group

Project : PH5222

Reception Date: 2026-07-10

| Parameter                                                                       | Unit | RL     | Blank   | QC         |         | Matrix Spike |         | Duplicate                                          |         |
|---------------------------------------------------------------------------------|------|--------|---------|------------|---------|--------------|---------|----------------------------------------------------|---------|
|                                                                                 |      |        |         | Recovery % | Range % | Recovery %   | Range % | RPD %                                              | Range % |
| Metals Scan (Water, ICP/MS)                                                     |      |        |         |            |         |              |         |                                                    |         |
| Method : Metals (Water, ICP/MS). Internal method: AMMTFQE1.                     |      |        |         |            |         |              |         |                                                    |         |
| Aluminum                                                                        | mg/L | 0.01   | <0.01   | 100        | 80-120  | 112          | 70-130  | -                                                  | 0-20    |
| Antimony                                                                        | mg/L | 0.0005 | <0.0005 | 83         | 80-120  | 110          | 70-130  | -                                                  | 0-20    |
| Arsenic                                                                         | mg/L | 0.001  | <0.001  | 99         | 80-120  | 102          | 70-130  | -                                                  | 0-20    |
| Barium                                                                          | mg/L | 0.001  | <0.001  | 100        | 80-120  | 103          | 70-130  | 0                                                  | 0-20    |
| Beryllium                                                                       | mg/L | 0.0005 | <0.0005 | 108        | 80-120  | 111          | 70-130  | -                                                  | 0-20    |
| Boron                                                                           | mg/L | 0.01   | <0.01   | 100        | 80-120  | 104          | 70-130  | -                                                  | 0-20    |
| Cadmium                                                                         | mg/L | 0.0001 | <0.0001 | 101        | 80-120  | 103          | 70-130  | -                                                  | 0-20    |
| Chromium                                                                        | mg/L | 0.001  | <0.001  | 110        | 80-120  | 101          | 70-130  | -                                                  | 0-20    |
| Cobalt                                                                          | mg/L | 0.0002 | <0.0002 | 104        | 80-120  | 94           | 70-130  | -                                                  | 0-20    |
| Copper                                                                          | mg/L | 0.001  | <0.001  | 110        | 80-120  | 92           | 70-130  | -                                                  | 0-20    |
| Iron                                                                            | mg/L | 0.03   | <0.03   | 100        | 80-120  | 96           | 70-130  | -                                                  | 0-20    |
| Lead                                                                            | mg/L | 0.001  | <0.001  | 100        | 80-120  | 90           | 70-130  | -                                                  | 0-20    |
| Manganese                                                                       | mg/L | 0.01   | <0.01   | 100        | 80-120  | 99           | 70-130  | -                                                  | 0-20    |
| Mercury                                                                         | mg/L | 0.0001 | <0.0001 | 91         | 80-120  | 80           | 70-130  | -                                                  | 0-20    |
| Molybdenum                                                                      | mg/L | 0.005  | <0.005  | 100        | 80-120  | 97           | 70-130  | -                                                  | 0-20    |
| Nickel                                                                          | mg/L | 0.005  | <0.005  | 110        | 80-120  | 96           | 70-130  | -                                                  | 0-20    |
| Selenium                                                                        | mg/L | 0.001  | <0.001  | 99         | 80-120  | 103          | 70-130  | -                                                  | 0-20    |
| Silver                                                                          | mg/L | 0.0001 | <0.0001 | 107        | 80-120  | 89           | 70-130  | -                                                  | 0-20    |
| Strontium                                                                       | mg/L | 0.001  | <0.001  | 100        | 80-120  | 100          | 70-130  | 1                                                  | 0-20    |
| Thallium                                                                        | mg/L | 0.0001 | <0.0001 | 101        | 80-120  | 90           | 70-130  | -                                                  | 0-20    |
| Uranium                                                                         | mg/L | 0.001  | <0.001  | 100        | 80-120  | 90           | 70-130  | -                                                  | 0-20    |
| Vanadium                                                                        | mg/L | 0.001  | <0.001  | 100        | 80-120  | 103          | 70-130  | -                                                  | 0-20    |
| Zinc                                                                            | mg/L | 0.01   | <0.01   | 110        | 80-120  | 100          | 70-130  | -                                                  | 0-20    |
| Associated Samples : 9873521                                                    |      |        |         |            |         |              |         | Prep Date: 2026-07-13<br>Analysis Date: 2026-07-13 |         |
| Metals Scan (Water, ICP/OES)                                                    |      |        |         |            |         |              |         |                                                    |         |
| Method : Metals (Water, ICP/OES). Internal method: OTT-I-MET-WI48491.           |      |        |         |            |         |              |         |                                                    |         |
| Calcium                                                                         | mg/L | 1      | <1      | 100        | 70-130  | 97           | 70-130  | 0                                                  | 0-20    |
| Magnesium                                                                       | mg/L | 1      | <1      | 101        | 70-130  | 106          | 70-130  | 0                                                  | 0-20    |
| Potassium                                                                       | mg/L | 1      | <1      | 99         | 70-130  | 103          | 70-130  | -                                                  | 0-20    |
| Sodium                                                                          | mg/L | 1      | <1      | 101        | 70-130  | 102          | 70-130  | 0                                                  | 0-20    |
| Associated Samples : 9873521                                                    |      |        |         |            |         |              |         | Prep Date: 2026-07-15<br>Analysis Date: 2026-07-11 |         |
| Nitrate (Water, IC)                                                             |      |        |         |            |         |              |         |                                                    |         |
| Method : Anions (Water, Ion Chromatography). Internal method: OTT-I-IC-WI45985. |      |        |         |            |         |              |         |                                                    |         |
| Nitrate (as Nitrogen)                                                           | mg/L | 0.1    | <0.1    | 98         | 80-120  | 86           | 80-120  | -                                                  | 0-20    |
| Associated Samples : 9873521                                                    |      |        |         |            |         |              |         | Prep Date: 2026-07-14<br>Analysis Date: 2026-07-16 |         |
| Nitrite (Water, IC)                                                             |      |        |         |            |         |              |         |                                                    |         |
| Method : Anions (Water, Ion Chromatography). Internal method: OTT-I-IC-WI45985. |      |        |         |            |         |              |         |                                                    |         |
| Nitrite (as Nitrogen)                                                           | mg/L | 0.1    | <0.1    | 93         | 80-120  | 91           | 80-120  | -                                                  | 0-20    |
| Associated Samples : 9873521                                                    |      |        |         |            |         |              |         | Prep Date: 2026-07-14<br>Analysis Date: 2026-07-16 |         |
| Phenols (Water, Colorimetry)                                                    |      |        |         |            |         |              |         |                                                    |         |
| Method : Phenols (Water, Colorimetry). Internal method: OTT-I-4AAP-WI46150.     |      |        |         |            |         |              |         |                                                    |         |
| Phenols-4AAP                                                                    | mg/L | 0.001  | <0.001  | 101        | 75-125  | 78           | 70-130  | 4                                                  | 0-20    |
| Associated Samples : 9873521                                                    |      |        |         |            |         |              |         | Prep Date: 2026-07-13<br>Analysis Date: 2026-07-13 |         |

## OFFICIAL CERTIFICATE OF ANALYSIS - QUALITY CONTROL

Client : Paterson Group

Project : PH5222

Reception Date: 2026-07-10

| Parameter                                                                                        | Unit      | RL   | Blank  | QC         |         | Matrix Spike |         | Duplicate                                          |         |
|--------------------------------------------------------------------------------------------------|-----------|------|--------|------------|---------|--------------|---------|----------------------------------------------------|---------|
|                                                                                                  |           |      |        | Recovery % | Range % | Recovery %   | Range % | RPD %                                              | Range % |
| Sulphate (Water, IC)                                                                             |           |      |        |            |         |              |         |                                                    |         |
| Method : Anions (Water, Ion Chromatography). Internal method: OTT-I-IC-WI45985.                  |           |      |        |            |         |              |         |                                                    |         |
| Sulphate                                                                                         | mg/L      | 1    | <1     | 91         | 90-110  | 84           | 80-120  | 0                                                  | 0-20    |
| Associated Samples : 9873521                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-14<br>Analysis Date: 2026-07-16 |         |
| Sulphide (Water, Colorimetry)                                                                    |           |      |        |            |         |              |         |                                                    |         |
| Method : Sulphide, S2- (Water, Colorimetry). Internal method: OTT-I-SPEC-WI45931.                |           |      |        |            |         |              |         |                                                    |         |
| Sulphide (S2-)                                                                                   | mg/L      | 0.01 | <0.01  | 63         | 48-131  |              |         | -                                                  | 0-20    |
| Associated Samples : 9873521                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-15<br>Analysis Date: 2026-07-16 |         |
| Tannin and Lignin (Water, Spec)                                                                  |           |      |        |            |         |              |         |                                                    |         |
| Method : Tannin and Lignin (Water, Spec), Internal method: OTT-I-SPEC-WI57693.                   |           |      |        |            |         |              |         |                                                    |         |
| Tannin and Lignin                                                                                | mg/L      | 0.1  | <0.1   | 100        | 80-120  |              |         | -                                                  | 0-20    |
| Associated Samples : 9873521                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-16<br>Analysis Date: 2026-07-16 |         |
| Total Coliforms (DC Plate)                                                                       |           |      |        |            |         |              |         |                                                    |         |
| Method : Total Coliforms and E.Coli by MF (Water, DC plate). Internal method: OTT-M-BAC-WI45296. |           |      |        |            |         |              |         |                                                    |         |
| Total Coliforms (DC)                                                                             | CFU/100mL | 0    | 0      |            |         |              |         | -                                                  | 0-30    |
| Associated Samples : 9873521                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-11<br>Analysis Date: 2026-07-12 |         |
| Total Kjeldahl Nitrogen (Water, Colorimetry)                                                     |           |      |        |            |         |              |         |                                                    |         |
| Method : TKN (Water, colorimetry). Internal method: OTT-I-NUT-WI46201.                           |           |      |        |            |         |              |         |                                                    |         |
| Total Kjeldahl Nitrogen                                                                          | mg/L      | 0.1  | <0.100 | 101        | 70-130  | 106          | 70-130  | -                                                  | 0-20    |
| Associated Samples : 9873521                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-13<br>Analysis Date: 2026-07-14 |         |
| Turbidity (Water, Turbidimeter)                                                                  |           |      |        |            |         |              |         |                                                    |         |
| Method : Turbidity (Water, Turbidimeter). Internal method: OTT-I-TUR-WI46288.                    |           |      |        |            |         |              |         |                                                    |         |
| Turbidity                                                                                        | NTU       | 0.1  | <0.1   | 100        | 80-120  |              |         | 0                                                  | 0-30    |
| Associated Samples : 9873521                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-11<br>Analysis Date: 2026-07-11 |         |

Where RPD % is reported as "-" the calculation is not available because one or both of the duplicates is within 5 times the RL.

[illegible]

**OFFICIAL CERTIFICATE OF ANALYSIS : 4759309**
**WORK REQUEST : 100449931**
**Report Date : 2026-07-16**
**Paterson Group**

9 Auriga Drive  
Ottawa, Ontario  
K2J 5Z9  
Attention : Zavian Buchanan

Reception Date : 2026-07-10  
Project : PH5222  
Sampler : NA  
PO Number : 66432  
Temperature : 7 °C

| Analysis                                     | Quantity | External Method                        |
|----------------------------------------------|----------|----------------------------------------|
| Alkalinity (Water, Automated)                | 1        | Modified from SM 2320 B                |
| Ammonia, Total (Water, Colorimetry)          | 1        | Modified from EPA 350.1                |
| Chloride (Water, IC)                         | 1        | Modified from SM 4110 B and C          |
| Colour, Apparent (Water, Spectrophotometry)  | 1        | Modified from SM 2120 C                |
| Colour, True (Water, Spectrophotometry)      | 1        | Modified from SM 2120 C                |
| Conductivity (Water, Automated)              | 1        | Modified from SM 2510 B                |
| DOC (Water, IR)                              | 1        | Modified from SM 5310 B                |
| Escherichia coli (DC Plate)                  | 1        | Modified from MECP E3407               |
| Fluoride (Water, Auto/ISE)                   | 1        | Modified from SM 4500-F A and 4500-F C |
| Hardness (Water, Calculation Only)           | 1        | SM 2340 B                              |
| Ion Balance (Water, Calculation)             | 1        | Modified from SM1030 E                 |
| Metals Scan (Water, ICP/MS)                  | 1        | Modified from EPA 200.8                |
| Metals Scan (Water, ICP/OES)                 | 1        | Modified from SM 3120 B                |
| Nitrate (Water, IC)                          | 1        | Modified from SM 4110 B and C          |
| Nitrite (Water, IC)                          | 1        | Modified from SM 4110 B and C          |
| pH (25°C) (Water, Automated)                 | 1        | Modified from SM 4500-H+ B             |
| Phenols (Water, Colorimetry)                 | 1        | Modified from EPA 420.2                |
| Sulphate (Water, IC)                         | 1        | Modified from SM 4110 B and C          |
| Sulphide (Water, Colorimetry)                | 1        | Modified from SM 4500-S2 D             |
| Tannin and Lignin (Water, Spec)              | 1        | Modified from SM 5550 B                |
| TDS (Estimated)                              | 1        | Modified from SM 2510 A                |
| Total Coliforms (DC Plate)                   | 1        | Modified from MECP E3407               |
| Total Kjeldahl Nitrogen (Water, Colorimetry) | 1        | Modified from EPA 351.2                |
| Turbidity (Water, Turbidimeter)              | 1        | Modified from SM 2130 B                |

**Criteria :**
**A :** Ontario Regulation 169/03 (Non-Regulated Drinking Water)

**Sample status upon receipt :**

9873517

**Compliant**
**Certificate Comments :**

9873517

**N-NO2 and N-NO3 MRLs increased due to matrix interference. Sr analyzed on July 14, 2026.**
**Notes :**

- All analysis is completed at Eurofins Environment Testing Canada Inc. (Ottawa, Ontario) unless otherwise stated.
- Eurofins Environment Testing Canada Inc. is accredited by CALA, Canadian Association for Laboratory Accreditation to ISO/IEC 17025 for tests which appear on the scope of accreditation. The scope is available at <https://directory.cala.ca/>
- Please note: Field data, where presented on the report, has been provided by the client and is presented for informational purposes only. Guideline or regulatory limits listed on this report are provided for ease of use (informational purposes) only. Eurofins recommends consulting the official guideline or regulation as required. Unless otherwise stated, measurement uncertainty is not taken into account when determining guideline or regulatory exceedances.

**Legend :**

RL : Reporting limit

QC : Reference material (QC)

N/A : Not applicable

1 : Results in annex

\* : Analysis conducted by external subcontracting

^ : Analysis not accredited

## OFFICIAL CERTIFICATE OF ANALYSIS - EXCEEDENCE SUMMARY

Client : Paterson Group

Project : PH5222

Reception Date : 2026-07-10

| Eurofins<br>Sample No                       | Client Sample<br>Identification | Analyte                         | Result | Units | Exceeded Criteria |   |   |
|---------------------------------------------|---------------------------------|---------------------------------|--------|-------|-------------------|---|---|
|                                             |                                 |                                 |        |       | A                 | B | C |
| Colour, Apparent (Water, Spectrophotometry) |                                 |                                 |        |       |                   |   |   |
| 9873517                                     | 2POP                            | Colour (Apparent)               | 25     | TCU   | 5                 |   |   |
| Hardness (Water, Calculation Only)          |                                 |                                 |        |       |                   |   |   |
| 9873517                                     | 2POP                            | Hardness as CaCO3 (Calculation) | 372    | mg/L  | 80-100            |   |   |
| Metals Scan (Water, ICP/MS)                 |                                 |                                 |        |       |                   |   |   |
| 9873517                                     | 2POP                            | Iron                            | 0.46   | mg/L  | 0.3               |   |   |
| TDS (Estimated)                             |                                 |                                 |        |       |                   |   |   |
| 9873517                                     | 2POP                            | TDS (Estimated)^                | 780    | mg/L  | 500               |   |   |
| Turbidity (Water, Turbidimeter)             |                                 |                                 |        |       |                   |   |   |
| 9873517                                     | 2POP                            | Turbidity                       | 5.6    | NTU   | 5                 |   |   |

## OFFICIAL CERTIFICATE OF ANALYSIS - RESULTS

Client : Paterson Group  
Project : PH5222

Reception Date: 2026-07-10

|                                             |       |       | Eurofins Sample No : <b>9873517</b> |   |   |        |  |  |  |
|---------------------------------------------|-------|-------|-------------------------------------|---|---|--------|--|--|--|
|                                             |       |       | Matrix : Groundwater                |   |   |        |  |  |  |
|                                             |       |       | Sampling Date : 2026-07-10          |   |   |        |  |  |  |
|                                             |       |       | Client Sample Identification : 2POP |   |   |        |  |  |  |
| Anions                                      | RL    | Unit  | Criteria                            |   |   |        |  |  |  |
|                                             |       |       | A                                   | B | C |        |  |  |  |
| Chloride                                    | 0.5   | mg/L  | 250                                 |   |   | 145    |  |  |  |
| Sulphate                                    | 1     | mg/L  | 500                                 |   |   | 98     |  |  |  |
|                                             |       |       |                                     |   |   |        |  |  |  |
|                                             |       |       | Eurofins Sample No : <b>9873517</b> |   |   |        |  |  |  |
|                                             |       |       | Matrix : Groundwater                |   |   |        |  |  |  |
|                                             |       |       | Sampling Date : 2026-07-10          |   |   |        |  |  |  |
|                                             |       |       | Client Sample Identification : 2POP |   |   |        |  |  |  |
| Calculations                                | RL    | Unit  |                                     |   |   |        |  |  |  |
| Ion Balance (Calculation)^                  | 0.1   |       | 1.03                                |   |   |        |  |  |  |
|                                             |       |       |                                     |   |   |        |  |  |  |
|                                             |       |       | Eurofins Sample No : <b>9873517</b> |   |   |        |  |  |  |
|                                             |       |       | Matrix : Groundwater                |   |   |        |  |  |  |
|                                             |       |       | Sampling Date : 2026-07-10          |   |   |        |  |  |  |
|                                             |       |       | Client Sample Identification : 2POP |   |   |        |  |  |  |
| General Chemistry                           | RL    | Unit  | Criteria                            |   |   |        |  |  |  |
|                                             |       |       | A                                   | B | C |        |  |  |  |
| Alkalinity (as CaCO <sub>3</sub> )          | 5     | mg/L  | 500                                 |   |   | 281    |  |  |  |
| Colour (Apparent)                           | 2     | TCU   | 5                                   |   |   | 25     |  |  |  |
| Colour (True)                               | 2     | TCU   |                                     |   |   | <2     |  |  |  |
| Conductivity @ 25°C                         | 5     | µS/cm |                                     |   |   | 1200   |  |  |  |
| Dissolved Organic Carbon                    | 0.5   | mg/L  | 5                                   |   |   | 1.7    |  |  |  |
| Fluoride                                    | 0.1   | mg/L  | 1.5                                 |   |   | 0.85   |  |  |  |
| Hardness as CaCO <sub>3</sub> (Calculation) | 1     | mg/L  | 80-100                              |   |   | 372    |  |  |  |
| pH @ 25°C                                   | 1     |       | 6.5-8.5                             |   |   | 7.59   |  |  |  |
| Phenols-4AAP                                | 0.001 | mg/L  |                                     |   |   | <0.001 |  |  |  |
| Sulphide (S <sub>2</sub> -)                 | 0.01  | mg/L  | 0.05                                |   |   | <0.01  |  |  |  |
| Tannin and Lignin                           | 0.1   | mg/L  |                                     |   |   | <0.1   |  |  |  |
| TDS (Estimated)^                            | 5     | mg/L  | 500                                 |   |   | 780    |  |  |  |
| Turbidity                                   | 0.1   | NTU   | 5                                   |   |   | 5.6    |  |  |  |

## OFFICIAL CERTIFICATE OF ANALYSIS - RESULTS

Client : Paterson Group  
Project : PH5222

Reception Date: 2026-07-10

|                                |        |      |       |          |             |         |  |  |  |  |
|--------------------------------|--------|------|-------|----------|-------------|---------|--|--|--|--|
| Eurofins Sample No :           |        |      |       |          | 9873517     |         |  |  |  |  |
| Matrix :                       |        |      |       |          | Groundwater |         |  |  |  |  |
| Sampling Date :                |        |      |       |          | 2026-07-10  |         |  |  |  |  |
| Client Sample Identification : |        |      |       |          | 2POP        |         |  |  |  |  |
| Metals                         |        | RL   | Unit  | Criteria |             |         |  |  |  |  |
|                                |        |      |       | A        | B           | C       |  |  |  |  |
| Metals Scan (Water, ICP/MS)    |        |      |       |          |             |         |  |  |  |  |
| Aluminum                       | 0.01   | mg/L | 0.1   |          |             | <0.01   |  |  |  |  |
| Antimony                       | 0.0005 | mg/L | 0.006 |          |             | <0.0005 |  |  |  |  |
| Arsenic                        | 0.001  | mg/L | 0.01  |          |             | <0.001  |  |  |  |  |
| Barium                         | 0.001  | mg/L | 1     |          |             | 0.089   |  |  |  |  |
| Beryllium                      | 0.0005 | mg/L |       |          |             | <0.0005 |  |  |  |  |
| Boron                          | 0.01   | mg/L | 5     |          |             | 0.30    |  |  |  |  |
| Cadmium                        | 0.0001 | mg/L | 0.005 |          |             | <0.0001 |  |  |  |  |
| Chromium                       | 0.001  | mg/L | 0.05  |          |             | <0.001  |  |  |  |  |
| Cobalt                         | 0.0002 | mg/L |       |          |             | <0.0002 |  |  |  |  |
| Copper                         | 0.001  | mg/L | 1     |          |             | 0.001   |  |  |  |  |
| Iron                           | 0.03   | mg/L | 0.3   |          |             | 0.46    |  |  |  |  |
| Lead                           | 0.001  | mg/L | 0.01  |          |             | <0.001  |  |  |  |  |
| Manganese                      | 0.01   | mg/L | 0.05  |          |             | 0.01    |  |  |  |  |
| Mercury                        | 0.0001 | mg/L | 0.001 |          |             | <0.0001 |  |  |  |  |
| Molybdenum                     | 0.005  | mg/L |       |          |             | <0.005  |  |  |  |  |
| Nickel                         | 0.005  | mg/L |       |          |             | <0.005  |  |  |  |  |
| Selenium                       | 0.001  | mg/L | 0.05  |          |             | <0.001  |  |  |  |  |
| Silver                         | 0.0001 | mg/L |       |          |             | <0.0001 |  |  |  |  |
| Strontium                      | 0.001  | mg/L |       |          |             | 20.2    |  |  |  |  |
| Thallium                       | 0.0001 | mg/L |       |          |             | <0.0001 |  |  |  |  |
| Uranium                        | 0.001  | mg/L | 0.02  |          |             | <0.001  |  |  |  |  |
| Vanadium                       | 0.001  | mg/L |       |          |             | <0.001  |  |  |  |  |
| Zinc                           | 0.01   | mg/L | 5     |          |             | <0.01   |  |  |  |  |
| Metals Scan (Water, ICP/OES)   |        |      |       |          |             |         |  |  |  |  |
| Calcium                        | 1      | mg/L |       |          |             | 93      |  |  |  |  |
| Magnesium                      | 1      | mg/L |       |          |             | 34      |  |  |  |  |
| Potassium                      | 1      | mg/L |       |          |             | 9       |  |  |  |  |
| Sodium                         | 1      | mg/L | 200   |          |             | 104     |  |  |  |  |

|                       |    |           | Eurofins Sample No : <b>9873517</b> |   |   |   |  |  |  |
|-----------------------|----|-----------|-------------------------------------|---|---|---|--|--|--|
|                       |    |           | Matrix : Groundwater                |   |   |   |  |  |  |
|                       |    |           | Sampling Date : 2026-07-10          |   |   |   |  |  |  |
|                       |    |           | Client Sample Identification : 2POP |   |   |   |  |  |  |
| Microbiology          | RL | Unit      | Criteria                            |   |   |   |  |  |  |
|                       |    |           | A                                   | B | C |   |  |  |  |
| Escherichia coli (DC) | 0  | CFU/100mL | 0                                   |   |   | 0 |  |  |  |
| Total Coliforms (DC)  | 0  | CFU/100mL | 0                                   |   |   | 0 |  |  |  |

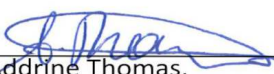
## OFFICIAL CERTIFICATE OF ANALYSIS - RESULTS

Client : Paterson Group  
Project : PH5222

Reception Date: 2026-07-10

|                              |      |      | Eurofins Sample No : <b>9873517</b> |   |   |       |  |  |  |
|------------------------------|------|------|-------------------------------------|---|---|-------|--|--|--|
|                              |      |      | Matrix : Groundwater                |   |   |       |  |  |  |
|                              |      |      | Sampling Date : 2026-07-10          |   |   |       |  |  |  |
|                              |      |      | Client Sample Identification : 2POP |   |   |       |  |  |  |
| Nutrients                    | RL   | Unit | Criteria                            |   |   |       |  |  |  |
|                              |      |      | A                                   | B | C |       |  |  |  |
| Ammonia (Total, as Nitrogen) | 0.02 | mg/L |                                     |   |   | 0.171 |  |  |  |
| Nitrate (as Nitrogen)        | 0.1  | mg/L | 10.0                                |   |   | <0.5  |  |  |  |
| Nitrite (as Nitrogen)        | 0.1  | mg/L | 1.0                                 |   |   | <0.5  |  |  |  |
| Total Kjeldahl Nitrogen      | 0.1  | mg/L |                                     |   |   | 0.641 |  |  |  |

Approved by :

  
Addrine Thomas,  
Chemistry Manager, Ottawa

Approved by :

  
Emma-Dawn Ferguson, M.Sc.  
Environmental Chemist

## OFFICIAL CERTIFICATE OF ANALYSIS - QUALITY CONTROL

Client : Paterson Group

Project : PH5222

Reception Date: 2026-07-10

| Parameter                                                                                        | Unit      | RL   | Blank  | QC         |         | Matrix Spike |         | Duplicate                                          |         |
|--------------------------------------------------------------------------------------------------|-----------|------|--------|------------|---------|--------------|---------|----------------------------------------------------|---------|
|                                                                                                  |           |      |        | Recovery % | Range % | Recovery %   | Range % | RPD %                                              | Range % |
| Ammonia, Total (Water, Colorimetry)                                                              |           |      |        |            |         |              |         |                                                    |         |
| Method : Ammonia (Water, Colorimetry). Internal method: OTT-I-NUT-WI46201.                       |           |      |        |            |         |              |         |                                                    |         |
| Ammonia (Total, as Nitrogen)                                                                     | mg/L      | 0.02 | <0.020 | 97         | 80-120  | 103          | 80-120  | -                                                  | 0-20    |
| Associated Samples : 9873517                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-14<br>Analysis Date: 2026-07-14 |         |
| Chloride (Water, IC)                                                                             |           |      |        |            |         |              |         |                                                    |         |
| Method : Anions (Water, Ion Chromatography). Internal method: OTT-I-IC-WI45985.                  |           |      |        |            |         |              |         |                                                    |         |
| Chloride                                                                                         | mg/L      | 0.5  | <0.5   | 92         | 80-120  | 92           | 80-120  | -                                                  | 0-20    |
| Associated Samples : 9873517                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-14<br>Analysis Date: 2026-07-16 |         |
| Colour, Apparent (Water, Spectrophotometry)                                                      |           |      |        |            |         |              |         |                                                    |         |
| Method : Colour (Water, Spectrophotometric). Internal method: OTT-I-SPEC-WI45980.                |           |      |        |            |         |              |         |                                                    |         |
| Colour (Apparent)                                                                                | TCU       | 2    | <2     | 102        | 78-116  |              |         | 0                                                  | 0-40    |
| Associated Samples : 9873517                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-14<br>Analysis Date: 2026-07-15 |         |
| Colour, True (Water, Spectrophotometry)                                                          |           |      |        |            |         |              |         |                                                    |         |
| Method : Colour (Water, Spectrophotometric). Internal method: OTT-I-SPEC-WI45980.                |           |      |        |            |         |              |         |                                                    |         |
| Colour (True)                                                                                    | TCU       | 2    | <2     | 102        | 78-116  |              |         | -                                                  | 0-40    |
| Associated Samples : 9873517                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-14<br>Analysis Date: 2026-07-15 |         |
| DOC (Water, IR)                                                                                  |           |      |        |            |         |              |         |                                                    |         |
| Method : Organic carbon (water, IR, combustion). Internal method: OTT-I-DEM-WI46148.             |           |      |        |            |         |              |         |                                                    |         |
| Dissolved Organic Carbon                                                                         | mg/L      | 0.5  | <0.5   | 98         | 88-112  | 96           | 85-115  | -                                                  | 0-15    |
| Associated Samples : 9873517                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-13<br>Analysis Date: 2026-07-14 |         |
| Escherichia coli (DC Plate)                                                                      |           |      |        |            |         |              |         |                                                    |         |
| Method : Total Coliforms and E.Coli by MF (Water, DC plate). Internal method: OTT-M-BAC-WI45296. |           |      |        |            |         |              |         |                                                    |         |
| Escherichia coli (DC)                                                                            | CFU/100mL | 0    | 0      |            |         |              |         | -                                                  | 0-30    |
| Associated Samples : 9873517                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-11<br>Analysis Date: 2026-07-12 |         |

## OFFICIAL CERTIFICATE OF ANALYSIS - QUALITY CONTROL

Client : Paterson Group  
Project : PH5222

Reception Date: 2026-07-10

| Parameter                                                                       | Unit | RL     | Blank   | QC         |         | Matrix Spike |         | Duplicate                                          |         |
|---------------------------------------------------------------------------------|------|--------|---------|------------|---------|--------------|---------|----------------------------------------------------|---------|
|                                                                                 |      |        |         | Recovery % | Range % | Recovery %   | Range % | RPD %                                              | Range % |
| Metals Scan (Water, ICP/MS)                                                     |      |        |         |            |         |              |         |                                                    |         |
| Method : Metals (Water, ICP/MS). Internal method: AMMTFQE1.                     |      |        |         |            |         |              |         |                                                    |         |
| Aluminum                                                                        | mg/L | 0.01   | <0.01   | 100        | 80-120  | 112          | 70-130  | -                                                  | 0-20    |
| Antimony                                                                        | mg/L | 0.0005 | <0.0005 | 83         | 80-120  | 110          | 70-130  | -                                                  | 0-20    |
| Arsenic                                                                         | mg/L | 0.001  | <0.001  | 99         | 80-120  | 102          | 70-130  | -                                                  | 0-20    |
| Barium                                                                          | mg/L | 0.001  | <0.001  | 100        | 80-120  | 103          | 70-130  | 0                                                  | 0-20    |
| Beryllium                                                                       | mg/L | 0.0005 | <0.0005 | 108        | 80-120  | 111          | 70-130  | -                                                  | 0-20    |
| Boron                                                                           | mg/L | 0.01   | <0.01   | 100        | 80-120  | 104          | 70-130  | -                                                  | 0-20    |
| Cadmium                                                                         | mg/L | 0.0001 | <0.0001 | 101        | 80-120  | 103          | 70-130  | -                                                  | 0-20    |
| Chromium                                                                        | mg/L | 0.001  | <0.001  | 110        | 80-120  | 101          | 70-130  | -                                                  | 0-20    |
| Cobalt                                                                          | mg/L | 0.0002 | <0.0002 | 104        | 80-120  | 94           | 70-130  | -                                                  | 0-20    |
| Copper                                                                          | mg/L | 0.001  | <0.001  | 110        | 80-120  | 92           | 70-130  | -                                                  | 0-20    |
| Iron                                                                            | mg/L | 0.03   | <0.03   | 100        | 80-120  | 96           | 70-130  | -                                                  | 0-20    |
| Lead                                                                            | mg/L | 0.001  | <0.001  | 100        | 80-120  | 90           | 70-130  | -                                                  | 0-20    |
| Manganese                                                                       | mg/L | 0.01   | <0.01   | 100        | 80-120  | 99           | 70-130  | -                                                  | 0-20    |
| Mercury                                                                         | mg/L | 0.0001 | <0.0001 | 91         | 80-120  | 80           | 70-130  | -                                                  | 0-20    |
| Molybdenum                                                                      | mg/L | 0.005  | <0.005  | 100        | 80-120  | 97           | 70-130  | -                                                  | 0-20    |
| Nickel                                                                          | mg/L | 0.005  | <0.005  | 110        | 80-120  | 96           | 70-130  | -                                                  | 0-20    |
| Selenium                                                                        | mg/L | 0.001  | <0.001  | 99         | 80-120  | 103          | 70-130  | -                                                  | 0-20    |
| Silver                                                                          | mg/L | 0.0001 | <0.0001 | 107        | 80-120  | 89           | 70-130  | -                                                  | 0-20    |
| Strontium                                                                       | mg/L | 0.001  | <0.001  | 100        | 80-120  | 100          | 70-130  | 1                                                  | 0-20    |
| Thallium                                                                        | mg/L | 0.0001 | <0.0001 | 101        | 80-120  | 90           | 70-130  | -                                                  | 0-20    |
| Uranium                                                                         | mg/L | 0.001  | <0.001  | 100        | 80-120  | 90           | 70-130  | -                                                  | 0-20    |
| Vanadium                                                                        | mg/L | 0.001  | <0.001  | 100        | 80-120  | 103          | 70-130  | -                                                  | 0-20    |
| Zinc                                                                            | mg/L | 0.01   | <0.01   | 110        | 80-120  | 100          | 70-130  | -                                                  | 0-20    |
| Associated Samples : 9873517                                                    |      |        |         |            |         |              |         | Prep Date: 2026-07-13<br>Analysis Date: 2026-07-13 |         |
| Metals Scan (Water, ICP/OES)                                                    |      |        |         |            |         |              |         |                                                    |         |
| Method : Metals (Water, ICP/OES). Internal method: OTT-I-MET-WI48491.           |      |        |         |            |         |              |         |                                                    |         |
| Calcium                                                                         | mg/L | 1      | <1      | 100        | 70-130  | 97           | 70-130  | 0                                                  | 0-20    |
| Magnesium                                                                       | mg/L | 1      | <1      | 101        | 70-130  | 106          | 70-130  | 0                                                  | 0-20    |
| Potassium                                                                       | mg/L | 1      | <1      | 99         | 70-130  | 103          | 70-130  | -                                                  | 0-20    |
| Sodium                                                                          | mg/L | 1      | <1      | 101        | 70-130  | 102          | 70-130  | 0                                                  | 0-20    |
| Associated Samples : 9873517                                                    |      |        |         |            |         |              |         | Prep Date: 2026-07-15<br>Analysis Date: 2026-07-11 |         |
| Nitrate (Water, IC)                                                             |      |        |         |            |         |              |         |                                                    |         |
| Method : Anions (Water, Ion Chromatography). Internal method: OTT-I-IC-WI45985. |      |        |         |            |         |              |         |                                                    |         |
| Nitrate (as Nitrogen)                                                           | mg/L | 0.1    | <0.1    | 98         | 80-120  | 86           | 80-120  | -                                                  | 0-20    |
| Associated Samples : 9873517                                                    |      |        |         |            |         |              |         | Prep Date: 2026-07-14<br>Analysis Date: 2026-07-16 |         |
| Nitrite (Water, IC)                                                             |      |        |         |            |         |              |         |                                                    |         |
| Method : Anions (Water, Ion Chromatography). Internal method: OTT-I-IC-WI45985. |      |        |         |            |         |              |         |                                                    |         |
| Nitrite (as Nitrogen)                                                           | mg/L | 0.1    | <0.1    | 93         | 80-120  | 91           | 80-120  | -                                                  | 0-20    |
| Associated Samples : 9873517                                                    |      |        |         |            |         |              |         | Prep Date: 2026-07-14<br>Analysis Date: 2026-07-16 |         |
| Phenols (Water, Colorimetry)                                                    |      |        |         |            |         |              |         |                                                    |         |
| Method : Phenols (Water, Colorimetry). Internal method: OTT-I-4AAP-WI46150.     |      |        |         |            |         |              |         |                                                    |         |
| Phenols-4AAP                                                                    | mg/L | 0.001  | <0.001  | 101        | 75-125  | 78           | 70-130  | 4                                                  | 0-20    |
| Associated Samples : 9873517                                                    |      |        |         |            |         |              |         | Prep Date: 2026-07-13<br>Analysis Date: 2026-07-13 |         |

## OFFICIAL CERTIFICATE OF ANALYSIS - QUALITY CONTROL

Client : Paterson Group

Project : PH5222

Reception Date: 2026-07-10

| Parameter                                                                                        | Unit      | RL   | Blank  | QC         |         | Matrix Spike |         | Duplicate                                          |         |
|--------------------------------------------------------------------------------------------------|-----------|------|--------|------------|---------|--------------|---------|----------------------------------------------------|---------|
|                                                                                                  |           |      |        | Recovery % | Range % | Recovery %   | Range % | RPD %                                              | Range % |
| Sulphate (Water, IC)                                                                             |           |      |        |            |         |              |         |                                                    |         |
| Method : Anions (Water, Ion Chromatography). Internal method: OTT-I-IC-WI45985.                  |           |      |        |            |         |              |         |                                                    |         |
| Sulphate                                                                                         | mg/L      | 1    | <1     | 91         | 90-110  | 84           | 80-120  | 0                                                  | 0-20    |
| Associated Samples : 9873517                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-14<br>Analysis Date: 2026-07-16 |         |
| Sulphide (Water, Colorimetry)                                                                    |           |      |        |            |         |              |         |                                                    |         |
| Method : Sulphide, S2- (Water, Colorimetry). Internal method: OTT-I-SPEC-WI45931.                |           |      |        |            |         |              |         |                                                    |         |
| Sulphide (S2-)                                                                                   | mg/L      | 0.01 | <0.01  | 63         | 48-131  |              |         | -                                                  | 0-20    |
| Associated Samples : 9873517                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-15<br>Analysis Date: 2026-07-16 |         |
| Tannin and Lignin (Water, Spec)                                                                  |           |      |        |            |         |              |         |                                                    |         |
| Method : Tannin and Lignin (Water, Spec), Internal method: OTT-I-SPEC-WI57693.                   |           |      |        |            |         |              |         |                                                    |         |
| Tannin and Lignin                                                                                | mg/L      | 0.1  | <0.1   | 100        | 80-120  |              |         | -                                                  | 0-20    |
| Associated Samples : 9873517                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-16<br>Analysis Date: 2026-07-16 |         |
| Total Coliforms (DC Plate)                                                                       |           |      |        |            |         |              |         |                                                    |         |
| Method : Total Coliforms and E.Coli by MF (Water, DC plate). Internal method: OTT-M-BAC-WI45296. |           |      |        |            |         |              |         |                                                    |         |
| Total Coliforms (DC)                                                                             | CFU/100mL | 0    | 0      |            |         |              |         | -                                                  | 0-30    |
| Associated Samples : 9873517                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-11<br>Analysis Date: 2026-07-12 |         |
| Total Kjeldahl Nitrogen (Water, Colorimetry)                                                     |           |      |        |            |         |              |         |                                                    |         |
| Method : TKN (Water, colorimetry). Internal method: OTT-I-NUT-WI46201.                           |           |      |        |            |         |              |         |                                                    |         |
| Total Kjeldahl Nitrogen                                                                          | mg/L      | 0.1  | <0.100 | 101        | 70-130  | 106          | 70-130  | -                                                  | 0-20    |
| Associated Samples : 9873517                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-13<br>Analysis Date: 2026-07-14 |         |
| Turbidity (Water, Turbidimeter)                                                                  |           |      |        |            |         |              |         |                                                    |         |
| Method : Turbidity (Water, Turbidimeter). Internal method: OTT-I-TUR-WI46288.                    |           |      |        |            |         |              |         |                                                    |         |
| Turbidity                                                                                        | NTU       | 0.1  | <0.1   | 100        | 80-120  |              |         | 0                                                  | 0-30    |
| Associated Samples : 9873517                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-11<br>Analysis Date: 2026-07-11 |         |

Where RPD % is reported as "-" the calculation is not available because one or both of the duplicates is within 5 times the RL.

401 Magnetic Drive, Unit #1, North York, ON, M3J 3H9 - Telephone: 416-661-5287 • 380 Vansickle Road, Unit #630, St. Catharines, ON, L2S 0B5 - Telephone: 905-680-8887 • 608 Norris Court, Kingston, ON, K7P 2R9 - Telephone: 613-634-9307  
OIT-P-SQP73462, Revision 10 (formerly AESTDCOC) Colors: White

**OFFICIAL CERTIFICATE OF ANALYSIS : 4758976**
**WORK REQUEST : 100449574**
**Report Date : 2026-07-16**
**Paterson Group**

9 Auriga Drive  
Ottawa, Ontario  
K2J 5Z9  
Attention : Zavian Buchanan

Reception Date : 2026-07-10  
Project : PH5222  
Sampler : NA  
PO Number : 66414  
Temperature : 10 °C

| Analysis                                     | Quantity | External Method                        |
|----------------------------------------------|----------|----------------------------------------|
| Alkalinity (Water, Automated)                | 1        | Modified from SM 2320 B                |
| Ammonia, Total (Water, Colorimetry)          | 1        | Modified from EPA 350.1                |
| Chloride (Water, IC)                         | 1        | Modified from SM 4110 B and C          |
| Colour, Apparent (Water, Spectrophotometry)  | 1        | Modified from SM 2120 C                |
| Colour, True (Water, Spectrophotometry)      | 1        | Modified from SM 2120 C                |
| Conductivity (Water, Automated)              | 1        | Modified from SM 2510 B                |
| DOC (Water, IR)                              | 1        | Modified from SM 5310 B                |
| Escherichia coli (DC Plate)                  | 1        | Modified from MECP E3407               |
| Fluoride (Water, Auto/ISE)                   | 1        | Modified from SM 4500-F A and 4500-F C |
| Hardness (Water, Calculation Only)           | 1        | SM 2340 B                              |
| Ion Balance (Water, Calculation)             | 1        | Modified from SM1030 E                 |
| Metals Scan (Water, ICP/MS)                  | 1        | Modified from EPA 200.8                |
| Metals Scan (Water, ICP/OES)                 | 1        | Modified from SM 3120 B                |
| Nitrate (Water, IC)                          | 1        | Modified from SM 4110 B and C          |
| Nitrite (Water, IC)                          | 1        | Modified from SM 4110 B and C          |
| pH (25°C) (Water, Automated)                 | 1        | Modified from SM 4500-H+ B             |
| Phenols (Water, Colorimetry)                 | 1        | Modified from EPA 420.2                |
| Sulphate (Water, IC)                         | 1        | Modified from SM 4110 B and C          |
| Sulphide (Water, Colorimetry)                | 1        | Modified from SM 4500-S2 D             |
| Tannin and Lignin (Water, Spec)              | 1        | Modified from SM 5550 B                |
| TDS (Estimated)                              | 1        | Modified from SM 2510 A                |
| Total Coliforms (DC Plate)                   | 1        | Modified from MECP E3407               |
| Total Kjeldahl Nitrogen (Water, Colorimetry) | 1        | Modified from EPA 351.2                |
| Turbidity (Water, Turbidimeter)              | 1        | Modified from SM 2130 B                |

**Criteria :**
**A :** Ontario Regulation 169/03 (Non-Regulated Drinking Water)

**Sample status upon receipt :**

9869316

**Compliant**
**Certificate Comments :**

9869316

**N-NO2 and N-NO3 MRLs increased due to matrix interference.**
**Notes :**

- All analysis is completed at Eurofins Environment Testing Canada Inc. (Ottawa, Ontario) unless otherwise stated.
- Eurofins Environment Testing Canada Inc. is accredited by CALA, Canadian Association for Laboratory Accreditation to ISO/IEC 17025 for tests which appear on the scope of accreditation. The scope is available at <https://directory.cala.ca/>
- Please note: Field data, where presented on the report, has been provided by the client and is presented for informational purposes only. Guideline or regulatory limits listed on this report are provided for ease of use (informational purposes) only. Eurofins recommends consulting the official guideline or regulation as required. Unless otherwise stated, measurement uncertainty is not taken into account when determining guideline or regulatory exceedances.

**Legend :**

RL : Reporting limit

N/A : Not applicable

\* : Analysis conducted by external subcontracting

QC : Reference material (QC)

1 : Results in annex

^ : Analysis not accredited

**OFFICIAL CERTIFICATE OF ANALYSIS - EXCEEDENCE SUMMARY**

Client : Paterson Group

Project : PH5222

Reception Date : 2026-07-10

| Eurofins<br>Sample No                       | Client Sample<br>Identification | Analyte                         | Result | Units | Exceeded Criteria |   |   |
|---------------------------------------------|---------------------------------|---------------------------------|--------|-------|-------------------|---|---|
|                                             |                                 |                                 |        |       | A                 | B | C |
| Colour, Apparent (Water, Spectrophotometry) |                                 |                                 |        |       |                   |   |   |
| 9869316                                     | 3 Poplarwood                    | Colour (Apparent)               | 86     | TCU   | 5                 |   |   |
| Hardness (Water, Calculation Only)          |                                 |                                 |        |       |                   |   |   |
| 9869316                                     | 3 Poplarwood                    | Hardness as CaCO3 (Calculation) | 444    | mg/L  | 80-100            |   |   |
| Metals Scan (Water, ICP/MS)                 |                                 |                                 |        |       |                   |   |   |
| 9869316                                     | 3 Poplarwood                    | Iron                            | 1.57   | mg/L  | 0.3               |   |   |
| 9869316                                     | 3 Poplarwood                    | Manganese                       | 0.10   | mg/L  | 0.05              |   |   |
| TDS (Estimated)                             |                                 |                                 |        |       |                   |   |   |
| 9869316                                     | 3 Poplarwood                    | TDS (Estimated)^a               | 800    | mg/L  | 500               |   |   |
| Turbidity (Water, Turbidimeter)             |                                 |                                 |        |       |                   |   |   |
| 9869316                                     | 3 Poplarwood                    | Turbidity                       | 17.6   | NTU   | 5                 |   |   |

## OFFICIAL CERTIFICATE OF ANALYSIS - RESULTS

Client : Paterson Group  
Project : PH5222

Reception Date: 2026-07-10

|                                             |       |       | Eurofins Sample No : <b>9869316</b>         |   |   |        |  |  |  |
|---------------------------------------------|-------|-------|---------------------------------------------|---|---|--------|--|--|--|
|                                             |       |       | Matrix : Groundwater                        |   |   |        |  |  |  |
|                                             |       |       | Sampling Date : 2026-07-09                  |   |   |        |  |  |  |
|                                             |       |       | Client Sample Identification : 3 Poplarwood |   |   |        |  |  |  |
| Anions                                      | RL    | Unit  | Criteria                                    |   |   |        |  |  |  |
|                                             |       |       | A                                           | B | C |        |  |  |  |
| Chloride                                    | 0.5   | mg/L  | 250                                         |   |   | 171    |  |  |  |
| Sulphate                                    | 1     | mg/L  | 500                                         |   |   | 108    |  |  |  |
|                                             |       |       |                                             |   |   |        |  |  |  |
|                                             |       |       | Eurofins Sample No : <b>9869316</b>         |   |   |        |  |  |  |
|                                             |       |       | Matrix : Groundwater                        |   |   |        |  |  |  |
|                                             |       |       | Sampling Date : 2026-07-09                  |   |   |        |  |  |  |
|                                             |       |       | Client Sample Identification : 3 Poplarwood |   |   |        |  |  |  |
| Calculations                                | RL    | Unit  |                                             |   |   |        |  |  |  |
| Ion Balance (Calculation)^                  | 0.1   |       | 1.00                                        |   |   |        |  |  |  |
|                                             |       |       |                                             |   |   |        |  |  |  |
|                                             |       |       | Eurofins Sample No : <b>9869316</b>         |   |   |        |  |  |  |
|                                             |       |       | Matrix : Groundwater                        |   |   |        |  |  |  |
|                                             |       |       | Sampling Date : 2026-07-09                  |   |   |        |  |  |  |
|                                             |       |       | Client Sample Identification : 3 Poplarwood |   |   |        |  |  |  |
| General Chemistry                           | RL    | Unit  | Criteria                                    |   |   |        |  |  |  |
|                                             |       |       | A                                           | B | C |        |  |  |  |
| Alkalinity (as CaCO <sub>3</sub> )          | 5     | mg/L  | 500                                         |   |   | 299    |  |  |  |
| Colour (Apparent)                           | 2     | TCU   | 5                                           |   |   | 86     |  |  |  |
| Colour (True)                               | 2     | TCU   |                                             |   |   | <2     |  |  |  |
| Conductivity @ 25°C                         | 5     | µS/cm |                                             |   |   | 1230   |  |  |  |
| Dissolved Organic Carbon                    | 0.5   | mg/L  | 5                                           |   |   | 1.8    |  |  |  |
| Fluoride                                    | 0.1   | mg/L  | 1.5                                         |   |   | 0.22   |  |  |  |
| Hardness as CaCO <sub>3</sub> (Calculation) | 1     | mg/L  | 80-100                                      |   |   | 444    |  |  |  |
| pH @ 25°C                                   | 1     |       | 6.5-8.5                                     |   |   | 7.45   |  |  |  |
| Phenols-4AAP                                | 0.001 | mg/L  |                                             |   |   | <0.001 |  |  |  |
| Sulphide (S <sub>2</sub> -)                 | 0.01  | mg/L  | 0.05                                        |   |   | <0.01  |  |  |  |
| Tannin and Lignin                           | 0.1   | mg/L  |                                             |   |   | <0.1   |  |  |  |
| TDS (Estimated)^                            | 5     | mg/L  | 500                                         |   |   | 800    |  |  |  |
| Turbidity                                   | 0.1   | NTU   | 5                                           |   |   | 17.6   |  |  |  |

## OFFICIAL CERTIFICATE OF ANALYSIS - RESULTS

Client : Paterson Group  
Project : PH5222

Reception Date: 2026-07-10

|                                |        |      |          |   |   |              |  |  |  |  |
|--------------------------------|--------|------|----------|---|---|--------------|--|--|--|--|
| Eurofins Sample No :           |        |      |          |   |   | 9869316      |  |  |  |  |
| Matrix :                       |        |      |          |   |   | Groundwater  |  |  |  |  |
| Sampling Date :                |        |      |          |   |   | 2026-07-09   |  |  |  |  |
| Client Sample Identification : |        |      |          |   |   | 3 Poplarwood |  |  |  |  |
| Metals                         | RL     | Unit | Criteria |   |   |              |  |  |  |  |
|                                |        |      | A        | B | C |              |  |  |  |  |
| Metals Scan (Water, ICP/MS)    |        |      |          |   |   |              |  |  |  |  |
| Aluminum                       | 0.01   | mg/L | 0.1      |   |   | <0.01        |  |  |  |  |
| Antimony                       | 0.0005 | mg/L | 0.006    |   |   | <0.0005      |  |  |  |  |
| Arsenic                        | 0.001  | mg/L | 0.01     |   |   | <0.001       |  |  |  |  |
| Barium                         | 0.001  | mg/L | 1        |   |   | 0.376        |  |  |  |  |
| Beryllium                      | 0.0005 | mg/L |          |   |   | <0.0005      |  |  |  |  |
| Boron                          | 0.01   | mg/L | 5        |   |   | 0.13         |  |  |  |  |
| Cadmium                        | 0.0001 | mg/L | 0.005    |   |   | <0.0001      |  |  |  |  |
| Chromium                       | 0.001  | mg/L | 0.05     |   |   | <0.001       |  |  |  |  |
| Cobalt                         | 0.0002 | mg/L |          |   |   | <0.0002      |  |  |  |  |
| Copper                         | 0.001  | mg/L | 1        |   |   | 0.003        |  |  |  |  |
| Iron                           | 0.03   | mg/L | 0.3      |   |   | 1.57         |  |  |  |  |
| Lead                           | 0.001  | mg/L | 0.01     |   |   | <0.001       |  |  |  |  |
| Manganese                      | 0.01   | mg/L | 0.05     |   |   | 0.10         |  |  |  |  |
| Mercury                        | 0.0001 | mg/L | 0.001    |   |   | <0.0001      |  |  |  |  |
| Molybdenum                     | 0.005  | mg/L |          |   |   | <0.005       |  |  |  |  |
| Nickel                         | 0.005  | mg/L |          |   |   | <0.005       |  |  |  |  |
| Selenium                       | 0.001  | mg/L | 0.05     |   |   | <0.001       |  |  |  |  |
| Silver                         | 0.0001 | mg/L |          |   |   | <0.0001      |  |  |  |  |
| Strontium                      | 0.001  | mg/L |          |   |   | 9.11         |  |  |  |  |
| Thallium                       | 0.0001 | mg/L |          |   |   | <0.0001      |  |  |  |  |
| Uranium                        | 0.001  | mg/L | 0.02     |   |   | <0.001       |  |  |  |  |
| Vanadium                       | 0.001  | mg/L |          |   |   | <0.001       |  |  |  |  |
| Zinc                           | 0.01   | mg/L | 5        |   |   | 0.04         |  |  |  |  |
| Metals Scan (Water, ICP/OES)   |        |      |          |   |   |              |  |  |  |  |
| Calcium                        | 1      | mg/L |          |   |   | 130          |  |  |  |  |
| Magnesium                      | 1      | mg/L |          |   |   | 29           |  |  |  |  |
| Potassium                      | 1      | mg/L |          |   |   | 4            |  |  |  |  |
| Sodium                         | 1      | mg/L | 200      |   |   | 95           |  |  |  |  |

|                                |    |           |          |   |   |              |  |  |  |  |
|--------------------------------|----|-----------|----------|---|---|--------------|--|--|--|--|
| Eurofins Sample No :           |    |           |          |   |   | 9869316      |  |  |  |  |
| Matrix :                       |    |           |          |   |   | Groundwater  |  |  |  |  |
| Sampling Date :                |    |           |          |   |   | 2026-07-09   |  |  |  |  |
| Client Sample Identification : |    |           |          |   |   | 3 Poplarwood |  |  |  |  |
| Microbiology                   | RL | Unit      | Criteria |   |   |              |  |  |  |  |
|                                |    |           | A        | B | C |              |  |  |  |  |
| Escherichia coli (DC)          | 0  | CFU/100mL | 0        |   |   | 0            |  |  |  |  |
| Total Coliforms (DC)           | 0  | CFU/100mL | 0        |   |   | 0            |  |  |  |  |

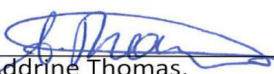
## OFFICIAL CERTIFICATE OF ANALYSIS - RESULTS

Client : Paterson Group  
Project : PH5222

Reception Date: 2026-07-10

|                              |      |      | Eurofins Sample No : <b>9869316</b>         |   |   |       |  |  |  |
|------------------------------|------|------|---------------------------------------------|---|---|-------|--|--|--|
|                              |      |      | Matrix : Groundwater                        |   |   |       |  |  |  |
|                              |      |      | Sampling Date : 2026-07-09                  |   |   |       |  |  |  |
|                              |      |      | Client Sample Identification : 3 Poplarwood |   |   |       |  |  |  |
| Nutrients                    | RL   | Unit | Criteria                                    |   |   |       |  |  |  |
|                              |      |      | A                                           | B | C |       |  |  |  |
| Ammonia (Total, as Nitrogen) | 0.02 | mg/L |                                             |   |   | 0.050 |  |  |  |
| Nitrate (as Nitrogen)        | 0.1  | mg/L | 10.0                                        |   |   | <0.5  |  |  |  |
| Nitrite (as Nitrogen)        | 0.1  | mg/L | 1.0                                         |   |   | <0.5  |  |  |  |
| Total Kjeldahl Nitrogen      | 0.1  | mg/L |                                             |   |   | 0.224 |  |  |  |

Approved by :

  
Addrine Thomas,  
Chemistry Manager, Ottawa

Approved by :

  
Emma-Dawn Ferguson, M.Sc.  
Environmental Chemist

## OFFICIAL CERTIFICATE OF ANALYSIS - QUALITY CONTROL

Client : Paterson Group

Project : PH5222

Reception Date: 2026-07-10

| Parameter                                                                                        | Unit      | RL   | Blank  | QC         |         | Matrix Spike |         | Duplicate                                          |         |
|--------------------------------------------------------------------------------------------------|-----------|------|--------|------------|---------|--------------|---------|----------------------------------------------------|---------|
|                                                                                                  |           |      |        | Recovery % | Range % | Recovery %   | Range % | RPD %                                              | Range % |
| Ammonia, Total (Water, Colorimetry)                                                              |           |      |        |            |         |              |         |                                                    |         |
| Method : Ammonia (Water, Colorimetry). Internal method: OTT-I-NUT-WI46201.                       |           |      |        |            |         |              |         |                                                    |         |
| Ammonia (Total, as Nitrogen)                                                                     | mg/L      | 0.02 | <0.020 | 97         | 80-120  | 103          | 80-120  | -                                                  | 0-20    |
| Associated Samples : 9869316                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-14<br>Analysis Date: 2026-07-14 |         |
| Chloride (Water, IC)                                                                             |           |      |        |            |         |              |         |                                                    |         |
| Method : Anions (Water, Ion Chromatography). Internal method: OTT-I-IC-WI45985.                  |           |      |        |            |         |              |         |                                                    |         |
| Chloride                                                                                         | mg/L      | 0.5  | <0.5   | 104        | 80-120  | 108          | 80-120  | 1                                                  | 0-20    |
| Associated Samples : 9869316                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-14<br>Analysis Date: 2026-07-16 |         |
| Colour, Apparent (Water, Spectrophotometry)                                                      |           |      |        |            |         |              |         |                                                    |         |
| Method : Colour (Water, Spectrophotometric). Internal method: OTT-I-SPEC-WI45980.                |           |      |        |            |         |              |         |                                                    |         |
| Colour (Apparent)                                                                                | TCU       | 2    | <2     | 102        | 78-116  |              |         | 4                                                  | 0-40    |
| Associated Samples : 9869316                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-14<br>Analysis Date: 2026-07-15 |         |
| Colour, True (Water, Spectrophotometry)                                                          |           |      |        |            |         |              |         |                                                    |         |
| Method : Colour (Water, Spectrophotometric). Internal method: OTT-I-SPEC-WI45980.                |           |      |        |            |         |              |         |                                                    |         |
| Colour (True)                                                                                    | TCU       | 2    | <2     | 102        | 78-116  |              |         | -                                                  | 0-40    |
| Associated Samples : 9869316                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-14<br>Analysis Date: 2026-07-15 |         |
| DOC (Water, IR)                                                                                  |           |      |        |            |         |              |         |                                                    |         |
| Method : Organic carbon (water, IR, combustion). Internal method: OTT-I-DEM-WI46148.             |           |      |        |            |         |              |         |                                                    |         |
| Dissolved Organic Carbon                                                                         | mg/L      | 0.5  | <0.5   | 98         | 88-112  | 96           | 85-115  | -                                                  | 0-15    |
| Associated Samples : 9869316                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-13<br>Analysis Date: 2026-07-14 |         |
| Escherichia coli (DC Plate)                                                                      |           |      |        |            |         |              |         |                                                    |         |
| Method : Total Coliforms and E.Coli by MF (Water, DC plate). Internal method: OTT-M-BAC-WI45296. |           |      |        |            |         |              |         |                                                    |         |
| Escherichia coli (DC)                                                                            | CFU/100mL | 0    | 0      |            |         |              |         | -                                                  | 0-30    |
| Associated Samples : 9869316                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-10<br>Analysis Date: 2026-07-11 |         |
| Fluoride (Water, Auto/ISE)                                                                       |           |      |        |            |         |              |         |                                                    |         |
| Method : Fluoride by autotitrator, ion selective electrode. Internal method: OTT-I-AT-WI45398.   |           |      |        |            |         |              |         |                                                    |         |
| Fluoride                                                                                         | mg/L      | 0.1  | <0.10  | 104        | 90-110  | 102          | 80-120  | 0                                                  | 0-20    |
| Associated Samples : 9869316                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-10<br>Analysis Date: 2026-07-13 |         |

## OFFICIAL CERTIFICATE OF ANALYSIS - QUALITY CONTROL

Client : Paterson Group  
Project : PH5222

Reception Date: 2026-07-10

| Parameter                                                                       | Unit | RL     | Blank   | QC         |         | Matrix Spike |         | Duplicate                                          |         |
|---------------------------------------------------------------------------------|------|--------|---------|------------|---------|--------------|---------|----------------------------------------------------|---------|
|                                                                                 |      |        |         | Recovery % | Range % | Recovery %   | Range % | RPD %                                              | Range % |
| Metals Scan (Water, ICP/MS)                                                     |      |        |         |            |         |              |         |                                                    |         |
| Method : Metals (Water, ICP/MS). Internal method: AMMTFQE1.                     |      |        |         |            |         |              |         |                                                    |         |
| Aluminum                                                                        | mg/L | 0.01   | <0.01   | 100        | 80-120  | 112          | 70-130  | -                                                  | 0-20    |
| Antimony                                                                        | mg/L | 0.0005 | <0.0005 | 83         | 80-120  | 110          | 70-130  | -                                                  | 0-20    |
| Arsenic                                                                         | mg/L | 0.001  | <0.001  | 99         | 80-120  | 102          | 70-130  | -                                                  | 0-20    |
| Barium                                                                          | mg/L | 0.001  | <0.001  | 100        | 80-120  | 103          | 70-130  | 0                                                  | 0-20    |
| Beryllium                                                                       | mg/L | 0.0005 | <0.0005 | 108        | 80-120  | 111          | 70-130  | -                                                  | 0-20    |
| Boron                                                                           | mg/L | 0.01   | <0.01   | 100        | 80-120  | 104          | 70-130  | -                                                  | 0-20    |
| Cadmium                                                                         | mg/L | 0.0001 | <0.0001 | 101        | 80-120  | 103          | 70-130  | -                                                  | 0-20    |
| Chromium                                                                        | mg/L | 0.001  | <0.001  | 110        | 80-120  | 101          | 70-130  | -                                                  | 0-20    |
| Cobalt                                                                          | mg/L | 0.0002 | <0.0002 | 104        | 80-120  | 94           | 70-130  | -                                                  | 0-20    |
| Copper                                                                          | mg/L | 0.001  | <0.001  | 110        | 80-120  | 92           | 70-130  | -                                                  | 0-20    |
| Iron                                                                            | mg/L | 0.03   | <0.03   | 100        | 80-120  | 96           | 70-130  | -                                                  | 0-20    |
| Lead                                                                            | mg/L | 0.001  | <0.001  | 100        | 80-120  | 90           | 70-130  | -                                                  | 0-20    |
| Manganese                                                                       | mg/L | 0.01   | <0.01   | 100        | 80-120  | 99           | 70-130  | -                                                  | 0-20    |
| Mercury                                                                         | mg/L | 0.0001 | <0.0001 | 91         | 80-120  | 80           | 70-130  | -                                                  | 0-20    |
| Molybdenum                                                                      | mg/L | 0.005  | <0.005  | 100        | 80-120  | 97           | 70-130  | -                                                  | 0-20    |
| Nickel                                                                          | mg/L | 0.005  | <0.005  | 110        | 80-120  | 96           | 70-130  | -                                                  | 0-20    |
| Selenium                                                                        | mg/L | 0.001  | <0.001  | 99         | 80-120  | 103          | 70-130  | -                                                  | 0-20    |
| Silver                                                                          | mg/L | 0.0001 | <0.0001 | 107        | 80-120  | 89           | 70-130  | -                                                  | 0-20    |
| Strontium                                                                       | mg/L | 0.001  | <0.001  | 100        | 80-120  | 100          | 70-130  | 1                                                  | 0-20    |
| Thallium                                                                        | mg/L | 0.0001 | <0.0001 | 101        | 80-120  | 90           | 70-130  | -                                                  | 0-20    |
| Uranium                                                                         | mg/L | 0.001  | <0.001  | 100        | 80-120  | 90           | 70-130  | -                                                  | 0-20    |
| Vanadium                                                                        | mg/L | 0.001  | <0.001  | 100        | 80-120  | 103          | 70-130  | -                                                  | 0-20    |
| Zinc                                                                            | mg/L | 0.01   | <0.01   | 110        | 80-120  | 100          | 70-130  | -                                                  | 0-20    |
| Associated Samples : 9869316                                                    |      |        |         |            |         |              |         | Prep Date: 2026-07-13<br>Analysis Date: 2026-07-13 |         |
| Metals Scan (Water, ICP/OES)                                                    |      |        |         |            |         |              |         |                                                    |         |
| Method : Metals (Water, ICP/OES). Internal method: OTT-I-MET-WI48491.           |      |        |         |            |         |              |         |                                                    |         |
| Calcium                                                                         | mg/L | 1      | <1      | 100        | 70-130  | 97           | 70-130  | 0                                                  | 0-20    |
| Magnesium                                                                       | mg/L | 1      | <1      | 101        | 70-130  | 106          | 70-130  | 0                                                  | 0-20    |
| Potassium                                                                       | mg/L | 1      | <1      | 99         | 70-130  | 103          | 70-130  | -                                                  | 0-20    |
| Sodium                                                                          | mg/L | 1      | <1      | 101        | 70-130  | 102          | 70-130  | 0                                                  | 0-20    |
| Associated Samples : 9869316                                                    |      |        |         |            |         |              |         | Prep Date: 2026-07-15<br>Analysis Date: 2026-07-10 |         |
| Nitrate (Water, IC)                                                             |      |        |         |            |         |              |         |                                                    |         |
| Method : Anions (Water, Ion Chromatography). Internal method: OTT-I-IC-WI45985. |      |        |         |            |         |              |         |                                                    |         |
| Nitrate (as Nitrogen)                                                           | mg/L | 0.1    | <0.1    | 106        | 80-120  | 101          | 80-120  | -                                                  | 0-20    |
| Associated Samples : 9869316                                                    |      |        |         |            |         |              |         | Prep Date: 2026-07-14<br>Analysis Date: 2026-07-16 |         |
| Nitrite (Water, IC)                                                             |      |        |         |            |         |              |         |                                                    |         |
| Method : Anions (Water, Ion Chromatography). Internal method: OTT-I-IC-WI45985. |      |        |         |            |         |              |         |                                                    |         |
| Nitrite (as Nitrogen)                                                           | mg/L | 0.1    | <0.1    | 105        | 80-120  | 109          | 80-120  | -                                                  | 0-20    |
| Associated Samples : 9869316                                                    |      |        |         |            |         |              |         | Prep Date: 2026-07-14<br>Analysis Date: 2026-07-16 |         |
| Phenols (Water, Colorimetry)                                                    |      |        |         |            |         |              |         |                                                    |         |
| Method : Phenols (Water, Colorimetry). Internal method: OTT-I-4AAP-WI46150.     |      |        |         |            |         |              |         |                                                    |         |
| Phenols-4AAP                                                                    | mg/L | 0.001  | <0.001  | 101        | 75-125  | 78           | 70-130  | 4                                                  | 0-20    |
| Associated Samples : 9869316                                                    |      |        |         |            |         |              |         | Prep Date: 2026-07-13<br>Analysis Date: 2026-07-13 |         |

## OFFICIAL CERTIFICATE OF ANALYSIS - QUALITY CONTROL

Client : Paterson Group

Project : PH5222

Reception Date: 2026-07-10

| Parameter                                                                                        | Unit      | RL   | Blank  | QC         |         | Matrix Spike |         | Duplicate                                          |         |
|--------------------------------------------------------------------------------------------------|-----------|------|--------|------------|---------|--------------|---------|----------------------------------------------------|---------|
|                                                                                                  |           |      |        | Recovery % | Range % | Recovery %   | Range % | RPD %                                              | Range % |
| Sulphate (Water, IC)                                                                             |           |      |        |            |         |              |         |                                                    |         |
| Method : Anions (Water, Ion Chromatography). Internal method: OTT-I-IC-WI45985.                  |           |      |        |            |         |              |         |                                                    |         |
| Sulphate                                                                                         | mg/L      | 1    | <1     | 110        | 90-110  | 106          | 80-120  | 2                                                  | 0-20    |
| Associated Samples : 9869316                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-14<br>Analysis Date: 2026-07-16 |         |
| Sulphide (Water, Colorimetry)                                                                    |           |      |        |            |         |              |         |                                                    |         |
| Method : Sulphide, S2- (Water, Colorimetry). Internal method: OTT-I-SPEC-WI45931.                |           |      |        |            |         |              |         |                                                    |         |
| Sulphide (S2-)                                                                                   | mg/L      | 0.01 | <0.01  | 63         | 48-131  |              |         | -                                                  | 0-20    |
| Associated Samples : 9869316                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-15<br>Analysis Date: 2026-07-16 |         |
| Tannin and Lignin (Water, Spec)                                                                  |           |      |        |            |         |              |         |                                                    |         |
| Method : Tannin and Lignin (Water, Spec), Internal method: OTT-I-SPEC-WI57693.                   |           |      |        |            |         |              |         |                                                    |         |
| Tannin and Lignin                                                                                | mg/L      | 0.1  | <0.1   | 100        | 80-120  |              |         | -                                                  | 0-20    |
| Associated Samples : 9869316                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-14<br>Analysis Date: 2026-07-14 |         |
| Total Coliforms (DC Plate)                                                                       |           |      |        |            |         |              |         |                                                    |         |
| Method : Total Coliforms and E.Coli by MF (Water, DC plate). Internal method: OTT-M-BAC-WI45296. |           |      |        |            |         |              |         |                                                    |         |
| Total Coliforms (DC)                                                                             | CFU/100mL | 0    | 0      |            |         |              |         | -                                                  | 0-30    |
| Associated Samples : 9869316                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-10<br>Analysis Date: 2026-07-11 |         |
| Total Kjeldahl Nitrogen (Water, Colorimetry)                                                     |           |      |        |            |         |              |         |                                                    |         |
| Method : TKN (Water, colorimetry). Internal method: OTT-I-NUT-WI46201.                           |           |      |        |            |         |              |         |                                                    |         |
| Total Kjeldahl Nitrogen                                                                          | mg/L      | 0.1  | <0.100 | 101        | 70-130  | 106          | 70-130  | -                                                  | 0-20    |
| Associated Samples : 9869316                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-13<br>Analysis Date: 2026-07-14 |         |
| Turbidity (Water, Turbidimeter)                                                                  |           |      |        |            |         |              |         |                                                    |         |
| Method : Turbidity (Water, Turbidimeter). Internal method: OTT-I-TUR-WI46288.                    |           |      |        |            |         |              |         |                                                    |         |
| Turbidity                                                                                        | NTU       | 0.1  | <0.1   | 95         | 80-120  |              |         | -                                                  | 0-30    |
| Associated Samples : 9869316                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-10<br>Analysis Date: 2026-07-10 |         |

Where RPD % is reported as "-" the calculation is not available because one or both of the duplicates is within 5 times the RL.

## STANDARD CHAIN-OF-CUSTODY

146 Colonnade Road, Unit #8, Ottawa, ON, K2E 7Y1 • Phone: 613-727-5692, Fax: 613-727-5222

[illegible]

**OFFICIAL CERTIFICATE OF ANALYSIS : 4758528**
**WORK REQUEST : 100449553**
**Report Date : 2026-07-16**
**Paterson Group**

9 Auriga Drive  
Ottawa, Ontario  
K2J 5Z9  
Attention : Zavian Buchanan

Reception Date : 2026-07-10

Project : PH5222

Sampler : NA

PO Number : 66407

Temperature : 10 °C

| Analysis                                     | Quantity | External Method                        |
|----------------------------------------------|----------|----------------------------------------|
| Alkalinity (Water, Automated)                | 1        | Modified from SM 2320 B                |
| Ammonia, Total (Water, Colorimetry)          | 1        | Modified from EPA 350.1                |
| Chloride (Water, IC)                         | 1        | Modified from SM 4110 B and C          |
| Colour, Apparent (Water, Spectrophotometry)  | 1        | Modified from SM 2120 C                |
| Colour, True (Water, Spectrophotometry)      | 1        | Modified from SM 2120 C                |
| Conductivity (Water, Automated)              | 1        | Modified from SM 2510 B                |
| DOC (Water, IR)                              | 1        | Modified from SM 5310 B                |
| Escherichia coli (DC Plate)                  | 1        | Modified from MECP E3407               |
| Fluoride (Water, Auto/ISE)                   | 1        | Modified from SM 4500-F A and 4500-F C |
| Hardness (Water, Calculation Only)           | 1        | SM 2340 B                              |
| Ion Balance (Water, Calculation)             | 1        | Modified from SM1030 E                 |
| Metals Scan (Water, ICP/MS)                  | 1        | Modified from EPA 200.8                |
| Metals Scan (Water, ICP/OES)                 | 1        | Modified from SM 3120 B                |
| Nitrate (Water, IC)                          | 1        | Modified from SM 4110 B and C          |
| Nitrite (Water, IC)                          | 1        | Modified from SM 4110 B and C          |
| pH (25°C) (Water, Automated)                 | 1        | Modified from SM 4500-H+ B             |
| Phenols (Water, Colorimetry)                 | 1        | Modified from EPA 420.2                |
| Sulphate (Water, IC)                         | 1        | Modified from SM 4110 B and C          |
| Sulphide (Water, Colorimetry)                | 1        | Modified from SM 4500-S2 D             |
| Tannin and Lignin (Water, Spec)              | 1        | Modified from SM 5550 B                |
| TDS (Estimated)                              | 1        | Modified from SM 2510 A                |
| Total Coliforms (DC Plate)                   | 1        | Modified from MECP E3407               |
| Total Kjeldahl Nitrogen (Water, Colorimetry) | 1        | Modified from EPA 351.2                |
| Turbidity (Water, Turbidimeter)              | 1        | Modified from SM 2130 B                |

**Criteria :**
**A :** Ontario Regulation 169/03 (Non-Regulated Drinking Water)

**Sample status upon receipt :**

9869176

**Compliant**
**Certificate Comments :**

9869176

**N-NO2 and N-NO3 MRLs increased due to matrix interference. Sr analyzed on July 14, 2026.**
**Notes :**

- All analysis is completed at Eurofins Environment Testing Canada Inc. (Ottawa, Ontario) unless otherwise stated.
- Eurofins Environment Testing Canada Inc. is accredited by CALA, Canadian Association for Laboratory Accreditation to ISO/IEC 17025 for tests which appear on the scope of accreditation. The scope is available at <https://directory.cala.ca/>
- Please note: Field data, where presented on the report, has been provided by the client and is presented for informational purposes only. Guideline or regulatory limits listed on this report are provided for ease of use (informational purposes) only. Eurofins recommends consulting the official guideline or regulation as required. Unless otherwise stated, measurement uncertainty is not taken into account when determining guideline or regulatory exceedances.

**Legend :**

RL : Reporting limit

QC : Reference material (QC)

N/A : Not applicable

1 : Results in annex

\* : Analysis conducted by external subcontracting

^ : Analysis not accredited

## OFFICIAL CERTIFICATE OF ANALYSIS - EXCEEDENCE SUMMARY

Client : Paterson Group

Project : PH5222

Reception Date : 2026-07-10

| Eurofins<br>Sample No                       | Client Sample<br>Identification | Analyte                         | Result | Units | Exceeded Criteria |   |   |
|---------------------------------------------|---------------------------------|---------------------------------|--------|-------|-------------------|---|---|
|                                             |                                 |                                 |        |       | A                 | B | C |
| Colour, Apparent (Water, Spectrophotometry) |                                 |                                 |        |       |                   |   |   |
| 9869176                                     | 4 Poplarwood                    | Colour (Apparent)               | 38     | TCU   | 5                 |   |   |
| Hardness (Water, Calculation Only)          |                                 |                                 |        |       |                   |   |   |
| 9869176                                     | 4 Poplarwood                    | Hardness as CaCO3 (Calculation) | 381    | mg/L  | 80-100            |   |   |
| Metals Scan (Water, ICP/MS)                 |                                 |                                 |        |       |                   |   |   |
| 9869176                                     | 4 Poplarwood                    | Iron                            | 1.25   | mg/L  | 0.3               |   |   |
| TDS (Estimated)                             |                                 |                                 |        |       |                   |   |   |
| 9869176                                     | 4 Poplarwood                    | TDS (Estimated)^                | 748    | mg/L  | 500               |   |   |
| Turbidity (Water, Turbidimeter)             |                                 |                                 |        |       |                   |   |   |
| 9869176                                     | 4 Poplarwood                    | Turbidity                       | 15.0   | NTU   | 5                 |   |   |

## OFFICIAL CERTIFICATE OF ANALYSIS - RESULTS

Client : Paterson Group  
Project : PH5222

Reception Date: 2026-07-10

|                                             |       |       | Eurofins Sample No : <b>9869176</b>         |   |   |        |  |  |  |
|---------------------------------------------|-------|-------|---------------------------------------------|---|---|--------|--|--|--|
|                                             |       |       | Matrix : Groundwater                        |   |   |        |  |  |  |
|                                             |       |       | Sampling Date : 2026-07-09                  |   |   |        |  |  |  |
|                                             |       |       | Client Sample Identification : 4 Poplarwood |   |   |        |  |  |  |
| Anions                                      | RL    | Unit  | Criteria                                    |   |   |        |  |  |  |
|                                             |       |       | A                                           | B | C |        |  |  |  |
| Chloride                                    | 0.5   | mg/L  | 250                                         |   |   | 151    |  |  |  |
| Sulphate                                    | 1     | mg/L  | 500                                         |   |   | 108    |  |  |  |
|                                             |       |       |                                             |   |   |        |  |  |  |
|                                             |       |       | Eurofins Sample No : <b>9869176</b>         |   |   |        |  |  |  |
|                                             |       |       | Matrix : Groundwater                        |   |   |        |  |  |  |
|                                             |       |       | Sampling Date : 2026-07-09                  |   |   |        |  |  |  |
|                                             |       |       | Client Sample Identification : 4 Poplarwood |   |   |        |  |  |  |
| Calculations                                | RL    | Unit  |                                             |   |   |        |  |  |  |
| Ion Balance (Calculation)^                  | 0.1   |       | 1.02                                        |   |   |        |  |  |  |
|                                             |       |       |                                             |   |   |        |  |  |  |
|                                             |       |       | Eurofins Sample No : <b>9869176</b>         |   |   |        |  |  |  |
|                                             |       |       | Matrix : Groundwater                        |   |   |        |  |  |  |
|                                             |       |       | Sampling Date : 2026-07-09                  |   |   |        |  |  |  |
|                                             |       |       | Client Sample Identification : 4 Poplarwood |   |   |        |  |  |  |
| General Chemistry                           | RL    | Unit  | Criteria                                    |   |   |        |  |  |  |
|                                             |       |       | A                                           | B | C |        |  |  |  |
| Alkalinity (as CaCO <sub>3</sub> )          | 5     | mg/L  | 500                                         |   |   | 275    |  |  |  |
| Colour (Apparent)                           | 2     | TCU   | 5                                           |   |   | 38     |  |  |  |
| Colour (True)                               | 2     | TCU   |                                             |   |   | <2     |  |  |  |
| Conductivity @ 25°C                         | 5     | µS/cm |                                             |   |   | 1150   |  |  |  |
| Dissolved Organic Carbon                    | 0.5   | mg/L  | 5                                           |   |   | 1.6    |  |  |  |
| Fluoride                                    | 0.1   | mg/L  | 1.5                                         |   |   | 0.51   |  |  |  |
| Hardness as CaCO <sub>3</sub> (Calculation) | 1     | mg/L  | 80-100                                      |   |   | 381    |  |  |  |
| pH @ 25°C                                   | 1     |       | 6.5-8.5                                     |   |   | 7.32   |  |  |  |
| Phenols-4AAP                                | 0.001 | mg/L  |                                             |   |   | <0.001 |  |  |  |
| Sulphide (S <sub>2</sub> -)                 | 0.01  | mg/L  | 0.05                                        |   |   | <0.01  |  |  |  |
| Tannin and Lignin                           | 0.1   | mg/L  |                                             |   |   | <0.1   |  |  |  |
| TDS (Estimated)^                            | 5     | mg/L  | 500                                         |   |   | 748    |  |  |  |
| Turbidity                                   | 0.1   | NTU   | 5                                           |   |   | 15.0   |  |  |  |

## OFFICIAL CERTIFICATE OF ANALYSIS - RESULTS

Client : Paterson Group  
Project : PH5222

Reception Date: 2026-07-10

|                                             |        |      |          |   |   |         |  |  |  |
|---------------------------------------------|--------|------|----------|---|---|---------|--|--|--|
| Eurofins Sample No : 9869176                |        |      |          |   |   |         |  |  |  |
| Matrix : Groundwater                        |        |      |          |   |   |         |  |  |  |
| Sampling Date : 2026-07-09                  |        |      |          |   |   |         |  |  |  |
| Client Sample Identification : 4 Poplarwood |        |      |          |   |   |         |  |  |  |
| Metals                                      | RL     | Unit | Criteria |   |   |         |  |  |  |
|                                             |        |      | A        | B | C |         |  |  |  |
| Metals Scan (Water, ICP/MS)                 |        |      |          |   |   |         |  |  |  |
| Aluminum                                    | 0.01   | mg/L | 0.1      |   |   | <0.01   |  |  |  |
| Antimony                                    | 0.0005 | mg/L | 0.006    |   |   | <0.0005 |  |  |  |
| Arsenic                                     | 0.001  | mg/L | 0.01     |   |   | <0.001  |  |  |  |
| Barium                                      | 0.001  | mg/L | 1        |   |   | 0.153   |  |  |  |
| Beryllium                                   | 0.0005 | mg/L |          |   |   | <0.0005 |  |  |  |
| Boron                                       | 0.01   | mg/L | 5        |   |   | 0.24    |  |  |  |
| Cadmium                                     | 0.0001 | mg/L | 0.005    |   |   | <0.0001 |  |  |  |
| Chromium                                    | 0.001  | mg/L | 0.05     |   |   | <0.001  |  |  |  |
| Cobalt                                      | 0.0002 | mg/L |          |   |   | <0.0002 |  |  |  |
| Copper                                      | 0.001  | mg/L | 1        |   |   | <0.001  |  |  |  |
| Iron                                        | 0.03   | mg/L | 0.3      |   |   | 1.25    |  |  |  |
| Lead                                        | 0.001  | mg/L | 0.01     |   |   | <0.001  |  |  |  |
| Manganese                                   | 0.01   | mg/L | 0.05     |   |   | 0.03    |  |  |  |
| Mercury                                     | 0.0001 | mg/L | 0.001    |   |   | <0.0001 |  |  |  |
| Molybdenum                                  | 0.005  | mg/L |          |   |   | <0.005  |  |  |  |
| Nickel                                      | 0.005  | mg/L |          |   |   | <0.005  |  |  |  |
| Selenium                                    | 0.001  | mg/L | 0.05     |   |   | <0.001  |  |  |  |
| Silver                                      | 0.0001 | mg/L |          |   |   | <0.0001 |  |  |  |
| Strontium                                   | 0.001  | mg/L |          |   |   | 14.5    |  |  |  |
| Thallium                                    | 0.0001 | mg/L |          |   |   | <0.0001 |  |  |  |
| Uranium                                     | 0.001  | mg/L | 0.02     |   |   | <0.001  |  |  |  |
| Vanadium                                    | 0.001  | mg/L |          |   |   | <0.001  |  |  |  |
| Zinc                                        | 0.01   | mg/L | 5        |   |   | <0.01   |  |  |  |
| Metals Scan (Water, ICP/OES)                |        |      |          |   |   |         |  |  |  |
| Calcium                                     | 1      | mg/L |          |   |   | 103     |  |  |  |
| Magnesium                                   | 1      | mg/L |          |   |   | 30      |  |  |  |
| Potassium                                   | 1      | mg/L |          |   |   | 6       |  |  |  |
| Sodium                                      | 1      | mg/L | 200      |   |   | 102     |  |  |  |

|                                             |    |           |          |   |   |   |  |  |  |
|---------------------------------------------|----|-----------|----------|---|---|---|--|--|--|
| Eurofins Sample No : 9869176                |    |           |          |   |   |   |  |  |  |
| Matrix : Groundwater                        |    |           |          |   |   |   |  |  |  |
| Sampling Date : 2026-07-09                  |    |           |          |   |   |   |  |  |  |
| Client Sample Identification : 4 Poplarwood |    |           |          |   |   |   |  |  |  |
| Microbiology                                | RL | Unit      | Criteria |   |   |   |  |  |  |
|                                             |    |           | A        | B | C |   |  |  |  |
| Escherichia coli (DC)                       | 0  | CFU/100mL | 0        |   |   | 0 |  |  |  |
| Total Coliforms (DC)                        | 0  | CFU/100mL | 0        |   |   | 0 |  |  |  |

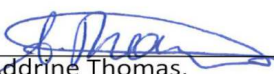
## OFFICIAL CERTIFICATE OF ANALYSIS - RESULTS

Client : Paterson Group  
Project : PH5222

Reception Date: 2026-07-10

|                              |      |      | Eurofins Sample No : <b>9869176</b>         |   |   |       |  |  |  |
|------------------------------|------|------|---------------------------------------------|---|---|-------|--|--|--|
|                              |      |      | Matrix : Groundwater                        |   |   |       |  |  |  |
|                              |      |      | Sampling Date : 2026-07-09                  |   |   |       |  |  |  |
|                              |      |      | Client Sample Identification : 4 Poplarwood |   |   |       |  |  |  |
| Nutrients                    | RL   | Unit | Criteria                                    |   |   |       |  |  |  |
|                              |      |      | A                                           | B | C |       |  |  |  |
| Ammonia (Total, as Nitrogen) | 0.02 | mg/L |                                             |   |   | 0.078 |  |  |  |
| Nitrate (as Nitrogen)        | 0.1  | mg/L | 10.0                                        |   |   | <0.5  |  |  |  |
| Nitrite (as Nitrogen)        | 0.1  | mg/L | 1.0                                         |   |   | <0.5  |  |  |  |
| Total Kjeldahl Nitrogen      | 0.1  | mg/L |                                             |   |   | 0.180 |  |  |  |

Approved by :

  
Addrine Thomas,  
Chemistry Manager, Ottawa

Approved by :

  
Emma-Dawn Ferguson, M.Sc.  
Environmental Chemist

## OFFICIAL CERTIFICATE OF ANALYSIS - QUALITY CONTROL

Client : Paterson Group

Project : PH5222

Reception Date: 2026-07-10

| Parameter                                                                                        | Unit      | RL   | Blank  | QC         |         | Matrix Spike |         | Duplicate                                          |         |
|--------------------------------------------------------------------------------------------------|-----------|------|--------|------------|---------|--------------|---------|----------------------------------------------------|---------|
|                                                                                                  |           |      |        | Recovery % | Range % | Recovery %   | Range % | RPD %                                              | Range % |
| Ammonia, Total (Water, Colorimetry)                                                              |           |      |        |            |         |              |         |                                                    |         |
| Method : Ammonia (Water, Colorimetry). Internal method: OTT-I-NUT-WI46201.                       |           |      |        |            |         |              |         |                                                    |         |
| Ammonia (Total, as Nitrogen)                                                                     | mg/L      | 0.02 | <0.020 | 97         | 80-120  | 103          | 80-120  | -                                                  | 0-20    |
| Associated Samples : 9869176                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-14<br>Analysis Date: 2026-07-14 |         |
| Chloride (Water, IC)                                                                             |           |      |        |            |         |              |         |                                                    |         |
| Method : Anions (Water, Ion Chromatography). Internal method: OTT-I-IC-WI45985.                  |           |      |        |            |         |              |         |                                                    |         |
| Chloride                                                                                         | mg/L      | 0.5  | <0.5   | 95         | 80-120  | 109          | 80-120  | 2                                                  | 0-20    |
| Associated Samples : 9869176                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-13<br>Analysis Date: 2026-07-14 |         |
| Colour, Apparent (Water, Spectrophotometry)                                                      |           |      |        |            |         |              |         |                                                    |         |
| Method : Colour (Water, Spectrophotometric). Internal method: OTT-I-SPEC-WI45980.                |           |      |        |            |         |              |         |                                                    |         |
| Colour (Apparent)                                                                                | TCU       | 2    | <2     | 102        | 78-116  |              |         | 4                                                  | 0-40    |
| Associated Samples : 9869176                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-14<br>Analysis Date: 2026-07-15 |         |
| Colour, True (Water, Spectrophotometry)                                                          |           |      |        |            |         |              |         |                                                    |         |
| Method : Colour (Water, Spectrophotometric). Internal method: OTT-I-SPEC-WI45980.                |           |      |        |            |         |              |         |                                                    |         |
| Colour (True)                                                                                    | TCU       | 2    | <2     | 102        | 78-116  |              |         | -                                                  | 0-40    |
| Associated Samples : 9869176                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-14<br>Analysis Date: 2026-07-15 |         |
| DOC (Water, IR)                                                                                  |           |      |        |            |         |              |         |                                                    |         |
| Method : Organic carbon (water, IR, combustion). Internal method: OTT-I-DEM-WI46148.             |           |      |        |            |         |              |         |                                                    |         |
| Dissolved Organic Carbon                                                                         | mg/L      | 0.5  | <0.5   | 98         | 88-112  | 96           | 85-115  | 7                                                  | 0-15    |
| Associated Samples : 9869176                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-13<br>Analysis Date: 2026-07-14 |         |
| Escherichia coli (DC Plate)                                                                      |           |      |        |            |         |              |         |                                                    |         |
| Method : Total Coliforms and E.Coli by MF (Water, DC plate). Internal method: OTT-M-BAC-WI45296. |           |      |        |            |         |              |         |                                                    |         |
| Escherichia coli (DC)                                                                            | CFU/100mL | 0    | 0      |            |         |              |         | -                                                  | 0-30    |
| Associated Samples : 9869176                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-10<br>Analysis Date: 2026-07-11 |         |
| Fluoride (Water, Auto/ISE)                                                                       |           |      |        |            |         |              |         |                                                    |         |
| Method : Fluoride by autotitrator, ion selective electrode. Internal method: OTT-I-AT-WI45398.   |           |      |        |            |         |              |         |                                                    |         |
| Fluoride                                                                                         | mg/L      | 0.1  | <0.10  | 104        | 90-110  | 102          | 80-120  | -                                                  | 0-20    |
| Associated Samples : 9869176                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-10<br>Analysis Date: 2026-07-13 |         |

## OFFICIAL CERTIFICATE OF ANALYSIS - QUALITY CONTROL

Client : Paterson Group  
Project : PH5222

Reception Date: 2026-07-10

| Parameter                                                                       | Unit | RL     | Blank   | QC         |         | Matrix Spike |         | Duplicate                                          |         |
|---------------------------------------------------------------------------------|------|--------|---------|------------|---------|--------------|---------|----------------------------------------------------|---------|
|                                                                                 |      |        |         | Recovery % | Range % | Recovery %   | Range % | RPD %                                              | Range % |
| Metals Scan (Water, ICP/MS)                                                     |      |        |         |            |         |              |         |                                                    |         |
| Method : Metals (Water, ICP/MS). Internal method: AMMTFQE1.                     |      |        |         |            |         |              |         |                                                    |         |
| Aluminum                                                                        | mg/L | 0.01   | <0.01   | 100        | 80-120  | 103          | 70-130  | -                                                  | 0-20    |
| Antimony                                                                        | mg/L | 0.0005 | <0.0005 | 83         | 80-120  | 102          | 70-130  | -                                                  | 0-20    |
| Arsenic                                                                         | mg/L | 0.001  | <0.001  | 99         | 80-120  | 97           | 70-130  | -                                                  | 0-20    |
| Barium                                                                          | mg/L | 0.001  | <0.001  | 100        | 80-120  | 98           | 70-130  | 0                                                  | 0-20    |
| Beryllium                                                                       | mg/L | 0.0005 | <0.0005 | 108        | 80-120  | 97           | 70-130  | -                                                  | 0-20    |
| Boron                                                                           | mg/L | 0.01   | <0.01   | 100        | 80-120  | 94           | 70-130  | -                                                  | 0-20    |
| Cadmium                                                                         | mg/L | 0.0001 | <0.0001 | 101        | 80-120  | 96           | 70-130  | -                                                  | 0-20    |
| Chromium                                                                        | mg/L | 0.001  | <0.001  | 110        | 80-120  | 97           | 70-130  | -                                                  | 0-20    |
| Cobalt                                                                          | mg/L | 0.0002 | <0.0002 | 104        | 80-120  | 90           | 70-130  | -                                                  | 0-20    |
| Copper                                                                          | mg/L | 0.001  | <0.001  | 110        | 80-120  | 91           | 70-130  | -                                                  | 0-20    |
| Iron                                                                            | mg/L | 0.03   | <0.03   | 100        | 80-120  | 92           | 70-130  | -                                                  | 0-20    |
| Lead                                                                            | mg/L | 0.001  | <0.001  | 100        | 80-120  | 85           | 70-130  | -                                                  | 0-20    |
| Manganese                                                                       | mg/L | 0.01   | <0.01   | 100        | 80-120  | 93           | 70-130  | -                                                  | 0-20    |
| Mercury                                                                         | mg/L | 0.0001 | <0.0001 | 91         | 80-120  | 80           | 70-130  | -                                                  | 0-20    |
| Molybdenum                                                                      | mg/L | 0.005  | <0.005  | 100        | 80-120  | 93           | 70-130  | -                                                  | 0-20    |
| Nickel                                                                          | mg/L | 0.005  | <0.005  | 110        | 80-120  | 93           | 70-130  | -                                                  | 0-20    |
| Selenium                                                                        | mg/L | 0.001  | <0.001  | 99         | 80-120  | 98           | 70-130  | -                                                  | 0-20    |
| Silver                                                                          | mg/L | 0.0001 | <0.0001 | 107        | 80-120  | 83           | 70-130  | -                                                  | 0-20    |
| Strontium                                                                       | mg/L | 0.001  | <0.001  | 100        | 80-120  | 94           | 70-130  | 1                                                  | 0-20    |
| Thallium                                                                        | mg/L | 0.0001 | <0.0001 | 101        | 80-120  | 85           | 70-130  | -                                                  | 0-20    |
| Uranium                                                                         | mg/L | 0.001  | <0.001  | 100        | 80-120  | 84           | 70-130  | -                                                  | 0-20    |
| Vanadium                                                                        | mg/L | 0.001  | <0.001  | 100        | 80-120  | 98           | 70-130  | -                                                  | 0-20    |
| Zinc                                                                            | mg/L | 0.01   | <0.01   | 110        | 80-120  | 90           | 70-130  | -                                                  | 0-20    |
| Associated Samples : 9869176                                                    |      |        |         |            |         |              |         | Prep Date: 2026-07-13<br>Analysis Date: 2026-07-13 |         |
| Metals Scan (Water, ICP/OES)                                                    |      |        |         |            |         |              |         |                                                    |         |
| Method : Metals (Water, ICP/OES). Internal method: OTT-I-MET-WI48491.           |      |        |         |            |         |              |         |                                                    |         |
| Calcium                                                                         | mg/L | 1      | <1      | 100        | 70-130  | 97           | 70-130  | 0                                                  | 0-20    |
| Magnesium                                                                       | mg/L | 1      | <1      | 101        | 70-130  | 106          | 70-130  | 0                                                  | 0-20    |
| Potassium                                                                       | mg/L | 1      | <1      | 99         | 70-130  | 103          | 70-130  | -                                                  | 0-20    |
| Sodium                                                                          | mg/L | 1      | <1      | 101        | 70-130  | 102          | 70-130  | 0                                                  | 0-20    |
| Associated Samples : 9869176                                                    |      |        |         |            |         |              |         | Prep Date: 2026-07-15<br>Analysis Date: 2026-07-10 |         |
| Nitrate (Water, IC)                                                             |      |        |         |            |         |              |         |                                                    |         |
| Method : Anions (Water, Ion Chromatography). Internal method: OTT-I-IC-WI45985. |      |        |         |            |         |              |         |                                                    |         |
| Nitrate (as Nitrogen)                                                           | mg/L | 0.1    | <0.1    | 100        | 80-120  | 101          | 80-120  | 3                                                  | 0-20    |
| Associated Samples : 9869176                                                    |      |        |         |            |         |              |         | Prep Date: 2026-07-13<br>Analysis Date: 2026-07-14 |         |
| Nitrite (Water, IC)                                                             |      |        |         |            |         |              |         |                                                    |         |
| Method : Anions (Water, Ion Chromatography). Internal method: OTT-I-IC-WI45985. |      |        |         |            |         |              |         |                                                    |         |
| Nitrite (as Nitrogen)                                                           | mg/L | 0.1    | <0.1    | 99         | 80-120  | 103          | 80-120  | -                                                  | 0-20    |
| Associated Samples : 9869176                                                    |      |        |         |            |         |              |         | Prep Date: 2026-07-13<br>Analysis Date: 2026-07-14 |         |
| Phenols (Water, Colorimetry)                                                    |      |        |         |            |         |              |         |                                                    |         |
| Method : Phenols (Water, Colorimetry). Internal method: OTT-I-4AAP-WI46150.     |      |        |         |            |         |              |         |                                                    |         |
| Phenols-4AAP                                                                    | mg/L | 0.001  | <0.001  | 101        | 75-125  | 78           | 70-130  | 4                                                  | 0-20    |
| Associated Samples : 9869176                                                    |      |        |         |            |         |              |         | Prep Date: 2026-07-13<br>Analysis Date: 2026-07-13 |         |

## OFFICIAL CERTIFICATE OF ANALYSIS - QUALITY CONTROL

Client : Paterson Group

Project : PH5222

Reception Date: 2026-07-10

| Parameter                                                                                        | Unit      | RL   | Blank  | QC         |         | Matrix Spike |         | Duplicate                                          |         |
|--------------------------------------------------------------------------------------------------|-----------|------|--------|------------|---------|--------------|---------|----------------------------------------------------|---------|
|                                                                                                  |           |      |        | Recovery % | Range % | Recovery %   | Range % | RPD %                                              | Range % |
| Sulphate (Water, IC)                                                                             |           |      |        |            |         |              |         |                                                    |         |
| Method : Anions (Water, Ion Chromatography). Internal method: OTT-I-IC-WI45985.                  |           |      |        |            |         |              |         |                                                    |         |
| Sulphate                                                                                         | mg/L      | 1    | <1     | 101        | 90-110  | 108          | 80-120  | 0                                                  | 0-20    |
| Associated Samples : 9869176                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-13<br>Analysis Date: 2026-07-14 |         |
| Sulphide (Water, Colorimetry)                                                                    |           |      |        |            |         |              |         |                                                    |         |
| Method : Sulphide, S2- (Water, Colorimetry). Internal method: OTT-I-SPEC-WI45931.                |           |      |        |            |         |              |         |                                                    |         |
| Sulphide (S2-)                                                                                   | mg/L      | 0.01 | <0.01  | 66         | 48-131  |              |         | -                                                  | 0-20    |
| Associated Samples : 9869176                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-14<br>Analysis Date: 2026-07-14 |         |
| Tannin and Lignin (Water, Spec)                                                                  |           |      |        |            |         |              |         |                                                    |         |
| Method : Tannin and Lignin (Water, Spec), Internal method: OTT-I-SPEC-WI57693.                   |           |      |        |            |         |              |         |                                                    |         |
| Tannin and Lignin                                                                                | mg/L      | 0.1  | <0.1   | 100        | 80-120  |              |         | -                                                  | 0-20    |
| Associated Samples : 9869176                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-14<br>Analysis Date: 2026-07-14 |         |
| Total Coliforms (DC Plate)                                                                       |           |      |        |            |         |              |         |                                                    |         |
| Method : Total Coliforms and E.Coli by MF (Water, DC plate). Internal method: OTT-M-BAC-WI45296. |           |      |        |            |         |              |         |                                                    |         |
| Total Coliforms (DC)                                                                             | CFU/100mL | 0    | 0      |            |         |              |         | -                                                  | 0-30    |
| Associated Samples : 9869176                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-10<br>Analysis Date: 2026-07-11 |         |
| Total Kjeldahl Nitrogen (Water, Colorimetry)                                                     |           |      |        |            |         |              |         |                                                    |         |
| Method : TKN (Water, colorimetry). Internal method: OTT-I-NUT-WI46201.                           |           |      |        |            |         |              |         |                                                    |         |
| Total Kjeldahl Nitrogen                                                                          | mg/L      | 0.1  | <0.100 | 101        | 70-130  | 106          | 70-130  | -                                                  | 0-20    |
| Associated Samples : 9869176                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-13<br>Analysis Date: 2026-07-14 |         |
| Turbidity (Water, Turbidimeter)                                                                  |           |      |        |            |         |              |         |                                                    |         |
| Method : Turbidity (Water, Turbidimeter). Internal method: OTT-I-TUR-WI46288.                    |           |      |        |            |         |              |         |                                                    |         |
| Turbidity                                                                                        | NTU       | 0.1  | <0.1   | 95         | 80-120  |              |         | -                                                  | 0-30    |
| Associated Samples : 9869176                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-10<br>Analysis Date: 2026-07-10 |         |

Where RPD % is reported as "-" the calculation is not available because one or both of the duplicates is within 5 times the RL.

## STANDARD CHAIN-OF-CUSTODY

146 Colonnade Road, Unit #8, Ottawa, ON, K2E 7Y1 - Phone: 613-727-5692, Fax: 613-727-5222

[illegible]

**OFFICIAL CERTIFICATE OF ANALYSIS : 4787331**
**WORK REQUEST : 100454356**
**Report Date : 2026-08-05**
**Paterson Group**

9 Auriga Drive  
Ottawa, Ontario  
K2J 5Z9  
Attention : Zavian Buchanan

Reception Date : 2026-07-29

Project : PH5222

Sampler : NA

PO Number : 66598

Temperature : 11 °C

| Analysis                                     | Quantity | External Method                        |
|----------------------------------------------|----------|----------------------------------------|
| Alkalinity (Water, Automated)                | 1        | Modified from SM 2320 B                |
| Ammonia, Total (Water, Colorimetry)          | 1        | Modified from EPA 350.1                |
| Chloride (Water, IC)                         | 1        | Modified from SM 4110 B and C          |
| Colour, Apparent (Water, Spectrophotometry)  | 1        | Modified from SM 2120 C                |
| Colour, True (Water, Spectrophotometry)      | 1        | Modified from SM 2120 C                |
| Conductivity (Water, Automated)              | 1        | Modified from SM 2510 B                |
| DOC (Water, IR)                              | 1        | Modified from SM 5310 B                |
| Escherichia coli (DC Plate)                  | 1        | Modified from MECP E3407               |
| Fluoride (Water, Auto/ISE)                   | 1        | Modified from SM 4500-F A and 4500-F C |
| Hardness (Water, Calculation Only)           | 1        | SM 2340 B                              |
| Ion Balance (Water, Calculation)             | 1        | Modified from SM1030 E                 |
| Metals Scan (Water, ICP/MS)                  | 1        | Modified from EPA 200.8                |
| Metals Scan (Water, ICP/OES)                 | 1        | Modified from SM 3120 B                |
| Nitrate (Water, IC)                          | 1        | Modified from SM 4110 B and C          |
| Nitrite (Water, IC)                          | 1        | Modified from SM 4110 B and C          |
| pH (25°C) (Water, Automated)                 | 1        | Modified from SM 4500-H+ B             |
| Phenols (Water, Colorimetry)                 | 1        | Modified from EPA 420.2                |
| Sulphate (Water, IC)                         | 1        | Modified from SM 4110 B and C          |
| Sulphide (Water, Colorimetry)                | 1        | Modified from SM 4500-S2 D             |
| Tannin and Lignin (Water, Spec)              | 1        | Modified from SM 5550 B                |
| TDS (Estimated)                              | 1        | Modified from SM 2510 A                |
| Total Coliforms (DC Plate)                   | 1        | Modified from MECP E3407               |
| Total Kjeldahl Nitrogen (Water, Colorimetry) | 1        | Modified from EPA 351.2                |
| Turbidity (Water, Turbidimeter)              | 1        | Modified from SM 2130 B                |

**Criteria :**
**A :** Ontario Regulation 169/03 (Non-Regulated Drinking Water)

**Sample status upon receipt :**

9930809

**Compliant**
**Certificate Comments :**

9930809

**N-NO2 MRL increased due to matrix interference.**
**Notes :**

- All analysis is completed at Eurofins Environment Testing Canada Inc. (Ottawa, Ontario) unless otherwise stated.
- Eurofins Environment Testing Canada Inc. is accredited by CALA, Canadian Association for Laboratory Accreditation to ISO/IEC 17025 for tests which appear on the scope of accreditation. The scope is available at <https://directory.cala.ca/>
- Please note: Field data, where presented on the report, has been provided by the client and is presented for informational purposes only. Guideline or regulatory limits listed on this report are provided for ease of use (informational purposes) only. Eurofins recommends consulting the official guideline or regulation as required. Unless otherwise stated, measurement uncertainty is not taken into account when determining guideline or regulatory exceedances.

**Legend :**

RL : Reporting limit

N/A : Not applicable

\* : Analysis conducted by external subcontracting

QC : Reference material (QC)

1 : Results in annex

^ : Analysis not accredited

## OFFICIAL CERTIFICATE OF ANALYSIS - EXCEEDENCE SUMMARY

Client : Paterson Group

Project : PH5222

Reception Date : 2026-07-29

| Eurofins<br>Sample No                       | Client Sample<br>Identification | Analyte                         | Result | Units | Exceeded Criteria |   |   |
|---------------------------------------------|---------------------------------|---------------------------------|--------|-------|-------------------|---|---|
|                                             |                                 |                                 |        |       | A                 | B | C |
| Colour, Apparent (Water, Spectrophotometry) |                                 |                                 |        |       |                   |   |   |
| 9930809                                     | 5 Pop                           | Colour (Apparent)               | 8      | TCU   | 5                 |   |   |
| Hardness (Water, Calculation Only)          |                                 |                                 |        |       |                   |   |   |
| 9930809                                     | 5 Pop                           | Hardness as CaCO3 (Calculation) | 412    | mg/L  | 80-100            |   |   |
| Metals Scan (Water, ICP/MS)                 |                                 |                                 |        |       |                   |   |   |
| 9930809                                     | 5 Pop                           | Iron                            | 0.56   | mg/L  | 0.3               |   |   |
| TDS (Estimated)                             |                                 |                                 |        |       |                   |   |   |
| 9930809                                     | 5 Pop                           | TDS (Estimated)^                | 742    | mg/L  | 500               |   |   |

## OFFICIAL CERTIFICATE OF ANALYSIS - RESULTS

Client : Paterson Group  
Project : PH5222

Reception Date: 2026-07-29

|          |     |      | Eurofins Sample No : <b>9930809</b>  |   |   |      |  |  |  |
|----------|-----|------|--------------------------------------|---|---|------|--|--|--|
|          |     |      | Matrix : Groundwater                 |   |   |      |  |  |  |
|          |     |      | Sampling Date : 2026-07-29           |   |   |      |  |  |  |
|          |     |      | Client Sample Identification : 5 Pop |   |   |      |  |  |  |
| Anions   | RL  | Unit | Criteria                             |   |   |      |  |  |  |
|          |     |      | A                                    | B | C |      |  |  |  |
| Chloride | 0.5 | mg/L | 250                                  |   |   | 160  |  |  |  |
| Fluoride | 0.1 | mg/L | 1.5                                  |   |   | 0.10 |  |  |  |
| Sulphate | 1   | mg/L | 500                                  |   |   | 57   |  |  |  |

|                            |     |      | Eurofins Sample No : <b>9930809</b>  |  |  |  |  |  |  |
|----------------------------|-----|------|--------------------------------------|--|--|--|--|--|--|
|                            |     |      | Matrix : Groundwater                 |  |  |  |  |  |  |
|                            |     |      | Sampling Date : 2026-07-29           |  |  |  |  |  |  |
|                            |     |      | Client Sample Identification : 5 Pop |  |  |  |  |  |  |
| Calculations               | RL  | Unit |                                      |  |  |  |  |  |  |
| Ion Balance (Calculation)^ | 0.1 |      | 1.03                                 |  |  |  |  |  |  |

|                                             |       |       | Eurofins Sample No : <b>9930809</b>  |   |   |        |  |  |  |
|---------------------------------------------|-------|-------|--------------------------------------|---|---|--------|--|--|--|
|                                             |       |       | Matrix : Groundwater                 |   |   |        |  |  |  |
|                                             |       |       | Sampling Date : 2026-07-29           |   |   |        |  |  |  |
|                                             |       |       | Client Sample Identification : 5 Pop |   |   |        |  |  |  |
| General Chemistry                           | RL    | Unit  | Criteria                             |   |   |        |  |  |  |
|                                             |       |       | A                                    | B | C |        |  |  |  |
| Alkalinity (as CaCO <sub>3</sub> )          | 5     | mg/L  | 500                                  |   |   | 313    |  |  |  |
| Colour (Apparent)                           | 2     | TCU   | 5                                    |   |   | 8      |  |  |  |
| Colour (True)                               | 2     | TCU   |                                      |   |   | <2     |  |  |  |
| Conductivity @ 25°C                         | 5     | µS/cm |                                      |   |   | 1140   |  |  |  |
| Dissolved Organic Carbon                    | 0.5   | mg/L  | 5                                    |   |   | 3.5    |  |  |  |
| Hardness as CaCO <sub>3</sub> (Calculation) | 1     | mg/L  | 80-100                               |   |   | 412    |  |  |  |
| pH @ 25°C                                   | 1     |       | 6.5-8.5                              |   |   | 7.42   |  |  |  |
| Phenols-4AAP                                | 0.001 | mg/L  |                                      |   |   | <0.001 |  |  |  |
| Sulphide (S <sub>2</sub> -)                 | 0.01  | mg/L  | 0.05                                 |   |   | <0.01  |  |  |  |
| Tannin and Lignin                           | 0.1   | mg/L  |                                      |   |   | <0.1   |  |  |  |
| TDS (Estimated)^                            | 5     | mg/L  | 500                                  |   |   | 742    |  |  |  |
| Turbidity                                   | 0.1   | NTU   | 5                                    |   |   | 1.9    |  |  |  |

## OFFICIAL CERTIFICATE OF ANALYSIS - RESULTS

Client : Paterson Group  
Project : PH5222

Reception Date: 2026-07-29

|                                |        |      |       |          |             |         |  |  |  |  |
|--------------------------------|--------|------|-------|----------|-------------|---------|--|--|--|--|
| Eurofins Sample No :           |        |      |       |          | 9930809     |         |  |  |  |  |
| Matrix :                       |        |      |       |          | Groundwater |         |  |  |  |  |
| Sampling Date :                |        |      |       |          | 2026-07-29  |         |  |  |  |  |
| Client Sample Identification : |        |      |       |          | 5 Pop       |         |  |  |  |  |
| Metals                         |        | RL   | Unit  | Criteria |             |         |  |  |  |  |
|                                |        |      |       | A        | B           | C       |  |  |  |  |
| Metals Scan (Water, ICP/MS)    |        |      |       |          |             |         |  |  |  |  |
| Aluminum                       | 0.01   | mg/L | 0.1   |          |             | 0.02    |  |  |  |  |
| Antimony                       | 0.0005 | mg/L | 0.006 |          |             | <0.0005 |  |  |  |  |
| Arsenic                        | 0.001  | mg/L | 0.01  |          |             | <0.001  |  |  |  |  |
| Barium                         | 0.001  | mg/L | 1     |          |             | 0.286   |  |  |  |  |
| Beryllium                      | 0.0005 | mg/L |       |          |             | <0.0005 |  |  |  |  |
| Boron                          | 0.01   | mg/L | 5     |          |             | 0.05    |  |  |  |  |
| Cadmium                        | 0.0001 | mg/L | 0.005 |          |             | <0.0001 |  |  |  |  |
| Chromium                       | 0.001  | mg/L | 0.05  |          |             | 0.002   |  |  |  |  |
| Cobalt                         | 0.0002 | mg/L |       |          |             | <0.0002 |  |  |  |  |
| Copper                         | 0.001  | mg/L | 1     |          |             | 0.112   |  |  |  |  |
| Iron                           | 0.03   | mg/L | 0.3   |          |             | 0.56    |  |  |  |  |
| Lead                           | 0.001  | mg/L | 0.01  |          |             | 0.003   |  |  |  |  |
| Manganese                      | 0.01   | mg/L | 0.05  |          |             | <0.01   |  |  |  |  |
| Mercury                        | 0.0001 | mg/L | 0.001 |          |             | <0.0001 |  |  |  |  |
| Molybdenum                     | 0.005  | mg/L |       |          |             | <0.005  |  |  |  |  |
| Nickel                         | 0.005  | mg/L |       |          |             | <0.005  |  |  |  |  |
| Selenium                       | 0.001  | mg/L | 0.05  |          |             | <0.001  |  |  |  |  |
| Silver                         | 0.0001 | mg/L |       |          |             | 0.0002  |  |  |  |  |
| Strontium                      | 0.001  | mg/L |       |          |             | 2.82    |  |  |  |  |
| Thallium                       | 0.0001 | mg/L |       |          |             | <0.0001 |  |  |  |  |
| Uranium                        | 0.001  | mg/L | 0.02  |          |             | <0.001  |  |  |  |  |
| Vanadium                       | 0.001  | mg/L |       |          |             | <0.001  |  |  |  |  |
| Zinc                           | 0.01   | mg/L | 5     |          |             | 0.04    |  |  |  |  |
| Metals Scan (Water, ICP/OES)   |        |      |       |          |             |         |  |  |  |  |
| Calcium                        | 1      | mg/L |       |          |             | 127     |  |  |  |  |
| Magnesium                      | 1      | mg/L |       |          |             | 23      |  |  |  |  |
| Potassium                      | 1      | mg/L |       |          |             | 3       |  |  |  |  |
| Sodium                         | 1      | mg/L | 200   |          |             | 94      |  |  |  |  |

|                       |    |           | Eurofins Sample No : <b>9930809</b>  |   |   |   |  |  |  |
|-----------------------|----|-----------|--------------------------------------|---|---|---|--|--|--|
|                       |    |           | Matrix : Groundwater                 |   |   |   |  |  |  |
|                       |    |           | Sampling Date : 2026-07-29           |   |   |   |  |  |  |
|                       |    |           | Client Sample Identification : 5 Pop |   |   |   |  |  |  |
| Microbiology          | RL | Unit      | Criteria                             |   |   |   |  |  |  |
|                       |    |           | A                                    | B | C |   |  |  |  |
| Escherichia coli (DC) | 0  | CFU/100mL | 0                                    |   |   | 0 |  |  |  |
| Total Coliforms (DC)  | 0  | CFU/100mL | 0                                    |   |   | 0 |  |  |  |

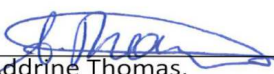
## OFFICIAL CERTIFICATE OF ANALYSIS - RESULTS

Client : Paterson Group  
Project : PH5222

Reception Date: 2026-07-29

|                              |      |      | Eurofins Sample No : <b>9930809</b>  |   |   |        |  |  |  |
|------------------------------|------|------|--------------------------------------|---|---|--------|--|--|--|
|                              |      |      | Matrix : Groundwater                 |   |   |        |  |  |  |
|                              |      |      | Sampling Date : 2026-07-29           |   |   |        |  |  |  |
|                              |      |      | Client Sample Identification : 5 Pop |   |   |        |  |  |  |
| Nutrients                    | RL   | Unit | Criteria                             |   |   |        |  |  |  |
|                              |      |      | A                                    | B | C |        |  |  |  |
| Ammonia (Total, as Nitrogen) | 0.02 | mg/L |                                      |   |   | <0.020 |  |  |  |
| Nitrate (as Nitrogen)        | 0.1  | mg/L | 10.0                                 |   |   | 1.49   |  |  |  |
| Nitrite (as Nitrogen)        | 0.1  | mg/L | 1.0                                  |   |   | <0.5   |  |  |  |
| Total Kjeldahl Nitrogen      | 0.1  | mg/L |                                      |   |   | 0.411  |  |  |  |

Approved by :

  
Addrine Thomas,  
Chemistry Manager, Ottawa

Approved by :

  
Emma-Dawn Ferguson, M.Sc.  
Environmental Chemist

## OFFICIAL CERTIFICATE OF ANALYSIS - QUALITY CONTROL

Client : Paterson Group

Project : PH5222

Reception Date: 2026-07-29

| Parameter                                                                                        | Unit      | RL   | Blank  | QC         |         | Matrix Spike |         | Duplicate                                          |         |
|--------------------------------------------------------------------------------------------------|-----------|------|--------|------------|---------|--------------|---------|----------------------------------------------------|---------|
|                                                                                                  |           |      |        | Recovery % | Range % | Recovery %   | Range % | RPD %                                              | Range % |
| Alkalinity (Water, Automated)                                                                    |           |      |        |            |         |              |         |                                                    |         |
| Method : Alkalinity (water, titration to pH 4.5, automated). Internal method: OTT-I-AT-WI45398.  |           |      |        |            |         |              |         |                                                    |         |
| Alkalinity (as CaCO3)                                                                            | mg/L      | 5    | <5     | 99         | 95-105  |              |         | 2                                                  | 0-20    |
| Associated Samples : 9930809                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-30<br>Analysis Date: 2026-07-31 |         |
| Ammonia, Total (Water, Colorimetry)                                                              |           |      |        |            |         |              |         |                                                    |         |
| Method : Ammonia (Water, Colorimetry). Internal method: OTT-I-NUT-WI46201.                       |           |      |        |            |         |              |         |                                                    |         |
| Ammonia (Total, as Nitrogen)                                                                     | mg/L      | 0.02 | <0.020 | 100        | 80-120  | 101          | 80-120  | -                                                  | 0-20    |
| Associated Samples : 9930809                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-30<br>Analysis Date: 2026-07-30 |         |
| Chloride (Water, IC)                                                                             |           |      |        |            |         |              |         |                                                    |         |
| Method : Anions (Water, Ion Chromatography). Internal method: OTT-I-IC-WI45985.                  |           |      |        |            |         |              |         |                                                    |         |
| Chloride                                                                                         | mg/L      | 0.5  | <0.5   | 98         | 80-120  | 103          | 80-120  | -                                                  | 0-20    |
| Associated Samples : 9930809                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-30<br>Analysis Date: 2026-07-30 |         |
| Colour, Apparent (Water, Spectrophotometry)                                                      |           |      |        |            |         |              |         |                                                    |         |
| Method : Colour (Water, Spectrophotometric). Internal method: OTT-I-SPEC-WI45980.                |           |      |        |            |         |              |         |                                                    |         |
| Colour (Apparent)                                                                                | TCU       | 2    | <2     | 95         | 78-116  |              |         | 2                                                  | 0-40    |
| Associated Samples : 9930809                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-08-05<br>Analysis Date: 2026-08-05 |         |
| Colour, True (Water, Spectrophotometry)                                                          |           |      |        |            |         |              |         |                                                    |         |
| Method : Colour (Water, Spectrophotometric). Internal method: OTT-I-SPEC-WI45980.                |           |      |        |            |         |              |         |                                                    |         |
| Colour (True)                                                                                    | TCU       | 2    | <2     | 95         | 78-116  |              |         | -                                                  | 0-40    |
| Associated Samples : 9930809                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-08-05<br>Analysis Date: 2026-08-05 |         |
| Conductivity (Water, Automated)                                                                  |           |      |        |            |         |              |         |                                                    |         |
| Method : Conductivity (Water, Autotitrator). Internal Method: OTT-I-AT-WI45398.                  |           |      |        |            |         |              |         |                                                    |         |
| Conductivity @ 25°C                                                                              | uS/cm     | 5    | <5     | 98         | 98-102  |              |         | 0                                                  | 0-20    |
| Associated Samples : 9930809                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-30<br>Analysis Date: 2026-07-31 |         |
| DOC (Water, IR)                                                                                  |           |      |        |            |         |              |         |                                                    |         |
| Method : Organic carbon (water, IR, combustion). Internal method: OTT-I-DEM-WI46148.             |           |      |        |            |         |              |         |                                                    |         |
| Dissolved Organic Carbon                                                                         | mg/L      | 0.5  | <0.5   | 99         | 88-112  | 88           | 85-115  | 7                                                  | 0-15    |
| Associated Samples : 9930809                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-30<br>Analysis Date: 2026-07-31 |         |
| Escherichia coli (DC Plate)                                                                      |           |      |        |            |         |              |         |                                                    |         |
| Method : Total Coliforms and E.Coli by MF (Water, DC plate). Internal method: OTT-M-BAC-WI45296. |           |      |        |            |         |              |         |                                                    |         |
| Escherichia coli (DC)                                                                            | CFU/100mL | 0    | 0      |            |         |              |         | -                                                  | 0-30    |
| Associated Samples : 9930809                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-29<br>Analysis Date: 2026-07-30 |         |
| Fluoride (Water, Auto/ISE)                                                                       |           |      |        |            |         |              |         |                                                    |         |
| Method : Fluoride by autotitrator, ion selective electrode. Internal method: OTT-I-AT-WI45398.   |           |      |        |            |         |              |         |                                                    |         |
| Fluoride                                                                                         | mg/L      | 0.1  | <0.10  | 101        | 90-110  |              |         | 2                                                  | 0-20    |
| Associated Samples : 9930809                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-30<br>Analysis Date: 2026-07-31 |         |

## OFFICIAL CERTIFICATE OF ANALYSIS - QUALITY CONTROL

Client : Paterson Group

Project : PH5222

Reception Date: 2026-07-29

| Parameter                                                                       | Unit | RL     | Blank   | QC         |         | Matrix Spike |         | Duplicate                                          |         |
|---------------------------------------------------------------------------------|------|--------|---------|------------|---------|--------------|---------|----------------------------------------------------|---------|
|                                                                                 |      |        |         | Recovery % | Range % | Recovery %   | Range % | RPD %                                              | Range % |
| Metals Scan (Water, ICP/MS)                                                     |      |        |         |            |         |              |         |                                                    |         |
| Method : Metals (Water, ICP/MS). Internal method: AMMTFQE1.                     |      |        |         |            |         |              |         |                                                    |         |
| Aluminum                                                                        | mg/L | 0.01   | <0.01   | 100        | 80-120  | 102          | 70-130  | -                                                  | 0-20    |
| Antimony                                                                        | mg/L | 0.0005 | <0.0005 | 84         | 80-120  | 80           | 70-130  | -                                                  | 0-20    |
| Arsenic                                                                         | mg/L | 0.001  | <0.001  | 101        | 80-120  | 101          | 70-130  | -                                                  | 0-20    |
| Barium                                                                          | mg/L | 0.001  | <0.001  | 100        | 80-120  | 94           | 70-130  | -                                                  | 0-20    |
| Beryllium                                                                       | mg/L | 0.0005 | <0.0005 | 106        | 80-120  | 103          | 70-130  | -                                                  | 0-20    |
| Boron                                                                           | mg/L | 0.01   | <0.01   | 100        | 80-120  | 100          | 70-130  | -                                                  | 0-20    |
| Cadmium                                                                         | mg/L | 0.0001 | <0.0001 | 99         | 80-120  | 98           | 70-130  | -                                                  | 0-20    |
| Chromium                                                                        | mg/L | 0.001  | <0.001  | 100        | 80-120  | 99           | 70-130  | -                                                  | 0-20    |
| Cobalt                                                                          | mg/L | 0.0002 | <0.0002 | 103        | 80-120  | 102          | 70-130  | -                                                  | 0-20    |
| Copper                                                                          | mg/L | 0.001  | <0.001  | 100        | 80-120  | 101          | 70-130  | -                                                  | 0-20    |
| Iron                                                                            | mg/L | 0.03   | <0.03   | 100        | 80-120  | 94           | 70-130  | -                                                  | 0-20    |
| Lead                                                                            | mg/L | 0.001  | <0.001  | 100        | 80-120  | 100          | 70-130  | -                                                  | 0-20    |
| Manganese                                                                       | mg/L | 0.01   | <0.01   | 100        | 80-120  | 100          | 70-130  | -                                                  | 0-20    |
| Mercury                                                                         | mg/L | 0.0001 | <0.0001 | 99         | 80-120  | 100          | 70-130  | -                                                  | 0-20    |
| Molybdenum                                                                      | mg/L | 0.005  | <0.005  | 90         | 80-120  | 90           | 70-130  | -                                                  | 0-20    |
| Nickel                                                                          | mg/L | 0.005  | <0.005  | 100        | 80-120  | 100          | 70-130  | -                                                  | 0-20    |
| Selenium                                                                        | mg/L | 0.001  | <0.001  | 101        | 80-120  | 103          | 70-130  | -                                                  | 0-20    |
| Silver                                                                          | mg/L | 0.0001 | <0.0001 | 80         | 80-120  | 93           | 70-130  | -                                                  | 0-20    |
| Strontium                                                                       | mg/L | 0.001  | <0.001  | 100        | 80-120  | 97           | 70-130  | -                                                  | 0-20    |
| Thallium                                                                        | mg/L | 0.0001 | <0.0001 | 100        | 80-120  | 100          | 70-130  | -                                                  | 0-20    |
| Uranium                                                                         | mg/L | 0.001  | <0.001  | 100        | 80-120  | 97           | 70-130  | -                                                  | 0-20    |
| Vanadium                                                                        | mg/L | 0.001  | <0.001  | 100        | 80-120  | 96           | 70-130  | -                                                  | 0-20    |
| Zinc                                                                            | mg/L | 0.01   | <0.01   | 100        | 80-120  | 100          | 70-130  | -                                                  | 0-20    |
| Associated Samples : 9930809                                                    |      |        |         |            |         |              |         | Prep Date: 2026-07-30<br>Analysis Date: 2026-07-30 |         |
| Metals Scan (Water, ICP/OES)                                                    |      |        |         |            |         |              |         |                                                    |         |
| Method : Metals (Water, ICP/OES). Internal method: OTT-I-MET-WI48491.           |      |        |         |            |         |              |         |                                                    |         |
| Calcium                                                                         | mg/L | 1      | <1      | 100        | 70-130  | 106          | 70-130  | 0                                                  | 0-20    |
| Magnesium                                                                       | mg/L | 1      | <1      | 99         | 70-130  | 109          | 70-130  | 0                                                  | 0-20    |
| Potassium                                                                       | mg/L | 1      | <1      | 100        | 70-130  | 102          | 70-130  | -                                                  | 0-20    |
| Sodium                                                                          | mg/L | 1      | <1      | 100        | 70-130  | 105          | 70-130  | 0                                                  | 0-20    |
| Associated Samples : 9930809                                                    |      |        |         |            |         |              |         | Prep Date: 2026-08-04<br>Analysis Date: 2026-07-29 |         |
| Nitrate (Water, IC)                                                             |      |        |         |            |         |              |         |                                                    |         |
| Method : Anions (Water, Ion Chromatography). Internal method: OTT-I-IC-WI45985. |      |        |         |            |         |              |         |                                                    |         |
| Nitrate (as Nitrogen)                                                           | mg/L | 0.1    | <0.1    | 102        | 80-120  | 99           | 80-120  | -                                                  | 0-20    |
| Associated Samples : 9930809                                                    |      |        |         |            |         |              |         | Prep Date: 2026-07-30<br>Analysis Date: 2026-07-30 |         |
| Nitrite (Water, IC)                                                             |      |        |         |            |         |              |         |                                                    |         |
| Method : Anions (Water, Ion Chromatography). Internal method: OTT-I-IC-WI45985. |      |        |         |            |         |              |         |                                                    |         |
| Nitrite (as Nitrogen)                                                           | mg/L | 0.1    | <0.1    | 103        | 80-120  | 106          | 80-120  | -                                                  | 0-20    |
| Associated Samples : 9930809                                                    |      |        |         |            |         |              |         | Prep Date: 2026-07-30<br>Analysis Date: 2026-07-30 |         |
| pH (25°C) (Water, Automated)                                                    |      |        |         |            |         |              |         |                                                    |         |
| Method : pH (Water, Automated Meter). Internal method: OTT-I-AT-WI45398.        |      |        |         |            |         |              |         |                                                    |         |
| pH @ 25°C                                                                       |      | 1      | 7.49    | 100        | 97-103  |              |         | 2                                                  | 0-20    |
| Associated Samples : 9930809                                                    |      |        |         |            |         |              |         | Prep Date: 2026-07-30<br>Analysis Date: 2026-07-31 |         |

## OFFICIAL CERTIFICATE OF ANALYSIS - QUALITY CONTROL

Client : Paterson Group

Project : PH5222

Reception Date: 2026-07-29

| Parameter                                                                                        | Unit      | RL    | Blank  | QC         |         | Matrix Spike |         | Duplicate                                          |         |
|--------------------------------------------------------------------------------------------------|-----------|-------|--------|------------|---------|--------------|---------|----------------------------------------------------|---------|
|                                                                                                  |           |       |        | Recovery % | Range % | Recovery %   | Range % | RPD %                                              | Range % |
| Phenols (Water, Colorimetry)                                                                     |           |       |        |            |         |              |         |                                                    |         |
| Method : Phenols (Water, Colorimetry). Internal method: OTT-I-4AAP-WI46150.                      |           |       |        |            |         |              |         |                                                    |         |
| Phenols-4AAP                                                                                     | mg/L      | 0.001 | <0.001 | 104        | 75-125  | 99           | 70-130  | -                                                  | 0-20    |
| Associated Samples : 9930809                                                                     |           |       |        |            |         |              |         | Prep Date: 2026-07-31<br>Analysis Date: 2026-07-31 |         |
| Sulphate (Water, IC)                                                                             |           |       |        |            |         |              |         |                                                    |         |
| Method : Anions (Water, Ion Chromatography). Internal method: OTT-I-IC-WI45985.                  |           |       |        |            |         |              |         |                                                    |         |
| Sulphate                                                                                         | mg/L      | 1     | <1     | 99         | 90-110  | 97           | 80-120  | -                                                  | 0-20    |
| Associated Samples : 9930809                                                                     |           |       |        |            |         |              |         | Prep Date: 2026-07-30<br>Analysis Date: 2026-07-30 |         |
| Sulphide (Water, Colorimetry)                                                                    |           |       |        |            |         |              |         |                                                    |         |
| Method : Sulphide, S2- (Water, Colorimetry). Internal method: OTT-I-SPEC-WI45931.                |           |       |        |            |         |              |         |                                                    |         |
| Sulphide (S2-)                                                                                   | mg/L      | 0.01  | <0.01  | 61         | 48-131  |              |         | -                                                  | 0-20    |
| Associated Samples : 9930809                                                                     |           |       |        |            |         |              |         | Prep Date: 2026-08-04<br>Analysis Date: 2026-08-04 |         |
| Tannin and Lignin (Water, Spec)                                                                  |           |       |        |            |         |              |         |                                                    |         |
| Method : Tannin and Lignin (Water, Spec), Internal method: OTT-I-SPEC-WI57693.                   |           |       |        |            |         |              |         |                                                    |         |
| Tannin and Lignin                                                                                | mg/L      | 0.1   | <0.1   | 92         | 80-120  |              |         | -                                                  | 0-20    |
| Associated Samples : 9930809                                                                     |           |       |        |            |         |              |         | Prep Date: 2026-07-30<br>Analysis Date: 2026-07-30 |         |
| Total Coliforms (DC Plate)                                                                       |           |       |        |            |         |              |         |                                                    |         |
| Method : Total Coliforms and E.Coli by MF (Water, DC plate). Internal method: OTT-M-BAC-WI45296. |           |       |        |            |         |              |         |                                                    |         |
| Total Coliforms (DC)                                                                             | CFU/100mL | 0     | 0      |            |         |              |         | -                                                  | 0-30    |
| Associated Samples : 9930809                                                                     |           |       |        |            |         |              |         | Prep Date: 2026-07-29<br>Analysis Date: 2026-07-30 |         |
| Total Kjeldahl Nitrogen (Water, Colorimetry)                                                     |           |       |        |            |         |              |         |                                                    |         |
| Method : TKN (Water, colorimetry). Internal method: OTT-I-NUT-WI46201.                           |           |       |        |            |         |              |         |                                                    |         |
| Total Kjeldahl Nitrogen                                                                          | mg/L      | 0.1   | <0.100 | 91         | 70-130  | 101          | 70-130  | -                                                  | 0-20    |
| Associated Samples : 9930809                                                                     |           |       |        |            |         |              |         | Prep Date: 2026-07-30<br>Analysis Date: 2026-07-31 |         |
| Turbidity (Water, Turbidimeter)                                                                  |           |       |        |            |         |              |         |                                                    |         |
| Method : Turbidity (Water, Turbidimeter). Internal method: OTT-I-TUR-WI46288.                    |           |       |        |            |         |              |         |                                                    |         |
| Turbidity                                                                                        | NTU       | 0.1   | <0.1   | 97         | 80-120  |              |         | 3                                                  | 0-30    |
| Associated Samples : 9930809                                                                     |           |       |        |            |         |              |         | Prep Date: 2026-07-31<br>Analysis Date: 2026-07-31 |         |

Where RPD % is reported as "-" the calculation is not available because one or both of the duplicates is within 5 times the RL.

401 Magnetic Drive, Unit #1, North York, ON, M3J 3H9 - Telephone: 416-661-5287 • 380 Vansickle Road, Unit #630, St. Catharines, ON, L2S 0B5 - Telephone: 905-680-8887 • 608 Norris Court, Kingston, ON, K7P 2R9 - Telephone: 613-634-9307  
OTT-P-SOP73462, Revis. 10.1 (formerly AF28DCOC) • Copies: White - Laboratory, Yellow - Sample

**OFFICIAL CERTIFICATE OF ANALYSIS : 4758958**
**WORK REQUEST : 100449575**
**Report Date : 2026-07-16**
**Paterson Group**

9 Auriga Dr  
Nepean, Ontario  
K2E 7T9  
Attention : Erik Ardley

Reception Date : 2026-07-10

Project : PH5222

Sampler : NA

PO Number : 66415

Temperature : 10 °C

| Analysis                                     | Quantity | External Method                        |
|----------------------------------------------|----------|----------------------------------------|
| Alkalinity (Water, Automated)                | 1        | Modified from SM 2320 B                |
| Ammonia, Total (Water, Colorimetry)          | 1        | Modified from EPA 350.1                |
| Chloride (Water, IC)                         | 1        | Modified from SM 4110 B and C          |
| Colour, Apparent (Water, Spectrophotometry)  | 1        | Modified from SM 2120 C                |
| Colour, True (Water, Spectrophotometry)      | 1        | Modified from SM 2120 C                |
| Conductivity (Water, Automated)              | 1        | Modified from SM 2510 B                |
| DOC (Water, IR)                              | 1        | Modified from SM 5310 B                |
| Escherichia coli (DC Plate)                  | 1        | Modified from MECP E3407               |
| Fluoride (Water, Auto/ISE)                   | 1        | Modified from SM 4500-F A and 4500-F C |
| Hardness (Water, Calculation Only)           | 1        | SM 2340 B                              |
| Ion Balance (Water, Calculation)             | 1        | Modified from SM1030 E                 |
| Metals Scan (Water, ICP/MS)                  | 1        | Modified from EPA 200.8                |
| Metals Scan (Water, ICP/OES)                 | 1        | Modified from SM 3120 B                |
| Nitrate (Water, IC)                          | 1        | Modified from SM 4110 B and C          |
| Nitrite (Water, IC)                          | 1        | Modified from SM 4110 B and C          |
| pH (25°C) (Water, Automated)                 | 1        | Modified from SM 4500-H+ B             |
| Phenols (Water, Colorimetry)                 | 1        | Modified from EPA 420.2                |
| Sulphate (Water, IC)                         | 1        | Modified from SM 4110 B and C          |
| Sulphide (Water, Colorimetry)                | 1        | Modified from SM 4500-S2 D             |
| Tannin and Lignin (Water, Spec)              | 1        | Modified from SM 5550 B                |
| TDS (Estimated)                              | 1        | Modified from SM 2510 A                |
| Total Coliforms (DC Plate)                   | 1        | Modified from MECP E3407               |
| Total Kjeldahl Nitrogen (Water, Colorimetry) | 1        | Modified from EPA 351.2                |
| Turbidity (Water, Turbidimeter)              | 1        | Modified from SM 2130 B                |

**Criteria :**
**A :** Ontario Regulation 169/03 (Non-Regulated Drinking Water)

**Sample status upon receipt :**

9869323

**Compliant**
**Certificate Comments :**

9869323

**N-NO2 and N-NO3 MRLs increased due to matrix interference.**
**Notes :**

- All analysis is completed at Eurofins Environment Testing Canada Inc. (Ottawa, Ontario) unless otherwise stated.
- Eurofins Environment Testing Canada Inc. is accredited by CALA, Canadian Association for Laboratory Accreditation to ISO/IEC 17025 for tests which appear on the scope of accreditation. The scope is available at <https://directory.cala.ca/>
- Please note: Field data, where presented on the report, has been provided by the client and is presented for informational purposes only. Guideline or regulatory limits listed on this report are provided for ease of use (informational purposes) only. Eurofins recommends consulting the official guideline or regulation as required. Unless otherwise stated, measurement uncertainty is not taken into account when determining guideline or regulatory exceedances.

**Legend :**

RL : Reporting limit

N/A : Not applicable

\* : Analysis conducted by external subcontracting

QC : Reference material (QC)

1 : Results in annex

^ : Analysis not accredited

## OFFICIAL CERTIFICATE OF ANALYSIS - EXCEEDENCE SUMMARY

Client : Paterson Group

Project : PH5222

Reception Date : 2026-07-10

| Eurofins<br>Sample No                       | Client Sample<br>Identification | Analyte                         | Result | Units | Exceeded Criteria |   |   |
|---------------------------------------------|---------------------------------|---------------------------------|--------|-------|-------------------|---|---|
|                                             |                                 |                                 |        |       | A                 | B | C |
| Colour, Apparent (Water, Spectrophotometry) |                                 |                                 |        |       |                   |   |   |
| 9869323                                     | 6 Poplarwood                    | Colour (Apparent)               | 10     | TCU   | 5                 |   |   |
| Hardness (Water, Calculation Only)          |                                 |                                 |        |       |                   |   |   |
| 9869323                                     | 6 Poplarwood                    | Hardness as CaCO3 (Calculation) | 477    | mg/L  | 80-100            |   |   |
| Metals Scan (Water, ICP/MS)                 |                                 |                                 |        |       |                   |   |   |
| 9869323                                     | 6 Poplarwood                    | Iron                            | 0.48   | mg/L  | 0.3               |   |   |
| TDS (Estimated)                             |                                 |                                 |        |       |                   |   |   |
| 9869323                                     | 6 Poplarwood                    | TDS (Estimated)^                | 826    | mg/L  | 500               |   |   |

## OFFICIAL CERTIFICATE OF ANALYSIS - RESULTS

Client : Paterson Group  
Project : PH5222

Reception Date: 2026-07-10

|          |     |      | Eurofins Sample No : <b>9869323</b>         |   |   |     |  |  |  |
|----------|-----|------|---------------------------------------------|---|---|-----|--|--|--|
|          |     |      | Matrix : Groundwater                        |   |   |     |  |  |  |
|          |     |      | Sampling Date : 2026-07-09                  |   |   |     |  |  |  |
|          |     |      | Client Sample Identification : 6 Poplarwood |   |   |     |  |  |  |
| Anions   | RL  | Unit | Criteria                                    |   |   |     |  |  |  |
|          |     |      | A                                           | B | C |     |  |  |  |
| Chloride | 0.5 | mg/L | 250                                         |   |   | 184 |  |  |  |
| Sulphate | 1   | mg/L | 500                                         |   |   | 103 |  |  |  |

|                            |     |      | Eurofins Sample No : <b>9869323</b>         |  |  |  |  |  |  |
|----------------------------|-----|------|---------------------------------------------|--|--|--|--|--|--|
|                            |     |      | Matrix : Groundwater                        |  |  |  |  |  |  |
|                            |     |      | Sampling Date : 2026-07-09                  |  |  |  |  |  |  |
|                            |     |      | Client Sample Identification : 6 Poplarwood |  |  |  |  |  |  |
| Calculations               | RL  | Unit |                                             |  |  |  |  |  |  |
| Ion Balance (Calculation)^ | 0.1 |      | 1.01                                        |  |  |  |  |  |  |

|                                 |       |       | Eurofins Sample No : <b>9869323</b>         |   |   |        |  |  |  |
|---------------------------------|-------|-------|---------------------------------------------|---|---|--------|--|--|--|
|                                 |       |       | Matrix : Groundwater                        |   |   |        |  |  |  |
|                                 |       |       | Sampling Date : 2026-07-09                  |   |   |        |  |  |  |
|                                 |       |       | Client Sample Identification : 6 Poplarwood |   |   |        |  |  |  |
| General Chemistry               | RL    | Unit  | Criteria                                    |   |   |        |  |  |  |
|                                 |       |       | A                                           | B | C |        |  |  |  |
| Alkalinity (as CaCO3)           | 5     | mg/L  | 500                                         |   |   | 300    |  |  |  |
| Colour (Apparent)               | 2     | TCU   | 5                                           |   |   | 10     |  |  |  |
| Colour (True)                   | 2     | TCU   |                                             |   |   | <2     |  |  |  |
| Conductivity @ 25°C             | 5     | µS/cm |                                             |   |   | 1270   |  |  |  |
| Dissolved Organic Carbon        | 0.5   | mg/L  | 5                                           |   |   | 1.8    |  |  |  |
| Fluoride                        | 0.1   | mg/L  | 1.5                                         |   |   | 0.20   |  |  |  |
| Hardness as CaCO3 (Calculation) | 1     | mg/L  | 80-100                                      |   |   | 477    |  |  |  |
| pH @ 25°C                       | 1     |       | 6.5-8.5                                     |   |   | 7.39   |  |  |  |
| Phenols-4AAP                    | 0.001 | mg/L  |                                             |   |   | <0.001 |  |  |  |
| Sulphide (S2-)                  | 0.01  | mg/L  | 0.05                                        |   |   | <0.01  |  |  |  |
| Tannin and Lignin               | 0.1   | mg/L  |                                             |   |   | <0.1   |  |  |  |
| TDS (Estimated)^                | 5     | mg/L  | 500                                         |   |   | 826    |  |  |  |
| Turbidity                       | 0.1   | NTU   | 5                                           |   |   | 1.2    |  |  |  |

## OFFICIAL CERTIFICATE OF ANALYSIS - RESULTS

Client : Paterson Group  
Project : PH5222

Reception Date: 2026-07-10

|                                |        |      |          |   |              |         |  |  |  |
|--------------------------------|--------|------|----------|---|--------------|---------|--|--|--|
| Eurofins Sample No :           |        |      |          |   | 9869323      |         |  |  |  |
| Matrix :                       |        |      |          |   | Groundwater  |         |  |  |  |
| Sampling Date :                |        |      |          |   | 2026-07-09   |         |  |  |  |
| Client Sample Identification : |        |      |          |   | 6 Poplarwood |         |  |  |  |
| Metals                         |        |      | Criteria |   |              |         |  |  |  |
|                                | RL     | Unit | A        | B | C            |         |  |  |  |
| Metals Scan (Water, ICP/MS)    |        |      |          |   |              |         |  |  |  |
| Aluminum                       | 0.01   | mg/L | 0.1      |   |              | <0.01   |  |  |  |
| Antimony                       | 0.0005 | mg/L | 0.006    |   |              | <0.0005 |  |  |  |
| Arsenic                        | 0.001  | mg/L | 0.01     |   |              | <0.001  |  |  |  |
| Barium                         | 0.001  | mg/L | 1        |   |              | 0.244   |  |  |  |
| Beryllium                      | 0.0005 | mg/L |          |   |              | <0.0005 |  |  |  |
| Boron                          | 0.01   | mg/L | 5        |   |              | 0.10    |  |  |  |
| Cadmium                        | 0.0001 | mg/L | 0.005    |   |              | <0.0001 |  |  |  |
| Chromium                       | 0.001  | mg/L | 0.05     |   |              | <0.001  |  |  |  |
| Cobalt                         | 0.0002 | mg/L |          |   |              | <0.0002 |  |  |  |
| Copper                         | 0.001  | mg/L | 1        |   |              | <0.001  |  |  |  |
| Iron                           | 0.03   | mg/L | 0.3      |   |              | 0.48    |  |  |  |
| Lead                           | 0.001  | mg/L | 0.01     |   |              | <0.001  |  |  |  |
| Manganese                      | 0.01   | mg/L | 0.05     |   |              | 0.04    |  |  |  |
| Mercury                        | 0.0001 | mg/L | 0.001    |   |              | <0.0001 |  |  |  |
| Molybdenum                     | 0.005  | mg/L |          |   |              | <0.005  |  |  |  |
| Nickel                         | 0.005  | mg/L |          |   |              | <0.005  |  |  |  |
| Selenium                       | 0.001  | mg/L | 0.05     |   |              | <0.001  |  |  |  |
| Silver                         | 0.0001 | mg/L |          |   |              | <0.0001 |  |  |  |
| Strontium                      | 0.001  | mg/L |          |   |              | 8.81    |  |  |  |
| Thallium                       | 0.0001 | mg/L |          |   |              | <0.0001 |  |  |  |
| Uranium                        | 0.001  | mg/L | 0.02     |   |              | <0.001  |  |  |  |
| Vanadium                       | 0.001  | mg/L |          |   |              | <0.001  |  |  |  |
| Zinc                           | 0.01   | mg/L | 5        |   |              | <0.01   |  |  |  |
| Metals Scan (Water, ICP/OES)   |        |      |          |   |              |         |  |  |  |
| Calcium                        | 1      | mg/L |          |   |              | 135     |  |  |  |
| Magnesium                      | 1      | mg/L |          |   |              | 34      |  |  |  |
| Potassium                      | 1      | mg/L |          |   |              | 4       |  |  |  |
| Sodium                         | 1      | mg/L | 200      |   |              | 88      |  |  |  |

|                       |    |           | Eurofins Sample No : <b>9869323</b>         |   |   |   |  |  |  |
|-----------------------|----|-----------|---------------------------------------------|---|---|---|--|--|--|
|                       |    |           | Matrix : Groundwater                        |   |   |   |  |  |  |
|                       |    |           | Sampling Date : 2026-07-09                  |   |   |   |  |  |  |
|                       |    |           | Client Sample Identification : 6 Poplarwood |   |   |   |  |  |  |
| Microbiology          | RL | Unit      | Criteria                                    |   |   |   |  |  |  |
|                       |    |           | A                                           | B | C |   |  |  |  |
| Escherichia coli (DC) | 0  | CFU/100mL | 0                                           |   |   | 0 |  |  |  |
| Total Coliforms (DC)  | 0  | CFU/100mL | 0                                           |   |   | 0 |  |  |  |

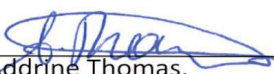
## OFFICIAL CERTIFICATE OF ANALYSIS - RESULTS

Client : Paterson Group  
Project : PH5222

Reception Date: 2026-07-10

|                              |      |      | Eurofins Sample No : <b>9869323</b>         |   |   |       |  |  |  |
|------------------------------|------|------|---------------------------------------------|---|---|-------|--|--|--|
|                              |      |      | Matrix : Groundwater                        |   |   |       |  |  |  |
|                              |      |      | Sampling Date : 2026-07-09                  |   |   |       |  |  |  |
|                              |      |      | Client Sample Identification : 6 Poplarwood |   |   |       |  |  |  |
| Nutrients                    | RL   | Unit | Criteria                                    |   |   |       |  |  |  |
|                              |      |      | A                                           | B | C |       |  |  |  |
| Ammonia (Total, as Nitrogen) | 0.02 | mg/L |                                             |   |   | 0.020 |  |  |  |
| Nitrate (as Nitrogen)        | 0.1  | mg/L | 10.0                                        |   |   | <0.5  |  |  |  |
| Nitrite (as Nitrogen)        | 0.1  | mg/L | 1.0                                         |   |   | <0.5  |  |  |  |
| Total Kjeldahl Nitrogen      | 0.1  | mg/L |                                             |   |   | 0.177 |  |  |  |

Approved by :

  
Addrine Thomas,  
Chemistry Manager, Ottawa

Approved by :

  
Emma-Dawn Ferguson, M.Sc.  
Environmental Chemist

## OFFICIAL CERTIFICATE OF ANALYSIS - QUALITY CONTROL

Client : Paterson Group

Project : PH5222

Reception Date: 2026-07-10

| Parameter                                                                                        | Unit      | RL   | Blank  | QC         |         | Matrix Spike |         | Duplicate                                          |         |
|--------------------------------------------------------------------------------------------------|-----------|------|--------|------------|---------|--------------|---------|----------------------------------------------------|---------|
|                                                                                                  |           |      |        | Recovery % | Range % | Recovery %   | Range % | RPD %                                              | Range % |
| Ammonia, Total (Water, Colorimetry)                                                              |           |      |        |            |         |              |         |                                                    |         |
| Method : Ammonia (Water, Colorimetry). Internal method: OTT-I-NUT-WI46201.                       |           |      |        |            |         |              |         |                                                    |         |
| Ammonia (Total, as Nitrogen)                                                                     | mg/L      | 0.02 | <0.020 | 97         | 80-120  | 103          | 80-120  | -                                                  | 0-20    |
| Associated Samples : 9869323                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-14<br>Analysis Date: 2026-07-14 |         |
| Chloride (Water, IC)                                                                             |           |      |        |            |         |              |         |                                                    |         |
| Method : Anions (Water, Ion Chromatography). Internal method: OTT-I-IC-WI45985.                  |           |      |        |            |         |              |         |                                                    |         |
| Chloride                                                                                         | mg/L      | 0.5  | <0.5   | 104        | 80-120  | 108          | 80-120  | 1                                                  | 0-20    |
| Associated Samples : 9869323                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-14<br>Analysis Date: 2026-07-16 |         |
| Colour, Apparent (Water, Spectrophotometry)                                                      |           |      |        |            |         |              |         |                                                    |         |
| Method : Colour (Water, Spectrophotometric). Internal method: OTT-I-SPEC-WI45980.                |           |      |        |            |         |              |         |                                                    |         |
| Colour (Apparent)                                                                                | TCU       | 2    | <2     | 102        | 78-116  |              |         | 4                                                  | 0-40    |
| Associated Samples : 9869323                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-14<br>Analysis Date: 2026-07-15 |         |
| Colour, True (Water, Spectrophotometry)                                                          |           |      |        |            |         |              |         |                                                    |         |
| Method : Colour (Water, Spectrophotometric). Internal method: OTT-I-SPEC-WI45980.                |           |      |        |            |         |              |         |                                                    |         |
| Colour (True)                                                                                    | TCU       | 2    | <2     | 102        | 78-116  |              |         | -                                                  | 0-40    |
| Associated Samples : 9869323                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-14<br>Analysis Date: 2026-07-15 |         |
| DOC (Water, IR)                                                                                  |           |      |        |            |         |              |         |                                                    |         |
| Method : Organic carbon (water, IR, combustion). Internal method: OTT-I-DEM-WI46148.             |           |      |        |            |         |              |         |                                                    |         |
| Dissolved Organic Carbon                                                                         | mg/L      | 0.5  | <0.5   | 98         | 88-112  | 96           | 85-115  | -                                                  | 0-15    |
| Associated Samples : 9869323                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-13<br>Analysis Date: 2026-07-14 |         |
| Escherichia coli (DC Plate)                                                                      |           |      |        |            |         |              |         |                                                    |         |
| Method : Total Coliforms and E.Coli by MF (Water, DC plate). Internal method: OTT-M-BAC-WI45296. |           |      |        |            |         |              |         |                                                    |         |
| Escherichia coli (DC)                                                                            | CFU/100mL | 0    | 0      |            |         |              |         | -                                                  | 0-30    |
| Associated Samples : 9869323                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-10<br>Analysis Date: 2026-07-11 |         |
| Fluoride (Water, Auto/ISE)                                                                       |           |      |        |            |         |              |         |                                                    |         |
| Method : Fluoride by autotitrator, ion selective electrode. Internal method: OTT-I-AT-WI45398.   |           |      |        |            |         |              |         |                                                    |         |
| Fluoride                                                                                         | mg/L      | 0.1  | <0.10  | 104        | 90-110  | 102          | 80-120  | 0                                                  | 0-20    |
| Associated Samples : 9869323                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-10<br>Analysis Date: 2026-07-13 |         |

## OFFICIAL CERTIFICATE OF ANALYSIS - QUALITY CONTROL

Client : Paterson Group  
Project : PH5222

Reception Date: 2026-07-10

| Parameter                                                                       | Unit | RL     | Blank   | QC         |         | Matrix Spike |         | Duplicate                                          |         |
|---------------------------------------------------------------------------------|------|--------|---------|------------|---------|--------------|---------|----------------------------------------------------|---------|
|                                                                                 |      |        |         | Recovery % | Range % | Recovery %   | Range % | RPD %                                              | Range % |
| Metals Scan (Water, ICP/MS)                                                     |      |        |         |            |         |              |         |                                                    |         |
| Method : Metals (Water, ICP/MS). Internal method: AMMTFQE1.                     |      |        |         |            |         |              |         |                                                    |         |
| Aluminum                                                                        | mg/L | 0.01   | <0.01   | 100        | 80-120  | 112          | 70-130  | -                                                  | 0-20    |
| Antimony                                                                        | mg/L | 0.0005 | <0.0005 | 83         | 80-120  | 110          | 70-130  | -                                                  | 0-20    |
| Arsenic                                                                         | mg/L | 0.001  | <0.001  | 99         | 80-120  | 102          | 70-130  | -                                                  | 0-20    |
| Barium                                                                          | mg/L | 0.001  | <0.001  | 100        | 80-120  | 103          | 70-130  | 0                                                  | 0-20    |
| Beryllium                                                                       | mg/L | 0.0005 | <0.0005 | 108        | 80-120  | 111          | 70-130  | -                                                  | 0-20    |
| Boron                                                                           | mg/L | 0.01   | <0.01   | 100        | 80-120  | 104          | 70-130  | -                                                  | 0-20    |
| Cadmium                                                                         | mg/L | 0.0001 | <0.0001 | 101        | 80-120  | 103          | 70-130  | -                                                  | 0-20    |
| Chromium                                                                        | mg/L | 0.001  | <0.001  | 110        | 80-120  | 101          | 70-130  | -                                                  | 0-20    |
| Cobalt                                                                          | mg/L | 0.0002 | <0.0002 | 104        | 80-120  | 94           | 70-130  | -                                                  | 0-20    |
| Copper                                                                          | mg/L | 0.001  | <0.001  | 110        | 80-120  | 92           | 70-130  | -                                                  | 0-20    |
| Iron                                                                            | mg/L | 0.03   | <0.03   | 100        | 80-120  | 96           | 70-130  | -                                                  | 0-20    |
| Lead                                                                            | mg/L | 0.001  | <0.001  | 100        | 80-120  | 90           | 70-130  | -                                                  | 0-20    |
| Manganese                                                                       | mg/L | 0.01   | <0.01   | 100        | 80-120  | 99           | 70-130  | -                                                  | 0-20    |
| Mercury                                                                         | mg/L | 0.0001 | <0.0001 | 91         | 80-120  | 80           | 70-130  | -                                                  | 0-20    |
| Molybdenum                                                                      | mg/L | 0.005  | <0.005  | 100        | 80-120  | 97           | 70-130  | -                                                  | 0-20    |
| Nickel                                                                          | mg/L | 0.005  | <0.005  | 110        | 80-120  | 96           | 70-130  | -                                                  | 0-20    |
| Selenium                                                                        | mg/L | 0.001  | <0.001  | 99         | 80-120  | 103          | 70-130  | -                                                  | 0-20    |
| Silver                                                                          | mg/L | 0.0001 | <0.0001 | 107        | 80-120  | 89           | 70-130  | -                                                  | 0-20    |
| Strontium                                                                       | mg/L | 0.001  | <0.001  | 100        | 80-120  | 100          | 70-130  | 1                                                  | 0-20    |
| Thallium                                                                        | mg/L | 0.0001 | <0.0001 | 101        | 80-120  | 90           | 70-130  | -                                                  | 0-20    |
| Uranium                                                                         | mg/L | 0.001  | <0.001  | 100        | 80-120  | 90           | 70-130  | -                                                  | 0-20    |
| Vanadium                                                                        | mg/L | 0.001  | <0.001  | 100        | 80-120  | 103          | 70-130  | -                                                  | 0-20    |
| Zinc                                                                            | mg/L | 0.01   | <0.01   | 110        | 80-120  | 100          | 70-130  | -                                                  | 0-20    |
| Associated Samples : 9869323                                                    |      |        |         |            |         |              |         | Prep Date: 2026-07-13<br>Analysis Date: 2026-07-13 |         |
| Metals Scan (Water, ICP/OES)                                                    |      |        |         |            |         |              |         |                                                    |         |
| Method : Metals (Water, ICP/OES). Internal method: OTT-I-MET-WI48491.           |      |        |         |            |         |              |         |                                                    |         |
| Calcium                                                                         | mg/L | 1      | <1      | 100        | 70-130  | 97           | 70-130  | 0                                                  | 0-20    |
| Magnesium                                                                       | mg/L | 1      | <1      | 101        | 70-130  | 106          | 70-130  | 0                                                  | 0-20    |
| Potassium                                                                       | mg/L | 1      | <1      | 99         | 70-130  | 103          | 70-130  | -                                                  | 0-20    |
| Sodium                                                                          | mg/L | 1      | <1      | 101        | 70-130  | 102          | 70-130  | 0                                                  | 0-20    |
| Associated Samples : 9869323                                                    |      |        |         |            |         |              |         | Prep Date: 2026-07-15<br>Analysis Date: 2026-07-10 |         |
| Nitrate (Water, IC)                                                             |      |        |         |            |         |              |         |                                                    |         |
| Method : Anions (Water, Ion Chromatography). Internal method: OTT-I-IC-WI45985. |      |        |         |            |         |              |         |                                                    |         |
| Nitrate (as Nitrogen)                                                           | mg/L | 0.1    | <0.1    | 106        | 80-120  | 101          | 80-120  | -                                                  | 0-20    |
| Associated Samples : 9869323                                                    |      |        |         |            |         |              |         | Prep Date: 2026-07-14<br>Analysis Date: 2026-07-16 |         |
| Nitrite (Water, IC)                                                             |      |        |         |            |         |              |         |                                                    |         |
| Method : Anions (Water, Ion Chromatography). Internal method: OTT-I-IC-WI45985. |      |        |         |            |         |              |         |                                                    |         |
| Nitrite (as Nitrogen)                                                           | mg/L | 0.1    | <0.1    | 105        | 80-120  | 109          | 80-120  | -                                                  | 0-20    |
| Associated Samples : 9869323                                                    |      |        |         |            |         |              |         | Prep Date: 2026-07-14<br>Analysis Date: 2026-07-16 |         |
| Phenols (Water, Colorimetry)                                                    |      |        |         |            |         |              |         |                                                    |         |
| Method : Phenols (Water, Colorimetry). Internal method: OTT-I-4AAP-WI46150.     |      |        |         |            |         |              |         |                                                    |         |
| Phenols-4AAP                                                                    | mg/L | 0.001  | <0.001  | 101        | 75-125  | 78           | 70-130  | 4                                                  | 0-20    |
| Associated Samples : 9869323                                                    |      |        |         |            |         |              |         | Prep Date: 2026-07-13<br>Analysis Date: 2026-07-13 |         |

## OFFICIAL CERTIFICATE OF ANALYSIS - QUALITY CONTROL

Client : Paterson Group

Project : PH5222

Reception Date: 2026-07-10

| Parameter                                                                                        | Unit      | RL   | Blank  | QC         |         | Matrix Spike |         | Duplicate                                          |         |
|--------------------------------------------------------------------------------------------------|-----------|------|--------|------------|---------|--------------|---------|----------------------------------------------------|---------|
|                                                                                                  |           |      |        | Recovery % | Range % | Recovery %   | Range % | RPD %                                              | Range % |
| Sulphate (Water, IC)                                                                             |           |      |        |            |         |              |         |                                                    |         |
| Method : Anions (Water, Ion Chromatography). Internal method: OTT-I-IC-WI45985.                  |           |      |        |            |         |              |         |                                                    |         |
| Sulphate                                                                                         | mg/L      | 1    | <1     | 110        | 90-110  | 106          | 80-120  | 2                                                  | 0-20    |
| Associated Samples : 9869323                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-14<br>Analysis Date: 2026-07-16 |         |
| Sulphide (Water, Colorimetry)                                                                    |           |      |        |            |         |              |         |                                                    |         |
| Method : Sulphide, S2- (Water, Colorimetry). Internal method: OTT-I-SPEC-WI45931.                |           |      |        |            |         |              |         |                                                    |         |
| Sulphide (S2-)                                                                                   | mg/L      | 0.01 | <0.01  | 63         | 48-131  |              |         | -                                                  | 0-20    |
| Associated Samples : 9869323                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-15<br>Analysis Date: 2026-07-16 |         |
| Tannin and Lignin (Water, Spec)                                                                  |           |      |        |            |         |              |         |                                                    |         |
| Method : Tannin and Lignin (Water, Spec), Internal method: OTT-I-SPEC-WI57693.                   |           |      |        |            |         |              |         |                                                    |         |
| Tannin and Lignin                                                                                | mg/L      | 0.1  | <0.1   | 100        | 80-120  |              |         | -                                                  | 0-20    |
| Associated Samples : 9869323                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-14<br>Analysis Date: 2026-07-14 |         |
| Total Coliforms (DC Plate)                                                                       |           |      |        |            |         |              |         |                                                    |         |
| Method : Total Coliforms and E.Coli by MF (Water, DC plate). Internal method: OTT-M-BAC-WI45296. |           |      |        |            |         |              |         |                                                    |         |
| Total Coliforms (DC)                                                                             | CFU/100mL | 0    | 0      |            |         |              |         | -                                                  | 0-30    |
| Associated Samples : 9869323                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-10<br>Analysis Date: 2026-07-11 |         |
| Total Kjeldahl Nitrogen (Water, Colorimetry)                                                     |           |      |        |            |         |              |         |                                                    |         |
| Method : TKN (Water, colorimetry). Internal method: OTT-I-NUT-WI46201.                           |           |      |        |            |         |              |         |                                                    |         |
| Total Kjeldahl Nitrogen                                                                          | mg/L      | 0.1  | <0.100 | 101        | 70-130  | 106          | 70-130  | -                                                  | 0-20    |
| Associated Samples : 9869323                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-13<br>Analysis Date: 2026-07-14 |         |
| Turbidity (Water, Turbidimeter)                                                                  |           |      |        |            |         |              |         |                                                    |         |
| Method : Turbidity (Water, Turbidimeter). Internal method: OTT-I-TUR-WI46288.                    |           |      |        |            |         |              |         |                                                    |         |
| Turbidity                                                                                        | NTU       | 0.1  | <0.1   | 95         | 80-120  |              |         | -                                                  | 0-30    |
| Associated Samples : 9869323                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-10<br>Analysis Date: 2026-07-10 |         |

Where RPD % is reported as "-" the calculation is not available because one or both of the duplicates is within 5 times the RL.

[illegible]

**OFFICIAL CERTIFICATE OF ANALYSIS : 4758973**
**WORK REQUEST : 100449560**
**Report Date : 2026-07-16**
**Paterson Group**

9 Auriga Drive  
Ottawa, Ontario  
K2J 5Z9  
Attention : Zavian Buchanan

Reception Date : 2026-07-10

Project : PH5222

Sampler : NA

PO Number : 66411

Temperature : 10 °C

| Analysis                                     | Quantity | External Method                        |
|----------------------------------------------|----------|----------------------------------------|
| Alkalinity (Water, Automated)                | 1        | Modified from SM 2320 B                |
| Ammonia, Total (Water, Colorimetry)          | 1        | Modified from EPA 350.1                |
| Chloride (Water, IC)                         | 1        | Modified from SM 4110 B and C          |
| Colour, Apparent (Water, Spectrophotometry)  | 1        | Modified from SM 2120 C                |
| Colour, True (Water, Spectrophotometry)      | 1        | Modified from SM 2120 C                |
| Conductivity (Water, Automated)              | 1        | Modified from SM 2510 B                |
| DOC (Water, IR)                              | 1        | Modified from SM 5310 B                |
| Escherichia coli (DC Plate)                  | 1        | Modified from MECP E3407               |
| Fluoride (Water, Auto/ISE)                   | 1        | Modified from SM 4500-F A and 4500-F C |
| Hardness (Water, Calculation Only)           | 1        | SM 2340 B                              |
| Ion Balance (Water, Calculation)             | 1        | Modified from SM1030 E                 |
| Metals Scan (Water, ICP/MS)                  | 1        | Modified from EPA 200.8                |
| Metals Scan (Water, ICP/OES)                 | 1        | Modified from SM 3120 B                |
| Nitrate (Water, IC)                          | 1        | Modified from SM 4110 B and C          |
| Nitrite (Water, IC)                          | 1        | Modified from SM 4110 B and C          |
| pH (25°C) (Water, Automated)                 | 1        | Modified from SM 4500-H+ B             |
| Phenols (Water, Colorimetry)                 | 1        | Modified from EPA 420.2                |
| Sulphate (Water, IC)                         | 1        | Modified from SM 4110 B and C          |
| Sulphide (Water, Colorimetry)                | 1        | Modified from SM 4500-S2 D             |
| Tannin and Lignin (Water, Spec)              | 1        | Modified from SM 5550 B                |
| TDS (Estimated)                              | 1        | Modified from SM 2510 A                |
| Total Coliforms (DC Plate)                   | 1        | Modified from MECP E3407               |
| Total Kjeldahl Nitrogen (Water, Colorimetry) | 1        | Modified from EPA 351.2                |
| Turbidity (Water, Turbidimeter)              | 1        | Modified from SM 2130 B                |

**Criteria :**
**A :** Ontario Regulation 169/03 (Non-Regulated Drinking Water)

**Sample status upon receipt :**

9869232

**Compliant**
**Certificate Comments :**

9869232

**N-NO2 and N-NO3 MRL increased due to matrix interference.**
**Notes :**

- All analysis is completed at Eurofins Environment Testing Canada Inc. (Ottawa, Ontario) unless otherwise stated.
- Eurofins Environment Testing Canada Inc. is accredited by CALA, Canadian Association for Laboratory Accreditation to ISO/IEC 17025 for tests which appear on the scope of accreditation. The scope is available at <https://directory.cala.ca/>
- Please note: Field data, where presented on the report, has been provided by the client and is presented for informational purposes only. Guideline or regulatory limits listed on this report are provided for ease of use (informational purposes) only. Eurofins recommends consulting the official guideline or regulation as required. Unless otherwise stated, measurement uncertainty is not taken into account when determining guideline or regulatory exceedances.

**Legend :**

RL : Reporting limit

QC : Reference material (QC)

N/A : Not applicable

1 : Results in annex

\* : Analysis conducted by external subcontracting

^ : Analysis not accredited

**OFFICIAL CERTIFICATE OF ANALYSIS - EXCEEDENCE SUMMARY**

Client : Paterson Group

Project : PH5222

Reception Date : 2026-07-10

| Eurofins<br>Sample No              | Client Sample<br>Identification | Analyte                         | Result | Units | Exceeded Criteria |   |   |
|------------------------------------|---------------------------------|---------------------------------|--------|-------|-------------------|---|---|
|                                    |                                 |                                 |        |       | A                 | B | C |
| Hardness (Water, Calculation Only) |                                 |                                 |        |       |                   |   |   |
| 9869232                            | 7 Poplarwood                    | Hardness as CaCO3 (Calculation) | 375    | mg/L  | 80-100            |   |   |
| TDS (Estimated)                    |                                 |                                 |        |       |                   |   |   |
| 9869232                            | 7 Poplarwood                    | TDS (Estimated)^                | 640    | mg/L  | 500               |   |   |

## OFFICIAL CERTIFICATE OF ANALYSIS - RESULTS

Client : Paterson Group  
Project : PH5222

Reception Date: 2026-07-10

|                                             |       |       | Eurofins Sample No : <b>9869232</b>         |   |   |        |  |  |  |
|---------------------------------------------|-------|-------|---------------------------------------------|---|---|--------|--|--|--|
|                                             |       |       | Matrix : Groundwater                        |   |   |        |  |  |  |
|                                             |       |       | Sampling Date : 2026-07-09                  |   |   |        |  |  |  |
|                                             |       |       | Client Sample Identification : 7 Poplarwood |   |   |        |  |  |  |
| Anions                                      | RL    | Unit  | Criteria                                    |   |   |        |  |  |  |
|                                             |       |       | A                                           | B | C |        |  |  |  |
| Chloride                                    | 0.5   | mg/L  | 250                                         |   |   | 110    |  |  |  |
| Sulphate                                    | 1     | mg/L  | 500                                         |   |   | 62     |  |  |  |
|                                             |       |       |                                             |   |   |        |  |  |  |
|                                             |       |       | Eurofins Sample No : <b>9869232</b>         |   |   |        |  |  |  |
|                                             |       |       | Matrix : Groundwater                        |   |   |        |  |  |  |
|                                             |       |       | Sampling Date : 2026-07-09                  |   |   |        |  |  |  |
|                                             |       |       | Client Sample Identification : 7 Poplarwood |   |   |        |  |  |  |
| Calculations                                | RL    | Unit  |                                             |   |   |        |  |  |  |
| Ion Balance (Calculation)^                  | 0.1   |       | 1.02                                        |   |   |        |  |  |  |
|                                             |       |       |                                             |   |   |        |  |  |  |
|                                             |       |       | Eurofins Sample No : <b>9869232</b>         |   |   |        |  |  |  |
|                                             |       |       | Matrix : Groundwater                        |   |   |        |  |  |  |
|                                             |       |       | Sampling Date : 2026-07-09                  |   |   |        |  |  |  |
|                                             |       |       | Client Sample Identification : 7 Poplarwood |   |   |        |  |  |  |
| General Chemistry                           | RL    | Unit  | Criteria                                    |   |   |        |  |  |  |
|                                             |       |       | A                                           | B | C |        |  |  |  |
| Alkalinity (as CaCO <sub>3</sub> )          | 5     | mg/L  | 500                                         |   |   | 307    |  |  |  |
| Colour (Apparent)                           | 2     | TCU   | 5                                           |   |   | <2     |  |  |  |
| Colour (True)                               | 2     | TCU   |                                             |   |   | <2     |  |  |  |
| Conductivity @ 25°C                         | 5     | µS/cm |                                             |   |   | 985    |  |  |  |
| Dissolved Organic Carbon                    | 0.5   | mg/L  | 5                                           |   |   | 2.3    |  |  |  |
| Fluoride                                    | 0.1   | mg/L  | 1.5                                         |   |   | 0.10   |  |  |  |
| Hardness as CaCO <sub>3</sub> (Calculation) | 1     | mg/L  | 80-100                                      |   |   | 375    |  |  |  |
| pH @ 25°C                                   | 1     |       | 6.5-8.5                                     |   |   | 7.43   |  |  |  |
| Phenols-4AAP                                | 0.001 | mg/L  |                                             |   |   | <0.001 |  |  |  |
| Sulphide (S <sub>2</sub> -)                 | 0.01  | mg/L  | 0.05                                        |   |   | <0.01  |  |  |  |
| Tannin and Lignin                           | 0.1   | mg/L  |                                             |   |   | <0.1   |  |  |  |
| TDS (Estimated)^                            | 5     | mg/L  | 500                                         |   |   | 640    |  |  |  |
| Turbidity                                   | 0.1   | NTU   | 5                                           |   |   | 0.4    |  |  |  |

## OFFICIAL CERTIFICATE OF ANALYSIS - RESULTS

Client : Paterson Group  
Project : PH5222

Reception Date: 2026-07-10

|                                |        |           |          |   |   |              |  |  |  |  |
|--------------------------------|--------|-----------|----------|---|---|--------------|--|--|--|--|
| Eurofins Sample No :           |        |           |          |   |   | 9869232      |  |  |  |  |
| Matrix :                       |        |           |          |   |   | Groundwater  |  |  |  |  |
| Sampling Date :                |        |           |          |   |   | 2026-07-09   |  |  |  |  |
| Client Sample Identification : |        |           |          |   |   | 7 Poplarwood |  |  |  |  |
| Metals                         | RL     | Unit      | Criteria |   |   |              |  |  |  |  |
|                                |        |           | A        | B | C |              |  |  |  |  |
| Metals Scan (Water, ICP/MS)    |        |           |          |   |   |              |  |  |  |  |
| Aluminum                       | 0.01   | mg/L      | 0.1      |   |   | <0.01        |  |  |  |  |
| Antimony                       | 0.0005 | mg/L      | 0.006    |   |   | <0.0005      |  |  |  |  |
| Arsenic                        | 0.001  | mg/L      | 0.01     |   |   | <0.001       |  |  |  |  |
| Barium                         | 0.001  | mg/L      | 1        |   |   | 0.244        |  |  |  |  |
| Beryllium                      | 0.0005 | mg/L      |          |   |   | <0.0005      |  |  |  |  |
| Boron                          | 0.01   | mg/L      | 5        |   |   | 0.06         |  |  |  |  |
| Cadmium                        | 0.0001 | mg/L      | 0.005    |   |   | <0.0001      |  |  |  |  |
| Chromium                       | 0.001  | mg/L      | 0.05     |   |   | <0.001       |  |  |  |  |
| Cobalt                         | 0.0002 | mg/L      |          |   |   | 0.0005       |  |  |  |  |
| Copper                         | 0.001  | mg/L      | 1        |   |   | 0.012        |  |  |  |  |
| Iron                           | 0.03   | mg/L      | 0.3      |   |   | 0.04         |  |  |  |  |
| Lead                           | 0.001  | mg/L      | 0.01     |   |   | <0.001       |  |  |  |  |
| Manganese                      | 0.01   | mg/L      | 0.05     |   |   | <0.01        |  |  |  |  |
| Mercury                        | 0.0001 | mg/L      | 0.001    |   |   | <0.0001      |  |  |  |  |
| Molybdenum                     | 0.005  | mg/L      |          |   |   | <0.005       |  |  |  |  |
| Nickel                         | 0.005  | mg/L      |          |   |   | 0.014        |  |  |  |  |
| Selenium                       | 0.001  | mg/L      | 0.05     |   |   | <0.001       |  |  |  |  |
| Silver                         | 0.0001 | mg/L      |          |   |   | <0.0001      |  |  |  |  |
| Strontium                      | 0.001  | mg/L      |          |   |   | 6.17         |  |  |  |  |
| Thallium                       | 0.0001 | mg/L      |          |   |   | <0.0001      |  |  |  |  |
| Uranium                        | 0.001  | mg/L      | 0.02     |   |   | <0.001       |  |  |  |  |
| Vanadium                       | 0.001  | mg/L      |          |   |   | <0.001       |  |  |  |  |
| Zinc                           | 0.01   | mg/L      | 5        |   |   | 0.05         |  |  |  |  |
| Metals Scan (Water, ICP/OES)   |        |           |          |   |   |              |  |  |  |  |
| Calcium                        | 1      | mg/L      |          |   |   | 114          |  |  |  |  |
| Magnesium                      | 1      | mg/L      |          |   |   | 22           |  |  |  |  |
| Potassium                      | 1      | mg/L      |          |   |   | 3            |  |  |  |  |
| Sodium                         | 1      | mg/L      | 200      |   |   | 72           |  |  |  |  |
| Eurofins Sample No :           |        |           |          |   |   | 9869232      |  |  |  |  |
| Matrix :                       |        |           |          |   |   | Groundwater  |  |  |  |  |
| Sampling Date :                |        |           |          |   |   | 2026-07-09   |  |  |  |  |
| Client Sample Identification : |        |           |          |   |   | 7 Poplarwood |  |  |  |  |
| Microbiology                   | RL     | Unit      | Criteria |   |   |              |  |  |  |  |
|                                |        |           | A        | B | C |              |  |  |  |  |
| Escherichia coli (DC)          | 0      | CFU/100mL | 0        |   |   | 0            |  |  |  |  |
| Total Coliforms (DC)           | 0      | CFU/100mL | 0        |   |   | 0            |  |  |  |  |

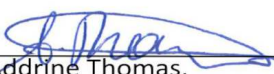
**OFFICIAL CERTIFICATE OF ANALYSIS - RESULTS**

Client : Paterson Group  
Project : PH5222

Reception Date: 2026-07-10

|                              |      |      | Eurofins Sample No : <b>9869232</b>         |   |   |        |  |  |  |
|------------------------------|------|------|---------------------------------------------|---|---|--------|--|--|--|
|                              |      |      | Matrix : Groundwater                        |   |   |        |  |  |  |
|                              |      |      | Sampling Date : 2026-07-09                  |   |   |        |  |  |  |
|                              |      |      | Client Sample Identification : 7 Poplarwood |   |   |        |  |  |  |
| Nutrients                    | RL   | Unit | Criteria                                    |   |   |        |  |  |  |
|                              |      |      | A                                           | B | C |        |  |  |  |
| Ammonia (Total, as Nitrogen) | 0.02 | mg/L |                                             |   |   | <0.020 |  |  |  |
| Nitrate (as Nitrogen)        | 0.1  | mg/L | 10.0                                        |   |   | <0.5   |  |  |  |
| Nitrite (as Nitrogen)        | 0.1  | mg/L | 1.0                                         |   |   | <0.5   |  |  |  |
| Total Kjeldahl Nitrogen      | 0.1  | mg/L |                                             |   |   | 0.185  |  |  |  |

Approved by :

  
Addrine Thomas,  
Chemistry Manager, Ottawa

Approved by :

  
Emma-Dawn Ferguson, M.Sc.  
Environmental Chemist

## OFFICIAL CERTIFICATE OF ANALYSIS - QUALITY CONTROL

Client : Paterson Group

Project : PH5222

Reception Date: 2026-07-10

| Parameter                                                                                        | Unit      | RL   | Blank  | QC         |         | Matrix Spike |         | Duplicate                                          |         |
|--------------------------------------------------------------------------------------------------|-----------|------|--------|------------|---------|--------------|---------|----------------------------------------------------|---------|
|                                                                                                  |           |      |        | Recovery % | Range % | Recovery %   | Range % | RPD %                                              | Range % |
| Ammonia, Total (Water, Colorimetry)                                                              |           |      |        |            |         |              |         |                                                    |         |
| Method : Ammonia (Water, Colorimetry). Internal method: OTT-I-NUT-WI46201.                       |           |      |        |            |         |              |         |                                                    |         |
| Ammonia (Total, as Nitrogen)                                                                     | mg/L      | 0.02 | <0.020 | 97         | 80-120  | 103          | 80-120  | -                                                  | 0-20    |
| Associated Samples : 9869232                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-14<br>Analysis Date: 2026-07-14 |         |
| Chloride (Water, IC)                                                                             |           |      |        |            |         |              |         |                                                    |         |
| Method : Anions (Water, Ion Chromatography). Internal method: OTT-I-IC-WI45985.                  |           |      |        |            |         |              |         |                                                    |         |
| Chloride                                                                                         | mg/L      | 0.5  | <0.5   | 95         | 80-120  | 109          | 80-120  |                                                    |         |
| Associated Samples : 9869232                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-13<br>Analysis Date: 2026-07-14 |         |
| Colour, Apparent (Water, Spectrophotometry)                                                      |           |      |        |            |         |              |         |                                                    |         |
| Method : Colour (Water, Spectrophotometric). Internal method: OTT-I-SPEC-WI45980.                |           |      |        |            |         |              |         |                                                    |         |
| Colour (Apparent)                                                                                | TCU       | 2    | <2     | 102        | 78-116  |              |         | 4                                                  | 0-40    |
| Associated Samples : 9869232                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-14<br>Analysis Date: 2026-07-15 |         |
| Colour, True (Water, Spectrophotometry)                                                          |           |      |        |            |         |              |         |                                                    |         |
| Method : Colour (Water, Spectrophotometric). Internal method: OTT-I-SPEC-WI45980.                |           |      |        |            |         |              |         |                                                    |         |
| Colour (True)                                                                                    | TCU       | 2    | <2     | 102        | 78-116  |              |         | -                                                  | 0-40    |
| Associated Samples : 9869232                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-14<br>Analysis Date: 2026-07-15 |         |
| DOC (Water, IR)                                                                                  |           |      |        |            |         |              |         |                                                    |         |
| Method : Organic carbon (water, IR, combustion). Internal method: OTT-I-DEM-WI46148.             |           |      |        |            |         |              |         |                                                    |         |
| Dissolved Organic Carbon                                                                         | mg/L      | 0.5  | <0.5   | 98         | 88-112  | 96           | 85-115  | -                                                  | 0-15    |
| Associated Samples : 9869232                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-13<br>Analysis Date: 2026-07-14 |         |
| Escherichia coli (DC Plate)                                                                      |           |      |        |            |         |              |         |                                                    |         |
| Method : Total Coliforms and E.Coli by MF (Water, DC plate). Internal method: OTT-M-BAC-WI45296. |           |      |        |            |         |              |         |                                                    |         |
| Escherichia coli (DC)                                                                            | CFU/100mL | 0    | 0      |            |         |              |         | -                                                  | 0-30    |
| Associated Samples : 9869232                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-10<br>Analysis Date: 2026-07-11 |         |
| Fluoride (Water, Auto/ISE)                                                                       |           |      |        |            |         |              |         |                                                    |         |
| Method : Fluoride by autotitrator, ion selective electrode. Internal method: OTT-I-AT-WI45398.   |           |      |        |            |         |              |         |                                                    |         |
| Fluoride                                                                                         | mg/L      | 0.1  | <0.10  | 104        | 90-110  | 102          | 80-120  | 0                                                  | 0-20    |
| Associated Samples : 9869232                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-10<br>Analysis Date: 2026-07-13 |         |

## OFFICIAL CERTIFICATE OF ANALYSIS - QUALITY CONTROL

Client : Paterson Group

Project : PH5222

Reception Date: 2026-07-10

| Parameter                                                                       | Unit | RL     | Blank   | QC         |         | Matrix Spike |         | Duplicate                                          |         |
|---------------------------------------------------------------------------------|------|--------|---------|------------|---------|--------------|---------|----------------------------------------------------|---------|
|                                                                                 |      |        |         | Recovery % | Range % | Recovery %   | Range % | RPD %                                              | Range % |
| Metals Scan (Water, ICP/MS)                                                     |      |        |         |            |         |              |         |                                                    |         |
| Method : Metals (Water, ICP/MS). Internal method: AMMTFQE1.                     |      |        |         |            |         |              |         |                                                    |         |
| Aluminum                                                                        | mg/L | 0.01   | <0.01   | 100        | 80-120  | 112          | 70-130  | -                                                  | 0-20    |
| Antimony                                                                        | mg/L | 0.0005 | <0.0005 | 83         | 80-120  | 110          | 70-130  | -                                                  | 0-20    |
| Arsenic                                                                         | mg/L | 0.001  | <0.001  | 99         | 80-120  | 102          | 70-130  | -                                                  | 0-20    |
| Barium                                                                          | mg/L | 0.001  | <0.001  | 100        | 80-120  | 103          | 70-130  | 0                                                  | 0-20    |
| Beryllium                                                                       | mg/L | 0.0005 | <0.0005 | 108        | 80-120  | 111          | 70-130  | -                                                  | 0-20    |
| Boron                                                                           | mg/L | 0.01   | <0.01   | 100        | 80-120  | 104          | 70-130  | -                                                  | 0-20    |
| Cadmium                                                                         | mg/L | 0.0001 | <0.0001 | 101        | 80-120  | 103          | 70-130  | -                                                  | 0-20    |
| Chromium                                                                        | mg/L | 0.001  | <0.001  | 110        | 80-120  | 101          | 70-130  | -                                                  | 0-20    |
| Cobalt                                                                          | mg/L | 0.0002 | <0.0002 | 104        | 80-120  | 94           | 70-130  | -                                                  | 0-20    |
| Copper                                                                          | mg/L | 0.001  | <0.001  | 110        | 80-120  | 92           | 70-130  | -                                                  | 0-20    |
| Iron                                                                            | mg/L | 0.03   | <0.03   | 100        | 80-120  | 96           | 70-130  | -                                                  | 0-20    |
| Lead                                                                            | mg/L | 0.001  | <0.001  | 100        | 80-120  | 90           | 70-130  | -                                                  | 0-20    |
| Manganese                                                                       | mg/L | 0.01   | <0.01   | 100        | 80-120  | 99           | 70-130  | -                                                  | 0-20    |
| Mercury                                                                         | mg/L | 0.0001 | <0.0001 | 91         | 80-120  | 80           | 70-130  | -                                                  | 0-20    |
| Molybdenum                                                                      | mg/L | 0.005  | <0.005  | 100        | 80-120  | 97           | 70-130  | -                                                  | 0-20    |
| Nickel                                                                          | mg/L | 0.005  | <0.005  | 110        | 80-120  | 96           | 70-130  | -                                                  | 0-20    |
| Selenium                                                                        | mg/L | 0.001  | <0.001  | 99         | 80-120  | 103          | 70-130  | -                                                  | 0-20    |
| Silver                                                                          | mg/L | 0.0001 | <0.0001 | 107        | 80-120  | 89           | 70-130  | -                                                  | 0-20    |
| Strontium                                                                       | mg/L | 0.001  | <0.001  | 100        | 80-120  | 100          | 70-130  | 1                                                  | 0-20    |
| Thallium                                                                        | mg/L | 0.0001 | <0.0001 | 101        | 80-120  | 90           | 70-130  | -                                                  | 0-20    |
| Uranium                                                                         | mg/L | 0.001  | <0.001  | 100        | 80-120  | 90           | 70-130  | -                                                  | 0-20    |
| Vanadium                                                                        | mg/L | 0.001  | <0.001  | 100        | 80-120  | 103          | 70-130  | -                                                  | 0-20    |
| Zinc                                                                            | mg/L | 0.01   | <0.01   | 110        | 80-120  | 100          | 70-130  | -                                                  | 0-20    |
| Associated Samples : 9869232                                                    |      |        |         |            |         |              |         | Prep Date: 2026-07-13<br>Analysis Date: 2026-07-13 |         |
| Metals Scan (Water, ICP/OES)                                                    |      |        |         |            |         |              |         |                                                    |         |
| Method : Metals (Water, ICP/OES). Internal method: OTT-I-MET-WI48491.           |      |        |         |            |         |              |         |                                                    |         |
| Calcium                                                                         | mg/L | 1      | <1      | 100        | 70-130  | 97           | 70-130  | 0                                                  | 0-20    |
| Magnesium                                                                       | mg/L | 1      | <1      | 101        | 70-130  | 106          | 70-130  | 0                                                  | 0-20    |
| Potassium                                                                       | mg/L | 1      | <1      | 99         | 70-130  | 103          | 70-130  | -                                                  | 0-20    |
| Sodium                                                                          | mg/L | 1      | <1      | 101        | 70-130  | 102          | 70-130  | 0                                                  | 0-20    |
| Associated Samples : 9869232                                                    |      |        |         |            |         |              |         | Prep Date: 2026-07-15<br>Analysis Date: 2026-07-10 |         |
| Nitrate (Water, IC)                                                             |      |        |         |            |         |              |         |                                                    |         |
| Method : Anions (Water, Ion Chromatography). Internal method: OTT-I-IC-WI45985. |      |        |         |            |         |              |         |                                                    |         |
| Nitrate (as Nitrogen)                                                           | mg/L | 0.1    | <0.1    | 100        | 80-120  | 101          | 80-120  | 3                                                  | 0-20    |
| Associated Samples : 9869232                                                    |      |        |         |            |         |              |         | Prep Date: 2026-07-13<br>Analysis Date: 2026-07-14 |         |
| Nitrite (Water, IC)                                                             |      |        |         |            |         |              |         |                                                    |         |
| Method : Anions (Water, Ion Chromatography). Internal method: OTT-I-IC-WI45985. |      |        |         |            |         |              |         |                                                    |         |
| Nitrite (as Nitrogen)                                                           | mg/L | 0.1    | <0.1    | 99         | 80-120  | 103          | 80-120  | -                                                  | 0-20    |
| Associated Samples : 9869232                                                    |      |        |         |            |         |              |         | Prep Date: 2026-07-13<br>Analysis Date: 2026-07-14 |         |
| Phenols (Water, Colorimetry)                                                    |      |        |         |            |         |              |         |                                                    |         |
| Method : Phenols (Water, Colorimetry). Internal method: OTT-I-4AAP-WI46150.     |      |        |         |            |         |              |         |                                                    |         |
| Phenols-4AAP                                                                    | mg/L | 0.001  | <0.001  | 101        | 75-125  | 78           | 70-130  | 4                                                  | 0-20    |
| Associated Samples : 9869232                                                    |      |        |         |            |         |              |         | Prep Date: 2026-07-13<br>Analysis Date: 2026-07-13 |         |

## OFFICIAL CERTIFICATE OF ANALYSIS - QUALITY CONTROL

Client : Paterson Group

Project : PH5222

Reception Date: 2026-07-10

| Parameter                                                                                        | Unit      | RL   | Blank  | QC         |         | Matrix Spike |         | Duplicate                                          |         |
|--------------------------------------------------------------------------------------------------|-----------|------|--------|------------|---------|--------------|---------|----------------------------------------------------|---------|
|                                                                                                  |           |      |        | Recovery % | Range % | Recovery %   | Range % | RPD %                                              | Range % |
| Sulphate (Water, IC)                                                                             |           |      |        |            |         |              |         |                                                    |         |
| Method : Anions (Water, Ion Chromatography). Internal method: OTT-I-IC-WI45985.                  |           |      |        |            |         |              |         |                                                    |         |
| Sulphate                                                                                         | mg/L      | 1    | <1     | 101        | 90-110  | 108          | 80-120  | 0                                                  | 0-20    |
| Associated Samples : 9869232                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-13<br>Analysis Date: 2026-07-14 |         |
| Sulphide (Water, Colorimetry)                                                                    |           |      |        |            |         |              |         |                                                    |         |
| Method : Sulphide, S2- (Water, Colorimetry). Internal method: OTT-I-SPEC-WI45931.                |           |      |        |            |         |              |         |                                                    |         |
| Sulphide (S2-)                                                                                   | mg/L      | 0.01 | <0.01  | 63         | 48-131  |              |         | -                                                  | 0-20    |
| Associated Samples : 9869232                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-15<br>Analysis Date: 2026-07-16 |         |
| Tannin and Lignin (Water, Spec)                                                                  |           |      |        |            |         |              |         |                                                    |         |
| Method : Tannin and Lignin (Water, Spec), Internal method: OTT-I-SPEC-WI57693.                   |           |      |        |            |         |              |         |                                                    |         |
| Tannin and Lignin                                                                                | mg/L      | 0.1  | <0.1   | 100        | 80-120  |              |         | -                                                  | 0-20    |
| Associated Samples : 9869232                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-14<br>Analysis Date: 2026-07-14 |         |
| Total Coliforms (DC Plate)                                                                       |           |      |        |            |         |              |         |                                                    |         |
| Method : Total Coliforms and E.Coli by MF (Water, DC plate). Internal method: OTT-M-BAC-WI45296. |           |      |        |            |         |              |         |                                                    |         |
| Total Coliforms (DC)                                                                             | CFU/100mL | 0    | 0      |            |         |              |         | -                                                  | 0-30    |
| Associated Samples : 9869232                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-10<br>Analysis Date: 2026-07-11 |         |
| Total Kjeldahl Nitrogen (Water, Colorimetry)                                                     |           |      |        |            |         |              |         |                                                    |         |
| Method : TKN (Water, colorimetry). Internal method: OTT-I-NUT-WI46201.                           |           |      |        |            |         |              |         |                                                    |         |
| Total Kjeldahl Nitrogen                                                                          | mg/L      | 0.1  | <0.100 | 101        | 70-130  | 106          | 70-130  | -                                                  | 0-20    |
| Associated Samples : 9869232                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-13<br>Analysis Date: 2026-07-14 |         |
| Turbidity (Water, Turbidimeter)                                                                  |           |      |        |            |         |              |         |                                                    |         |
| Method : Turbidity (Water, Turbidimeter). Internal method: OTT-I-TUR-WI46288.                    |           |      |        |            |         |              |         |                                                    |         |
| Turbidity                                                                                        | NTU       | 0.1  | <0.1   | 95         | 80-120  |              |         | -                                                  | 0-30    |
| Associated Samples : 9869232                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-10<br>Analysis Date: 2026-07-10 |         |

Where RPD % is reported as "-" the calculation is not available because one or both of the duplicates is within 5 times the RL.

[illegible]

**OFFICIAL CERTIFICATE OF ANALYSIS : 4758977**
**WORK REQUEST : 100449576**
**Report Date : 2026-07-16**
**Paterson Group**

9 Auriga Drive  
Ottawa, Ontario  
K2J 5Z9  
Attention : Zavian Buchanan

Reception Date : 2026-07-10

Project : PH5222

Sampler : NA

PO Number : 66416

Temperature : 10 °C

| Analysis                                     | Quantity | External Method                        |
|----------------------------------------------|----------|----------------------------------------|
| Alkalinity (Water, Automated)                | 1        | Modified from SM 2320 B                |
| Ammonia, Total (Water, Colorimetry)          | 1        | Modified from EPA 350.1                |
| Chloride (Water, IC)                         | 1        | Modified from SM 4110 B and C          |
| Colour, Apparent (Water, Spectrophotometry)  | 1        | Modified from SM 2120 C                |
| Colour, True (Water, Spectrophotometry)      | 1        | Modified from SM 2120 C                |
| Conductivity (Water, Automated)              | 1        | Modified from SM 2510 B                |
| DOC (Water, IR)                              | 1        | Modified from SM 5310 B                |
| Escherichia coli (DC Plate)                  | 1        | Modified from MECP E3407               |
| Fluoride (Water, Auto/ISE)                   | 1        | Modified from SM 4500-F A and 4500-F C |
| Hardness (Water, Calculation Only)           | 1        | SM 2340 B                              |
| Ion Balance (Water, Calculation)             | 1        | Modified from SM1030 E                 |
| Metals Scan (Water, ICP/MS)                  | 1        | Modified from EPA 200.8                |
| Metals Scan (Water, ICP/OES)                 | 1        | Modified from SM 3120 B                |
| Nitrate (Water, IC)                          | 1        | Modified from SM 4110 B and C          |
| Nitrite (Water, IC)                          | 1        | Modified from SM 4110 B and C          |
| pH (25°C) (Water, Automated)                 | 1        | Modified from SM 4500-H+ B             |
| Phenols (Water, Colorimetry)                 | 1        | Modified from EPA 420.2                |
| Sulphate (Water, IC)                         | 1        | Modified from SM 4110 B and C          |
| Sulphide (Water, Colorimetry)                | 1        | Modified from SM 4500-S2 D             |
| Tannin and Lignin (Water, Spec)              | 1        | Modified from SM 5550 B                |
| TDS (Estimated)                              | 1        | Modified from SM 2510 A                |
| Total Coliforms (DC Plate)                   | 1        | Modified from MECP E3407               |
| Total Kjeldahl Nitrogen (Water, Colorimetry) | 1        | Modified from EPA 351.2                |
| Turbidity (Water, Turbidimeter)              | 1        | Modified from SM 2130 B                |

**Criteria :**
**A :** Ontario Regulation 169/03 (Non-Regulated Drinking Water)

**Sample status upon receipt :**

9869325

**Compliant**
**Certificate Comments :**

9869325

**N-NO2 and N-NO3 MRLs increased due to matrix interference.**
**Notes :**

- All analysis is completed at Eurofins Environment Testing Canada Inc. (Ottawa, Ontario) unless otherwise stated.
- Eurofins Environment Testing Canada Inc. is accredited by CALA, Canadian Association for Laboratory Accreditation to ISO/IEC 17025 for tests which appear on the scope of accreditation. The scope is available at <https://directory.cala.ca/>
- Please note: Field data, where presented on the report, has been provided by the client and is presented for informational purposes only. Guideline or regulatory limits listed on this report are provided for ease of use (informational purposes) only. Eurofins recommends consulting the official guideline or regulation as required. Unless otherwise stated, measurement uncertainty is not taken into account when determining guideline or regulatory exceedances.

**Legend :**

RL : Reporting limit

N/A : Not applicable

\* : Analysis conducted by external subcontracting

QC : Reference material (QC)

1 : Results in annex

^ : Analysis not accredited

## OFFICIAL CERTIFICATE OF ANALYSIS - EXCEEDENCE SUMMARY

Client : Paterson Group

Project : PH5222

Reception Date : 2026-07-10

| Eurofins<br>Sample No                       | Client Sample<br>Identification | Analyte                         | Result | Units | Exceeded Criteria |   |   |
|---------------------------------------------|---------------------------------|---------------------------------|--------|-------|-------------------|---|---|
|                                             |                                 |                                 |        |       | A                 | B | C |
| Colour, Apparent (Water, Spectrophotometry) |                                 |                                 |        |       |                   |   |   |
| 9869325                                     | 8 Poplarwood                    | Colour (Apparent)               | 29     | TCU   | 5                 |   |   |
| Hardness (Water, Calculation Only)          |                                 |                                 |        |       |                   |   |   |
| 9869325                                     | 8 Poplarwood                    | Hardness as CaCO3 (Calculation) | 487    | mg/L  | 80-100            |   |   |
| Metals Scan (Water, ICP/MS)                 |                                 |                                 |        |       |                   |   |   |
| 9869325                                     | 8 Poplarwood                    | Iron                            | 0.54   | mg/L  | 0.3               |   |   |
| 9869325                                     | 8 Poplarwood                    | Manganese                       | 0.21   | mg/L  | 0.05              |   |   |
| TDS (Estimated)                             |                                 |                                 |        |       |                   |   |   |
| 9869325                                     | 8 Poplarwood                    | TDS (Estimated)^                | 884    | mg/L  | 500               |   |   |

## OFFICIAL CERTIFICATE OF ANALYSIS - RESULTS

Client : Paterson Group  
Project : PH5222

Reception Date: 2026-07-10

|                                             |       |       | Eurofins Sample No : <b>9869325</b>         |   |   |        |  |  |  |
|---------------------------------------------|-------|-------|---------------------------------------------|---|---|--------|--|--|--|
|                                             |       |       | Matrix : Groundwater                        |   |   |        |  |  |  |
|                                             |       |       | Sampling Date : 2026-07-09                  |   |   |        |  |  |  |
|                                             |       |       | Client Sample Identification : 8 Poplarwood |   |   |        |  |  |  |
| Anions                                      | RL    | Unit  | Criteria                                    |   |   |        |  |  |  |
|                                             |       |       | A                                           | B | C |        |  |  |  |
| Chloride                                    | 0.5   | mg/L  | 250                                         |   |   | 210    |  |  |  |
| Sulphate                                    | 1     | mg/L  | 500                                         |   |   | 82     |  |  |  |
|                                             |       |       | Eurofins Sample No : <b>9869325</b>         |   |   |        |  |  |  |
|                                             |       |       | Matrix : Groundwater                        |   |   |        |  |  |  |
|                                             |       |       | Sampling Date : 2026-07-09                  |   |   |        |  |  |  |
|                                             |       |       | Client Sample Identification : 8 Poplarwood |   |   |        |  |  |  |
| Calculations                                | RL    | Unit  |                                             |   |   |        |  |  |  |
| Ion Balance (Calculation)^                  | 0.1   |       | 1.02                                        |   |   |        |  |  |  |
|                                             |       |       | Eurofins Sample No : <b>9869325</b>         |   |   |        |  |  |  |
|                                             |       |       | Matrix : Groundwater                        |   |   |        |  |  |  |
|                                             |       |       | Sampling Date : 2026-07-09                  |   |   |        |  |  |  |
|                                             |       |       | Client Sample Identification : 8 Poplarwood |   |   |        |  |  |  |
| General Chemistry                           | RL    | Unit  | Criteria                                    |   |   |        |  |  |  |
|                                             |       |       | A                                           | B | C |        |  |  |  |
| Alkalinity (as CaCO <sub>3</sub> )          | 5     | mg/L  | 500                                         |   |   | 339    |  |  |  |
| Colour (Apparent)                           | 2     | TCU   | 5                                           |   |   | 29     |  |  |  |
| Colour (True)                               | 2     | TCU   |                                             |   |   | <2     |  |  |  |
| Conductivity @ 25°C                         | 5     | µS/cm |                                             |   |   | 1360   |  |  |  |
| Dissolved Organic Carbon                    | 0.5   | mg/L  | 5                                           |   |   | 3.8    |  |  |  |
| Fluoride                                    | 0.1   | mg/L  | 1.5                                         |   |   | <0.10  |  |  |  |
| Hardness as CaCO <sub>3</sub> (Calculation) | 1     | mg/L  | 80-100                                      |   |   | 487    |  |  |  |
| pH @ 25°C                                   | 1     |       | 6.5-8.5                                     |   |   | 7.31   |  |  |  |
| Phenols-4AAP                                | 0.001 | mg/L  |                                             |   |   | <0.001 |  |  |  |
| Sulphide (S <sub>2</sub> -)                 | 0.01  | mg/L  | 0.05                                        |   |   | <0.01  |  |  |  |
| Tannin and Lignin                           | 0.1   | mg/L  |                                             |   |   | <0.1   |  |  |  |
| TDS (Estimated)^                            | 5     | mg/L  | 500                                         |   |   | 884    |  |  |  |
| Turbidity                                   | 0.1   | NTU   | 5                                           |   |   | 2.0    |  |  |  |

## OFFICIAL CERTIFICATE OF ANALYSIS - RESULTS

Client : Paterson Group  
Project : PH5222

Reception Date: 2026-07-10

|                                             |        |           |          |   |   |         |  |  |  |
|---------------------------------------------|--------|-----------|----------|---|---|---------|--|--|--|
| Eurofins Sample No : 9869325                |        |           |          |   |   |         |  |  |  |
| Matrix : Groundwater                        |        |           |          |   |   |         |  |  |  |
| Sampling Date : 2026-07-09                  |        |           |          |   |   |         |  |  |  |
| Client Sample Identification : 8 Poplarwood |        |           |          |   |   |         |  |  |  |
| Metals                                      | RL     | Unit      | Criteria |   |   |         |  |  |  |
|                                             |        |           | A        | B | C |         |  |  |  |
| Metals Scan (Water, ICP/MS)                 |        |           |          |   |   |         |  |  |  |
| Aluminum                                    | 0.01   | mg/L      | 0.1      |   |   | <0.01   |  |  |  |
| Antimony                                    | 0.0005 | mg/L      | 0.006    |   |   | <0.0005 |  |  |  |
| Arsenic                                     | 0.001  | mg/L      | 0.01     |   |   | <0.001  |  |  |  |
| Barium                                      | 0.001  | mg/L      | 1        |   |   | 0.453   |  |  |  |
| Beryllium                                   | 0.0005 | mg/L      |          |   |   | <0.0005 |  |  |  |
| Boron                                       | 0.01   | mg/L      | 5        |   |   | 0.05    |  |  |  |
| Cadmium                                     | 0.0001 | mg/L      | 0.005    |   |   | <0.0001 |  |  |  |
| Chromium                                    | 0.001  | mg/L      | 0.05     |   |   | <0.001  |  |  |  |
| Cobalt                                      | 0.0002 | mg/L      |          |   |   | 0.0006  |  |  |  |
| Copper                                      | 0.001  | mg/L      | 1        |   |   | 0.005   |  |  |  |
| Iron                                        | 0.03   | mg/L      | 0.3      |   |   | 0.54    |  |  |  |
| Lead                                        | 0.001  | mg/L      | 0.01     |   |   | <0.001  |  |  |  |
| Manganese                                   | 0.01   | mg/L      | 0.05     |   |   | 0.21    |  |  |  |
| Mercury                                     | 0.0001 | mg/L      | 0.001    |   |   | <0.0001 |  |  |  |
| Molybdenum                                  | 0.005  | mg/L      |          |   |   | <0.005  |  |  |  |
| Nickel                                      | 0.005  | mg/L      |          |   |   | <0.005  |  |  |  |
| Selenium                                    | 0.001  | mg/L      | 0.05     |   |   | <0.001  |  |  |  |
| Silver                                      | 0.0001 | mg/L      |          |   |   | <0.0001 |  |  |  |
| Strontium                                   | 0.001  | mg/L      |          |   |   | 2.91    |  |  |  |
| Thallium                                    | 0.0001 | mg/L      |          |   |   | <0.0001 |  |  |  |
| Uranium                                     | 0.001  | mg/L      | 0.02     |   |   | <0.001  |  |  |  |
| Vanadium                                    | 0.001  | mg/L      |          |   |   | <0.001  |  |  |  |
| Zinc                                        | 0.01   | mg/L      | 5        |   |   | <0.01   |  |  |  |
| Metals Scan (Water, ICP/OES)                |        |           |          |   |   |         |  |  |  |
| Calcium                                     | 1      | mg/L      |          |   |   | 157     |  |  |  |
| Magnesium                                   | 1      | mg/L      |          |   |   | 23      |  |  |  |
| Potassium                                   | 1      | mg/L      |          |   |   | 2       |  |  |  |
| Sodium                                      | 1      | mg/L      | 200      |   |   | 114     |  |  |  |
| Eurofins Sample No : 9869325                |        |           |          |   |   |         |  |  |  |
| Matrix : Groundwater                        |        |           |          |   |   |         |  |  |  |
| Sampling Date : 2026-07-09                  |        |           |          |   |   |         |  |  |  |
| Client Sample Identification : 8 Poplarwood |        |           |          |   |   |         |  |  |  |
| Microbiology                                | RL     | Unit      | Criteria |   |   |         |  |  |  |
|                                             |        |           | A        | B | C |         |  |  |  |
| Escherichia coli (DC)                       | 0      | CFU/100mL | 0        |   |   | 0       |  |  |  |
| Total Coliforms (DC)                        | 0      | CFU/100mL | 0        |   |   | 0       |  |  |  |

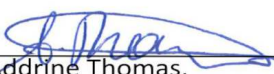
## OFFICIAL CERTIFICATE OF ANALYSIS - RESULTS

Client : Paterson Group  
Project : PH5222

Reception Date: 2026-07-10

|                              |      |      | Eurofins Sample No : <b>9869325</b>         |   |   |        |  |  |  |
|------------------------------|------|------|---------------------------------------------|---|---|--------|--|--|--|
|                              |      |      | Matrix : Groundwater                        |   |   |        |  |  |  |
|                              |      |      | Sampling Date : 2026-07-09                  |   |   |        |  |  |  |
|                              |      |      | Client Sample Identification : 8 Poplarwood |   |   |        |  |  |  |
| Nutrients                    | RL   | Unit | Criteria                                    |   |   |        |  |  |  |
|                              |      |      | A                                           | B | C |        |  |  |  |
| Ammonia (Total, as Nitrogen) | 0.02 | mg/L |                                             |   |   | <0.020 |  |  |  |
| Nitrate (as Nitrogen)        | 0.1  | mg/L | 10.0                                        |   |   | <0.5   |  |  |  |
| Nitrite (as Nitrogen)        | 0.1  | mg/L | 1.0                                         |   |   | <0.5   |  |  |  |
| Total Kjeldahl Nitrogen      | 0.1  | mg/L |                                             |   |   | 0.289  |  |  |  |

Approved by :

  
Addrine Thomas,  
Chemistry Manager, Ottawa

Approved by :

  
Emma-Dawn Ferguson, M.Sc.  
Environmental Chemist

## OFFICIAL CERTIFICATE OF ANALYSIS - QUALITY CONTROL

Client : Paterson Group

Project : PH5222

Reception Date: 2026-07-10

| Parameter                                                                                        | Unit      | RL   | Blank  | QC         |         | Matrix Spike |         | Duplicate                                          |         |
|--------------------------------------------------------------------------------------------------|-----------|------|--------|------------|---------|--------------|---------|----------------------------------------------------|---------|
|                                                                                                  |           |      |        | Recovery % | Range % | Recovery %   | Range % | RPD %                                              | Range % |
| Ammonia, Total (Water, Colorimetry)                                                              |           |      |        |            |         |              |         |                                                    |         |
| Method : Ammonia (Water, Colorimetry). Internal method: OTT-I-NUT-WI46201.                       |           |      |        |            |         |              |         |                                                    |         |
| Ammonia (Total, as Nitrogen)                                                                     | mg/L      | 0.02 | <0.020 | 97         | 80-120  | 103          | 80-120  | -                                                  | 0-20    |
| Associated Samples : 9869325                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-14<br>Analysis Date: 2026-07-14 |         |
| Chloride (Water, IC)                                                                             |           |      |        |            |         |              |         |                                                    |         |
| Method : Anions (Water, Ion Chromatography). Internal method: OTT-I-IC-WI45985.                  |           |      |        |            |         |              |         |                                                    |         |
| Chloride                                                                                         | mg/L      | 0.5  | <0.5   | 104        | 80-120  | 108          | 80-120  | 1                                                  | 0-20    |
| Associated Samples : 9869325                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-14<br>Analysis Date: 2026-07-16 |         |
| Colour, Apparent (Water, Spectrophotometry)                                                      |           |      |        |            |         |              |         |                                                    |         |
| Method : Colour (Water, Spectrophotometric). Internal method: OTT-I-SPEC-WI45980.                |           |      |        |            |         |              |         |                                                    |         |
| Colour (Apparent)                                                                                | TCU       | 2    | <2     | 102        | 78-116  |              |         | 4                                                  | 0-40    |
| Associated Samples : 9869325                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-14<br>Analysis Date: 2026-07-15 |         |
| Colour, True (Water, Spectrophotometry)                                                          |           |      |        |            |         |              |         |                                                    |         |
| Method : Colour (Water, Spectrophotometric). Internal method: OTT-I-SPEC-WI45980.                |           |      |        |            |         |              |         |                                                    |         |
| Colour (True)                                                                                    | TCU       | 2    | <2     | 102        | 78-116  |              |         | -                                                  | 0-40    |
| Associated Samples : 9869325                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-14<br>Analysis Date: 2026-07-15 |         |
| DOC (Water, IR)                                                                                  |           |      |        |            |         |              |         |                                                    |         |
| Method : Organic carbon (water, IR, combustion). Internal method: OTT-I-DEM-WI46148.             |           |      |        |            |         |              |         |                                                    |         |
| Dissolved Organic Carbon                                                                         | mg/L      | 0.5  | <0.5   | 98         | 88-112  | 96           | 85-115  | -                                                  | 0-15    |
| Associated Samples : 9869325                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-13<br>Analysis Date: 2026-07-14 |         |
| Escherichia coli (DC Plate)                                                                      |           |      |        |            |         |              |         |                                                    |         |
| Method : Total Coliforms and E.Coli by MF (Water, DC plate). Internal method: OTT-M-BAC-WI45296. |           |      |        |            |         |              |         |                                                    |         |
| Escherichia coli (DC)                                                                            | CFU/100mL | 0    | 0      |            |         |              |         | -                                                  | 0-30    |
| Associated Samples : 9869325                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-10<br>Analysis Date: 2026-07-11 |         |
| Fluoride (Water, Auto/ISE)                                                                       |           |      |        |            |         |              |         |                                                    |         |
| Method : Fluoride by autotitrator, ion selective electrode. Internal method: OTT-I-AT-WI45398.   |           |      |        |            |         |              |         |                                                    |         |
| Fluoride                                                                                         | mg/L      | 0.1  | <0.10  | 104        | 90-110  | 102          | 80-120  | 0                                                  | 0-20    |
| Associated Samples : 9869325                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-10<br>Analysis Date: 2026-07-13 |         |

## OFFICIAL CERTIFICATE OF ANALYSIS - QUALITY CONTROL

Client : Paterson Group

Project : PH5222

Reception Date: 2026-07-10

| Parameter                                                                       | Unit | RL     | Blank   | QC         |         | Matrix Spike |         | Duplicate                                          |         |
|---------------------------------------------------------------------------------|------|--------|---------|------------|---------|--------------|---------|----------------------------------------------------|---------|
|                                                                                 |      |        |         | Recovery % | Range % | Recovery %   | Range % | RPD %                                              | Range % |
| Metals Scan (Water, ICP/MS)                                                     |      |        |         |            |         |              |         |                                                    |         |
| Method : Metals (Water, ICP/MS). Internal method: AMMTFQE1.                     |      |        |         |            |         |              |         |                                                    |         |
| Aluminum                                                                        | mg/L | 0.01   | <0.01   | 100        | 80-120  | 112          | 70-130  | -                                                  | 0-20    |
| Antimony                                                                        | mg/L | 0.0005 | <0.0005 | 83         | 80-120  | 110          | 70-130  | -                                                  | 0-20    |
| Arsenic                                                                         | mg/L | 0.001  | <0.001  | 99         | 80-120  | 102          | 70-130  | -                                                  | 0-20    |
| Barium                                                                          | mg/L | 0.001  | <0.001  | 100        | 80-120  | 103          | 70-130  | 0                                                  | 0-20    |
| Beryllium                                                                       | mg/L | 0.0005 | <0.0005 | 108        | 80-120  | 111          | 70-130  | -                                                  | 0-20    |
| Boron                                                                           | mg/L | 0.01   | <0.01   | 100        | 80-120  | 104          | 70-130  | -                                                  | 0-20    |
| Cadmium                                                                         | mg/L | 0.0001 | <0.0001 | 101        | 80-120  | 103          | 70-130  | -                                                  | 0-20    |
| Chromium                                                                        | mg/L | 0.001  | <0.001  | 110        | 80-120  | 101          | 70-130  | -                                                  | 0-20    |
| Cobalt                                                                          | mg/L | 0.0002 | <0.0002 | 104        | 80-120  | 94           | 70-130  | -                                                  | 0-20    |
| Copper                                                                          | mg/L | 0.001  | <0.001  | 110        | 80-120  | 92           | 70-130  | -                                                  | 0-20    |
| Iron                                                                            | mg/L | 0.03   | <0.03   | 100        | 80-120  | 96           | 70-130  | -                                                  | 0-20    |
| Lead                                                                            | mg/L | 0.001  | <0.001  | 100        | 80-120  | 90           | 70-130  | -                                                  | 0-20    |
| Manganese                                                                       | mg/L | 0.01   | <0.01   | 100        | 80-120  | 99           | 70-130  | -                                                  | 0-20    |
| Mercury                                                                         | mg/L | 0.0001 | <0.0001 | 91         | 80-120  | 80           | 70-130  | -                                                  | 0-20    |
| Molybdenum                                                                      | mg/L | 0.005  | <0.005  | 100        | 80-120  | 97           | 70-130  | -                                                  | 0-20    |
| Nickel                                                                          | mg/L | 0.005  | <0.005  | 110        | 80-120  | 96           | 70-130  | -                                                  | 0-20    |
| Selenium                                                                        | mg/L | 0.001  | <0.001  | 99         | 80-120  | 103          | 70-130  | -                                                  | 0-20    |
| Silver                                                                          | mg/L | 0.0001 | <0.0001 | 107        | 80-120  | 89           | 70-130  | -                                                  | 0-20    |
| Strontium                                                                       | mg/L | 0.001  | <0.001  | 100        | 80-120  | 100          | 70-130  | 1                                                  | 0-20    |
| Thallium                                                                        | mg/L | 0.0001 | <0.0001 | 101        | 80-120  | 90           | 70-130  | -                                                  | 0-20    |
| Uranium                                                                         | mg/L | 0.001  | <0.001  | 100        | 80-120  | 90           | 70-130  | -                                                  | 0-20    |
| Vanadium                                                                        | mg/L | 0.001  | <0.001  | 100        | 80-120  | 103          | 70-130  | -                                                  | 0-20    |
| Zinc                                                                            | mg/L | 0.01   | <0.01   | 110        | 80-120  | 100          | 70-130  | -                                                  | 0-20    |
| Associated Samples : 9869325                                                    |      |        |         |            |         |              |         | Prep Date: 2026-07-13<br>Analysis Date: 2026-07-13 |         |
| Metals Scan (Water, ICP/OES)                                                    |      |        |         |            |         |              |         |                                                    |         |
| Method : Metals (Water, ICP/OES). Internal method: OTT-I-MET-WI48491.           |      |        |         |            |         |              |         |                                                    |         |
| Calcium                                                                         | mg/L | 1      | <1      | 100        | 70-130  | 97           | 70-130  | 0                                                  | 0-20    |
| Magnesium                                                                       | mg/L | 1      | <1      | 101        | 70-130  | 106          | 70-130  | 0                                                  | 0-20    |
| Potassium                                                                       | mg/L | 1      | <1      | 99         | 70-130  | 103          | 70-130  | -                                                  | 0-20    |
| Sodium                                                                          | mg/L | 1      | <1      | 101        | 70-130  | 102          | 70-130  | 0                                                  | 0-20    |
| Associated Samples : 9869325                                                    |      |        |         |            |         |              |         | Prep Date: 2026-07-15<br>Analysis Date: 2026-07-10 |         |
| Nitrate (Water, IC)                                                             |      |        |         |            |         |              |         |                                                    |         |
| Method : Anions (Water, Ion Chromatography). Internal method: OTT-I-IC-WI45985. |      |        |         |            |         |              |         |                                                    |         |
| Nitrate (as Nitrogen)                                                           | mg/L | 0.1    | <0.1    | 106        | 80-120  | 101          | 80-120  | -                                                  | 0-20    |
| Associated Samples : 9869325                                                    |      |        |         |            |         |              |         | Prep Date: 2026-07-14<br>Analysis Date: 2026-07-16 |         |
| Nitrite (Water, IC)                                                             |      |        |         |            |         |              |         |                                                    |         |
| Method : Anions (Water, Ion Chromatography). Internal method: OTT-I-IC-WI45985. |      |        |         |            |         |              |         |                                                    |         |
| Nitrite (as Nitrogen)                                                           | mg/L | 0.1    | <0.1    | 105        | 80-120  | 109          | 80-120  | -                                                  | 0-20    |
| Associated Samples : 9869325                                                    |      |        |         |            |         |              |         | Prep Date: 2026-07-14<br>Analysis Date: 2026-07-16 |         |
| Phenols (Water, Colorimetry)                                                    |      |        |         |            |         |              |         |                                                    |         |
| Method : Phenols (Water, Colorimetry). Internal method: OTT-I-4AAP-WI46150.     |      |        |         |            |         |              |         |                                                    |         |
| Phenols-4AAP                                                                    | mg/L | 0.001  | <0.001  | 101        | 75-125  | 78           | 70-130  | 4                                                  | 0-20    |
| Associated Samples : 9869325                                                    |      |        |         |            |         |              |         | Prep Date: 2026-07-13<br>Analysis Date: 2026-07-13 |         |

## OFFICIAL CERTIFICATE OF ANALYSIS - QUALITY CONTROL

Client : Paterson Group

Project : PH5222

Reception Date: 2026-07-10

| Parameter                                                                                        | Unit      | RL   | Blank  | QC         |         | Matrix Spike |         | Duplicate                                          |         |
|--------------------------------------------------------------------------------------------------|-----------|------|--------|------------|---------|--------------|---------|----------------------------------------------------|---------|
|                                                                                                  |           |      |        | Recovery % | Range % | Recovery %   | Range % | RPD %                                              | Range % |
| Sulphate (Water, IC)                                                                             |           |      |        |            |         |              |         |                                                    |         |
| Method : Anions (Water, Ion Chromatography). Internal method: OTT-I-IC-WI45985.                  |           |      |        |            |         |              |         |                                                    |         |
| Sulphate                                                                                         | mg/L      | 1    | <1     | 110        | 90-110  | 106          | 80-120  | 2                                                  | 0-20    |
| Associated Samples : 9869325                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-14<br>Analysis Date: 2026-07-16 |         |
| Sulphide (Water, Colorimetry)                                                                    |           |      |        |            |         |              |         |                                                    |         |
| Method : Sulphide, S2- (Water, Colorimetry). Internal method: OTT-I-SPEC-WI45931.                |           |      |        |            |         |              |         |                                                    |         |
| Sulphide (S2-)                                                                                   | mg/L      | 0.01 | <0.01  | 63         | 48-131  |              |         | -                                                  | 0-20    |
| Associated Samples : 9869325                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-15<br>Analysis Date: 2026-07-16 |         |
| Tannin and Lignin (Water, Spec)                                                                  |           |      |        |            |         |              |         |                                                    |         |
| Method : Tannin and Lignin (Water, Spec), Internal method: OTT-I-SPEC-WI57693.                   |           |      |        |            |         |              |         |                                                    |         |
| Tannin and Lignin                                                                                | mg/L      | 0.1  | <0.1   | 100        | 80-120  |              |         | -                                                  | 0-20    |
| Associated Samples : 9869325                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-14<br>Analysis Date: 2026-07-14 |         |
| Total Coliforms (DC Plate)                                                                       |           |      |        |            |         |              |         |                                                    |         |
| Method : Total Coliforms and E.Coli by MF (Water, DC plate). Internal method: OTT-M-BAC-WI45296. |           |      |        |            |         |              |         |                                                    |         |
| Total Coliforms (DC)                                                                             | CFU/100mL | 0    | 0      |            |         |              |         | -                                                  | 0-30    |
| Associated Samples : 9869325                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-10<br>Analysis Date: 2026-07-11 |         |
| Total Kjeldahl Nitrogen (Water, Colorimetry)                                                     |           |      |        |            |         |              |         |                                                    |         |
| Method : TKN (Water, colorimetry). Internal method: OTT-I-NUT-WI46201.                           |           |      |        |            |         |              |         |                                                    |         |
| Total Kjeldahl Nitrogen                                                                          | mg/L      | 0.1  | <0.100 | 101        | 70-130  | 106          | 70-130  | -                                                  | 0-20    |
| Associated Samples : 9869325                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-13<br>Analysis Date: 2026-07-14 |         |
| Turbidity (Water, Turbidimeter)                                                                  |           |      |        |            |         |              |         |                                                    |         |
| Method : Turbidity (Water, Turbidimeter). Internal method: OTT-I-TUR-WI46288.                    |           |      |        |            |         |              |         |                                                    |         |
| Turbidity                                                                                        | NTU       | 0.1  | <0.1   | 95         | 80-120  |              |         | -                                                  | 0-30    |
| Associated Samples : 9869325                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-10<br>Analysis Date: 2026-07-10 |         |

Where RPD % is reported as "-" the calculation is not available because one or both of the duplicates is within 5 times the RL.

## STANDARD CHAIN-OF-CUSTODY

146 Colonnade Road, Unit #8, Ottawa, ON, K2E 7Y1 - Phone: 613-727-5692, Fax: 613-727-5222

[illegible]

**OFFICIAL CERTIFICATE OF ANALYSIS : 4755868**
**WORK REQUEST : 100449071**
**Report Date : 2026-07-14**
**Paterson Group**

9 Auriga Drive  
Ottawa, Ontario  
Attention : Zavian Buchanan

Reception Date : 2026-07-08  
Project : PH5222  
Sampler : NA  
PO Number : 66384  
Temperature : 6 °C

| Analysis                                     | Quantity | External Method                        |
|----------------------------------------------|----------|----------------------------------------|
| Alkalinity (Water, Automated)                | 1        | Modified from SM 2320 B                |
| Ammonia, Total (Water, Colorimetry)          | 1        | Modified from EPA 350.1                |
| Chloride (Water, IC)                         | 1        | Modified from SM 4110 B and C          |
| Colour, Apparent (Water, Spectrophotometry)  | 1        | Modified from SM 2120 C                |
| Colour, True (Water, Spectrophotometry)      | 1        | Modified from SM 2120 C                |
| Conductivity (Water, Automated)              | 1        | Modified from SM 2510 B                |
| DOC (Water, IR)                              | 1        | Modified from SM 5310 B                |
| Escherichia coli (DC Plate)                  | 1        | Modified from MECP E3407               |
| Fluoride (Water, Auto/ISE)                   | 1        | Modified from SM 4500-F A and 4500-F C |
| Hardness (Water, Calculation Only)           | 1        | SM 2340 B                              |
| Ion Balance (Water, Calculation)             | 1        | Modified from SM1030 E                 |
| Metals Scan (Water, ICP/MS)                  | 1        | Modified from EPA 200.8                |
| Metals Scan (Water, ICP/OES)                 | 1        | Modified from SM 3120 B                |
| Nitrate (Water, IC)                          | 1        | Modified from SM 4110 B and C          |
| Nitrite (Water, IC)                          | 1        | Modified from SM 4110 B and C          |
| pH (25°C) (Water, Automated)                 | 1        | Modified from SM 4500-H+ B             |
| Phenols (Water, Colorimetry)                 | 1        | Modified from EPA 420.2                |
| Sulphate (Water, IC)                         | 1        | Modified from SM 4110 B and C          |
| Sulphide (Water, Colorimetry)                | 1        | Modified from SM 4500-S2 D             |
| Tannin and Lignin (Water, Spec)              | 1        | Modified from SM 5550 B                |
| TDS (Estimated)                              | 1        | Modified from SM 2510 A                |
| Total Coliforms (DC Plate)                   | 1        | Modified from MECP E3407               |
| Total Kjeldahl Nitrogen (Water, Colorimetry) | 1        | Modified from EPA 351.2                |
| Turbidity (Water, Turbidimeter)              | 1        | Modified from SM 2130 B                |

**Criteria :**

**A :** Ontario Regulation 169/03 (Non-Regulated Drinking Water)

**Sample status upon receipt :**

9863166

**Compliant**

**Certificate Comments :**

9863166

**N-NO2 MRL increased due to matrix interference. Fe spike recovery not available due to high native analyte concentration of the spiked sample.**

**Notes :**

- All analysis is completed at Eurofins Environment Testing Canada Inc. (Ottawa, Ontario) unless otherwise stated.
- Eurofins Environment Testing Canada Inc. is accredited by CALA, Canadian Association for Laboratory Accreditation to ISO/IEC 17025 for tests which appear on the scope of accreditation. The scope is available at <https://directory.cala.ca/>
- Please note: Field data, where presented on the report, has been provided by the client and is presented for informational purposes only. Guideline or regulatory limits listed on this report are provided for ease of use (informational purposes) only. Eurofins recommends consulting the official guideline or regulation as required. Unless otherwise stated, measurement uncertainty is not taken into account when determining guideline or regulatory exceedances.

**Legend :**

RL : Reporting limit

N/A : Not applicable

\* : Analysis conducted by external subcontracting

QC : Reference material (QC)

1 : Results in annex

^ : Analysis not accredited

### OFFICIAL CERTIFICATE OF ANALYSIS - EXCEEDENCE SUMMARY

Client : Paterson Group  
Project : PH5222

Reception Date : 2026-07-08

| Eurofins<br>Sample No              | Client Sample<br>Identification | Analyte                         | Result | Units     | Exceeded Criteria |   |   |
|------------------------------------|---------------------------------|---------------------------------|--------|-----------|-------------------|---|---|
|                                    |                                 |                                 |        |           | A                 | B | C |
| Hardness (Water, Calculation Only) |                                 |                                 |        |           |                   |   |   |
| 9863166                            | 9POP                            | Hardness as CaCO3 (Calculation) | 402    | mg/L      | 80-100            |   |   |
| TDS (Estimated)                    |                                 |                                 |        |           |                   |   |   |
| 9863166                            | 9POP                            | TDS (Estimated)^                | 663    | mg/L      | 500               |   |   |
| Total Coliforms (DC Plate)         |                                 |                                 |        |           |                   |   |   |
| 9863166                            | 9POP                            | Total Coliforms (DC)            | 31     | CFU/100mL | 0                 |   |   |

## OFFICIAL CERTIFICATE OF ANALYSIS - RESULTS

Client : Paterson Group  
Project : PH5222

Reception Date: 2026-07-08

|                                             |       |       | Eurofins Sample No : <b>9863166</b> |   |   |        |  |  |  |
|---------------------------------------------|-------|-------|-------------------------------------|---|---|--------|--|--|--|
|                                             |       |       | Matrix : Groundwater                |   |   |        |  |  |  |
|                                             |       |       | Sampling Date : 2026-07-08          |   |   |        |  |  |  |
|                                             |       |       | Client Sample Identification : 9POP |   |   |        |  |  |  |
| Anions                                      | RL    | Unit  | Criteria                            |   |   |        |  |  |  |
|                                             |       |       | A                                   | B | C |        |  |  |  |
| Chloride                                    | 0.5   | mg/L  | 250                                 |   |   | 88.2   |  |  |  |
| Sulphate                                    | 1     | mg/L  | 500                                 |   |   | 61     |  |  |  |
|                                             |       |       |                                     |   |   |        |  |  |  |
|                                             |       |       | Eurofins Sample No : <b>9863166</b> |   |   |        |  |  |  |
|                                             |       |       | Matrix : Groundwater                |   |   |        |  |  |  |
|                                             |       |       | Sampling Date : 2026-07-08          |   |   |        |  |  |  |
|                                             |       |       | Client Sample Identification : 9POP |   |   |        |  |  |  |
| Calculations                                | RL    | Unit  |                                     |   |   |        |  |  |  |
| Ion Balance (Calculation)^                  | 0.1   |       | 1.03                                |   |   |        |  |  |  |
|                                             |       |       |                                     |   |   |        |  |  |  |
|                                             |       |       | Eurofins Sample No : <b>9863166</b> |   |   |        |  |  |  |
|                                             |       |       | Matrix : Groundwater                |   |   |        |  |  |  |
|                                             |       |       | Sampling Date : 2026-07-08          |   |   |        |  |  |  |
|                                             |       |       | Client Sample Identification : 9POP |   |   |        |  |  |  |
| General Chemistry                           | RL    | Unit  | Criteria                            |   |   |        |  |  |  |
|                                             |       |       | A                                   | B | C |        |  |  |  |
| Alkalinity (as CaCO <sub>3</sub> )          | 5     | mg/L  | 500                                 |   |   | 359    |  |  |  |
| Colour (Apparent)                           | 2     | TCU   | 5                                   |   |   | <2     |  |  |  |
| Colour (True)                               | 2     | TCU   |                                     |   |   | <2     |  |  |  |
| Conductivity @ 25°C                         | 5     | µS/cm |                                     |   |   | 1020   |  |  |  |
| Dissolved Organic Carbon                    | 0.5   | mg/L  | 5                                   |   |   | 2.0    |  |  |  |
| Fluoride                                    | 0.1   | mg/L  | 1.5                                 |   |   | 0.11   |  |  |  |
| Hardness as CaCO <sub>3</sub> (Calculation) | 1     | mg/L  | 80-100                              |   |   | 402    |  |  |  |
| pH @ 25°C                                   | 1     |       | 6.5-8.5                             |   |   | 7.88   |  |  |  |
| Phenols-4AAP                                | 0.001 | mg/L  |                                     |   |   | <0.001 |  |  |  |
| Sulphide (S <sub>2</sub> -)                 | 0.01  | mg/L  | 0.05                                |   |   | <0.01  |  |  |  |
| Tannin and Lignin                           | 0.1   | mg/L  |                                     |   |   | <0.1   |  |  |  |
| TDS (Estimated)^                            | 5     | mg/L  | 500                                 |   |   | 663    |  |  |  |
| Turbidity                                   | 0.1   | NTU   | 5                                   |   |   | 0.1    |  |  |  |

## OFFICIAL CERTIFICATE OF ANALYSIS - RESULTS

Client : Paterson Group  
Project : PH5222

Reception Date: 2026-07-08

|                                |        |      |          |   |   |             |  |  |  |  |
|--------------------------------|--------|------|----------|---|---|-------------|--|--|--|--|
| Eurofins Sample No :           |        |      |          |   |   | 9863166     |  |  |  |  |
| Matrix :                       |        |      |          |   |   | Groundwater |  |  |  |  |
| Sampling Date :                |        |      |          |   |   | 2026-07-08  |  |  |  |  |
| Client Sample Identification : |        |      |          |   |   | 9POP        |  |  |  |  |
| Metals                         | RL     | Unit | Criteria |   |   |             |  |  |  |  |
|                                |        |      | A        | B | C |             |  |  |  |  |
| Metals Scan (Water, ICP/MS)    |        |      |          |   |   |             |  |  |  |  |
| Aluminum                       | 0.01   | mg/L | 0.1      |   |   | <0.01       |  |  |  |  |
| Antimony                       | 0.0005 | mg/L | 0.006    |   |   | <0.0005     |  |  |  |  |
| Arsenic                        | 0.001  | mg/L | 0.01     |   |   | <0.001      |  |  |  |  |
| Barium                         | 0.001  | mg/L | 1        |   |   | 0.194       |  |  |  |  |
| Beryllium                      | 0.0005 | mg/L |          |   |   | <0.0005     |  |  |  |  |
| Boron                          | 0.01   | mg/L | 5        |   |   | 0.12        |  |  |  |  |
| Cadmium                        | 0.0001 | mg/L | 0.005    |   |   | <0.0001     |  |  |  |  |
| Chromium                       | 0.001  | mg/L | 0.05     |   |   | <0.001      |  |  |  |  |
| Cobalt                         | 0.0002 | mg/L |          |   |   | <0.0002     |  |  |  |  |
| Copper                         | 0.001  | mg/L | 1        |   |   | 0.009       |  |  |  |  |
| Iron                           | 0.03   | mg/L | 0.3      |   |   | <0.03       |  |  |  |  |
| Lead                           | 0.001  | mg/L | 0.01     |   |   | <0.001      |  |  |  |  |
| Manganese                      | 0.01   | mg/L | 0.05     |   |   | <0.01       |  |  |  |  |
| Mercury                        | 0.0001 | mg/L | 0.001    |   |   | <0.0001     |  |  |  |  |
| Molybdenum                     | 0.005  | mg/L |          |   |   | <0.005      |  |  |  |  |
| Nickel                         | 0.005  | mg/L |          |   |   | <0.005      |  |  |  |  |
| Selenium                       | 0.001  | mg/L | 0.05     |   |   | <0.001      |  |  |  |  |
| Silver                         | 0.0001 | mg/L |          |   |   | <0.0001     |  |  |  |  |
| Strontium                      | 0.001  | mg/L |          |   |   | 4.85        |  |  |  |  |
| Thallium                       | 0.0001 | mg/L |          |   |   | <0.0001     |  |  |  |  |
| Uranium                        | 0.001  | mg/L | 0.02     |   |   | <0.001      |  |  |  |  |
| Vanadium                       | 0.001  | mg/L |          |   |   | <0.001      |  |  |  |  |
| Zinc                           | 0.01   | mg/L | 5        |   |   | <0.01       |  |  |  |  |
| Metals Scan (Water, ICP/OES)   |        |      |          |   |   |             |  |  |  |  |
| Calcium                        | 1      | mg/L |          |   |   | 118         |  |  |  |  |
| Magnesium                      | 1      | mg/L |          |   |   | 26          |  |  |  |  |
| Potassium                      | 1      | mg/L |          |   |   | 4           |  |  |  |  |
| Sodium                         | 1      | mg/L | 200      |   |   | 78          |  |  |  |  |

|                                |    |           |          |   |   |             |  |  |  |  |
|--------------------------------|----|-----------|----------|---|---|-------------|--|--|--|--|
| Eurofins Sample No :           |    |           |          |   |   | 9863166     |  |  |  |  |
| Matrix :                       |    |           |          |   |   | Groundwater |  |  |  |  |
| Sampling Date :                |    |           |          |   |   | 2026-07-08  |  |  |  |  |
| Client Sample Identification : |    |           |          |   |   | 9POP        |  |  |  |  |
| Microbiology                   | RL | Unit      | Criteria |   |   |             |  |  |  |  |
|                                |    |           | A        | B | C |             |  |  |  |  |
| Escherichia coli (DC)          | 0  | CFU/100mL | 0        |   |   | 0           |  |  |  |  |
| Total Coliforms (DC)           | 0  | CFU/100mL | 0        |   |   | 31          |  |  |  |  |

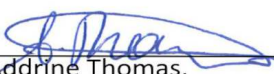
## OFFICIAL CERTIFICATE OF ANALYSIS - RESULTS

Client : Paterson Group  
Project : PH5222

Reception Date: 2026-07-08

|                              |      |      | Eurofins Sample No :           |   |   | 9863166     |  |  |  |  |
|------------------------------|------|------|--------------------------------|---|---|-------------|--|--|--|--|
|                              |      |      | Matrix :                       |   |   | Groundwater |  |  |  |  |
|                              |      |      | Sampling Date :                |   |   | 2026-07-08  |  |  |  |  |
|                              |      |      | Client Sample Identification : |   |   | 9POP        |  |  |  |  |
| Nutrients                    | RL   | Unit | Criteria                       |   |   |             |  |  |  |  |
|                              |      |      | A                              | B | C |             |  |  |  |  |
| Ammonia (Total, as Nitrogen) | 0.02 | mg/L |                                |   |   | <0.020      |  |  |  |  |
| Nitrate (as Nitrogen)        | 0.1  | mg/L | 10.0                           |   |   | 3.79        |  |  |  |  |
| Nitrite (as Nitrogen)        | 0.1  | mg/L | 1.0                            |   |   | <0.5        |  |  |  |  |
| Total Kjeldahl Nitrogen      | 0.1  | mg/L |                                |   |   | <0.100      |  |  |  |  |

Approved by :

  
Addrine Thomas,  
Chemistry Manager, Ottawa

Approved by :

  
Emma-Dawn Ferguson, M.Sc.  
Environmental Chemist

## OFFICIAL CERTIFICATE OF ANALYSIS - QUALITY CONTROL

Client : Paterson Group

Project : PH5222

Reception Date: 2026-07-08

| Parameter                                                                                        | Unit      | RL   | Blank  | QC         |         | Matrix Spike |         | Duplicate                                          |         |
|--------------------------------------------------------------------------------------------------|-----------|------|--------|------------|---------|--------------|---------|----------------------------------------------------|---------|
|                                                                                                  |           |      |        | Recovery % | Range % | Recovery %   | Range % | RPD %                                              | Range % |
| Ammonia, Total (Water, Colorimetry)                                                              |           |      |        |            |         |              |         |                                                    |         |
| Method : Ammonia (Water, Colorimetry). Internal method: OTT-I-NUT-WI46201.                       |           |      |        |            |         |              |         |                                                    |         |
| Ammonia (Total, as Nitrogen)                                                                     | mg/L      | 0.02 | <0.020 | 96         | 80-120  | 104          | 80-120  | -                                                  | 0-20    |
| Associated Samples : 9863166                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-10<br>Analysis Date: 2026-07-10 |         |
| Chloride (Water, IC)                                                                             |           |      |        |            |         |              |         |                                                    |         |
| Method : Anions (Water, Ion Chromatography). Internal method: OTT-I-IC-WI45985.                  |           |      |        |            |         |              |         |                                                    |         |
| Chloride                                                                                         | mg/L      | 0.5  | <0.5   | 95         | 80-120  | 109          | 80-120  | 2                                                  | 0-20    |
| Associated Samples : 9863166                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-13<br>Analysis Date: 2026-07-14 |         |
| Colour, Apparent (Water, Spectrophotometry)                                                      |           |      |        |            |         |              |         |                                                    |         |
| Method : Colour (Water, Spectrophotometric). Internal method: OTT-I-SPEC-WI45980.                |           |      |        |            |         |              |         |                                                    |         |
| Colour (Apparent)                                                                                | TCU       | 2    | <2     | 102        | 78-116  |              |         | 2                                                  | 0-40    |
| Associated Samples : 9863166                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-13<br>Analysis Date: 2026-07-13 |         |
| Colour, True (Water, Spectrophotometry)                                                          |           |      |        |            |         |              |         |                                                    |         |
| Method : Colour (Water, Spectrophotometric). Internal method: OTT-I-SPEC-WI45980.                |           |      |        |            |         |              |         |                                                    |         |
| Colour (True)                                                                                    | TCU       | 2    | <2     | 102        | 78-116  |              |         | -                                                  | 0-40    |
| Associated Samples : 9863166                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-13<br>Analysis Date: 2026-07-13 |         |
| DOC (Water, IR)                                                                                  |           |      |        |            |         |              |         |                                                    |         |
| Method : Organic carbon (water, IR, combustion). Internal method: OTT-I-DEM-WI46148.             |           |      |        |            |         |              |         |                                                    |         |
| Dissolved Organic Carbon                                                                         | mg/L      | 0.5  | <0.5   | 98         | 88-112  | 96           | 85-115  | 7                                                  | 0-15    |
| Associated Samples : 9863166                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-13<br>Analysis Date: 2026-07-14 |         |
| Escherichia coli (DC Plate)                                                                      |           |      |        |            |         |              |         |                                                    |         |
| Method : Total Coliforms and E.Coli by MF (Water, DC plate). Internal method: OTT-M-BAC-WI45296. |           |      |        |            |         |              |         |                                                    |         |
| Escherichia coli (DC)                                                                            | CFU/100mL | 0    | 0      |            |         |              |         | -                                                  | 0-30    |
| Associated Samples : 9863166                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-09<br>Analysis Date: 2026-07-10 |         |
| Fluoride (Water, Auto/ISE)                                                                       |           |      |        |            |         |              |         |                                                    |         |
| Method : Fluoride by autotitrator, ion selective electrode. Internal method: OTT-I-AT-WI45398.   |           |      |        |            |         |              |         |                                                    |         |
| Fluoride                                                                                         | mg/L      | 0.1  | <0.10  | 104        | 90-110  | 102          | 80-120  | -                                                  | 0-20    |
| Associated Samples : 9863166                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-10<br>Analysis Date: 2026-07-13 |         |

## OFFICIAL CERTIFICATE OF ANALYSIS - QUALITY CONTROL

Client : Paterson Group

Project : PH5222

Reception Date: 2026-07-08

| Parameter                                                                       | Unit | RL     | Blank   | QC         |         | Matrix Spike |         | Duplicate                                          |         |
|---------------------------------------------------------------------------------|------|--------|---------|------------|---------|--------------|---------|----------------------------------------------------|---------|
|                                                                                 |      |        |         | Recovery % | Range % | Recovery %   | Range % | RPD %                                              | Range % |
| Metals Scan (Water, ICP/MS)                                                     |      |        |         |            |         |              |         |                                                    |         |
| Method : Metals (Water, ICP/MS). Internal method: AMMTFQE1.                     |      |        |         |            |         |              |         |                                                    |         |
| Aluminum                                                                        | mg/L | 0.01   | <0.01   | 100        | 80-120  | 96           | 70-130  | -                                                  | 0-20    |
| Antimony                                                                        | mg/L | 0.0005 | <0.0005 | 95         | 80-120  | 88           | 70-130  | -                                                  | 0-20    |
| Arsenic                                                                         | mg/L | 0.001  | <0.001  | 99         | 80-120  | 105          | 70-130  | 1                                                  | 0-20    |
| Barium                                                                          | mg/L | 0.001  | <0.001  | 110        | 80-120  | 102          | 70-130  | 1                                                  | 0-20    |
| Beryllium                                                                       | mg/L | 0.0005 | <0.0005 | 108        | 80-120  | 102          | 70-130  | -                                                  | 0-20    |
| Boron                                                                           | mg/L | 0.01   | <0.01   | 110        | 80-120  | 102          | 70-130  | -                                                  | 0-20    |
| Cadmium                                                                         | mg/L | 0.0001 | <0.0001 | 101        | 80-120  | 98           | 70-130  | -                                                  | 0-20    |
| Chromium                                                                        | mg/L | 0.001  | <0.001  | 110        | 80-120  | 103          | 70-130  | -                                                  | 0-20    |
| Cobalt                                                                          | mg/L | 0.0002 | <0.0002 | 102        | 80-120  | 100          | 70-130  | -                                                  | 0-20    |
| Copper                                                                          | mg/L | 0.001  | <0.001  | 100        | 80-120  | 99           | 70-130  | 0                                                  | 0-20    |
| Iron                                                                            | mg/L | 0.03   | <0.03   | 100        | 80-120  |              |         | 2                                                  | 0-20    |
| Lead                                                                            | mg/L | 0.001  | <0.001  | 100        | 80-120  | 99           | 70-130  | -                                                  | 0-20    |
| Manganese                                                                       | mg/L | 0.01   | <0.01   | 100        | 80-120  | 98           | 70-130  | 0                                                  | 0-20    |
| Mercury                                                                         | mg/L | 0.0001 | <0.0001 | 95         | 80-120  | 100          | 70-130  | -                                                  | 0-20    |
| Molybdenum                                                                      | mg/L | 0.005  | <0.005  | 100        | 80-120  | 100          | 70-130  | -                                                  | 0-20    |
| Nickel                                                                          | mg/L | 0.005  | <0.005  | 110        | 80-120  | 99           | 70-130  | -                                                  | 0-20    |
| Selenium                                                                        | mg/L | 0.001  | <0.001  | 102        | 80-120  | 103          | 70-130  | -                                                  | 0-20    |
| Silver                                                                          | mg/L | 0.0001 | <0.0001 | 101        | 80-120  | 94           | 70-130  | -                                                  | 0-20    |
| Strontium                                                                       | mg/L | 0.001  | <0.001  | 100        | 80-120  | 96           | 70-130  | 0                                                  | 0-20    |
| Thallium                                                                        | mg/L | 0.0001 | <0.0001 | 104        | 80-120  | 99           | 70-130  | -                                                  | 0-20    |
| Uranium                                                                         | mg/L | 0.001  | <0.001  | 100        | 80-120  | 103          | 70-130  | -                                                  | 0-20    |
| Vanadium                                                                        | mg/L | 0.001  | <0.001  | 100        | 80-120  | 102          | 70-130  | -                                                  | 0-20    |
| Zinc                                                                            | mg/L | 0.01   | <0.01   | 110        | 80-120  | 104          | 70-130  | 0                                                  | 0-20    |
| Associated Samples : 9863166                                                    |      |        |         |            |         |              |         | Prep Date: 2026-07-10<br>Analysis Date: 2026-07-10 |         |
| Metals Scan (Water, ICP/OES)                                                    |      |        |         |            |         |              |         |                                                    |         |
| Method : Metals (Water, ICP/OES). Internal method: OTT-I-MET-WI48491.           |      |        |         |            |         |              |         |                                                    |         |
| Calcium                                                                         | mg/L | 1      | <1      | 103        | 86-115  | 101          | 70-130  | 1                                                  | 0-20    |
| Magnesium                                                                       | mg/L | 1      | <1      | 100        | 91-109  | 90           | 70-130  | 2                                                  | 0-20    |
| Potassium                                                                       | mg/L | 1      | <1      | 105        | 87-113  | 101          | 70-130  | -                                                  | 0-20    |
| Sodium                                                                          | mg/L | 1      | <1      | 104        | 85-115  | 87           | 70-130  | 2                                                  | 0-20    |
| Associated Samples : 9863166                                                    |      |        |         |            |         |              |         | Prep Date: 2026-07-13<br>Analysis Date: 2026-07-09 |         |
| Nitrate (Water, IC)                                                             |      |        |         |            |         |              |         |                                                    |         |
| Method : Anions (Water, Ion Chromatography). Internal method: OTT-I-IC-WI45985. |      |        |         |            |         |              |         |                                                    |         |
| Nitrate (as Nitrogen)                                                           | mg/L | 0.1    | <0.1    | 100        | 80-120  | 101          | 80-120  | 3                                                  | 0-20    |
| Associated Samples : 9863166                                                    |      |        |         |            |         |              |         | Prep Date: 2026-07-13<br>Analysis Date: 2026-07-14 |         |
| Nitrite (Water, IC)                                                             |      |        |         |            |         |              |         |                                                    |         |
| Method : Anions (Water, Ion Chromatography). Internal method: OTT-I-IC-WI45985. |      |        |         |            |         |              |         |                                                    |         |
| Nitrite (as Nitrogen)                                                           | mg/L | 0.1    | <0.1    | 99         | 80-120  | 103          | 80-120  | -                                                  | 0-20    |
| Associated Samples : 9863166                                                    |      |        |         |            |         |              |         | Prep Date: 2026-07-13<br>Analysis Date: 2026-07-14 |         |
| Phenols (Water, Colorimetry)                                                    |      |        |         |            |         |              |         |                                                    |         |
| Method : Phenols (Water, Colorimetry). Internal method: OTT-I-4AAP-WI46150.     |      |        |         |            |         |              |         |                                                    |         |
| Phenols-4AAP                                                                    | mg/L | 0.001  | <0.001  | 101        | 75-125  | 78           | 70-130  | -                                                  | 0-20    |
| Associated Samples : 9863166                                                    |      |        |         |            |         |              |         | Prep Date: 2026-07-13<br>Analysis Date: 2026-07-13 |         |

## OFFICIAL CERTIFICATE OF ANALYSIS - QUALITY CONTROL

Client : Paterson Group

Project : PH5222

Reception Date: 2026-07-08

| Parameter                                                                                        | Unit      | RL   | Blank  | QC         |         | Matrix Spike |         | Duplicate                                          |         |
|--------------------------------------------------------------------------------------------------|-----------|------|--------|------------|---------|--------------|---------|----------------------------------------------------|---------|
|                                                                                                  |           |      |        | Recovery % | Range % | Recovery %   | Range % | RPD %                                              | Range % |
| Sulphate (Water, IC)                                                                             |           |      |        |            |         |              |         |                                                    |         |
| Method : Anions (Water, Ion Chromatography). Internal method: OTT-I-IC-WI45985.                  |           |      |        |            |         |              |         |                                                    |         |
| Sulphate                                                                                         | mg/L      | 1    | <1     | 101        | 90-110  | 108          | 80-120  | 0                                                  | 0-20    |
| Associated Samples : 9863166                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-13<br>Analysis Date: 2026-07-14 |         |
| Sulphide (Water, Colorimetry)                                                                    |           |      |        |            |         |              |         |                                                    |         |
| Method : Sulphide, S2- (Water, Colorimetry). Internal method: OTT-I-SPEC-WI45931.                |           |      |        |            |         |              |         |                                                    |         |
| Sulphide (S2-)                                                                                   | mg/L      | 0.01 | <0.01  | 66         | 48-131  |              |         | -                                                  | 0-20    |
| Associated Samples : 9863166                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-14<br>Analysis Date: 2026-07-14 |         |
| Tannin and Lignin (Water, Spec)                                                                  |           |      |        |            |         |              |         |                                                    |         |
| Method : Tannin and Lignin (Water, Spec), Internal method: OTT-I-SPEC-WI57693.                   |           |      |        |            |         |              |         |                                                    |         |
| Tannin and Lignin                                                                                | mg/L      | 0.1  | <0.1   | 100        | 80-120  |              |         | -                                                  | 0-20    |
| Associated Samples : 9863166                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-14<br>Analysis Date: 2026-07-14 |         |
| Total Coliforms (DC Plate)                                                                       |           |      |        |            |         |              |         |                                                    |         |
| Method : Total Coliforms and E.Coli by MF (Water, DC plate). Internal method: OTT-M-BAC-WI45296. |           |      |        |            |         |              |         |                                                    |         |
| Total Coliforms (DC)                                                                             | CFU/100mL | 0    | 0      |            |         |              |         | 3                                                  | 0-30    |
| Associated Samples : 9863166                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-09<br>Analysis Date: 2026-07-10 |         |
| Total Kjeldahl Nitrogen (Water, Colorimetry)                                                     |           |      |        |            |         |              |         |                                                    |         |
| Method : TKN (Water, colorimetry). Internal method: OTT-I-NUT-WI46201.                           |           |      |        |            |         |              |         |                                                    |         |
| Total Kjeldahl Nitrogen                                                                          | mg/L      | 0.1  | <0.100 | 91         | 70-130  | 112          | 70-130  | -                                                  | 0-20    |
| Associated Samples : 9863166                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-10<br>Analysis Date: 2026-07-13 |         |
| Turbidity (Water, Turbidimeter)                                                                  |           |      |        |            |         |              |         |                                                    |         |
| Method : Turbidity (Water, Turbidimeter). Internal method: OTT-I-TUR-WI46288.                    |           |      |        |            |         |              |         |                                                    |         |
| Turbidity                                                                                        | NTU       | 0.1  | <0.1   | 95         | 80-120  |              |         | -                                                  | 0-30    |
| Associated Samples : 9863166                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-10<br>Analysis Date: 2026-07-10 |         |

Where RPD % is reported as "-" the calculation is not available because one or both of the duplicates is within 5 times the RL.

[illegible]

**OFFICIAL CERTIFICATE OF ANALYSIS : 4755872**
**WORK REQUEST : 100449072**
**Report Date : 2026-07-14**
**Paterson Group**

9 Auriga Drive  
Ottawa, Ontario  
Attention : Zavian Buchanan

Reception Date : 2026-07-08  
Project : PH5222  
Sampler : NA  
PO Number : 66385  
Temperature : 6 °C

| Analysis                                     | Quantity | External Method                        |
|----------------------------------------------|----------|----------------------------------------|
| Alkalinity (Water, Automated)                | 1        | Modified from SM 2320 B                |
| Ammonia, Total (Water, Colorimetry)          | 1        | Modified from EPA 350.1                |
| Chloride (Water, IC)                         | 1        | Modified from SM 4110 B and C          |
| Colour, Apparent (Water, Spectrophotometry)  | 1        | Modified from SM 2120 C                |
| Colour, True (Water, Spectrophotometry)      | 1        | Modified from SM 2120 C                |
| Conductivity (Water, Automated)              | 1        | Modified from SM 2510 B                |
| DOC (Water, IR)                              | 1        | Modified from SM 5310 B                |
| Escherichia coli (DC Plate)                  | 1        | Modified from MECP E3407               |
| Fluoride (Water, Auto/ISE)                   | 1        | Modified from SM 4500-F A and 4500-F C |
| Hardness (Water, Calculation Only)           | 1        | SM 2340 B                              |
| Ion Balance (Water, Calculation)             | 1        | Modified from SM1030 E                 |
| Metals Scan (Water, ICP/MS)                  | 1        | Modified from EPA 200.8                |
| Metals Scan (Water, ICP/OES)                 | 1        | Modified from SM 3120 B                |
| Nitrate (Water, IC)                          | 1        | Modified from SM 4110 B and C          |
| Nitrite (Water, IC)                          | 1        | Modified from SM 4110 B and C          |
| pH (25°C) (Water, Automated)                 | 1        | Modified from SM 4500-H+ B             |
| Phenols (Water, Colorimetry)                 | 1        | Modified from EPA 420.2                |
| Sulphate (Water, IC)                         | 1        | Modified from SM 4110 B and C          |
| Sulphide (Water, Colorimetry)                | 1        | Modified from SM 4500-S2 D             |
| Tannin and Lignin (Water, Spec)              | 1        | Modified from SM 5550 B                |
| TDS (Estimated)                              | 1        | Modified from SM 2510 A                |
| Total Coliforms (DC Plate)                   | 1        | Modified from MECP E3407               |
| Total Kjeldahl Nitrogen (Water, Colorimetry) | 1        | Modified from EPA 351.2                |
| Turbidity (Water, Turbidimeter)              | 1        | Modified from SM 2130 B                |

**Criteria :**

**A :** Ontario Regulation 169/03 (Non-Regulated Drinking Water)

**Sample status upon receipt :**

9863173

**Compliant**

**Certificate Comments :**

9863173

**N-NO2 and N-NO3 MRLs increased due to matrix interference. Sr analyzed on July 13, 2026. Fe spike recovery not available due to high native analyte concentration of the spiked sample.**

**Notes :**

- All analysis is completed at Eurofins Environment Testing Canada Inc. (Ottawa, Ontario) unless otherwise stated.
- Eurofins Environment Testing Canada Inc. is accredited by CALA, Canadian Association for Laboratory Accreditation to ISO/IEC 17025 for tests which appear on the scope of accreditation. The scope is available at <https://directory.cala.ca/>
- Please note: Field data, where presented on the report, has been provided by the client and is presented for informational purposes only. Guideline or regulatory limits listed on this report are provided for ease of use (informational purposes) only. Eurofins recommends consulting the official guideline or regulation as required. Unless otherwise stated, measurement uncertainty is not taken into account when determining guideline or regulatory exceedances.

**Legend :**

RL : Reporting limit

N/A : Not applicable

\* : Analysis conducted by external subcontracting

QC : Reference material (QC)

1 : Results in annex

^ : Analysis not accredited

## OFFICIAL CERTIFICATE OF ANALYSIS - EXCEEDENCE SUMMARY

Client : Paterson Group

Project : PH5222

Reception Date : 2026-07-08

| Eurofins<br>Sample No                       | Client Sample<br>Identification | Analyte                         | Result | Units | Exceeded Criteria |   |   |
|---------------------------------------------|---------------------------------|---------------------------------|--------|-------|-------------------|---|---|
|                                             |                                 |                                 |        |       | A                 | B | C |
| Colour, Apparent (Water, Spectrophotometry) |                                 |                                 |        |       |                   |   |   |
| 9863173                                     | 10POP                           | Colour (Apparent)               | 13     | TCU   | 5                 |   |   |
| Hardness (Water, Calculation Only)          |                                 |                                 |        |       |                   |   |   |
| 9863173                                     | 10POP                           | Hardness as CaCO3 (Calculation) | 490    | mg/L  | 80-100            |   |   |
| Metals Scan (Water, ICP/MS)                 |                                 |                                 |        |       |                   |   |   |
| 9863173                                     | 10POP                           | Iron                            | 0.36   | mg/L  | 0.3               |   |   |
| TDS (Estimated)                             |                                 |                                 |        |       |                   |   |   |
| 9863173                                     | 10POP                           | TDS (Estimated)^                | 819    | mg/L  | 500               |   |   |

## OFFICIAL CERTIFICATE OF ANALYSIS - RESULTS

Client : Paterson Group  
Project : PH5222

Reception Date: 2026-07-08

|                                             |       |       | Eurofins Sample No : <b>9863173</b>  |   |   |        |  |  |  |
|---------------------------------------------|-------|-------|--------------------------------------|---|---|--------|--|--|--|
|                                             |       |       | Matrix : Groundwater                 |   |   |        |  |  |  |
|                                             |       |       | Sampling Date : 2026-07-08           |   |   |        |  |  |  |
|                                             |       |       | Client Sample Identification : 10POP |   |   |        |  |  |  |
| Anions                                      | RL    | Unit  | Criteria                             |   |   |        |  |  |  |
|                                             |       |       | A                                    | B | C |        |  |  |  |
| Chloride                                    | 0.5   | mg/L  | 250                                  |   |   | 175    |  |  |  |
| Sulphate                                    | 1     | mg/L  | 500                                  |   |   | 93     |  |  |  |
|                                             |       |       |                                      |   |   |        |  |  |  |
|                                             |       |       | Eurofins Sample No : <b>9863173</b>  |   |   |        |  |  |  |
|                                             |       |       | Matrix : Groundwater                 |   |   |        |  |  |  |
|                                             |       |       | Sampling Date : 2026-07-08           |   |   |        |  |  |  |
|                                             |       |       | Client Sample Identification : 10POP |   |   |        |  |  |  |
| Calculations                                | RL    | Unit  |                                      |   |   |        |  |  |  |
| Ion Balance (Calculation)^                  | 0.1   |       | 1.01                                 |   |   |        |  |  |  |
|                                             |       |       |                                      |   |   |        |  |  |  |
|                                             |       |       | Eurofins Sample No : <b>9863173</b>  |   |   |        |  |  |  |
|                                             |       |       | Matrix : Groundwater                 |   |   |        |  |  |  |
|                                             |       |       | Sampling Date : 2026-07-08           |   |   |        |  |  |  |
|                                             |       |       | Client Sample Identification : 10POP |   |   |        |  |  |  |
| General Chemistry                           | RL    | Unit  | Criteria                             |   |   |        |  |  |  |
|                                             |       |       | A                                    | B | C |        |  |  |  |
| Alkalinity (as CaCO <sub>3</sub> )          | 5     | mg/L  | 500                                  |   |   | 328    |  |  |  |
| Colour (Apparent)                           | 2     | TCU   | 5                                    |   |   | 13     |  |  |  |
| Colour (True)                               | 2     | TCU   |                                      |   |   | <2     |  |  |  |
| Conductivity @ 25°C                         | 5     | µS/cm |                                      |   |   | 1260   |  |  |  |
| Dissolved Organic Carbon                    | 0.5   | mg/L  | 5                                    |   |   | 1.8    |  |  |  |
| Fluoride                                    | 0.1   | mg/L  | 1.5                                  |   |   | 0.19   |  |  |  |
| Hardness as CaCO <sub>3</sub> (Calculation) | 1     | mg/L  | 80-100                               |   |   | 490    |  |  |  |
| pH @ 25°C                                   | 1     |       | 6.5-8.5                              |   |   | 7.38   |  |  |  |
| Phenols-4AAP                                | 0.001 | mg/L  |                                      |   |   | <0.001 |  |  |  |
| Sulphide (S <sub>2</sub> -)                 | 0.01  | mg/L  | 0.05                                 |   |   | <0.01  |  |  |  |
| Tannin and Lignin                           | 0.1   | mg/L  |                                      |   |   | <0.1   |  |  |  |
| TDS (Estimated)^                            | 5     | mg/L  | 500                                  |   |   | 819    |  |  |  |
| Turbidity                                   | 0.1   | NTU   | 5                                    |   |   | 2.4    |  |  |  |

## OFFICIAL CERTIFICATE OF ANALYSIS - RESULTS

Client : Paterson Group  
Project : PH5222

Reception Date: 2026-07-08

|                                |        |      |       |          |             |         |  |  |  |  |
|--------------------------------|--------|------|-------|----------|-------------|---------|--|--|--|--|
| Eurofins Sample No :           |        |      |       |          | 9863173     |         |  |  |  |  |
| Matrix :                       |        |      |       |          | Groundwater |         |  |  |  |  |
| Sampling Date :                |        |      |       |          | 2026-07-08  |         |  |  |  |  |
| Client Sample Identification : |        |      |       |          | 10POP       |         |  |  |  |  |
| Metals                         |        | RL   | Unit  | Criteria |             |         |  |  |  |  |
|                                |        |      |       | A        | B           | C       |  |  |  |  |
| Metals Scan (Water, ICP/MS)    |        |      |       |          |             |         |  |  |  |  |
| Aluminum                       | 0.01   | mg/L | 0.1   |          |             | <0.01   |  |  |  |  |
| Antimony                       | 0.0005 | mg/L | 0.006 |          |             | <0.0005 |  |  |  |  |
| Arsenic                        | 0.001  | mg/L | 0.01  |          |             | <0.001  |  |  |  |  |
| Barium                         | 0.001  | mg/L | 1     |          |             | 0.140   |  |  |  |  |
| Beryllium                      | 0.0005 | mg/L |       |          |             | <0.0005 |  |  |  |  |
| Boron                          | 0.01   | mg/L | 5     |          |             | 0.09    |  |  |  |  |
| Cadmium                        | 0.0001 | mg/L | 0.005 |          |             | <0.0001 |  |  |  |  |
| Chromium                       | 0.001  | mg/L | 0.05  |          |             | <0.001  |  |  |  |  |
| Cobalt                         | 0.0002 | mg/L |       |          |             | <0.0002 |  |  |  |  |
| Copper                         | 0.001  | mg/L | 1     |          |             | 0.005   |  |  |  |  |
| Iron                           | 0.03   | mg/L | 0.3   |          |             | 0.36    |  |  |  |  |
| Lead                           | 0.001  | mg/L | 0.01  |          |             | <0.001  |  |  |  |  |
| Manganese                      | 0.01   | mg/L | 0.05  |          |             | 0.03    |  |  |  |  |
| Mercury                        | 0.0001 | mg/L | 0.001 |          |             | <0.0001 |  |  |  |  |
| Molybdenum                     | 0.005  | mg/L |       |          |             | <0.005  |  |  |  |  |
| Nickel                         | 0.005  | mg/L |       |          |             | <0.005  |  |  |  |  |
| Selenium                       | 0.001  | mg/L | 0.05  |          |             | <0.001  |  |  |  |  |
| Silver                         | 0.0001 | mg/L |       |          |             | <0.0001 |  |  |  |  |
| Strontium                      | 0.001  | mg/L |       |          |             | 10.8    |  |  |  |  |
| Thallium                       | 0.0001 | mg/L |       |          |             | <0.0001 |  |  |  |  |
| Uranium                        | 0.001  | mg/L | 0.02  |          |             | <0.001  |  |  |  |  |
| Vanadium                       | 0.001  | mg/L |       |          |             | <0.001  |  |  |  |  |
| Zinc                           | 0.01   | mg/L | 5     |          |             | <0.01   |  |  |  |  |
| Metals Scan (Water, ICP/OES)   |        |      |       |          |             |         |  |  |  |  |
| Calcium                        | 1      | mg/L |       |          |             | 137     |  |  |  |  |
| Magnesium                      | 1      | mg/L |       |          |             | 36      |  |  |  |  |
| Potassium                      | 1      | mg/L |       |          |             | 4       |  |  |  |  |
| Sodium                         | 1      | mg/L | 200   |          |             | 84      |  |  |  |  |

|                       |    |           | Eurofins Sample No : <b>9863173</b>  |   |   |   |  |  |  |
|-----------------------|----|-----------|--------------------------------------|---|---|---|--|--|--|
|                       |    |           | Matrix : Groundwater                 |   |   |   |  |  |  |
|                       |    |           | Sampling Date : 2026-07-08           |   |   |   |  |  |  |
|                       |    |           | Client Sample Identification : 10POP |   |   |   |  |  |  |
| Microbiology          | RL | Unit      | Criteria                             |   |   |   |  |  |  |
|                       |    |           | A                                    | B | C |   |  |  |  |
| Escherichia coli (DC) | 0  | CFU/100mL | 0                                    |   |   | 0 |  |  |  |
| Total Coliforms (DC)  | 0  | CFU/100mL | 0                                    |   |   | 0 |  |  |  |

## OFFICIAL CERTIFICATE OF ANALYSIS - RESULTS

Client : Paterson Group  
Project : PH5222

Reception Date: 2026-07-08

|                              |      |      | Eurofins Sample No : <b>9863173</b>  |   |   |        |  |  |  |
|------------------------------|------|------|--------------------------------------|---|---|--------|--|--|--|
|                              |      |      | Matrix : Groundwater                 |   |   |        |  |  |  |
|                              |      |      | Sampling Date : 2026-07-08           |   |   |        |  |  |  |
|                              |      |      | Client Sample Identification : 10POP |   |   |        |  |  |  |
| Nutrients                    | RL   | Unit | Criteria                             |   |   |        |  |  |  |
|                              |      |      | A                                    | B | C |        |  |  |  |
| Ammonia (Total, as Nitrogen) | 0.02 | mg/L |                                      |   |   | 0.051  |  |  |  |
| Nitrate (as Nitrogen)        | 0.1  | mg/L | 10.0                                 |   |   | <0.5   |  |  |  |
| Nitrite (as Nitrogen)        | 0.1  | mg/L | 1.0                                  |   |   | <0.5   |  |  |  |
| Total Kjeldahl Nitrogen      | 0.1  | mg/L |                                      |   |   | <0.100 |  |  |  |

Approved by :

  
Addrine Thomas,  
Chemistry Manager, Ottawa

Approved by :

  
Emma-Dawn Ferguson, M.Sc.  
Environmental Chemist

## OFFICIAL CERTIFICATE OF ANALYSIS - QUALITY CONTROL

Client : Paterson Group

Project : PH5222

Reception Date: 2026-07-08

| Parameter                                                                                        | Unit      | RL   | Blank  | QC         |         | Matrix Spike |         | Duplicate                                          |         |
|--------------------------------------------------------------------------------------------------|-----------|------|--------|------------|---------|--------------|---------|----------------------------------------------------|---------|
|                                                                                                  |           |      |        | Recovery % | Range % | Recovery %   | Range % | RPD %                                              | Range % |
| Ammonia, Total (Water, Colorimetry)                                                              |           |      |        |            |         |              |         |                                                    |         |
| Method : Ammonia (Water, Colorimetry). Internal method: OTT-I-NUT-WI46201.                       |           |      |        |            |         |              |         |                                                    |         |
| Ammonia (Total, as Nitrogen)                                                                     | mg/L      | 0.02 | <0.020 | 96         | 80-120  | 104          | 80-120  | -                                                  | 0-20    |
| Associated Samples : 9863173                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-10<br>Analysis Date: 2026-07-10 |         |
| Chloride (Water, IC)                                                                             |           |      |        |            |         |              |         |                                                    |         |
| Method : Anions (Water, Ion Chromatography). Internal method: OTT-I-IC-WI45985.                  |           |      |        |            |         |              |         |                                                    |         |
| Chloride                                                                                         | mg/L      | 0.5  | <0.5   | 95         | 80-120  | 109          | 80-120  | 2                                                  | 0-20    |
| Associated Samples : 9863173                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-13<br>Analysis Date: 2026-07-14 |         |
| Colour, Apparent (Water, Spectrophotometry)                                                      |           |      |        |            |         |              |         |                                                    |         |
| Method : Colour (Water, Spectrophotometric). Internal method: OTT-I-SPEC-WI45980.                |           |      |        |            |         |              |         |                                                    |         |
| Colour (Apparent)                                                                                | TCU       | 2    | <2     | 102        | 78-116  |              |         | -                                                  | 0-40    |
| Associated Samples : 9863173                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-13<br>Analysis Date: 2026-07-13 |         |
| Colour, True (Water, Spectrophotometry)                                                          |           |      |        |            |         |              |         |                                                    |         |
| Method : Colour (Water, Spectrophotometric). Internal method: OTT-I-SPEC-WI45980.                |           |      |        |            |         |              |         |                                                    |         |
| Colour (True)                                                                                    | TCU       | 2    | <2     | 102        | 78-116  |              |         | -                                                  | 0-40    |
| Associated Samples : 9863173                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-13<br>Analysis Date: 2026-07-13 |         |
| DOC (Water, IR)                                                                                  |           |      |        |            |         |              |         |                                                    |         |
| Method : Organic carbon (water, IR, combustion). Internal method: OTT-I-DEM-WI46148.             |           |      |        |            |         |              |         |                                                    |         |
| Dissolved Organic Carbon                                                                         | mg/L      | 0.5  | <0.5   | 98         | 88-112  | 96           | 85-115  | 7                                                  | 0-15    |
| Associated Samples : 9863173                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-13<br>Analysis Date: 2026-07-14 |         |
| Escherichia coli (DC Plate)                                                                      |           |      |        |            |         |              |         |                                                    |         |
| Method : Total Coliforms and E.Coli by MF (Water, DC plate). Internal method: OTT-M-BAC-WI45296. |           |      |        |            |         |              |         |                                                    |         |
| Escherichia coli (DC)                                                                            | CFU/100mL | 0    | 0      |            |         |              |         | -                                                  | 0-30    |
| Associated Samples : 9863173                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-09<br>Analysis Date: 2026-07-10 |         |
| Fluoride (Water, Auto/ISE)                                                                       |           |      |        |            |         |              |         |                                                    |         |
| Method : Fluoride by autotitrator, ion selective electrode. Internal method: OTT-I-AT-WI45398.   |           |      |        |            |         |              |         |                                                    |         |
| Fluoride                                                                                         | mg/L      | 0.1  | <0.10  | 104        | 90-110  | 102          | 80-120  | -                                                  | 0-20    |
| Associated Samples : 9863173                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-10<br>Analysis Date: 2026-07-13 |         |

## OFFICIAL CERTIFICATE OF ANALYSIS - QUALITY CONTROL

Client : Paterson Group

Project : PH5222

Reception Date: 2026-07-08

| Parameter                                                                       | Unit | RL     | Blank   | QC         |         | Matrix Spike |         | Duplicate                                          |         |
|---------------------------------------------------------------------------------|------|--------|---------|------------|---------|--------------|---------|----------------------------------------------------|---------|
|                                                                                 |      |        |         | Recovery % | Range % | Recovery %   | Range % | RPD %                                              | Range % |
| Metals Scan (Water, ICP/MS)                                                     |      |        |         |            |         |              |         |                                                    |         |
| Method : Metals (Water, ICP/MS). Internal method: AMMTFQE1.                     |      |        |         |            |         |              |         |                                                    |         |
| Aluminum                                                                        | mg/L | 0.01   | <0.01   | 100        | 80-120  | 96           | 70-130  | -                                                  | 0-20    |
| Antimony                                                                        | mg/L | 0.0005 | <0.0005 | 95         | 80-120  | 88           | 70-130  | -                                                  | 0-20    |
| Arsenic                                                                         | mg/L | 0.001  | <0.001  | 99         | 80-120  | 105          | 70-130  | 1                                                  | 0-20    |
| Barium                                                                          | mg/L | 0.001  | <0.001  | 110        | 80-120  | 102          | 70-130  | 1                                                  | 0-20    |
| Beryllium                                                                       | mg/L | 0.0005 | <0.0005 | 108        | 80-120  | 102          | 70-130  | -                                                  | 0-20    |
| Boron                                                                           | mg/L | 0.01   | <0.01   | 110        | 80-120  | 102          | 70-130  | -                                                  | 0-20    |
| Cadmium                                                                         | mg/L | 0.0001 | <0.0001 | 101        | 80-120  | 98           | 70-130  | -                                                  | 0-20    |
| Chromium                                                                        | mg/L | 0.001  | <0.001  | 110        | 80-120  | 103          | 70-130  | -                                                  | 0-20    |
| Cobalt                                                                          | mg/L | 0.0002 | <0.0002 | 102        | 80-120  | 100          | 70-130  | -                                                  | 0-20    |
| Copper                                                                          | mg/L | 0.001  | <0.001  | 100        | 80-120  | 99           | 70-130  | 0                                                  | 0-20    |
| Iron                                                                            | mg/L | 0.03   | <0.03   | 100        | 80-120  |              |         | 2                                                  | 0-20    |
| Lead                                                                            | mg/L | 0.001  | <0.001  | 100        | 80-120  | 99           | 70-130  | -                                                  | 0-20    |
| Manganese                                                                       | mg/L | 0.01   | <0.01   | 100        | 80-120  | 98           | 70-130  | 0                                                  | 0-20    |
| Mercury                                                                         | mg/L | 0.0001 | <0.0001 | 95         | 80-120  | 100          | 70-130  | -                                                  | 0-20    |
| Molybdenum                                                                      | mg/L | 0.005  | <0.005  | 100        | 80-120  | 100          | 70-130  | -                                                  | 0-20    |
| Nickel                                                                          | mg/L | 0.005  | <0.005  | 110        | 80-120  | 99           | 70-130  | -                                                  | 0-20    |
| Selenium                                                                        | mg/L | 0.001  | <0.001  | 102        | 80-120  | 103          | 70-130  | -                                                  | 0-20    |
| Silver                                                                          | mg/L | 0.0001 | <0.0001 | 101        | 80-120  | 94           | 70-130  | -                                                  | 0-20    |
| Strontium                                                                       | mg/L | 0.001  | <0.001  | 100        | 80-120  | 96           | 70-130  | 0                                                  | 0-20    |
| Thallium                                                                        | mg/L | 0.0001 | <0.0001 | 104        | 80-120  | 99           | 70-130  | -                                                  | 0-20    |
| Uranium                                                                         | mg/L | 0.001  | <0.001  | 100        | 80-120  | 103          | 70-130  | -                                                  | 0-20    |
| Vanadium                                                                        | mg/L | 0.001  | <0.001  | 100        | 80-120  | 102          | 70-130  | -                                                  | 0-20    |
| Zinc                                                                            | mg/L | 0.01   | <0.01   | 110        | 80-120  | 104          | 70-130  | 0                                                  | 0-20    |
| Associated Samples : 9863173                                                    |      |        |         |            |         |              |         | Prep Date: 2026-07-10<br>Analysis Date: 2026-07-10 |         |
| Metals Scan (Water, ICP/OES)                                                    |      |        |         |            |         |              |         |                                                    |         |
| Method : Metals (Water, ICP/OES). Internal method: OTT-I-MET-WI48491.           |      |        |         |            |         |              |         |                                                    |         |
| Calcium                                                                         | mg/L | 1      | <1      | 103        | 86-115  | 101          | 70-130  | 1                                                  | 0-20    |
| Magnesium                                                                       | mg/L | 1      | <1      | 100        | 91-109  | 90           | 70-130  | 2                                                  | 0-20    |
| Potassium                                                                       | mg/L | 1      | <1      | 105        | 87-113  | 101          | 70-130  | -                                                  | 0-20    |
| Sodium                                                                          | mg/L | 1      | <1      | 104        | 85-115  | 87           | 70-130  | 2                                                  | 0-20    |
| Associated Samples : 9863173                                                    |      |        |         |            |         |              |         | Prep Date: 2026-07-13<br>Analysis Date: 2026-07-09 |         |
| Nitrate (Water, IC)                                                             |      |        |         |            |         |              |         |                                                    |         |
| Method : Anions (Water, Ion Chromatography). Internal method: OTT-I-IC-WI45985. |      |        |         |            |         |              |         |                                                    |         |
| Nitrate (as Nitrogen)                                                           | mg/L | 0.1    | <0.1    | 100        | 80-120  | 101          | 80-120  | 3                                                  | 0-20    |
| Associated Samples : 9863173                                                    |      |        |         |            |         |              |         | Prep Date: 2026-07-13<br>Analysis Date: 2026-07-14 |         |
| Nitrite (Water, IC)                                                             |      |        |         |            |         |              |         |                                                    |         |
| Method : Anions (Water, Ion Chromatography). Internal method: OTT-I-IC-WI45985. |      |        |         |            |         |              |         |                                                    |         |
| Nitrite (as Nitrogen)                                                           | mg/L | 0.1    | <0.1    | 99         | 80-120  | 103          | 80-120  | -                                                  | 0-20    |
| Associated Samples : 9863173                                                    |      |        |         |            |         |              |         | Prep Date: 2026-07-13<br>Analysis Date: 2026-07-14 |         |
| Phenols (Water, Colorimetry)                                                    |      |        |         |            |         |              |         |                                                    |         |
| Method : Phenols (Water, Colorimetry). Internal method: OTT-I-4AAP-WI46150.     |      |        |         |            |         |              |         |                                                    |         |
| Phenols-4AAP                                                                    | mg/L | 0.001  | <0.001  | 101        | 75-125  | 78           | 70-130  | -                                                  | 0-20    |
| Associated Samples : 9863173                                                    |      |        |         |            |         |              |         | Prep Date: 2026-07-13<br>Analysis Date: 2026-07-13 |         |

## OFFICIAL CERTIFICATE OF ANALYSIS - QUALITY CONTROL

Client : Paterson Group

Project : PH5222

Reception Date: 2026-07-08

| Parameter                                                                                        | Unit      | RL   | Blank  | QC         |         | Matrix Spike |         | Duplicate                                          |         |
|--------------------------------------------------------------------------------------------------|-----------|------|--------|------------|---------|--------------|---------|----------------------------------------------------|---------|
|                                                                                                  |           |      |        | Recovery % | Range % | Recovery %   | Range % | RPD %                                              | Range % |
| Sulphate (Water, IC)                                                                             |           |      |        |            |         |              |         |                                                    |         |
| Method : Anions (Water, Ion Chromatography). Internal method: OTT-I-IC-WI45985.                  |           |      |        |            |         |              |         |                                                    |         |
| Sulphate                                                                                         | mg/L      | 1    | <1     | 101        | 90-110  | 108          | 80-120  | 0                                                  | 0-20    |
| Associated Samples : 9863173                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-13<br>Analysis Date: 2026-07-14 |         |
| Sulphide (Water, Colorimetry)                                                                    |           |      |        |            |         |              |         |                                                    |         |
| Method : Sulphide, S2- (Water, Colorimetry). Internal method: OTT-I-SPEC-WI45931.                |           |      |        |            |         |              |         |                                                    |         |
| Sulphide (S2-)                                                                                   | mg/L      | 0.01 | <0.01  | 66         | 48-131  |              |         | -                                                  | 0-20    |
| Associated Samples : 9863173                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-14<br>Analysis Date: 2026-07-14 |         |
| Tannin and Lignin (Water, Spec)                                                                  |           |      |        |            |         |              |         |                                                    |         |
| Method : Tannin and Lignin (Water, Spec), Internal method: OTT-I-SPEC-WI57693.                   |           |      |        |            |         |              |         |                                                    |         |
| Tannin and Lignin                                                                                | mg/L      | 0.1  | <0.1   | 100        | 80-120  |              |         | -                                                  | 0-20    |
| Associated Samples : 9863173                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-14<br>Analysis Date: 2026-07-14 |         |
| Total Coliforms (DC Plate)                                                                       |           |      |        |            |         |              |         |                                                    |         |
| Method : Total Coliforms and E.Coli by MF (Water, DC plate). Internal method: OTT-M-BAC-WI45296. |           |      |        |            |         |              |         |                                                    |         |
| Total Coliforms (DC)                                                                             | CFU/100mL | 0    | 0      |            |         |              |         | 3                                                  | 0-30    |
| Associated Samples : 9863173                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-09<br>Analysis Date: 2026-07-10 |         |
| Total Kjeldahl Nitrogen (Water, Colorimetry)                                                     |           |      |        |            |         |              |         |                                                    |         |
| Method : TKN (Water, colorimetry). Internal method: OTT-I-NUT-WI46201.                           |           |      |        |            |         |              |         |                                                    |         |
| Total Kjeldahl Nitrogen                                                                          | mg/L      | 0.1  | <0.100 | 91         | 70-130  | 112          | 70-130  | -                                                  | 0-20    |
| Associated Samples : 9863173                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-10<br>Analysis Date: 2026-07-13 |         |
| Turbidity (Water, Turbidimeter)                                                                  |           |      |        |            |         |              |         |                                                    |         |
| Method : Turbidity (Water, Turbidimeter). Internal method: OTT-I-TUR-WI46288.                    |           |      |        |            |         |              |         |                                                    |         |
| Turbidity                                                                                        | NTU       | 0.1  | <0.1   | 95         | 80-120  |              |         | -                                                  | 0-30    |
| Associated Samples : 9863173                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-10<br>Analysis Date: 2026-07-10 |         |

Where RPD % is reported as "-" the calculation is not available because one or both of the duplicates is within 5 times the RL.

## STANDARD CHAIN-OF-CUSTODY

146 Colonnade Road, Unit #8, Ottawa, ON, K2E 7Y1 - Phone: 613-727-5692, Fax: 613-727-5222

[illegible]

**OFFICIAL CERTIFICATE OF ANALYSIS : 4758529**
**WORK REQUEST : 100449554**
**Report Date : 2026-07-16**
**Paterson Group**

9 Auriga Drive  
Ottawa, Ontario  
K2J 5Z9  
Attention : Zavian Buchanan

Reception Date : 2026-07-10  
Project : PH5222  
Sampler : NA  
PO Number : 66408  
Temperature : 10 °C

| Analysis                                     | Quantity | External Method                        |
|----------------------------------------------|----------|----------------------------------------|
| Alkalinity (Water, Automated)                | 1        | Modified from SM 2320 B                |
| Ammonia, Total (Water, Colorimetry)          | 1        | Modified from EPA 350.1                |
| Chloride (Water, IC)                         | 1        | Modified from SM 4110 B and C          |
| Colour, Apparent (Water, Spectrophotometry)  | 1        | Modified from SM 2120 C                |
| Colour, True (Water, Spectrophotometry)      | 1        | Modified from SM 2120 C                |
| Conductivity (Water, Automated)              | 1        | Modified from SM 2510 B                |
| DOC (Water, IR)                              | 1        | Modified from SM 5310 B                |
| Escherichia coli (DC Plate)                  | 1        | Modified from MECP E3407               |
| Fluoride (Water, Auto/ISE)                   | 1        | Modified from SM 4500-F A and 4500-F C |
| Hardness (Water, Calculation Only)           | 1        | SM 2340 B                              |
| Ion Balance (Water, Calculation)             | 1        | Modified from SM1030 E                 |
| Metals Scan (Water, ICP/MS)                  | 1        | Modified from EPA 200.8                |
| Metals Scan (Water, ICP/OES)                 | 1        | Modified from SM 3120 B                |
| Nitrate (Water, IC)                          | 1        | Modified from SM 4110 B and C          |
| Nitrite (Water, IC)                          | 1        | Modified from SM 4110 B and C          |
| pH (25°C) (Water, Automated)                 | 1        | Modified from SM 4500-H+ B             |
| Phenols (Water, Colorimetry)                 | 1        | Modified from EPA 420.2                |
| Sulphate (Water, IC)                         | 1        | Modified from SM 4110 B and C          |
| Sulphide (Water, Colorimetry)                | 1        | Modified from SM 4500-S2 D             |
| Tannin and Lignin (Water, Spec)              | 1        | Modified from SM 5550 B                |
| TDS (Estimated)                              | 1        | Modified from SM 2510 A                |
| Total Coliforms (DC Plate)                   | 1        | Modified from MECP E3407               |
| Total Kjeldahl Nitrogen (Water, Colorimetry) | 1        | Modified from EPA 351.2                |
| Turbidity (Water, Turbidimeter)              | 1        | Modified from SM 2130 B                |

**Criteria :**
**A :** Ontario Regulation 169/03 (Non-Regulated Drinking Water)

**Sample status upon receipt :**

9869191

**Compliant**
**Certificate Comments :**

9869191

**N-NO2 and N-NO3 MRLs increased due to matrix interference.**
**Notes :**

- All analysis is completed at Eurofins Environment Testing Canada Inc. (Ottawa, Ontario) unless otherwise stated.
- Eurofins Environment Testing Canada Inc. is accredited by CALA, Canadian Association for Laboratory Accreditation to ISO/IEC 17025 for tests which appear on the scope of accreditation. The scope is available at <https://directory.cala.ca/>
- Please note: Field data, where presented on the report, has been provided by the client and is presented for informational purposes only. Guideline or regulatory limits listed on this report are provided for ease of use (informational purposes) only. Eurofins recommends consulting the official guideline or regulation as required. Unless otherwise stated, measurement uncertainty is not taken into account when determining guideline or regulatory exceedances.

**Legend :**

RL : Reporting limit

QC : Reference material (QC)

N/A : Not applicable

1 : Results in annex

\* : Analysis conducted by external subcontracting

^ : Analysis not accredited

## OFFICIAL CERTIFICATE OF ANALYSIS - EXCEEDENCE SUMMARY

Client : Paterson Group

Project : PH5222

Reception Date : 2026-07-10

| Eurofins<br>Sample No                       | Client Sample<br>Identification | Analyte                         | Result | Units | Exceeded Criteria |   |   |
|---------------------------------------------|---------------------------------|---------------------------------|--------|-------|-------------------|---|---|
|                                             |                                 |                                 |        |       | A                 | B | C |
| Colour, Apparent (Water, Spectrophotometry) |                                 |                                 |        |       |                   |   |   |
| 9869191                                     | 11 Poplarwood                   | Colour (Apparent)               | 16     | TCU   | 5                 |   |   |
| Hardness (Water, Calculation Only)          |                                 |                                 |        |       |                   |   |   |
| 9869191                                     | 11 Poplarwood                   | Hardness as CaCO3 (Calculation) | 152    | mg/L  | 80-100            |   |   |
| Metals Scan (Water, ICP/OES)                |                                 |                                 |        |       |                   |   |   |
| 9869191                                     | 11 Poplarwood                   | Sodium                          | 265    | mg/L  | 200               |   |   |
| TDS (Estimated)                             |                                 |                                 |        |       |                   |   |   |
| 9869191                                     | 11 Poplarwood                   | TDS (Estimated)^                | 904    | mg/L  | 500               |   |   |

## OFFICIAL CERTIFICATE OF ANALYSIS - RESULTS

Client : Paterson Group  
Project : PH5222

Reception Date: 2026-07-10

|          |     |      | Eurofins Sample No : <b>9869191</b>          |   |   |     |  |  |  |
|----------|-----|------|----------------------------------------------|---|---|-----|--|--|--|
|          |     |      | Matrix : Groundwater                         |   |   |     |  |  |  |
|          |     |      | Sampling Date : 2026-07-09                   |   |   |     |  |  |  |
|          |     |      | Client Sample Identification : 11 Poplarwood |   |   |     |  |  |  |
| Anions   | RL  | Unit | Criteria                                     |   |   |     |  |  |  |
|          |     |      | A                                            | B | C |     |  |  |  |
| Chloride | 0.5 | mg/L | 250                                          |   |   | 179 |  |  |  |
| Sulphate | 1   | mg/L | 500                                          |   |   | 120 |  |  |  |

|                            |     |      | Eurofins Sample No : <b>9869191</b>          |  |  |  |  |  |  |
|----------------------------|-----|------|----------------------------------------------|--|--|--|--|--|--|
|                            |     |      | Matrix : Groundwater                         |  |  |  |  |  |  |
|                            |     |      | Sampling Date : 2026-07-09                   |  |  |  |  |  |  |
|                            |     |      | Client Sample Identification : 11 Poplarwood |  |  |  |  |  |  |
| Calculations               | RL  | Unit |                                              |  |  |  |  |  |  |
| Ion Balance (Calculation)^ | 0.1 |      | 1.02                                         |  |  |  |  |  |  |

|                                 |       |       | Eurofins Sample No : <b>9869191</b>          |   |   |        |  |  |  |
|---------------------------------|-------|-------|----------------------------------------------|---|---|--------|--|--|--|
|                                 |       |       | Matrix : Groundwater                         |   |   |        |  |  |  |
|                                 |       |       | Sampling Date : 2026-07-09                   |   |   |        |  |  |  |
|                                 |       |       | Client Sample Identification : 11 Poplarwood |   |   |        |  |  |  |
| General Chemistry               | RL    | Unit  | Criteria                                     |   |   |        |  |  |  |
|                                 |       |       | A                                            | B | C |        |  |  |  |
| Alkalinity (as CaCO3)           | 5     | mg/L  | 500                                          |   |   | 341    |  |  |  |
| Colour (Apparent)               | 2     | TCU   | 5                                            |   |   | 16     |  |  |  |
| Colour (True)                   | 2     | TCU   |                                              |   |   | <2     |  |  |  |
| Conductivity @ 25°C             | 5     | µS/cm |                                              |   |   | 1390   |  |  |  |
| Dissolved Organic Carbon        | 0.5   | mg/L  | 5                                            |   |   | 1.4    |  |  |  |
| Fluoride                        | 0.1   | mg/L  | 1.5                                          |   |   | 1.10   |  |  |  |
| Hardness as CaCO3 (Calculation) | 1     | mg/L  | 80-100                                       |   |   | 152    |  |  |  |
| pH @ 25°C                       | 1     |       | 6.5-8.5                                      |   |   | 7.60   |  |  |  |
| Phenols-4AAP                    | 0.001 | mg/L  |                                              |   |   | <0.001 |  |  |  |
| Sulphide (S2-)                  | 0.01  | mg/L  | 0.05                                         |   |   | <0.01  |  |  |  |
| Tannin and Lignin               | 0.1   | mg/L  |                                              |   |   | <0.1   |  |  |  |
| TDS (Estimated)^                | 5     | mg/L  | 500                                          |   |   | 904    |  |  |  |
| Turbidity                       | 0.1   | NTU   | 5                                            |   |   | 0.4    |  |  |  |

## OFFICIAL CERTIFICATE OF ANALYSIS - RESULTS

Client : Paterson Group  
Project : PH5222

Reception Date: 2026-07-10

|                                |        |      |          |   |   |                  |  |  |  |  |
|--------------------------------|--------|------|----------|---|---|------------------|--|--|--|--|
| Eurofins Sample No :           |        |      |          |   |   | 9869191          |  |  |  |  |
| Matrix :                       |        |      |          |   |   | Groundwater      |  |  |  |  |
| Sampling Date :                |        |      |          |   |   | 2026-07-09       |  |  |  |  |
| Client Sample Identification : |        |      |          |   |   | 11<br>Poplarwood |  |  |  |  |
| Metals                         | RL     | Unit | Criteria |   |   |                  |  |  |  |  |
|                                |        |      | A        | B | C |                  |  |  |  |  |
| Metals Scan (Water, ICP/MS)    |        |      |          |   |   |                  |  |  |  |  |
| Aluminum                       | 0.01   | mg/L | 0.1      |   |   | <0.01            |  |  |  |  |
| Antimony                       | 0.0005 | mg/L | 0.006    |   |   | <0.0005          |  |  |  |  |
| Arsenic                        | 0.001  | mg/L | 0.01     |   |   | <0.001           |  |  |  |  |
| Barium                         | 0.001  | mg/L | 1        |   |   | 0.026            |  |  |  |  |
| Beryllium                      | 0.0005 | mg/L |          |   |   | <0.0005          |  |  |  |  |
| Boron                          | 0.01   | mg/L | 5        |   |   | 0.99             |  |  |  |  |
| Cadmium                        | 0.0001 | mg/L | 0.005    |   |   | <0.0001          |  |  |  |  |
| Chromium                       | 0.001  | mg/L | 0.05     |   |   | <0.001           |  |  |  |  |
| Cobalt                         | 0.0002 | mg/L |          |   |   | <0.0002          |  |  |  |  |
| Copper                         | 0.001  | mg/L | 1        |   |   | 0.003            |  |  |  |  |
| Iron                           | 0.03   | mg/L | 0.3      |   |   | 0.03             |  |  |  |  |
| Lead                           | 0.001  | mg/L | 0.01     |   |   | <0.001           |  |  |  |  |
| Manganese                      | 0.01   | mg/L | 0.05     |   |   | <0.01            |  |  |  |  |
| Mercury                        | 0.0001 | mg/L | 0.001    |   |   | <0.0001          |  |  |  |  |
| Molybdenum                     | 0.005  | mg/L |          |   |   | <0.005           |  |  |  |  |
| Nickel                         | 0.005  | mg/L |          |   |   | <0.005           |  |  |  |  |
| Selenium                       | 0.001  | mg/L | 0.05     |   |   | <0.001           |  |  |  |  |
| Silver                         | 0.0001 | mg/L |          |   |   | <0.0001          |  |  |  |  |
| Strontium                      | 0.001  | mg/L |          |   |   | 7.19             |  |  |  |  |
| Thallium                       | 0.0001 | mg/L |          |   |   | <0.0001          |  |  |  |  |
| Uranium                        | 0.001  | mg/L | 0.02     |   |   | <0.001           |  |  |  |  |
| Vanadium                       | 0.001  | mg/L |          |   |   | <0.001           |  |  |  |  |
| Zinc                           | 0.01   | mg/L | 5        |   |   | <0.01            |  |  |  |  |
| Metals Scan (Water, ICP/OES)   |        |      |          |   |   |                  |  |  |  |  |
| Calcium                        | 1      | mg/L |          |   |   | 36               |  |  |  |  |
| Magnesium                      | 1      | mg/L |          |   |   | 15               |  |  |  |  |
| Potassium                      | 1      | mg/L |          |   |   | 5                |  |  |  |  |
| Sodium                         | 1      | mg/L | 200      |   |   | 265              |  |  |  |  |

|                                |    |           |          |   |   |                  |  |  |  |  |
|--------------------------------|----|-----------|----------|---|---|------------------|--|--|--|--|
| Eurofins Sample No :           |    |           |          |   |   | 9869191          |  |  |  |  |
| Matrix :                       |    |           |          |   |   | Groundwater      |  |  |  |  |
| Sampling Date :                |    |           |          |   |   | 2026-07-09       |  |  |  |  |
| Client Sample Identification : |    |           |          |   |   | 11<br>Poplarwood |  |  |  |  |
| Microbiology                   | RL | Unit      | Criteria |   |   |                  |  |  |  |  |
|                                |    |           | A        | B | C |                  |  |  |  |  |
| Escherichia coli (DC)          | 0  | CFU/100mL | 0        |   |   | 0                |  |  |  |  |
| Total Coliforms (DC)           | 0  | CFU/100mL | 0        |   |   | 0                |  |  |  |  |

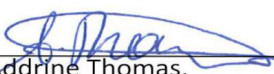
## OFFICIAL CERTIFICATE OF ANALYSIS - RESULTS

Client : Paterson Group  
Project : PH5222

Reception Date: 2026-07-10

|                              |      |      | Eurofins Sample No : <b>9869191</b> |   |   |       |  |  |  |
|------------------------------|------|------|-------------------------------------|---|---|-------|--|--|--|
|                              |      |      | Matrix : Groundwater                |   |   |       |  |  |  |
|                              |      |      | Sampling Date : 2026-07-09          |   |   |       |  |  |  |
|                              |      |      | Client Sample Identification : 11   |   |   |       |  |  |  |
|                              |      |      | Poplarwood                          |   |   |       |  |  |  |
| Nutrients                    | RL   | Unit | Criteria                            |   |   |       |  |  |  |
|                              |      |      | A                                   | B | C |       |  |  |  |
| Ammonia (Total, as Nitrogen) | 0.02 | mg/L |                                     |   |   | 0.165 |  |  |  |
| Nitrate (as Nitrogen)        | 0.1  | mg/L | 10.0                                |   |   | <0.5  |  |  |  |
| Nitrite (as Nitrogen)        | 0.1  | mg/L | 1.0                                 |   |   | <0.5  |  |  |  |
| Total Kjeldahl Nitrogen      | 0.1  | mg/L |                                     |   |   | 0.211 |  |  |  |

Approved by :

  
Addrine Thomas,  
Chemistry Manager, Ottawa

Approved by :

  
Emma-Dawn Ferguson, M.Sc.  
Environmental Chemist

## OFFICIAL CERTIFICATE OF ANALYSIS - QUALITY CONTROL

Client : Paterson Group

Project : PH5222

Reception Date: 2026-07-10

| Parameter                                                                                        | Unit      | RL   | Blank  | QC         |         | Matrix Spike |         | Duplicate                                          |         |
|--------------------------------------------------------------------------------------------------|-----------|------|--------|------------|---------|--------------|---------|----------------------------------------------------|---------|
|                                                                                                  |           |      |        | Recovery % | Range % | Recovery %   | Range % | RPD %                                              | Range % |
| Ammonia, Total (Water, Colorimetry)                                                              |           |      |        |            |         |              |         |                                                    |         |
| Method : Ammonia (Water, Colorimetry). Internal method: OTT-I-NUT-WI46201.                       |           |      |        |            |         |              |         |                                                    |         |
| Ammonia (Total, as Nitrogen)                                                                     | mg/L      | 0.02 | <0.020 | 97         | 80-120  | 103          | 80-120  | -                                                  | 0-20    |
| Associated Samples : 9869191                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-14<br>Analysis Date: 2026-07-14 |         |
| Chloride (Water, IC)                                                                             |           |      |        |            |         |              |         |                                                    |         |
| Method : Anions (Water, Ion Chromatography). Internal method: OTT-I-IC-WI45985.                  |           |      |        |            |         |              |         |                                                    |         |
| Chloride                                                                                         | mg/L      | 0.5  | <0.5   | 95         | 80-120  | 109          | 80-120  | 2                                                  | 0-20    |
| Associated Samples : 9869191                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-13<br>Analysis Date: 2026-07-14 |         |
| Colour, Apparent (Water, Spectrophotometry)                                                      |           |      |        |            |         |              |         |                                                    |         |
| Method : Colour (Water, Spectrophotometric). Internal method: OTT-I-SPEC-WI45980.                |           |      |        |            |         |              |         |                                                    |         |
| Colour (Apparent)                                                                                | TCU       | 2    | <2     | 102        | 78-116  |              |         | 4                                                  | 0-40    |
| Associated Samples : 9869191                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-14<br>Analysis Date: 2026-07-15 |         |
| Colour, True (Water, Spectrophotometry)                                                          |           |      |        |            |         |              |         |                                                    |         |
| Method : Colour (Water, Spectrophotometric). Internal method: OTT-I-SPEC-WI45980.                |           |      |        |            |         |              |         |                                                    |         |
| Colour (True)                                                                                    | TCU       | 2    | <2     | 102        | 78-116  |              |         | -                                                  | 0-40    |
| Associated Samples : 9869191                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-14<br>Analysis Date: 2026-07-15 |         |
| DOC (Water, IR)                                                                                  |           |      |        |            |         |              |         |                                                    |         |
| Method : Organic carbon (water, IR, combustion). Internal method: OTT-I-DEM-WI46148.             |           |      |        |            |         |              |         |                                                    |         |
| Dissolved Organic Carbon                                                                         | mg/L      | 0.5  | <0.5   | 98         | 88-112  | 96           | 85-115  | 7                                                  | 0-15    |
| Associated Samples : 9869191                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-13<br>Analysis Date: 2026-07-14 |         |
| Escherichia coli (DC Plate)                                                                      |           |      |        |            |         |              |         |                                                    |         |
| Method : Total Coliforms and E.Coli by MF (Water, DC plate). Internal method: OTT-M-BAC-WI45296. |           |      |        |            |         |              |         |                                                    |         |
| Escherichia coli (DC)                                                                            | CFU/100mL | 0    | 0      |            |         |              |         | -                                                  | 0-30    |
| Associated Samples : 9869191                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-10<br>Analysis Date: 2026-07-11 |         |
| Fluoride (Water, Auto/ISE)                                                                       |           |      |        |            |         |              |         |                                                    |         |
| Method : Fluoride by autotitrator, ion selective electrode. Internal method: OTT-I-AT-WI45398.   |           |      |        |            |         |              |         |                                                    |         |
| Fluoride                                                                                         | mg/L      | 0.1  | <0.10  | 104        | 90-110  | 102          | 80-120  | 0                                                  | 0-20    |
| Associated Samples : 9869191                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-10<br>Analysis Date: 2026-07-13 |         |

## OFFICIAL CERTIFICATE OF ANALYSIS - QUALITY CONTROL

Client : Paterson Group

Project : PH5222

Reception Date: 2026-07-10

| Parameter                                                                       | Unit | RL     | Blank   | QC         |         | Matrix Spike |         | Duplicate                                          |         |
|---------------------------------------------------------------------------------|------|--------|---------|------------|---------|--------------|---------|----------------------------------------------------|---------|
|                                                                                 |      |        |         | Recovery % | Range % | Recovery %   | Range % | RPD %                                              | Range % |
| Metals Scan (Water, ICP/MS)                                                     |      |        |         |            |         |              |         |                                                    |         |
| Method : Metals (Water, ICP/MS). Internal method: AMMTFQE1.                     |      |        |         |            |         |              |         |                                                    |         |
| Aluminum                                                                        | mg/L | 0.01   | <0.01   | 100        | 80-120  | 112          | 70-130  | -                                                  | 0-20    |
| Antimony                                                                        | mg/L | 0.0005 | <0.0005 | 83         | 80-120  | 110          | 70-130  | -                                                  | 0-20    |
| Arsenic                                                                         | mg/L | 0.001  | <0.001  | 99         | 80-120  | 102          | 70-130  | -                                                  | 0-20    |
| Barium                                                                          | mg/L | 0.001  | <0.001  | 100        | 80-120  | 103          | 70-130  | 0                                                  | 0-20    |
| Beryllium                                                                       | mg/L | 0.0005 | <0.0005 | 108        | 80-120  | 111          | 70-130  | -                                                  | 0-20    |
| Boron                                                                           | mg/L | 0.01   | <0.01   | 100        | 80-120  | 104          | 70-130  | -                                                  | 0-20    |
| Cadmium                                                                         | mg/L | 0.0001 | <0.0001 | 101        | 80-120  | 103          | 70-130  | -                                                  | 0-20    |
| Chromium                                                                        | mg/L | 0.001  | <0.001  | 110        | 80-120  | 101          | 70-130  | -                                                  | 0-20    |
| Cobalt                                                                          | mg/L | 0.0002 | <0.0002 | 104        | 80-120  | 94           | 70-130  | -                                                  | 0-20    |
| Copper                                                                          | mg/L | 0.001  | <0.001  | 110        | 80-120  | 92           | 70-130  | -                                                  | 0-20    |
| Iron                                                                            | mg/L | 0.03   | <0.03   | 100        | 80-120  | 96           | 70-130  | -                                                  | 0-20    |
| Lead                                                                            | mg/L | 0.001  | <0.001  | 100        | 80-120  | 90           | 70-130  | -                                                  | 0-20    |
| Manganese                                                                       | mg/L | 0.01   | <0.01   | 100        | 80-120  | 99           | 70-130  | -                                                  | 0-20    |
| Mercury                                                                         | mg/L | 0.0001 | <0.0001 | 91         | 80-120  | 80           | 70-130  | -                                                  | 0-20    |
| Molybdenum                                                                      | mg/L | 0.005  | <0.005  | 100        | 80-120  | 97           | 70-130  | -                                                  | 0-20    |
| Nickel                                                                          | mg/L | 0.005  | <0.005  | 110        | 80-120  | 96           | 70-130  | -                                                  | 0-20    |
| Selenium                                                                        | mg/L | 0.001  | <0.001  | 99         | 80-120  | 103          | 70-130  | -                                                  | 0-20    |
| Silver                                                                          | mg/L | 0.0001 | <0.0001 | 107        | 80-120  | 89           | 70-130  | -                                                  | 0-20    |
| Strontium                                                                       | mg/L | 0.001  | <0.001  | 100        | 80-120  | 100          | 70-130  | 1                                                  | 0-20    |
| Thallium                                                                        | mg/L | 0.0001 | <0.0001 | 101        | 80-120  | 90           | 70-130  | -                                                  | 0-20    |
| Uranium                                                                         | mg/L | 0.001  | <0.001  | 100        | 80-120  | 90           | 70-130  | -                                                  | 0-20    |
| Vanadium                                                                        | mg/L | 0.001  | <0.001  | 100        | 80-120  | 103          | 70-130  | -                                                  | 0-20    |
| Zinc                                                                            | mg/L | 0.01   | <0.01   | 110        | 80-120  | 100          | 70-130  | -                                                  | 0-20    |
| Associated Samples : 9869191                                                    |      |        |         |            |         |              |         | Prep Date: 2026-07-13<br>Analysis Date: 2026-07-13 |         |
| Metals Scan (Water, ICP/OES)                                                    |      |        |         |            |         |              |         |                                                    |         |
| Method : Metals (Water, ICP/OES). Internal method: OTT-I-MET-WI48491.           |      |        |         |            |         |              |         |                                                    |         |
| Calcium                                                                         | mg/L | 1      | <1      | 100        | 70-130  | 97           | 70-130  | 0                                                  | 0-20    |
| Magnesium                                                                       | mg/L | 1      | <1      | 101        | 70-130  | 106          | 70-130  | 0                                                  | 0-20    |
| Potassium                                                                       | mg/L | 1      | <1      | 99         | 70-130  | 103          | 70-130  | -                                                  | 0-20    |
| Sodium                                                                          | mg/L | 1      | <1      | 101        | 70-130  | 102          | 70-130  | 0                                                  | 0-20    |
| Associated Samples : 9869191                                                    |      |        |         |            |         |              |         | Prep Date: 2026-07-15<br>Analysis Date: 2026-07-10 |         |
| Nitrate (Water, IC)                                                             |      |        |         |            |         |              |         |                                                    |         |
| Method : Anions (Water, Ion Chromatography). Internal method: OTT-I-IC-WI45985. |      |        |         |            |         |              |         |                                                    |         |
| Nitrate (as Nitrogen)                                                           | mg/L | 0.1    | <0.1    | 100        | 80-120  | 101          | 80-120  | 3                                                  | 0-20    |
| Associated Samples : 9869191                                                    |      |        |         |            |         |              |         | Prep Date: 2026-07-13<br>Analysis Date: 2026-07-14 |         |
| Nitrite (Water, IC)                                                             |      |        |         |            |         |              |         |                                                    |         |
| Method : Anions (Water, Ion Chromatography). Internal method: OTT-I-IC-WI45985. |      |        |         |            |         |              |         |                                                    |         |
| Nitrite (as Nitrogen)                                                           | mg/L | 0.1    | <0.1    | 99         | 80-120  | 103          | 80-120  | -                                                  | 0-20    |
| Associated Samples : 9869191                                                    |      |        |         |            |         |              |         | Prep Date: 2026-07-13<br>Analysis Date: 2026-07-14 |         |
| Phenols (Water, Colorimetry)                                                    |      |        |         |            |         |              |         |                                                    |         |
| Method : Phenols (Water, Colorimetry). Internal method: OTT-I-4AAP-WI46150.     |      |        |         |            |         |              |         |                                                    |         |
| Phenols-4AAP                                                                    | mg/L | 0.001  | <0.001  | 101        | 75-125  | 78           | 70-130  | 4                                                  | 0-20    |
| Associated Samples : 9869191                                                    |      |        |         |            |         |              |         | Prep Date: 2026-07-13<br>Analysis Date: 2026-07-13 |         |

## OFFICIAL CERTIFICATE OF ANALYSIS - QUALITY CONTROL

Client : Paterson Group

Project : PH5222

Reception Date: 2026-07-10

| Parameter                                                                                        | Unit      | RL   | Blank  | QC         |         | Matrix Spike |         | Duplicate                                          |         |
|--------------------------------------------------------------------------------------------------|-----------|------|--------|------------|---------|--------------|---------|----------------------------------------------------|---------|
|                                                                                                  |           |      |        | Recovery % | Range % | Recovery %   | Range % | RPD %                                              | Range % |
| Sulphate (Water, IC)                                                                             |           |      |        |            |         |              |         |                                                    |         |
| Method : Anions (Water, Ion Chromatography). Internal method: OTT-I-IC-WI45985.                  |           |      |        |            |         |              |         |                                                    |         |
| Sulphate                                                                                         | mg/L      | 1    | <1     | 101        | 90-110  | 108          | 80-120  | 0                                                  | 0-20    |
| Associated Samples : 9869191                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-13<br>Analysis Date: 2026-07-14 |         |
| Sulphide (Water, Colorimetry)                                                                    |           |      |        |            |         |              |         |                                                    |         |
| Method : Sulphide, S2- (Water, Colorimetry). Internal method: OTT-I-SPEC-WI45931.                |           |      |        |            |         |              |         |                                                    |         |
| Sulphide (S2-)                                                                                   | mg/L      | 0.01 | <0.01  | 66         | 48-131  |              |         | -                                                  | 0-20    |
| Associated Samples : 9869191                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-14<br>Analysis Date: 2026-07-14 |         |
| Tannin and Lignin (Water, Spec)                                                                  |           |      |        |            |         |              |         |                                                    |         |
| Method : Tannin and Lignin (Water, Spec), Internal method: OTT-I-SPEC-WI57693.                   |           |      |        |            |         |              |         |                                                    |         |
| Tannin and Lignin                                                                                | mg/L      | 0.1  | <0.1   | 100        | 80-120  |              |         | -                                                  | 0-20    |
| Associated Samples : 9869191                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-14<br>Analysis Date: 2026-07-14 |         |
| Total Coliforms (DC Plate)                                                                       |           |      |        |            |         |              |         |                                                    |         |
| Method : Total Coliforms and E.Coli by MF (Water, DC plate). Internal method: OTT-M-BAC-WI45296. |           |      |        |            |         |              |         |                                                    |         |
| Total Coliforms (DC)                                                                             | CFU/100mL | 0    | 0      |            |         |              |         | -                                                  | 0-30    |
| Associated Samples : 9869191                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-10<br>Analysis Date: 2026-07-11 |         |
| Total Kjeldahl Nitrogen (Water, Colorimetry)                                                     |           |      |        |            |         |              |         |                                                    |         |
| Method : TKN (Water, colorimetry). Internal method: OTT-I-NUT-WI46201.                           |           |      |        |            |         |              |         |                                                    |         |
| Total Kjeldahl Nitrogen                                                                          | mg/L      | 0.1  | <0.100 | 101        | 70-130  | 106          | 70-130  | -                                                  | 0-20    |
| Associated Samples : 9869191                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-13<br>Analysis Date: 2026-07-14 |         |
| Turbidity (Water, Turbidimeter)                                                                  |           |      |        |            |         |              |         |                                                    |         |
| Method : Turbidity (Water, Turbidimeter). Internal method: OTT-I-TUR-WI46288.                    |           |      |        |            |         |              |         |                                                    |         |
| Turbidity                                                                                        | NTU       | 0.1  | <0.1   | 95         | 80-120  |              |         | -                                                  | 0-30    |
| Associated Samples : 9869191                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-10<br>Analysis Date: 2026-07-10 |         |

Where RPD % is reported as "-" the calculation is not available because one or both of the duplicates is within 5 times the RL.



**OFFICIAL CERTIFICATE OF ANALYSIS : 4758530**
**WORK REQUEST : 100449557**
**Report Date : 2026-07-16**
**Paterson Group**

9 Auriga Drive  
Ottawa, Ontario  
K2J 5Z9  
Attention : Zavian Buchanan

Reception Date : 2026-07-10

Project : PH5222

Sampler : NA

PO Number : 66409

Temperature : 10 °C

| Analysis                                     | Quantity | External Method                        |
|----------------------------------------------|----------|----------------------------------------|
| Alkalinity (Water, Automated)                | 1        | Modified from SM 2320 B                |
| Ammonia, Total (Water, Colorimetry)          | 1        | Modified from EPA 350.1                |
| Chloride (Water, IC)                         | 1        | Modified from SM 4110 B and C          |
| Colour, Apparent (Water, Spectrophotometry)  | 1        | Modified from SM 2120 C                |
| Colour, True (Water, Spectrophotometry)      | 1        | Modified from SM 2120 C                |
| Conductivity (Water, Automated)              | 1        | Modified from SM 2510 B                |
| DOC (Water, IR)                              | 1        | Modified from SM 5310 B                |
| Escherichia coli (DC Plate)                  | 1        | Modified from MECP E3407               |
| Fluoride (Water, Auto/ISE)                   | 1        | Modified from SM 4500-F A and 4500-F C |
| Hardness (Water, Calculation Only)           | 1        | SM 2340 B                              |
| Ion Balance (Water, Calculation)             | 1        | Modified from SM1030 E                 |
| Metals Scan (Water, ICP/MS)                  | 1        | Modified from EPA 200.8                |
| Metals Scan (Water, ICP/OES)                 | 1        | Modified from SM 3120 B                |
| Nitrate (Water, IC)                          | 1        | Modified from SM 4110 B and C          |
| Nitrite (Water, IC)                          | 1        | Modified from SM 4110 B and C          |
| pH (25°C) (Water, Automated)                 | 1        | Modified from SM 4500-H+ B             |
| Phenols (Water, Colorimetry)                 | 1        | Modified from EPA 420.2                |
| Sulphate (Water, IC)                         | 1        | Modified from SM 4110 B and C          |
| Sulphide (Water, Colorimetry)                | 1        | Modified from SM 4500-S2 D             |
| Tannin and Lignin (Water, Spec)              | 1        | Modified from SM 5550 B                |
| TDS (Estimated)                              | 1        | Modified from SM 2510 A                |
| Total Coliforms (DC Plate)                   | 1        | Modified from MECP E3407               |
| Total Kjeldahl Nitrogen (Water, Colorimetry) | 1        | Modified from EPA 351.2                |
| Turbidity (Water, Turbidimeter)              | 1        | Modified from SM 2130 B                |

**Criteria :**
**A :** Ontario Regulation 169/03 (Non-Regulated Drinking Water)

**Sample status upon receipt :**

9869221

**Compliant**
**Certificate Comments :**

9869221

**N-NO2 and N-NO3 MRLs increased due to matrix interference. B analyzed on July 14, 2026.**
**Notes :**

- All analysis is completed at Eurofins Environment Testing Canada Inc. (Ottawa, Ontario) unless otherwise stated.
- Eurofins Environment Testing Canada Inc. is accredited by CALA, Canadian Association for Laboratory Accreditation to ISO/IEC 17025 for tests which appear on the scope of accreditation. The scope is available at <https://directory.cala.ca/>
- Please note: Field data, where presented on the report, has been provided by the client and is presented for informational purposes only. Guideline or regulatory limits listed on this report are provided for ease of use (informational purposes) only. Eurofins recommends consulting the official guideline or regulation as required. Unless otherwise stated, measurement uncertainty is not taken into account when determining guideline or regulatory exceedances.

**Legend :**

RL : Reporting limit

QC : Reference material (QC)

N/A : Not applicable

1 : Results in annex

\* : Analysis conducted by external subcontracting

^ : Analysis not accredited

## OFFICIAL CERTIFICATE OF ANALYSIS - EXCEEDENCE SUMMARY

Client : Paterson Group  
Project : PH5222

Reception Date : 2026-07-10

| Eurofins<br>Sample No              | Client Sample<br>Identification | Analyte                         | Result | Units | Exceeded Criteria |   |   |
|------------------------------------|---------------------------------|---------------------------------|--------|-------|-------------------|---|---|
|                                    |                                 |                                 |        |       | A                 | B | C |
| Hardness (Water, Calculation Only) |                                 |                                 |        |       |                   |   |   |
| 9869221                            | 13 Poplarwood                   | Hardness as CaCO3 (Calculation) | 106    | mg/L  | 80-100            |   |   |
| Metals Scan (Water, ICP/OES)       |                                 |                                 |        |       |                   |   |   |
| 9869221                            | 13 Poplarwood                   | Sodium                          | 291    | mg/L  | 200               |   |   |
| TDS (Estimated)                    |                                 |                                 |        |       |                   |   |   |
| 9869221                            | 13 Poplarwood                   | TDS (Estimated)^                | 923    | mg/L  | 500               |   |   |

## OFFICIAL CERTIFICATE OF ANALYSIS - RESULTS

Client : Paterson Group  
Project : PH5222

Reception Date: 2026-07-10

|          |     |      | Eurofins Sample No : <b>9869221</b>          |   |   |     |  |  |  |
|----------|-----|------|----------------------------------------------|---|---|-----|--|--|--|
|          |     |      | Matrix : Groundwater                         |   |   |     |  |  |  |
|          |     |      | Sampling Date : 2026-07-09                   |   |   |     |  |  |  |
|          |     |      | Client Sample Identification : 13 Poplarwood |   |   |     |  |  |  |
| Anions   | RL  | Unit | Criteria                                     |   |   |     |  |  |  |
|          |     |      | A                                            | B | C |     |  |  |  |
| Chloride | 0.5 | mg/L | 250                                          |   |   | 184 |  |  |  |
| Sulphate | 1   | mg/L | 500                                          |   |   | 125 |  |  |  |

|                            |     |      | Eurofins Sample No : <b>9869221</b>          |  |  |  |  |  |  |
|----------------------------|-----|------|----------------------------------------------|--|--|--|--|--|--|
|                            |     |      | Matrix : Groundwater                         |  |  |  |  |  |  |
|                            |     |      | Sampling Date : 2026-07-09                   |  |  |  |  |  |  |
|                            |     |      | Client Sample Identification : 13 Poplarwood |  |  |  |  |  |  |
| Calculations               | RL  | Unit |                                              |  |  |  |  |  |  |
| Ion Balance (Calculation)^ | 0.1 |      | 1.02                                         |  |  |  |  |  |  |

|                                 |       |       | Eurofins Sample No : <b>9869221</b>          |   |   |        |  |  |  |
|---------------------------------|-------|-------|----------------------------------------------|---|---|--------|--|--|--|
|                                 |       |       | Matrix : Groundwater                         |   |   |        |  |  |  |
|                                 |       |       | Sampling Date : 2026-07-09                   |   |   |        |  |  |  |
|                                 |       |       | Client Sample Identification : 13 Poplarwood |   |   |        |  |  |  |
| General Chemistry               | RL    | Unit  | Criteria                                     |   |   |        |  |  |  |
|                                 |       |       | A                                            | B | C |        |  |  |  |
| Alkalinity (as CaCO3)           | 5     | mg/L  | 500                                          |   |   | 340    |  |  |  |
| Colour (Apparent)               | 2     | TCU   | 5                                            |   |   | 2      |  |  |  |
| Colour (True)                   | 2     | TCU   |                                              |   |   | <2     |  |  |  |
| Conductivity @ 25°C             | 5     | µS/cm |                                              |   |   | 1420   |  |  |  |
| Dissolved Organic Carbon        | 0.5   | mg/L  | 5                                            |   |   | 1.5    |  |  |  |
| Fluoride                        | 0.1   | mg/L  | 1.5                                          |   |   | 1.39   |  |  |  |
| Hardness as CaCO3 (Calculation) | 1     | mg/L  | 80-100                                       |   |   | 106    |  |  |  |
| pH @ 25°C                       | 1     |       | 6.5-8.5                                      |   |   | 7.91   |  |  |  |
| Phenols-4AAP                    | 0.001 | mg/L  |                                              |   |   | <0.001 |  |  |  |
| Sulphide (S2-)                  | 0.01  | mg/L  | 0.05                                         |   |   | <0.01  |  |  |  |
| Tannin and Lignin               | 0.1   | mg/L  |                                              |   |   | <0.1   |  |  |  |
| TDS (Estimated)^                | 5     | mg/L  | 500                                          |   |   | 923    |  |  |  |
| Turbidity                       | 0.1   | NTU   | 5                                            |   |   | 0.4    |  |  |  |

## OFFICIAL CERTIFICATE OF ANALYSIS - RESULTS

Client : Paterson Group  
Project : PH5222

Reception Date: 2026-07-10

|                                |  |        |      |          |                  |   |         |  |  |  |  |  |  |
|--------------------------------|--|--------|------|----------|------------------|---|---------|--|--|--|--|--|--|
| Eurofins Sample No :           |  |        |      |          | 9869221          |   |         |  |  |  |  |  |  |
| Matrix :                       |  |        |      |          | Groundwater      |   |         |  |  |  |  |  |  |
| Sampling Date :                |  |        |      |          | 2026-07-09       |   |         |  |  |  |  |  |  |
| Client Sample Identification : |  |        |      |          | 13<br>Poplarwood |   |         |  |  |  |  |  |  |
| Metals                         |  | RL     | Unit | Criteria |                  |   |         |  |  |  |  |  |  |
|                                |  |        |      | A        | B                | C |         |  |  |  |  |  |  |
| Metals Scan (Water, ICP/MS)    |  |        |      |          |                  |   |         |  |  |  |  |  |  |
| Aluminum                       |  | 0.01   | mg/L | 0.1      |                  |   | <0.01   |  |  |  |  |  |  |
| Antimony                       |  | 0.0005 | mg/L | 0.006    |                  |   | <0.0005 |  |  |  |  |  |  |
| Arsenic                        |  | 0.001  | mg/L | 0.01     |                  |   | <0.001  |  |  |  |  |  |  |
| Barium                         |  | 0.001  | mg/L | 1        |                  |   | 0.015   |  |  |  |  |  |  |
| Beryllium                      |  | 0.0005 | mg/L |          |                  |   | <0.0005 |  |  |  |  |  |  |
| Boron                          |  | 0.01   | mg/L | 5        |                  |   | 1.18    |  |  |  |  |  |  |
| Cadmium                        |  | 0.0001 | mg/L | 0.005    |                  |   | <0.0001 |  |  |  |  |  |  |
| Chromium                       |  | 0.001  | mg/L | 0.05     |                  |   | <0.001  |  |  |  |  |  |  |
| Cobalt                         |  | 0.0002 | mg/L |          |                  |   | <0.0002 |  |  |  |  |  |  |
| Copper                         |  | 0.001  | mg/L | 1        |                  |   | 0.001   |  |  |  |  |  |  |
| Iron                           |  | 0.03   | mg/L | 0.3      |                  |   | <0.03   |  |  |  |  |  |  |
| Lead                           |  | 0.001  | mg/L | 0.01     |                  |   | <0.001  |  |  |  |  |  |  |
| Manganese                      |  | 0.01   | mg/L | 0.05     |                  |   | <0.01   |  |  |  |  |  |  |
| Mercury                        |  | 0.0001 | mg/L | 0.001    |                  |   | <0.0001 |  |  |  |  |  |  |
| Molybdenum                     |  | 0.005  | mg/L |          |                  |   | <0.005  |  |  |  |  |  |  |
| Nickel                         |  | 0.005  | mg/L |          |                  |   | <0.005  |  |  |  |  |  |  |
| Selenium                       |  | 0.001  | mg/L | 0.05     |                  |   | <0.001  |  |  |  |  |  |  |
| Silver                         |  | 0.0001 | mg/L |          |                  |   | <0.0001 |  |  |  |  |  |  |
| Strontium                      |  | 0.001  | mg/L |          |                  |   | 4.54    |  |  |  |  |  |  |
| Thallium                       |  | 0.0001 | mg/L |          |                  |   | <0.0001 |  |  |  |  |  |  |
| Uranium                        |  | 0.001  | mg/L | 0.02     |                  |   | <0.001  |  |  |  |  |  |  |
| Vanadium                       |  | 0.001  | mg/L |          |                  |   | <0.001  |  |  |  |  |  |  |
| Zinc                           |  | 0.01   | mg/L | 5        |                  |   | <0.01   |  |  |  |  |  |  |
| Metals Scan (Water, ICP/OES)   |  |        |      |          |                  |   |         |  |  |  |  |  |  |
| Calcium                        |  | 1      | mg/L |          |                  |   | 26      |  |  |  |  |  |  |
| Magnesium                      |  | 1      | mg/L |          |                  |   | 10      |  |  |  |  |  |  |
| Potassium                      |  | 1      | mg/L |          |                  |   | 4       |  |  |  |  |  |  |
| Sodium                         |  | 1      | mg/L | 200      |                  |   | 291     |  |  |  |  |  |  |

|                       |    |           | Eurofins Sample No : <b>9869221</b>          |   |   |   |  |  |  |
|-----------------------|----|-----------|----------------------------------------------|---|---|---|--|--|--|
|                       |    |           | Matrix : Groundwater                         |   |   |   |  |  |  |
|                       |    |           | Sampling Date : 2026-07-09                   |   |   |   |  |  |  |
|                       |    |           | Client Sample Identification : 13 Poplarwood |   |   |   |  |  |  |
| Microbiology          | RL | Unit      | Criteria                                     |   |   |   |  |  |  |
|                       |    |           | A                                            | B | C |   |  |  |  |
| Escherichia coli (DC) | 0  | CFU/100mL | 0                                            |   |   | 0 |  |  |  |
| Total Coliforms (DC)  | 0  | CFU/100mL | 0                                            |   |   | 0 |  |  |  |

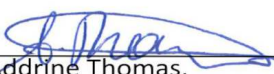
## OFFICIAL CERTIFICATE OF ANALYSIS - RESULTS

Client : Paterson Group  
Project : PH5222

Reception Date: 2026-07-10

|                              |      |      | Eurofins Sample No : <b>9869221</b>          |   |   |       |  |  |  |
|------------------------------|------|------|----------------------------------------------|---|---|-------|--|--|--|
|                              |      |      | Matrix : Groundwater                         |   |   |       |  |  |  |
|                              |      |      | Sampling Date : 2026-07-09                   |   |   |       |  |  |  |
|                              |      |      | Client Sample Identification : 13 Poplarwood |   |   |       |  |  |  |
| Nutrients                    | RL   | Unit | Criteria                                     |   |   |       |  |  |  |
|                              |      |      | A                                            | B | C |       |  |  |  |
| Ammonia (Total, as Nitrogen) | 0.02 | mg/L |                                              |   |   | 0.151 |  |  |  |
| Nitrate (as Nitrogen)        | 0.1  | mg/L | 10.0                                         |   |   | <0.5  |  |  |  |
| Nitrite (as Nitrogen)        | 0.1  | mg/L | 1.0                                          |   |   | <0.5  |  |  |  |
| Total Kjeldahl Nitrogen      | 0.1  | mg/L |                                              |   |   | 0.216 |  |  |  |

Approved by :

  
Addrine Thomas,  
Chemistry Manager, Ottawa

Approved by :

  
Emma-Dawn Ferguson, M.Sc.  
Environmental Chemist

## OFFICIAL CERTIFICATE OF ANALYSIS - QUALITY CONTROL

Client : Paterson Group

Project : PH5222

Reception Date: 2026-07-10

| Parameter                                                                                        | Unit      | RL   | Blank  | QC         |         | Matrix Spike |         | Duplicate                                          |         |
|--------------------------------------------------------------------------------------------------|-----------|------|--------|------------|---------|--------------|---------|----------------------------------------------------|---------|
|                                                                                                  |           |      |        | Recovery % | Range % | Recovery %   | Range % | RPD %                                              | Range % |
| Ammonia, Total (Water, Colorimetry)                                                              |           |      |        |            |         |              |         |                                                    |         |
| Method : Ammonia (Water, Colorimetry). Internal method: OTT-I-NUT-WI46201.                       |           |      |        |            |         |              |         |                                                    |         |
| Ammonia (Total, as Nitrogen)                                                                     | mg/L      | 0.02 | <0.020 | 97         | 80-120  | 103          | 80-120  | -                                                  | 0-20    |
| Associated Samples : 9869221                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-14<br>Analysis Date: 2026-07-14 |         |
| Chloride (Water, IC)                                                                             |           |      |        |            |         |              |         |                                                    |         |
| Method : Anions (Water, Ion Chromatography). Internal method: OTT-I-IC-WI45985.                  |           |      |        |            |         |              |         |                                                    |         |
| Chloride                                                                                         | mg/L      | 0.5  | <0.5   | 95         | 80-120  | 109          | 80-120  |                                                    |         |
| Associated Samples : 9869221                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-13<br>Analysis Date: 2026-07-14 |         |
| Colour, Apparent (Water, Spectrophotometry)                                                      |           |      |        |            |         |              |         |                                                    |         |
| Method : Colour (Water, Spectrophotometric). Internal method: OTT-I-SPEC-WI45980.                |           |      |        |            |         |              |         |                                                    |         |
| Colour (Apparent)                                                                                | TCU       | 2    | <2     | 102        | 78-116  |              |         | 4                                                  | 0-40    |
| Associated Samples : 9869221                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-14<br>Analysis Date: 2026-07-15 |         |
| Colour, True (Water, Spectrophotometry)                                                          |           |      |        |            |         |              |         |                                                    |         |
| Method : Colour (Water, Spectrophotometric). Internal method: OTT-I-SPEC-WI45980.                |           |      |        |            |         |              |         |                                                    |         |
| Colour (True)                                                                                    | TCU       | 2    | <2     | 102        | 78-116  |              |         | -                                                  | 0-40    |
| Associated Samples : 9869221                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-14<br>Analysis Date: 2026-07-15 |         |
| DOC (Water, IR)                                                                                  |           |      |        |            |         |              |         |                                                    |         |
| Method : Organic carbon (water, IR, combustion). Internal method: OTT-I-DEM-WI46148.             |           |      |        |            |         |              |         |                                                    |         |
| Dissolved Organic Carbon                                                                         | mg/L      | 0.5  | <0.5   | 98         | 88-112  | 96           | 85-115  | 7                                                  | 0-15    |
| Associated Samples : 9869221                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-13<br>Analysis Date: 2026-07-14 |         |
| Escherichia coli (DC Plate)                                                                      |           |      |        |            |         |              |         |                                                    |         |
| Method : Total Coliforms and E.Coli by MF (Water, DC plate). Internal method: OTT-M-BAC-WI45296. |           |      |        |            |         |              |         |                                                    |         |
| Escherichia coli (DC)                                                                            | CFU/100mL | 0    | 0      |            |         |              |         | -                                                  | 0-30    |
| Associated Samples : 9869221                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-10<br>Analysis Date: 2026-07-11 |         |
| Fluoride (Water, Auto/ISE)                                                                       |           |      |        |            |         |              |         |                                                    |         |
| Method : Fluoride by autotitrator, ion selective electrode. Internal method: OTT-I-AT-WI45398.   |           |      |        |            |         |              |         |                                                    |         |
| Fluoride                                                                                         | mg/L      | 0.1  | <0.10  | 104        | 90-110  | 102          | 80-120  | 0                                                  | 0-20    |
| Associated Samples : 9869221                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-10<br>Analysis Date: 2026-07-13 |         |

## OFFICIAL CERTIFICATE OF ANALYSIS - QUALITY CONTROL

Client : Paterson Group

Project : PH5222

Reception Date: 2026-07-10

| Parameter                                                                       | Unit | RL     | Blank   | QC         |         | Matrix Spike |         | Duplicate                                          |         |
|---------------------------------------------------------------------------------|------|--------|---------|------------|---------|--------------|---------|----------------------------------------------------|---------|
|                                                                                 |      |        |         | Recovery % | Range % | Recovery %   | Range % | RPD %                                              | Range % |
| Metals Scan (Water, ICP/MS)                                                     |      |        |         |            |         |              |         |                                                    |         |
| Method : Metals (Water, ICP/MS). Internal method: AMMTFQE1.                     |      |        |         |            |         |              |         |                                                    |         |
| Aluminum                                                                        | mg/L | 0.01   | <0.01   | 100        | 80-120  | 112          | 70-130  | -                                                  | 0-20    |
| Antimony                                                                        | mg/L | 0.0005 | <0.0005 | 83         | 80-120  | 110          | 70-130  | -                                                  | 0-20    |
| Arsenic                                                                         | mg/L | 0.001  | <0.001  | 99         | 80-120  | 102          | 70-130  | -                                                  | 0-20    |
| Barium                                                                          | mg/L | 0.001  | <0.001  | 100        | 80-120  | 103          | 70-130  | 0                                                  | 0-20    |
| Beryllium                                                                       | mg/L | 0.0005 | <0.0005 | 108        | 80-120  | 111          | 70-130  | -                                                  | 0-20    |
| Boron                                                                           | mg/L | 0.01   | <0.01   | 100        | 80-120  | 104          | 70-130  | -                                                  | 0-20    |
| Cadmium                                                                         | mg/L | 0.0001 | <0.0001 | 101        | 80-120  | 103          | 70-130  | -                                                  | 0-20    |
| Chromium                                                                        | mg/L | 0.001  | <0.001  | 110        | 80-120  | 101          | 70-130  | -                                                  | 0-20    |
| Cobalt                                                                          | mg/L | 0.0002 | <0.0002 | 104        | 80-120  | 94           | 70-130  | -                                                  | 0-20    |
| Copper                                                                          | mg/L | 0.001  | <0.001  | 110        | 80-120  | 92           | 70-130  | -                                                  | 0-20    |
| Iron                                                                            | mg/L | 0.03   | <0.03   | 100        | 80-120  | 96           | 70-130  | -                                                  | 0-20    |
| Lead                                                                            | mg/L | 0.001  | <0.001  | 100        | 80-120  | 90           | 70-130  | -                                                  | 0-20    |
| Manganese                                                                       | mg/L | 0.01   | <0.01   | 100        | 80-120  | 99           | 70-130  | -                                                  | 0-20    |
| Mercury                                                                         | mg/L | 0.0001 | <0.0001 | 91         | 80-120  | 80           | 70-130  | -                                                  | 0-20    |
| Molybdenum                                                                      | mg/L | 0.005  | <0.005  | 100        | 80-120  | 97           | 70-130  | -                                                  | 0-20    |
| Nickel                                                                          | mg/L | 0.005  | <0.005  | 110        | 80-120  | 96           | 70-130  | -                                                  | 0-20    |
| Selenium                                                                        | mg/L | 0.001  | <0.001  | 99         | 80-120  | 103          | 70-130  | -                                                  | 0-20    |
| Silver                                                                          | mg/L | 0.0001 | <0.0001 | 107        | 80-120  | 89           | 70-130  | -                                                  | 0-20    |
| Strontium                                                                       | mg/L | 0.001  | <0.001  | 100        | 80-120  | 100          | 70-130  | 1                                                  | 0-20    |
| Thallium                                                                        | mg/L | 0.0001 | <0.0001 | 101        | 80-120  | 90           | 70-130  | -                                                  | 0-20    |
| Uranium                                                                         | mg/L | 0.001  | <0.001  | 100        | 80-120  | 90           | 70-130  | -                                                  | 0-20    |
| Vanadium                                                                        | mg/L | 0.001  | <0.001  | 100        | 80-120  | 103          | 70-130  | -                                                  | 0-20    |
| Zinc                                                                            | mg/L | 0.01   | <0.01   | 110        | 80-120  | 100          | 70-130  | -                                                  | 0-20    |
| Associated Samples : 9869221                                                    |      |        |         |            |         |              |         | Prep Date: 2026-07-13<br>Analysis Date: 2026-07-13 |         |
| Metals Scan (Water, ICP/OES)                                                    |      |        |         |            |         |              |         |                                                    |         |
| Method : Metals (Water, ICP/OES). Internal method: OTT-I-MET-WI48491.           |      |        |         |            |         |              |         |                                                    |         |
| Calcium                                                                         | mg/L | 1      | <1      | 100        | 70-130  | 97           | 70-130  | 0                                                  | 0-20    |
| Magnesium                                                                       | mg/L | 1      | <1      | 101        | 70-130  | 106          | 70-130  | 0                                                  | 0-20    |
| Potassium                                                                       | mg/L | 1      | <1      | 99         | 70-130  | 103          | 70-130  | -                                                  | 0-20    |
| Sodium                                                                          | mg/L | 1      | <1      | 101        | 70-130  | 102          | 70-130  | 0                                                  | 0-20    |
| Associated Samples : 9869221                                                    |      |        |         |            |         |              |         | Prep Date: 2026-07-15<br>Analysis Date: 2026-07-10 |         |
| Nitrate (Water, IC)                                                             |      |        |         |            |         |              |         |                                                    |         |
| Method : Anions (Water, Ion Chromatography). Internal method: OTT-I-IC-WI45985. |      |        |         |            |         |              |         |                                                    |         |
| Nitrate (as Nitrogen)                                                           | mg/L | 0.1    | <0.1    | 100        | 80-120  | 101          | 80-120  | 3                                                  | 0-20    |
| Associated Samples : 9869221                                                    |      |        |         |            |         |              |         | Prep Date: 2026-07-13<br>Analysis Date: 2026-07-14 |         |
| Nitrite (Water, IC)                                                             |      |        |         |            |         |              |         |                                                    |         |
| Method : Anions (Water, Ion Chromatography). Internal method: OTT-I-IC-WI45985. |      |        |         |            |         |              |         |                                                    |         |
| Nitrite (as Nitrogen)                                                           | mg/L | 0.1    | <0.1    | 99         | 80-120  | 103          | 80-120  | -                                                  | 0-20    |
| Associated Samples : 9869221                                                    |      |        |         |            |         |              |         | Prep Date: 2026-07-13<br>Analysis Date: 2026-07-14 |         |
| Phenols (Water, Colorimetry)                                                    |      |        |         |            |         |              |         |                                                    |         |
| Method : Phenols (Water, Colorimetry). Internal method: OTT-I-4AAP-WI46150.     |      |        |         |            |         |              |         |                                                    |         |
| Phenols-4AAP                                                                    | mg/L | 0.001  | <0.001  | 101        | 75-125  | 78           | 70-130  | 4                                                  | 0-20    |
| Associated Samples : 9869221                                                    |      |        |         |            |         |              |         | Prep Date: 2026-07-13<br>Analysis Date: 2026-07-13 |         |

## OFFICIAL CERTIFICATE OF ANALYSIS - QUALITY CONTROL

Client : Paterson Group

Project : PH5222

Reception Date: 2026-07-10

| Parameter                                                                                        | Unit      | RL   | Blank  | QC         |         | Matrix Spike |         | Duplicate                                          |         |
|--------------------------------------------------------------------------------------------------|-----------|------|--------|------------|---------|--------------|---------|----------------------------------------------------|---------|
|                                                                                                  |           |      |        | Recovery % | Range % | Recovery %   | Range % | RPD %                                              | Range % |
| Sulphate (Water, IC)                                                                             |           |      |        |            |         |              |         |                                                    |         |
| Method : Anions (Water, Ion Chromatography). Internal method: OTT-I-IC-WI45985.                  |           |      |        |            |         |              |         |                                                    |         |
| Sulphate                                                                                         | mg/L      | 1    | <1     | 101        | 90-110  | 108          | 80-120  | 0                                                  | 0-20    |
| Associated Samples : 9869221                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-13<br>Analysis Date: 2026-07-14 |         |
| Sulphide (Water, Colorimetry)                                                                    |           |      |        |            |         |              |         |                                                    |         |
| Method : Sulphide, S2- (Water, Colorimetry). Internal method: OTT-I-SPEC-WI45931.                |           |      |        |            |         |              |         |                                                    |         |
| Sulphide (S2-)                                                                                   | mg/L      | 0.01 | <0.01  | 66         | 48-131  |              |         | -                                                  | 0-20    |
| Associated Samples : 9869221                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-14<br>Analysis Date: 2026-07-14 |         |
| Tannin and Lignin (Water, Spec)                                                                  |           |      |        |            |         |              |         |                                                    |         |
| Method : Tannin and Lignin (Water, Spec), Internal method: OTT-I-SPEC-WI57693.                   |           |      |        |            |         |              |         |                                                    |         |
| Tannin and Lignin                                                                                | mg/L      | 0.1  | <0.1   | 100        | 80-120  |              |         | -                                                  | 0-20    |
| Associated Samples : 9869221                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-14<br>Analysis Date: 2026-07-14 |         |
| Total Coliforms (DC Plate)                                                                       |           |      |        |            |         |              |         |                                                    |         |
| Method : Total Coliforms and E.Coli by MF (Water, DC plate). Internal method: OTT-M-BAC-WI45296. |           |      |        |            |         |              |         |                                                    |         |
| Total Coliforms (DC)                                                                             | CFU/100mL | 0    | 0      |            |         |              |         | -                                                  | 0-30    |
| Associated Samples : 9869221                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-10<br>Analysis Date: 2026-07-11 |         |
| Total Kjeldahl Nitrogen (Water, Colorimetry)                                                     |           |      |        |            |         |              |         |                                                    |         |
| Method : TKN (Water, colorimetry). Internal method: OTT-I-NUT-WI46201.                           |           |      |        |            |         |              |         |                                                    |         |
| Total Kjeldahl Nitrogen                                                                          | mg/L      | 0.1  | <0.100 | 101        | 70-130  | 106          | 70-130  | -                                                  | 0-20    |
| Associated Samples : 9869221                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-13<br>Analysis Date: 2026-07-14 |         |
| Turbidity (Water, Turbidimeter)                                                                  |           |      |        |            |         |              |         |                                                    |         |
| Method : Turbidity (Water, Turbidimeter). Internal method: OTT-I-TUR-WI46288.                    |           |      |        |            |         |              |         |                                                    |         |
| Turbidity                                                                                        | NTU       | 0.1  | <0.1   | 95         | 80-120  |              |         | -                                                  | 0-30    |
| Associated Samples : 9869221                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-10<br>Analysis Date: 2026-07-10 |         |

Where RPD % is reported as "-" the calculation is not available because one or both of the duplicates is within 5 times the RL.

## STANDARD CHAIN-OF-CUSTODY

146 Colonnade Road, Unit #8, Ottawa, ON, K2E 7Y1 - Phone: 613-727-5692, Fax: 613-727-5222

[illegible]

**OFFICIAL CERTIFICATE OF ANALYSIS : 4758978**
**WORK REQUEST : 100449577**
**Report Date : 2026-07-16**
**Paterson Group**

9 Auriga Drive  
Ottawa, Ontario  
K2J 5Z9  
Attention : Zavian Buchanan

Reception Date : 2026-07-10

Project : PH5222

Sampler : NA

PO Number : 66417

Temperature : 10 °C

| Analysis                                     | Quantity | External Method                        |
|----------------------------------------------|----------|----------------------------------------|
| Alkalinity (Water, Automated)                | 1        | Modified from SM 2320 B                |
| Ammonia, Total (Water, Colorimetry)          | 1        | Modified from EPA 350.1                |
| Chloride (Water, IC)                         | 1        | Modified from SM 4110 B and C          |
| Colour, Apparent (Water, Spectrophotometry)  | 1        | Modified from SM 2120 C                |
| Colour, True (Water, Spectrophotometry)      | 1        | Modified from SM 2120 C                |
| Conductivity (Water, Automated)              | 1        | Modified from SM 2510 B                |
| DOC (Water, IR)                              | 1        | Modified from SM 5310 B                |
| Escherichia coli (DC Plate)                  | 1        | Modified from MECP E3407               |
| Fluoride (Water, Auto/ISE)                   | 1        | Modified from SM 4500-F A and 4500-F C |
| Hardness (Water, Calculation Only)           | 1        | SM 2340 B                              |
| Ion Balance (Water, Calculation)             | 1        | Modified from SM1030 E                 |
| Metals Scan (Water, ICP/MS)                  | 1        | Modified from EPA 200.8                |
| Metals Scan (Water, ICP/OES)                 | 1        | Modified from SM 3120 B                |
| Nitrate (Water, IC)                          | 1        | Modified from SM 4110 B and C          |
| Nitrite (Water, IC)                          | 1        | Modified from SM 4110 B and C          |
| pH (25°C) (Water, Automated)                 | 1        | Modified from SM 4500-H+ B             |
| Phenols (Water, Colorimetry)                 | 1        | Modified from EPA 420.2                |
| Sulphate (Water, IC)                         | 1        | Modified from SM 4110 B and C          |
| Sulphide (Water, Colorimetry)                | 1        | Modified from SM 4500-S2 D             |
| Tannin and Lignin (Water, Spec)              | 1        | Modified from SM 5550 B                |
| TDS (Estimated)                              | 1        | Modified from SM 2510 A                |
| Total Coliforms (DC Plate)                   | 1        | Modified from MECP E3407               |
| Total Kjeldahl Nitrogen (Water, Colorimetry) | 1        | Modified from EPA 351.2                |
| Turbidity (Water, Turbidimeter)              | 1        | Modified from SM 2130 B                |

**Criteria :**
**A :** Ontario Regulation 169/03 (Non-Regulated Drinking Water)

**Sample status upon receipt :**

9869341

**Compliant**
**Certificate Comments :**

9869341

**N-NO2 and N-NO3 MRLs increased due to matrix interference. B analyzed on July 14, 2026.**
**Notes :**

- All analysis is completed at Eurofins Environment Testing Canada Inc. (Ottawa, Ontario) unless otherwise stated.
- Eurofins Environment Testing Canada Inc. is accredited by CALA, Canadian Association for Laboratory Accreditation to ISO/IEC 17025 for tests which appear on the scope of accreditation. The scope is available at <https://directory.cala.ca/>
- Please note: Field data, where presented on the report, has been provided by the client and is presented for informational purposes only. Guideline or regulatory limits listed on this report are provided for ease of use (informational purposes) only. Eurofins recommends consulting the official guideline or regulation as required. Unless otherwise stated, measurement uncertainty is not taken into account when determining guideline or regulatory exceedances.

**Legend :**

RL : Reporting limit

QC : Reference material (QC)

N/A : Not applicable

1 : Results in annex

\* : Analysis conducted by external subcontracting

^ : Analysis not accredited

## OFFICIAL CERTIFICATE OF ANALYSIS - EXCEEDENCE SUMMARY

Client : Paterson Group

Project : PH5222

Reception Date : 2026-07-10

| Eurofins<br>Sample No        | Client Sample<br>Identification | Analyte          | Result | Units | Exceeded Criteria |   |   |
|------------------------------|---------------------------------|------------------|--------|-------|-------------------|---|---|
|                              |                                 |                  |        |       | A                 | B | C |
| Fluoride (Water, Auto/ISE)   |                                 |                  |        |       |                   |   |   |
| 9869341                      | 14 Poplarwood                   | Fluoride         | 2.49   | mg/L  | 1.5               |   |   |
| Metals Scan (Water, ICP/OES) |                                 |                  |        |       |                   |   |   |
| 9869341                      | 14 Poplarwood                   | Sodium           | 274    | mg/L  | 200               |   |   |
| TDS (Estimated)              |                                 |                  |        |       |                   |   |   |
| 9869341                      | 14 Poplarwood                   | TDS (Estimated)^ | 884    | mg/L  | 500               |   |   |

## OFFICIAL CERTIFICATE OF ANALYSIS - RESULTS

Client : Paterson Group  
Project : PH5222

Reception Date: 2026-07-10

|          |     |      | Eurofins Sample No : <b>9869341</b>          |   |   |     |  |  |  |
|----------|-----|------|----------------------------------------------|---|---|-----|--|--|--|
|          |     |      | Matrix : Groundwater                         |   |   |     |  |  |  |
|          |     |      | Sampling Date : 2026-07-09                   |   |   |     |  |  |  |
|          |     |      | Client Sample Identification : 14 Poplarwood |   |   |     |  |  |  |
| Anions   | RL  | Unit | Criteria                                     |   |   |     |  |  |  |
|          |     |      | A                                            | B | C |     |  |  |  |
| Chloride | 0.5 | mg/L | 250                                          |   |   | 149 |  |  |  |
| Sulphate | 1   | mg/L | 500                                          |   |   | 169 |  |  |  |

|                            |     |      | Eurofins Sample No : <b>9869341</b>          |  |  |  |  |  |  |
|----------------------------|-----|------|----------------------------------------------|--|--|--|--|--|--|
|                            |     |      | Matrix : Groundwater                         |  |  |  |  |  |  |
|                            |     |      | Sampling Date : 2026-07-09                   |  |  |  |  |  |  |
|                            |     |      | Client Sample Identification : 14 Poplarwood |  |  |  |  |  |  |
| Calculations               | RL  | Unit |                                              |  |  |  |  |  |  |
| Ion Balance (Calculation)^ | 0.1 |      | 1.00                                         |  |  |  |  |  |  |

|                                 |       |       | Eurofins Sample No : <b>9869341</b>          |   |   |        |  |  |  |
|---------------------------------|-------|-------|----------------------------------------------|---|---|--------|--|--|--|
|                                 |       |       | Matrix : Groundwater                         |   |   |        |  |  |  |
|                                 |       |       | Sampling Date : 2026-07-09                   |   |   |        |  |  |  |
|                                 |       |       | Client Sample Identification : 14 Poplarwood |   |   |        |  |  |  |
| General Chemistry               | RL    | Unit  | Criteria                                     |   |   |        |  |  |  |
|                                 |       |       | A                                            | B | C |        |  |  |  |
| Alkalinity (as CaCO3)           | 5     | mg/L  | 500                                          |   |   | 311    |  |  |  |
| Colour (Apparent)               | 2     | TCU   | 5                                            |   |   | <2     |  |  |  |
| Colour (True)                   | 2     | TCU   |                                              |   |   | <2     |  |  |  |
| Conductivity @ 25°C             | 5     | µS/cm |                                              |   |   | 1360   |  |  |  |
| Dissolved Organic Carbon        | 0.5   | mg/L  | 5                                            |   |   | 1.0    |  |  |  |
| Fluoride                        | 0.1   | mg/L  | 1.5                                          |   |   | 2.49   |  |  |  |
| Hardness as CaCO3 (Calculation) | 1     | mg/L  | 80-100                                       |   |   | 99     |  |  |  |
| pH @ 25°C                       | 1     |       | 6.5-8.5                                      |   |   | 7.90   |  |  |  |
| Phenols-4AAP                    | 0.001 | mg/L  |                                              |   |   | <0.001 |  |  |  |
| Sulphide (S2-)                  | 0.01  | mg/L  | 0.05                                         |   |   | 0.05   |  |  |  |
| Tannin and Lignin               | 0.1   | mg/L  |                                              |   |   | <0.1   |  |  |  |
| TDS (Estimated)^                | 5     | mg/L  | 500                                          |   |   | 884    |  |  |  |
| Turbidity                       | 0.1   | NTU   | 5                                            |   |   | 0.3    |  |  |  |

## OFFICIAL CERTIFICATE OF ANALYSIS - RESULTS

Client : Paterson Group  
Project : PH5222

Reception Date: 2026-07-10

|                                |        |      |       |          |                  |         |  |  |  |  |
|--------------------------------|--------|------|-------|----------|------------------|---------|--|--|--|--|
| Eurofins Sample No :           |        |      |       |          | 9869341          |         |  |  |  |  |
| Matrix :                       |        |      |       |          | Groundwater      |         |  |  |  |  |
| Sampling Date :                |        |      |       |          | 2026-07-09       |         |  |  |  |  |
| Client Sample Identification : |        |      |       |          | 14<br>Poplarwood |         |  |  |  |  |
| Metals                         |        | RL   | Unit  | Criteria |                  |         |  |  |  |  |
|                                |        |      |       | A        | B                | C       |  |  |  |  |
| Metals Scan (Water, ICP/MS)    |        |      |       |          |                  |         |  |  |  |  |
| Aluminum                       | 0.01   | mg/L | 0.1   |          |                  | <0.01   |  |  |  |  |
| Antimony                       | 0.0005 | mg/L | 0.006 |          |                  | <0.0005 |  |  |  |  |
| Arsenic                        | 0.001  | mg/L | 0.01  |          |                  | <0.001  |  |  |  |  |
| Barium                         | 0.001  | mg/L | 1     |          |                  | 0.016   |  |  |  |  |
| Beryllium                      | 0.0005 | mg/L |       |          |                  | <0.0005 |  |  |  |  |
| Boron                          | 0.01   | mg/L | 5     |          |                  | 1.06    |  |  |  |  |
| Cadmium                        | 0.0001 | mg/L | 0.005 |          |                  | <0.0001 |  |  |  |  |
| Chromium                       | 0.001  | mg/L | 0.05  |          |                  | <0.001  |  |  |  |  |
| Cobalt                         | 0.0002 | mg/L |       |          |                  | <0.0002 |  |  |  |  |
| Copper                         | 0.001  | mg/L | 1     |          |                  | <0.001  |  |  |  |  |
| Iron                           | 0.03   | mg/L | 0.3   |          |                  | 0.04    |  |  |  |  |
| Lead                           | 0.001  | mg/L | 0.01  |          |                  | <0.001  |  |  |  |  |
| Manganese                      | 0.01   | mg/L | 0.05  |          |                  | <0.01   |  |  |  |  |
| Mercury                        | 0.0001 | mg/L | 0.001 |          |                  | <0.0001 |  |  |  |  |
| Molybdenum                     | 0.005  | mg/L |       |          |                  | <0.005  |  |  |  |  |
| Nickel                         | 0.005  | mg/L |       |          |                  | <0.005  |  |  |  |  |
| Selenium                       | 0.001  | mg/L | 0.05  |          |                  | <0.001  |  |  |  |  |
| Silver                         | 0.0001 | mg/L |       |          |                  | <0.0001 |  |  |  |  |
| Strontium                      | 0.001  | mg/L |       |          |                  | 7.00    |  |  |  |  |
| Thallium                       | 0.0001 | mg/L |       |          |                  | <0.0001 |  |  |  |  |
| Uranium                        | 0.001  | mg/L | 0.02  |          |                  | <0.001  |  |  |  |  |
| Vanadium                       | 0.001  | mg/L |       |          |                  | <0.001  |  |  |  |  |
| Zinc                           | 0.01   | mg/L | 5     |          |                  | <0.01   |  |  |  |  |
| Metals Scan (Water, ICP/OES)   |        |      |       |          |                  |         |  |  |  |  |
| Calcium                        | 1      | mg/L |       |          |                  | 20      |  |  |  |  |
| Magnesium                      | 1      | mg/L |       |          |                  | 12      |  |  |  |  |
| Potassium                      | 1      | mg/L |       |          |                  | 5       |  |  |  |  |
| Sodium                         | 1      | mg/L | 200   |          |                  | 274     |  |  |  |  |

|                       |    |           | Eurofins Sample No : <b>9869341</b>          |   |   |   |  |  |  |
|-----------------------|----|-----------|----------------------------------------------|---|---|---|--|--|--|
|                       |    |           | Matrix : Groundwater                         |   |   |   |  |  |  |
|                       |    |           | Sampling Date : 2026-07-09                   |   |   |   |  |  |  |
|                       |    |           | Client Sample Identification : 14 Poplarwood |   |   |   |  |  |  |
| Microbiology          | RL | Unit      | Criteria                                     |   |   |   |  |  |  |
|                       |    |           | A                                            | B | C |   |  |  |  |
| Escherichia coli (DC) | 0  | CFU/100mL | 0                                            |   |   | 0 |  |  |  |
| Total Coliforms (DC)  | 0  | CFU/100mL | 0                                            |   |   | 0 |  |  |  |

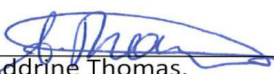
## OFFICIAL CERTIFICATE OF ANALYSIS - RESULTS

Client : Paterson Group  
Project : PH5222

Reception Date: 2026-07-10

|                              |      |      | Eurofins Sample No : <b>9869341</b>          |   |   |       |  |  |  |
|------------------------------|------|------|----------------------------------------------|---|---|-------|--|--|--|
|                              |      |      | Matrix : Groundwater                         |   |   |       |  |  |  |
|                              |      |      | Sampling Date : 2026-07-09                   |   |   |       |  |  |  |
|                              |      |      | Client Sample Identification : 14 Poplarwood |   |   |       |  |  |  |
| Nutrients                    | RL   | Unit | Criteria                                     |   |   |       |  |  |  |
|                              |      |      | A                                            | B | C |       |  |  |  |
| Ammonia (Total, as Nitrogen) | 0.02 | mg/L |                                              |   |   | 0.227 |  |  |  |
| Nitrate (as Nitrogen)        | 0.1  | mg/L | 10.0                                         |   |   | <0.5  |  |  |  |
| Nitrite (as Nitrogen)        | 0.1  | mg/L | 1.0                                          |   |   | <0.5  |  |  |  |
| Total Kjeldahl Nitrogen      | 0.1  | mg/L |                                              |   |   | 0.447 |  |  |  |

Approved by :

  
Addrine Thomas,  
Chemistry Manager, Ottawa

Approved by :

  
Emma-Dawn Ferguson, M.Sc.  
Environmental Chemist

## OFFICIAL CERTIFICATE OF ANALYSIS - QUALITY CONTROL

Client : Paterson Group

Project : PH5222

Reception Date: 2026-07-10

| Parameter                                                                                        | Unit      | RL   | Blank  | QC         |         | Matrix Spike |         | Duplicate                                          |         |
|--------------------------------------------------------------------------------------------------|-----------|------|--------|------------|---------|--------------|---------|----------------------------------------------------|---------|
|                                                                                                  |           |      |        | Recovery % | Range % | Recovery %   | Range % | RPD %                                              | Range % |
| Ammonia, Total (Water, Colorimetry)                                                              |           |      |        |            |         |              |         |                                                    |         |
| Method : Ammonia (Water, Colorimetry). Internal method: OTT-I-NUT-WI46201.                       |           |      |        |            |         |              |         |                                                    |         |
| Ammonia (Total, as Nitrogen)                                                                     | mg/L      | 0.02 | <0.020 | 97         | 80-120  | 103          | 80-120  | -                                                  | 0-20    |
| Associated Samples : 9869341                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-14<br>Analysis Date: 2026-07-14 |         |
| Chloride (Water, IC)                                                                             |           |      |        |            |         |              |         |                                                    |         |
| Method : Anions (Water, Ion Chromatography). Internal method: OTT-I-IC-WI45985.                  |           |      |        |            |         |              |         |                                                    |         |
| Chloride                                                                                         | mg/L      | 0.5  | <0.5   | 104        | 80-120  | 108          | 80-120  | 1                                                  | 0-20    |
| Associated Samples : 9869341                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-14<br>Analysis Date: 2026-07-16 |         |
| Colour, Apparent (Water, Spectrophotometry)                                                      |           |      |        |            |         |              |         |                                                    |         |
| Method : Colour (Water, Spectrophotometric). Internal method: OTT-I-SPEC-WI45980.                |           |      |        |            |         |              |         |                                                    |         |
| Colour (Apparent)                                                                                | TCU       | 2    | <2     | 102        | 78-116  |              |         | 4                                                  | 0-40    |
| Associated Samples : 9869341                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-14<br>Analysis Date: 2026-07-15 |         |
| Colour, True (Water, Spectrophotometry)                                                          |           |      |        |            |         |              |         |                                                    |         |
| Method : Colour (Water, Spectrophotometric). Internal method: OTT-I-SPEC-WI45980.                |           |      |        |            |         |              |         |                                                    |         |
| Colour (True)                                                                                    | TCU       | 2    | <2     | 102        | 78-116  |              |         | -                                                  | 0-40    |
| Associated Samples : 9869341                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-14<br>Analysis Date: 2026-07-15 |         |
| DOC (Water, IR)                                                                                  |           |      |        |            |         |              |         |                                                    |         |
| Method : Organic carbon (water, IR, combustion). Internal method: OTT-I-DEM-WI46148.             |           |      |        |            |         |              |         |                                                    |         |
| Dissolved Organic Carbon                                                                         | mg/L      | 0.5  | <0.5   | 98         | 88-112  | 96           | 85-115  | -                                                  | 0-15    |
| Associated Samples : 9869341                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-13<br>Analysis Date: 2026-07-14 |         |
| Escherichia coli (DC Plate)                                                                      |           |      |        |            |         |              |         |                                                    |         |
| Method : Total Coliforms and E.Coli by MF (Water, DC plate). Internal method: OTT-M-BAC-WI45296. |           |      |        |            |         |              |         |                                                    |         |
| Escherichia coli (DC)                                                                            | CFU/100mL | 0    | 0      |            |         |              |         | -                                                  | 0-30    |
| Associated Samples : 9869341                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-10<br>Analysis Date: 2026-07-11 |         |
| Fluoride (Water, Auto/ISE)                                                                       |           |      |        |            |         |              |         |                                                    |         |
| Method : Fluoride by autotitrator, ion selective electrode. Internal method: OTT-I-AT-WI45398.   |           |      |        |            |         |              |         |                                                    |         |
| Fluoride                                                                                         | mg/L      | 0.1  | <0.10  | 104        | 90-110  | 102          | 80-120  | 0                                                  | 0-20    |
| Associated Samples : 9869341                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-10<br>Analysis Date: 2026-07-13 |         |

## OFFICIAL CERTIFICATE OF ANALYSIS - QUALITY CONTROL

Client : Paterson Group

Project : PH5222

Reception Date: 2026-07-10

| Parameter                                                                       | Unit | RL     | Blank   | QC         |         | Matrix Spike |         | Duplicate                                          |         |
|---------------------------------------------------------------------------------|------|--------|---------|------------|---------|--------------|---------|----------------------------------------------------|---------|
|                                                                                 |      |        |         | Recovery % | Range % | Recovery %   | Range % | RPD %                                              | Range % |
| Metals Scan (Water, ICP/MS)                                                     |      |        |         |            |         |              |         |                                                    |         |
| Method : Metals (Water, ICP/MS). Internal method: AMMTFQE1.                     |      |        |         |            |         |              |         |                                                    |         |
| Aluminum                                                                        | mg/L | 0.01   | <0.01   | 100        | 80-120  | 112          | 70-130  | -                                                  | 0-20    |
| Antimony                                                                        | mg/L | 0.0005 | <0.0005 | 83         | 80-120  | 110          | 70-130  | -                                                  | 0-20    |
| Arsenic                                                                         | mg/L | 0.001  | <0.001  | 99         | 80-120  | 102          | 70-130  | -                                                  | 0-20    |
| Barium                                                                          | mg/L | 0.001  | <0.001  | 100        | 80-120  | 103          | 70-130  | 0                                                  | 0-20    |
| Beryllium                                                                       | mg/L | 0.0005 | <0.0005 | 108        | 80-120  | 111          | 70-130  | -                                                  | 0-20    |
| Boron                                                                           | mg/L | 0.01   | <0.01   | 100        | 80-120  | 104          | 70-130  | -                                                  | 0-20    |
| Cadmium                                                                         | mg/L | 0.0001 | <0.0001 | 101        | 80-120  | 103          | 70-130  | -                                                  | 0-20    |
| Chromium                                                                        | mg/L | 0.001  | <0.001  | 110        | 80-120  | 101          | 70-130  | -                                                  | 0-20    |
| Cobalt                                                                          | mg/L | 0.0002 | <0.0002 | 104        | 80-120  | 94           | 70-130  | -                                                  | 0-20    |
| Copper                                                                          | mg/L | 0.001  | <0.001  | 110        | 80-120  | 92           | 70-130  | -                                                  | 0-20    |
| Iron                                                                            | mg/L | 0.03   | <0.03   | 100        | 80-120  | 96           | 70-130  | -                                                  | 0-20    |
| Lead                                                                            | mg/L | 0.001  | <0.001  | 100        | 80-120  | 90           | 70-130  | -                                                  | 0-20    |
| Manganese                                                                       | mg/L | 0.01   | <0.01   | 100        | 80-120  | 99           | 70-130  | -                                                  | 0-20    |
| Mercury                                                                         | mg/L | 0.0001 | <0.0001 | 91         | 80-120  | 80           | 70-130  | -                                                  | 0-20    |
| Molybdenum                                                                      | mg/L | 0.005  | <0.005  | 100        | 80-120  | 97           | 70-130  | -                                                  | 0-20    |
| Nickel                                                                          | mg/L | 0.005  | <0.005  | 110        | 80-120  | 96           | 70-130  | -                                                  | 0-20    |
| Selenium                                                                        | mg/L | 0.001  | <0.001  | 99         | 80-120  | 103          | 70-130  | -                                                  | 0-20    |
| Silver                                                                          | mg/L | 0.0001 | <0.0001 | 107        | 80-120  | 89           | 70-130  | -                                                  | 0-20    |
| Strontium                                                                       | mg/L | 0.001  | <0.001  | 100        | 80-120  | 100          | 70-130  | 1                                                  | 0-20    |
| Thallium                                                                        | mg/L | 0.0001 | <0.0001 | 101        | 80-120  | 90           | 70-130  | -                                                  | 0-20    |
| Uranium                                                                         | mg/L | 0.001  | <0.001  | 100        | 80-120  | 90           | 70-130  | -                                                  | 0-20    |
| Vanadium                                                                        | mg/L | 0.001  | <0.001  | 100        | 80-120  | 103          | 70-130  | -                                                  | 0-20    |
| Zinc                                                                            | mg/L | 0.01   | <0.01   | 110        | 80-120  | 100          | 70-130  | -                                                  | 0-20    |
| Associated Samples : 9869341                                                    |      |        |         |            |         |              |         | Prep Date: 2026-07-13<br>Analysis Date: 2026-07-13 |         |
| Metals Scan (Water, ICP/OES)                                                    |      |        |         |            |         |              |         |                                                    |         |
| Method : Metals (Water, ICP/OES). Internal method: OTT-I-MET-WI48491.           |      |        |         |            |         |              |         |                                                    |         |
| Calcium                                                                         | mg/L | 1      | <1      | 100        | 70-130  | 97           | 70-130  | 0                                                  | 0-20    |
| Magnesium                                                                       | mg/L | 1      | <1      | 101        | 70-130  | 106          | 70-130  | 0                                                  | 0-20    |
| Potassium                                                                       | mg/L | 1      | <1      | 99         | 70-130  | 103          | 70-130  | -                                                  | 0-20    |
| Sodium                                                                          | mg/L | 1      | <1      | 101        | 70-130  | 102          | 70-130  | 0                                                  | 0-20    |
| Associated Samples : 9869341                                                    |      |        |         |            |         |              |         | Prep Date: 2026-07-15<br>Analysis Date: 2026-07-10 |         |
| Nitrate (Water, IC)                                                             |      |        |         |            |         |              |         |                                                    |         |
| Method : Anions (Water, Ion Chromatography). Internal method: OTT-I-IC-WI45985. |      |        |         |            |         |              |         |                                                    |         |
| Nitrate (as Nitrogen)                                                           | mg/L | 0.1    | <0.1    | 106        | 80-120  | 101          | 80-120  | -                                                  | 0-20    |
| Associated Samples : 9869341                                                    |      |        |         |            |         |              |         | Prep Date: 2026-07-14<br>Analysis Date: 2026-07-16 |         |
| Nitrite (Water, IC)                                                             |      |        |         |            |         |              |         |                                                    |         |
| Method : Anions (Water, Ion Chromatography). Internal method: OTT-I-IC-WI45985. |      |        |         |            |         |              |         |                                                    |         |
| Nitrite (as Nitrogen)                                                           | mg/L | 0.1    | <0.1    | 105        | 80-120  | 109          | 80-120  | -                                                  | 0-20    |
| Associated Samples : 9869341                                                    |      |        |         |            |         |              |         | Prep Date: 2026-07-14<br>Analysis Date: 2026-07-16 |         |
| Phenols (Water, Colorimetry)                                                    |      |        |         |            |         |              |         |                                                    |         |
| Method : Phenols (Water, Colorimetry). Internal method: OTT-I-4AAP-WI46150.     |      |        |         |            |         |              |         |                                                    |         |
| Phenols-4AAP                                                                    | mg/L | 0.001  | <0.001  | 101        | 75-125  | 78           | 70-130  | 4                                                  | 0-20    |
| Associated Samples : 9869341                                                    |      |        |         |            |         |              |         | Prep Date: 2026-07-13<br>Analysis Date: 2026-07-13 |         |

## OFFICIAL CERTIFICATE OF ANALYSIS - QUALITY CONTROL

Client : Paterson Group

Project : PH5222

Reception Date: 2026-07-10

| Parameter                                                                                        | Unit      | RL   | Blank  | QC         |         | Matrix Spike |         | Duplicate                                          |         |
|--------------------------------------------------------------------------------------------------|-----------|------|--------|------------|---------|--------------|---------|----------------------------------------------------|---------|
|                                                                                                  |           |      |        | Recovery % | Range % | Recovery %   | Range % | RPD %                                              | Range % |
| Sulphate (Water, IC)                                                                             |           |      |        |            |         |              |         |                                                    |         |
| Method : Anions (Water, Ion Chromatography). Internal method: OTT-I-IC-WI45985.                  |           |      |        |            |         |              |         |                                                    |         |
| Sulphate                                                                                         | mg/L      | 1    | <1     | 110        | 90-110  | 106          | 80-120  | 2                                                  | 0-20    |
| Associated Samples : 9869341                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-14<br>Analysis Date: 2026-07-16 |         |
| Sulphide (Water, Colorimetry)                                                                    |           |      |        |            |         |              |         |                                                    |         |
| Method : Sulphide, S2- (Water, Colorimetry). Internal method: OTT-I-SPEC-WI45931.                |           |      |        |            |         |              |         |                                                    |         |
| Sulphide (S2-)                                                                                   | mg/L      | 0.01 | <0.01  | 63         | 48-131  |              |         | -                                                  | 0-20    |
| Associated Samples : 9869341                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-15<br>Analysis Date: 2026-07-16 |         |
| Tannin and Lignin (Water, Spec)                                                                  |           |      |        |            |         |              |         |                                                    |         |
| Method : Tannin and Lignin (Water, Spec), Internal method: OTT-I-SPEC-WI57693.                   |           |      |        |            |         |              |         |                                                    |         |
| Tannin and Lignin                                                                                | mg/L      | 0.1  | <0.1   | 100        | 80-120  |              |         | -                                                  | 0-20    |
| Associated Samples : 9869341                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-14<br>Analysis Date: 2026-07-14 |         |
| Total Coliforms (DC Plate)                                                                       |           |      |        |            |         |              |         |                                                    |         |
| Method : Total Coliforms and E.Coli by MF (Water, DC plate). Internal method: OTT-M-BAC-WI45296. |           |      |        |            |         |              |         |                                                    |         |
| Total Coliforms (DC)                                                                             | CFU/100mL | 0    | 0      |            |         |              |         | -                                                  | 0-30    |
| Associated Samples : 9869341                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-10<br>Analysis Date: 2026-07-11 |         |
| Total Kjeldahl Nitrogen (Water, Colorimetry)                                                     |           |      |        |            |         |              |         |                                                    |         |
| Method : TKN (Water, colorimetry). Internal method: OTT-I-NUT-WI46201.                           |           |      |        |            |         |              |         |                                                    |         |
| Total Kjeldahl Nitrogen                                                                          | mg/L      | 0.1  | <0.100 | 101        | 70-130  | 106          | 70-130  | -                                                  | 0-20    |
| Associated Samples : 9869341                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-13<br>Analysis Date: 2026-07-14 |         |
| Turbidity (Water, Turbidimeter)                                                                  |           |      |        |            |         |              |         |                                                    |         |
| Method : Turbidity (Water, Turbidimeter). Internal method: OTT-I-TUR-WI46288.                    |           |      |        |            |         |              |         |                                                    |         |
| Turbidity                                                                                        | NTU       | 0.1  | <0.1   | 95         | 80-120  |              |         | -                                                  | 0-30    |
| Associated Samples : 9869341                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-10<br>Analysis Date: 2026-07-10 |         |

Where RPD % is reported as "-" the calculation is not available because one or both of the duplicates is within 5 times the RL.



**OFFICIAL CERTIFICATE OF ANALYSIS : 4758527**
**WORK REQUEST : 100449552**
**Report Date : 2026-07-16**
**Paterson Group**

9 Auriga Drive  
Ottawa, Ontario  
K2J 5Z9  
Attention : Zavian Buchanan

Reception Date : 2026-07-10  
Project : PH5222  
Sampler : NA  
PO Number : 66406  
Temperature : 10 °C

| Analysis                                     | Quantity | External Method                        |
|----------------------------------------------|----------|----------------------------------------|
| Alkalinity (Water, Automated)                | 1        | Modified from SM 2320 B                |
| Ammonia, Total (Water, Colorimetry)          | 1        | Modified from EPA 350.1                |
| Chloride (Water, IC)                         | 1        | Modified from SM 4110 B and C          |
| Colour, Apparent (Water, Spectrophotometry)  | 1        | Modified from SM 2120 C                |
| Colour, True (Water, Spectrophotometry)      | 1        | Modified from SM 2120 C                |
| Conductivity (Water, Automated)              | 1        | Modified from SM 2510 B                |
| DOC (Water, IR)                              | 1        | Modified from SM 5310 B                |
| Escherichia coli (DC Plate)                  | 1        | Modified from MECP E3407               |
| Fluoride (Water, Auto/ISE)                   | 1        | Modified from SM 4500-F A and 4500-F C |
| Hardness (Water, Calculation Only)           | 1        | SM 2340 B                              |
| Ion Balance (Water, Calculation)             | 1        | Modified from SM1030 E                 |
| Metals Scan (Water, ICP/MS)                  | 1        | Modified from EPA 200.8                |
| Metals Scan (Water, ICP/OES)                 | 1        | Modified from SM 3120 B                |
| Nitrate (Water, IC)                          | 1        | Modified from SM 4110 B and C          |
| Nitrite (Water, IC)                          | 1        | Modified from SM 4110 B and C          |
| pH (25°C) (Water, Automated)                 | 1        | Modified from SM 4500-H+ B             |
| Phenols (Water, Colorimetry)                 | 1        | Modified from EPA 420.2                |
| Sulphate (Water, IC)                         | 1        | Modified from SM 4110 B and C          |
| Sulphide (Water, Colorimetry)                | 1        | Modified from SM 4500-S2 D             |
| Tannin and Lignin (Water, Spec)              | 1        | Modified from SM 5550 B                |
| TDS (Estimated)                              | 1        | Modified from SM 2510 A                |
| Total Coliforms (DC Plate)                   | 1        | Modified from MECP E3407               |
| Total Kjeldahl Nitrogen (Water, Colorimetry) | 1        | Modified from EPA 351.2                |
| Turbidity (Water, Turbidimeter)              | 1        | Modified from SM 2130 B                |

**Criteria :**
**A :** Ontario Regulation 169/03 (Non-Regulated Drinking Water)

**Sample status upon receipt :**

9869172

**Compliant**
**Certificate Comments :**

9869172

**N-NO2 and N-NO3 MRLs increased due to matrix interference. B analyzed on July 14, 2026.**
**Notes :**

- All analysis is completed at Eurofins Environment Testing Canada Inc. (Ottawa, Ontario) unless otherwise stated.
- Eurofins Environment Testing Canada Inc. is accredited by CALA, Canadian Association for Laboratory Accreditation to ISO/IEC 17025 for tests which appear on the scope of accreditation. The scope is available at <https://directory.cala.ca/>
- Please note: Field data, where presented on the report, has been provided by the client and is presented for informational purposes only. Guideline or regulatory limits listed on this report are provided for ease of use (informational purposes) only. Eurofins recommends consulting the official guideline or regulation as required. Unless otherwise stated, measurement uncertainty is not taken into account when determining guideline or regulatory exceedances.

**Legend :**

RL : Reporting limit

N/A : Not applicable

\* : Analysis conducted by external subcontracting

QC : Reference material (QC)

1 : Results in annex

^ : Analysis not accredited

## OFFICIAL CERTIFICATE OF ANALYSIS - EXCEEDENCE SUMMARY

Client : Paterson Group

Project : PH5222

Reception Date : 2026-07-10

| Eurofins<br>Sample No         | Client Sample<br>Identification | Analyte              | Result | Units     | Exceeded Criteria |   |   |
|-------------------------------|---------------------------------|----------------------|--------|-----------|-------------------|---|---|
|                               |                                 |                      |        |           | A                 | B | C |
| Metals Scan (Water, ICP/OES)  |                                 |                      |        |           |                   |   |   |
| 9869172                       | 15 Poplarwood                   | Sodium               | 320    | mg/L      | 200               |   |   |
| Sulphide (Water, Colorimetry) |                                 |                      |        |           |                   |   |   |
| 9869172                       | 15 Poplarwood                   | Sulphide (S2-)       | 0.17   | mg/L      | 0.05              |   |   |
| TDS (Estimated)               |                                 |                      |        |           |                   |   |   |
| 9869172                       | 15 Poplarwood                   | TDS (Estimated)^     | 1010   | mg/L      | 500               |   |   |
| Total Coliforms (DC Plate)    |                                 |                      |        |           |                   |   |   |
| 9869172                       | 15 Poplarwood                   | Total Coliforms (DC) | 4      | CFU/100mL | 0                 |   |   |

## OFFICIAL CERTIFICATE OF ANALYSIS - RESULTS

Client : Paterson Group  
Project : PH5222

Reception Date: 2026-07-10

|          |     |      | Eurofins Sample No : <b>9869172</b>          |   |   |     |  |  |  |
|----------|-----|------|----------------------------------------------|---|---|-----|--|--|--|
|          |     |      | Matrix : Groundwater                         |   |   |     |  |  |  |
|          |     |      | Sampling Date : 2026-07-09                   |   |   |     |  |  |  |
|          |     |      | Client Sample Identification : 15 Poplarwood |   |   |     |  |  |  |
| Anions   | RL  | Unit | Criteria                                     |   |   |     |  |  |  |
|          |     |      | A                                            | B | C |     |  |  |  |
| Chloride | 0.5 | mg/L | 250                                          |   |   | 162 |  |  |  |
| Sulphate | 1   | mg/L | 500                                          |   |   | 212 |  |  |  |

|                            |     |      | Eurofins Sample No : <b>9869172</b>          |  |  |  |  |  |  |
|----------------------------|-----|------|----------------------------------------------|--|--|--|--|--|--|
|                            |     |      | Matrix : Groundwater                         |  |  |  |  |  |  |
|                            |     |      | Sampling Date : 2026-07-09                   |  |  |  |  |  |  |
|                            |     |      | Client Sample Identification : 15 Poplarwood |  |  |  |  |  |  |
| Calculations               | RL  | Unit |                                              |  |  |  |  |  |  |
| Ion Balance (Calculation)^ | 0.1 |      | 1.00                                         |  |  |  |  |  |  |

|                                 |       |       | Eurofins Sample No : <b>9869172</b>          |   |   |        |  |  |  |
|---------------------------------|-------|-------|----------------------------------------------|---|---|--------|--|--|--|
|                                 |       |       | Matrix : Groundwater                         |   |   |        |  |  |  |
|                                 |       |       | Sampling Date : 2026-07-09                   |   |   |        |  |  |  |
|                                 |       |       | Client Sample Identification : 15 Poplarwood |   |   |        |  |  |  |
| General Chemistry               | RL    | Unit  | Criteria                                     |   |   |        |  |  |  |
|                                 |       |       | A                                            | B | C |        |  |  |  |
| Alkalinity (as CaCO3)           | 5     | mg/L  | 500                                          |   |   | 342    |  |  |  |
| Colour (Apparent)               | 2     | TCU   | 5                                            |   |   | <2     |  |  |  |
| Colour (True)                   | 2     | TCU   |                                              |   |   | <2     |  |  |  |
| Conductivity @ 25°C             | 5     | µS/cm |                                              |   |   | 1550   |  |  |  |
| Dissolved Organic Carbon        | 0.5   | mg/L  | 5                                            |   |   | 1.2    |  |  |  |
| Fluoride                        | 0.1   | mg/L  | 1.5                                          |   |   | 1.47   |  |  |  |
| Hardness as CaCO3 (Calculation) | 1     | mg/L  | 80-100                                       |   |   | 89     |  |  |  |
| pH @ 25°C                       | 1     |       | 6.5-8.5                                      |   |   | 7.86   |  |  |  |
| Phenols-4AAP                    | 0.001 | mg/L  |                                              |   |   | <0.001 |  |  |  |
| Sulphide (S2-)                  | 0.01  | mg/L  | 0.05                                         |   |   | 0.17   |  |  |  |
| Tannin and Lignin               | 0.1   | mg/L  |                                              |   |   | <0.1   |  |  |  |
| TDS (Estimated)^                | 5     | mg/L  | 500                                          |   |   | 1010   |  |  |  |
| Turbidity                       | 0.1   | NTU   | 5                                            |   |   | 0.9    |  |  |  |

## OFFICIAL CERTIFICATE OF ANALYSIS - RESULTS

Client : Paterson Group  
Project : PH5222

Reception Date: 2026-07-10

|                                |        |      |       |          |                  |         |  |  |  |  |
|--------------------------------|--------|------|-------|----------|------------------|---------|--|--|--|--|
| Eurofins Sample No :           |        |      |       |          | 9869172          |         |  |  |  |  |
| Matrix :                       |        |      |       |          | Groundwater      |         |  |  |  |  |
| Sampling Date :                |        |      |       |          | 2026-07-09       |         |  |  |  |  |
| Client Sample Identification : |        |      |       |          | 15<br>Poplarwood |         |  |  |  |  |
| Metals                         |        | RL   | Unit  | Criteria |                  |         |  |  |  |  |
|                                |        |      |       | A        | B                | C       |  |  |  |  |
| Metals Scan (Water, ICP/MS)    |        |      |       |          |                  |         |  |  |  |  |
| Aluminum                       | 0.01   | mg/L | 0.1   |          |                  | <0.01   |  |  |  |  |
| Antimony                       | 0.0005 | mg/L | 0.006 |          |                  | <0.0005 |  |  |  |  |
| Arsenic                        | 0.001  | mg/L | 0.01  |          |                  | <0.001  |  |  |  |  |
| Barium                         | 0.001  | mg/L | 1     |          |                  | 0.010   |  |  |  |  |
| Beryllium                      | 0.0005 | mg/L |       |          |                  | <0.0005 |  |  |  |  |
| Boron                          | 0.01   | mg/L | 5     |          |                  | 1.34    |  |  |  |  |
| Cadmium                        | 0.0001 | mg/L | 0.005 |          |                  | <0.0001 |  |  |  |  |
| Chromium                       | 0.001  | mg/L | 0.05  |          |                  | <0.001  |  |  |  |  |
| Cobalt                         | 0.0002 | mg/L |       |          |                  | <0.0002 |  |  |  |  |
| Copper                         | 0.001  | mg/L | 1     |          |                  | <0.001  |  |  |  |  |
| Iron                           | 0.03   | mg/L | 0.3   |          |                  | 0.05    |  |  |  |  |
| Lead                           | 0.001  | mg/L | 0.01  |          |                  | <0.001  |  |  |  |  |
| Manganese                      | 0.01   | mg/L | 0.05  |          |                  | <0.01   |  |  |  |  |
| Mercury                        | 0.0001 | mg/L | 0.001 |          |                  | <0.0001 |  |  |  |  |
| Molybdenum                     | 0.005  | mg/L |       |          |                  | <0.005  |  |  |  |  |
| Nickel                         | 0.005  | mg/L |       |          |                  | <0.005  |  |  |  |  |
| Selenium                       | 0.001  | mg/L | 0.05  |          |                  | <0.001  |  |  |  |  |
| Silver                         | 0.0001 | mg/L |       |          |                  | <0.0001 |  |  |  |  |
| Strontium                      | 0.001  | mg/L |       |          |                  | 3.79    |  |  |  |  |
| Thallium                       | 0.0001 | mg/L |       |          |                  | <0.0001 |  |  |  |  |
| Uranium                        | 0.001  | mg/L | 0.02  |          |                  | <0.001  |  |  |  |  |
| Vanadium                       | 0.001  | mg/L |       |          |                  | <0.001  |  |  |  |  |
| Zinc                           | 0.01   | mg/L | 5     |          |                  | <0.01   |  |  |  |  |
| Metals Scan (Water, ICP/OES)   |        |      |       |          |                  |         |  |  |  |  |
| Calcium                        | 1      | mg/L |       |          |                  | 21      |  |  |  |  |
| Magnesium                      | 1      | mg/L |       |          |                  | 9       |  |  |  |  |
| Potassium                      | 1      | mg/L |       |          |                  | 4       |  |  |  |  |
| Sodium                         | 1      | mg/L | 200   |          |                  | 320     |  |  |  |  |

|                       |    |           | Eurofins Sample No : <b>9869172</b> |   |   |   |  |  |  |
|-----------------------|----|-----------|-------------------------------------|---|---|---|--|--|--|
|                       |    |           | Matrix : Groundwater                |   |   |   |  |  |  |
|                       |    |           | Sampling Date : 2026-07-09          |   |   |   |  |  |  |
|                       |    |           | Client Sample Identification : 15   |   |   |   |  |  |  |
|                       |    |           | Poplarwood                          |   |   |   |  |  |  |
| Microbiology          | RL | Unit      | Criteria                            |   |   |   |  |  |  |
|                       |    |           | A                                   | B | C |   |  |  |  |
| Escherichia coli (DC) | 0  | CFU/100mL | 0                                   |   |   | 0 |  |  |  |
| Total Coliforms (DC)  | 0  | CFU/100mL | 0                                   |   |   | 4 |  |  |  |

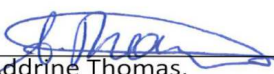
## OFFICIAL CERTIFICATE OF ANALYSIS - RESULTS

Client : Paterson Group  
Project : PH5222

Reception Date: 2026-07-10

|                              |      |      | Eurofins Sample No : <b>9869172</b> |   |   |       |  |  |  |
|------------------------------|------|------|-------------------------------------|---|---|-------|--|--|--|
|                              |      |      | Matrix : Groundwater                |   |   |       |  |  |  |
|                              |      |      | Sampling Date : 2026-07-09          |   |   |       |  |  |  |
|                              |      |      | Client Sample Identification : 15   |   |   |       |  |  |  |
|                              |      |      | Poplarwood                          |   |   |       |  |  |  |
| Nutrients                    | RL   | Unit | Criteria                            |   |   |       |  |  |  |
|                              |      |      | A                                   | B | C |       |  |  |  |
| Ammonia (Total, as Nitrogen) | 0.02 | mg/L |                                     |   |   | 0.239 |  |  |  |
| Nitrate (as Nitrogen)        | 0.1  | mg/L | 10.0                                |   |   | <0.5  |  |  |  |
| Nitrite (as Nitrogen)        | 0.1  | mg/L | 1.0                                 |   |   | <0.5  |  |  |  |
| Total Kjeldahl Nitrogen      | 0.1  | mg/L |                                     |   |   | 0.285 |  |  |  |

Approved by :

  
Addrine Thomas,  
Chemistry Manager, Ottawa

Approved by :

  
Emma-Dawn Ferguson, M.Sc.  
Environmental Chemist

## OFFICIAL CERTIFICATE OF ANALYSIS - QUALITY CONTROL

Client : Paterson Group

Project : PH5222

Reception Date: 2026-07-10

| Parameter                                                                                        | Unit      | RL   | Blank  | QC         |         | Matrix Spike |         | Duplicate                                          |         |
|--------------------------------------------------------------------------------------------------|-----------|------|--------|------------|---------|--------------|---------|----------------------------------------------------|---------|
|                                                                                                  |           |      |        | Recovery % | Range % | Recovery %   | Range % | RPD %                                              | Range % |
| Ammonia, Total (Water, Colorimetry)                                                              |           |      |        |            |         |              |         |                                                    |         |
| Method : Ammonia (Water, Colorimetry). Internal method: OTT-I-NUT-WI46201.                       |           |      |        |            |         |              |         |                                                    |         |
| Ammonia (Total, as Nitrogen)                                                                     | mg/L      | 0.02 | <0.020 | 97         | 80-120  | 103          | 80-120  | -                                                  | 0-20    |
| Associated Samples : 9869172                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-14<br>Analysis Date: 2026-07-14 |         |
| Chloride (Water, IC)                                                                             |           |      |        |            |         |              |         |                                                    |         |
| Method : Anions (Water, Ion Chromatography). Internal method: OTT-I-IC-WI45985.                  |           |      |        |            |         |              |         |                                                    |         |
| Chloride                                                                                         | mg/L      | 0.5  | <0.5   | 95         | 80-120  | 109          | 80-120  | 2                                                  | 0-20    |
| Associated Samples : 9869172                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-13<br>Analysis Date: 2026-07-14 |         |
| Colour, Apparent (Water, Spectrophotometry)                                                      |           |      |        |            |         |              |         |                                                    |         |
| Method : Colour (Water, Spectrophotometric). Internal method: OTT-I-SPEC-WI45980.                |           |      |        |            |         |              |         |                                                    |         |
| Colour (Apparent)                                                                                | TCU       | 2    | <2     | 102        | 78-116  |              |         | 4                                                  | 0-40    |
| Associated Samples : 9869172                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-14<br>Analysis Date: 2026-07-15 |         |
| Colour, True (Water, Spectrophotometry)                                                          |           |      |        |            |         |              |         |                                                    |         |
| Method : Colour (Water, Spectrophotometric). Internal method: OTT-I-SPEC-WI45980.                |           |      |        |            |         |              |         |                                                    |         |
| Colour (True)                                                                                    | TCU       | 2    | <2     | 102        | 78-116  |              |         | -                                                  | 0-40    |
| Associated Samples : 9869172                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-14<br>Analysis Date: 2026-07-15 |         |
| DOC (Water, IR)                                                                                  |           |      |        |            |         |              |         |                                                    |         |
| Method : Organic carbon (water, IR, combustion). Internal method: OTT-I-DEM-WI46148.             |           |      |        |            |         |              |         |                                                    |         |
| Dissolved Organic Carbon                                                                         | mg/L      | 0.5  | <0.5   | 98         | 88-112  | 96           | 85-115  | 7                                                  | 0-15    |
| Associated Samples : 9869172                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-13<br>Analysis Date: 2026-07-14 |         |
| Escherichia coli (DC Plate)                                                                      |           |      |        |            |         |              |         |                                                    |         |
| Method : Total Coliforms and E.Coli by MF (Water, DC plate). Internal method: OTT-M-BAC-WI45296. |           |      |        |            |         |              |         |                                                    |         |
| Escherichia coli (DC)                                                                            | CFU/100mL | 0    | 0      |            |         |              |         | -                                                  | 0-30    |
| Associated Samples : 9869172                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-10<br>Analysis Date: 2026-07-11 |         |
| Fluoride (Water, Auto/ISE)                                                                       |           |      |        |            |         |              |         |                                                    |         |
| Method : Fluoride by autotitrator, ion selective electrode. Internal method: OTT-I-AT-WI45398.   |           |      |        |            |         |              |         |                                                    |         |
| Fluoride                                                                                         | mg/L      | 0.1  | <0.10  | 104        | 90-110  | 102          | 80-120  | -                                                  | 0-20    |
| Associated Samples : 9869172                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-10<br>Analysis Date: 2026-07-13 |         |

## OFFICIAL CERTIFICATE OF ANALYSIS - QUALITY CONTROL

Client : Paterson Group

Project : PH5222

Reception Date: 2026-07-10

| Parameter                                                                       | Unit | RL     | Blank   | QC         |         | Matrix Spike |         | Duplicate                                          |         |
|---------------------------------------------------------------------------------|------|--------|---------|------------|---------|--------------|---------|----------------------------------------------------|---------|
|                                                                                 |      |        |         | Recovery % | Range % | Recovery %   | Range % | RPD %                                              | Range % |
| Metals Scan (Water, ICP/MS)                                                     |      |        |         |            |         |              |         |                                                    |         |
| Method : Metals (Water, ICP/MS). Internal method: AMMTFQE1.                     |      |        |         |            |         |              |         |                                                    |         |
| Aluminum                                                                        | mg/L | 0.01   | <0.01   | 100        | 80-120  | 103          | 70-130  | -                                                  | 0-20    |
| Antimony                                                                        | mg/L | 0.0005 | <0.0005 | 83         | 80-120  | 102          | 70-130  | -                                                  | 0-20    |
| Arsenic                                                                         | mg/L | 0.001  | <0.001  | 99         | 80-120  | 97           | 70-130  | -                                                  | 0-20    |
| Barium                                                                          | mg/L | 0.001  | <0.001  | 100        | 80-120  | 98           | 70-130  | 0                                                  | 0-20    |
| Beryllium                                                                       | mg/L | 0.0005 | <0.0005 | 108        | 80-120  | 97           | 70-130  | -                                                  | 0-20    |
| Boron                                                                           | mg/L | 0.01   | <0.01   | 100        | 80-120  | 94           | 70-130  | -                                                  | 0-20    |
| Cadmium                                                                         | mg/L | 0.0001 | <0.0001 | 101        | 80-120  | 96           | 70-130  | -                                                  | 0-20    |
| Chromium                                                                        | mg/L | 0.001  | <0.001  | 110        | 80-120  | 97           | 70-130  | -                                                  | 0-20    |
| Cobalt                                                                          | mg/L | 0.0002 | <0.0002 | 104        | 80-120  | 90           | 70-130  | -                                                  | 0-20    |
| Copper                                                                          | mg/L | 0.001  | <0.001  | 110        | 80-120  | 91           | 70-130  | -                                                  | 0-20    |
| Iron                                                                            | mg/L | 0.03   | <0.03   | 100        | 80-120  | 92           | 70-130  | -                                                  | 0-20    |
| Lead                                                                            | mg/L | 0.001  | <0.001  | 100        | 80-120  | 85           | 70-130  | -                                                  | 0-20    |
| Manganese                                                                       | mg/L | 0.01   | <0.01   | 100        | 80-120  | 93           | 70-130  | -                                                  | 0-20    |
| Mercury                                                                         | mg/L | 0.0001 | <0.0001 | 91         | 80-120  | 80           | 70-130  | -                                                  | 0-20    |
| Molybdenum                                                                      | mg/L | 0.005  | <0.005  | 100        | 80-120  | 93           | 70-130  | -                                                  | 0-20    |
| Nickel                                                                          | mg/L | 0.005  | <0.005  | 110        | 80-120  | 93           | 70-130  | -                                                  | 0-20    |
| Selenium                                                                        | mg/L | 0.001  | <0.001  | 99         | 80-120  | 98           | 70-130  | -                                                  | 0-20    |
| Silver                                                                          | mg/L | 0.0001 | <0.0001 | 107        | 80-120  | 83           | 70-130  | -                                                  | 0-20    |
| Strontium                                                                       | mg/L | 0.001  | <0.001  | 100        | 80-120  | 94           | 70-130  | 1                                                  | 0-20    |
| Thallium                                                                        | mg/L | 0.0001 | <0.0001 | 101        | 80-120  | 85           | 70-130  | -                                                  | 0-20    |
| Uranium                                                                         | mg/L | 0.001  | <0.001  | 100        | 80-120  | 84           | 70-130  | -                                                  | 0-20    |
| Vanadium                                                                        | mg/L | 0.001  | <0.001  | 100        | 80-120  | 98           | 70-130  | -                                                  | 0-20    |
| Zinc                                                                            | mg/L | 0.01   | <0.01   | 110        | 80-120  | 90           | 70-130  | -                                                  | 0-20    |
| Associated Samples : 9869172                                                    |      |        |         |            |         |              |         | Prep Date: 2026-07-13<br>Analysis Date: 2026-07-13 |         |
| Metals Scan (Water, ICP/OES)                                                    |      |        |         |            |         |              |         |                                                    |         |
| Method : Metals (Water, ICP/OES). Internal method: OTT-I-MET-WI48491.           |      |        |         |            |         |              |         |                                                    |         |
| Calcium                                                                         | mg/L | 1      | <1      | 100        | 70-130  | 97           | 70-130  | 0                                                  | 0-20    |
| Magnesium                                                                       | mg/L | 1      | <1      | 101        | 70-130  | 106          | 70-130  | 0                                                  | 0-20    |
| Potassium                                                                       | mg/L | 1      | <1      | 99         | 70-130  | 103          | 70-130  | -                                                  | 0-20    |
| Sodium                                                                          | mg/L | 1      | <1      | 101        | 70-130  | 102          | 70-130  | 0                                                  | 0-20    |
| Associated Samples : 9869172                                                    |      |        |         |            |         |              |         | Prep Date: 2026-07-15<br>Analysis Date: 2026-07-10 |         |
| Nitrate (Water, IC)                                                             |      |        |         |            |         |              |         |                                                    |         |
| Method : Anions (Water, Ion Chromatography). Internal method: OTT-I-IC-WI45985. |      |        |         |            |         |              |         |                                                    |         |
| Nitrate (as Nitrogen)                                                           | mg/L | 0.1    | <0.1    | 100        | 80-120  | 101          | 80-120  | 3                                                  | 0-20    |
| Associated Samples : 9869172                                                    |      |        |         |            |         |              |         | Prep Date: 2026-07-13<br>Analysis Date: 2026-07-14 |         |
| Nitrite (Water, IC)                                                             |      |        |         |            |         |              |         |                                                    |         |
| Method : Anions (Water, Ion Chromatography). Internal method: OTT-I-IC-WI45985. |      |        |         |            |         |              |         |                                                    |         |
| Nitrite (as Nitrogen)                                                           | mg/L | 0.1    | <0.1    | 99         | 80-120  | 103          | 80-120  | -                                                  | 0-20    |
| Associated Samples : 9869172                                                    |      |        |         |            |         |              |         | Prep Date: 2026-07-13<br>Analysis Date: 2026-07-14 |         |
| Phenols (Water, Colorimetry)                                                    |      |        |         |            |         |              |         |                                                    |         |
| Method : Phenols (Water, Colorimetry). Internal method: OTT-I-4AAP-WI46150.     |      |        |         |            |         |              |         |                                                    |         |
| Phenols-4AAP                                                                    | mg/L | 0.001  | <0.001  | 101        | 75-125  | 78           | 70-130  | 4                                                  | 0-20    |
| Associated Samples : 9869172                                                    |      |        |         |            |         |              |         | Prep Date: 2026-07-13<br>Analysis Date: 2026-07-13 |         |

## OFFICIAL CERTIFICATE OF ANALYSIS - QUALITY CONTROL

Client : Paterson Group

Project : PH5222

Reception Date: 2026-07-10

| Parameter                                                                                        | Unit      | RL   | Blank  | QC         |         | Matrix Spike |         | Duplicate                                          |         |
|--------------------------------------------------------------------------------------------------|-----------|------|--------|------------|---------|--------------|---------|----------------------------------------------------|---------|
|                                                                                                  |           |      |        | Recovery % | Range % | Recovery %   | Range % | RPD %                                              | Range % |
| Sulphate (Water, IC)                                                                             |           |      |        |            |         |              |         |                                                    |         |
| Method : Anions (Water, Ion Chromatography). Internal method: OTT-I-IC-WI45985.                  |           |      |        |            |         |              |         |                                                    |         |
| Sulphate                                                                                         | mg/L      | 1    | <1     | 101        | 90-110  | 108          | 80-120  | 0                                                  | 0-20    |
| Associated Samples : 9869172                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-13<br>Analysis Date: 2026-07-14 |         |
| Sulphide (Water, Colorimetry)                                                                    |           |      |        |            |         |              |         |                                                    |         |
| Method : Sulphide, S2- (Water, Colorimetry). Internal method: OTT-I-SPEC-WI45931.                |           |      |        |            |         |              |         |                                                    |         |
| Sulphide (S2-)                                                                                   | mg/L      | 0.01 | <0.01  | 66         | 48-131  |              |         | -                                                  | 0-20    |
| Associated Samples : 9869172                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-14<br>Analysis Date: 2026-07-14 |         |
| Tannin and Lignin (Water, Spec)                                                                  |           |      |        |            |         |              |         |                                                    |         |
| Method : Tannin and Lignin (Water, Spec), Internal method: OTT-I-SPEC-WI57693.                   |           |      |        |            |         |              |         |                                                    |         |
| Tannin and Lignin                                                                                | mg/L      | 0.1  | <0.1   | 100        | 80-120  |              |         | -                                                  | 0-20    |
| Associated Samples : 9869172                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-14<br>Analysis Date: 2026-07-14 |         |
| Total Coliforms (DC Plate)                                                                       |           |      |        |            |         |              |         |                                                    |         |
| Method : Total Coliforms and E.Coli by MF (Water, DC plate). Internal method: OTT-M-BAC-WI45296. |           |      |        |            |         |              |         |                                                    |         |
| Total Coliforms (DC)                                                                             | CFU/100mL | 0    | 0      |            |         |              |         | -                                                  | 0-30    |
| Associated Samples : 9869172                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-10<br>Analysis Date: 2026-07-11 |         |
| Total Kjeldahl Nitrogen (Water, Colorimetry)                                                     |           |      |        |            |         |              |         |                                                    |         |
| Method : TKN (Water, colorimetry). Internal method: OTT-I-NUT-WI46201.                           |           |      |        |            |         |              |         |                                                    |         |
| Total Kjeldahl Nitrogen                                                                          | mg/L      | 0.1  | <0.100 | 101        | 70-130  | 106          | 70-130  | -                                                  | 0-20    |
| Associated Samples : 9869172                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-13<br>Analysis Date: 2026-07-14 |         |
| Turbidity (Water, Turbidimeter)                                                                  |           |      |        |            |         |              |         |                                                    |         |
| Method : Turbidity (Water, Turbidimeter). Internal method: OTT-I-TUR-WI46288.                    |           |      |        |            |         |              |         |                                                    |         |
| Turbidity                                                                                        | NTU       | 0.1  | <0.1   | 95         | 80-120  |              |         | -                                                  | 0-30    |
| Associated Samples : 9869172                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-10<br>Analysis Date: 2026-07-10 |         |

Where RPD % is reported as "-" the calculation is not available because one or both of the duplicates is within 5 times the RL.

401 Magnetic Drive, Unit #1, North York, ON, M3J 3H9 - Telephone: 416-661-5287 • 380 Vansickle Road, Unit #630, St. Catharines, ON, L2S 0B5 - Telephone: 905-680-8887 • 608 Norris Court, Kingston, ON, K7P 2R9 - Telephone: 613-634-9307

**OFFICIAL CERTIFICATE OF ANALYSIS : 4758974**
**WORK REQUEST : 100449562**
**Report Date : 2026-07-16**
**Paterson Group**

9 Auriga Drive  
Ottawa, Ontario  
K2J 5Z9  
Attention : Zavian Buchanan

Reception Date : 2026-07-10  
Project : PH5222  
Sampler : NA  
PO Number : 66412  
Temperature : 10 °C

| Analysis                                     | Quantity | External Method                        |
|----------------------------------------------|----------|----------------------------------------|
| Alkalinity (Water, Automated)                | 1        | Modified from SM 2320 B                |
| Ammonia, Total (Water, Colorimetry)          | 1        | Modified from EPA 350.1                |
| Chloride (Water, IC)                         | 1        | Modified from SM 4110 B and C          |
| Colour, Apparent (Water, Spectrophotometry)  | 1        | Modified from SM 2120 C                |
| Colour, True (Water, Spectrophotometry)      | 1        | Modified from SM 2120 C                |
| Conductivity (Water, Automated)              | 1        | Modified from SM 2510 B                |
| DOC (Water, IR)                              | 1        | Modified from SM 5310 B                |
| Escherichia coli (DC Plate)                  | 1        | Modified from MECP E3407               |
| Fluoride (Water, Auto/ISE)                   | 1        | Modified from SM 4500-F A and 4500-F C |
| Hardness (Water, Calculation Only)           | 1        | SM 2340 B                              |
| Ion Balance (Water, Calculation)             | 1        | Modified from SM1030 E                 |
| Metals Scan (Water, ICP/MS)                  | 1        | Modified from EPA 200.8                |
| Metals Scan (Water, ICP/OES)                 | 1        | Modified from SM 3120 B                |
| Nitrate (Water, IC)                          | 1        | Modified from SM 4110 B and C          |
| Nitrite (Water, IC)                          | 1        | Modified from SM 4110 B and C          |
| pH (25°C) (Water, Automated)                 | 1        | Modified from SM 4500-H+ B             |
| Phenols (Water, Colorimetry)                 | 1        | Modified from EPA 420.2                |
| Sulphate (Water, IC)                         | 1        | Modified from SM 4110 B and C          |
| Sulphide (Water, Colorimetry)                | 1        | Modified from SM 4500-S2 D             |
| Tannin and Lignin (Water, Spec)              | 1        | Modified from SM 5550 B                |
| TDS (Estimated)                              | 1        | Modified from SM 2510 A                |
| Total Coliforms (DC Plate)                   | 1        | Modified from MECP E3407               |
| Total Kjeldahl Nitrogen (Water, Colorimetry) | 1        | Modified from EPA 351.2                |
| Turbidity (Water, Turbidimeter)              | 1        | Modified from SM 2130 B                |

**Criteria :**
**A :** Ontario Regulation 169/03 (Non-Regulated Drinking Water)

**Sample status upon receipt :**

9869244

**Compliant**
**Certificate Comments :**

9869244

**N-NO2 and N-NO3 MRLs increased due to matrix interference.**
**Notes :**

- All analysis is completed at Eurofins Environment Testing Canada Inc. (Ottawa, Ontario) unless otherwise stated.
- Eurofins Environment Testing Canada Inc. is accredited by CALA, Canadian Association for Laboratory Accreditation to ISO/IEC 17025 for tests which appear on the scope of accreditation. The scope is available at <https://directory.cala.ca/>
- Please note: Field data, where presented on the report, has been provided by the client and is presented for informational purposes only. Guideline or regulatory limits listed on this report are provided for ease of use (informational purposes) only. Eurofins recommends consulting the official guideline or regulation as required. Unless otherwise stated, measurement uncertainty is not taken into account when determining guideline or regulatory exceedances.

**Legend :**

RL : Reporting limit

QC : Reference material (QC)

N/A : Not applicable

1 : Results in annex

\* : Analysis conducted by external subcontracting

^ : Analysis not accredited

## OFFICIAL CERTIFICATE OF ANALYSIS - EXCEEDENCE SUMMARY

Client : Paterson Group

Project : PH5222

Reception Date : 2026-07-10

| Eurofins<br>Sample No              | Client Sample<br>Identification | Analyte                         | Result | Units | Exceeded Criteria |   |   |
|------------------------------------|---------------------------------|---------------------------------|--------|-------|-------------------|---|---|
|                                    |                                 |                                 |        |       | A                 | B | C |
| Hardness (Water, Calculation Only) |                                 |                                 |        |       |                   |   |   |
| 9869244                            | 16 Poplarwood                   | Hardness as CaCO3 (Calculation) | 160    | mg/L  | 80-100            |   |   |
| Metals Scan (Water, ICP/OES)       |                                 |                                 |        |       |                   |   |   |
| 9869244                            | 16 Poplarwood                   | Sodium                          | 257    | mg/L  | 200               |   |   |
| TDS (Estimated)                    |                                 |                                 |        |       |                   |   |   |
| 9869244                            | 16 Poplarwood                   | TDS (Estimated)^                | 891    | mg/L  | 500               |   |   |

## OFFICIAL CERTIFICATE OF ANALYSIS - RESULTS

Client : Paterson Group  
Project : PH5222

Reception Date: 2026-07-10

|          |     |      | Eurofins Sample No : <b>9869244</b>          |   |   |     |  |  |  |
|----------|-----|------|----------------------------------------------|---|---|-----|--|--|--|
|          |     |      | Matrix : Groundwater                         |   |   |     |  |  |  |
|          |     |      | Sampling Date : 2026-07-09                   |   |   |     |  |  |  |
|          |     |      | Client Sample Identification : 16 Poplarwood |   |   |     |  |  |  |
| Anions   | RL  | Unit | Criteria                                     |   |   |     |  |  |  |
|          |     |      | A                                            | B | C |     |  |  |  |
| Chloride | 0.5 | mg/L | 250                                          |   |   | 183 |  |  |  |
| Sulphate | 1   | mg/L | 500                                          |   |   | 122 |  |  |  |

|                            |     |      | Eurofins Sample No : <b>9869244</b>          |  |  |  |  |  |  |
|----------------------------|-----|------|----------------------------------------------|--|--|--|--|--|--|
|                            |     |      | Matrix : Groundwater                         |  |  |  |  |  |  |
|                            |     |      | Sampling Date : 2026-07-09                   |  |  |  |  |  |  |
|                            |     |      | Client Sample Identification : 16 Poplarwood |  |  |  |  |  |  |
| Calculations               | RL  | Unit |                                              |  |  |  |  |  |  |
| Ion Balance (Calculation)^ | 0.1 |      | 1.02                                         |  |  |  |  |  |  |

|                                 |       |       | Eurofins Sample No : <b>9869244</b>          |   |   |        |  |  |  |
|---------------------------------|-------|-------|----------------------------------------------|---|---|--------|--|--|--|
|                                 |       |       | Matrix : Groundwater                         |   |   |        |  |  |  |
|                                 |       |       | Sampling Date : 2026-07-09                   |   |   |        |  |  |  |
|                                 |       |       | Client Sample Identification : 16 Poplarwood |   |   |        |  |  |  |
| General Chemistry               | RL    | Unit  | Criteria                                     |   |   |        |  |  |  |
|                                 |       |       | A                                            | B | C |        |  |  |  |
| Alkalinity (as CaCO3)           | 5     | mg/L  | 500                                          |   |   | 329    |  |  |  |
| Colour (Apparent)               | 2     | TCU   | 5                                            |   |   | 3      |  |  |  |
| Colour (True)                   | 2     | TCU   |                                              |   |   | <2     |  |  |  |
| Conductivity @ 25°C             | 5     | µS/cm |                                              |   |   | 1370   |  |  |  |
| Dissolved Organic Carbon        | 0.5   | mg/L  | 5                                            |   |   | 1.3    |  |  |  |
| Fluoride                        | 0.1   | mg/L  | 1.5                                          |   |   | 1.01   |  |  |  |
| Hardness as CaCO3 (Calculation) | 1     | mg/L  | 80-100                                       |   |   | 160    |  |  |  |
| pH @ 25°C                       | 1     |       | 6.5-8.5                                      |   |   | 7.71   |  |  |  |
| Phenols-4AAP                    | 0.001 | mg/L  |                                              |   |   | <0.001 |  |  |  |
| Sulphide (S2-)                  | 0.01  | mg/L  | 0.05                                         |   |   | <0.01  |  |  |  |
| Tannin and Lignin               | 0.1   | mg/L  |                                              |   |   | <0.1   |  |  |  |
| TDS (Estimated)^                | 5     | mg/L  | 500                                          |   |   | 891    |  |  |  |
| Turbidity                       | 0.1   | NTU   | 5                                            |   |   | 0.9    |  |  |  |

## OFFICIAL CERTIFICATE OF ANALYSIS - RESULTS

Client : Paterson Group  
Project : PH5222

Reception Date: 2026-07-10

|                                |  |        |      |          |                  |   |  |  |  |         |  |  |  |  |
|--------------------------------|--|--------|------|----------|------------------|---|--|--|--|---------|--|--|--|--|
| Eurofins Sample No :           |  |        |      |          | 9869244          |   |  |  |  |         |  |  |  |  |
| Matrix :                       |  |        |      |          | Groundwater      |   |  |  |  |         |  |  |  |  |
| Sampling Date :                |  |        |      |          | 2026-07-09       |   |  |  |  |         |  |  |  |  |
| Client Sample Identification : |  |        |      |          | 16<br>Poplarwood |   |  |  |  |         |  |  |  |  |
| Metals                         |  | RL     | Unit | Criteria |                  |   |  |  |  |         |  |  |  |  |
|                                |  |        |      | A        | B                | C |  |  |  |         |  |  |  |  |
| Metals Scan (Water, ICP/MS)    |  |        |      |          |                  |   |  |  |  |         |  |  |  |  |
| Aluminum                       |  | 0.01   | mg/L | 0.1      |                  |   |  |  |  | <0.01   |  |  |  |  |
| Antimony                       |  | 0.0005 | mg/L | 0.006    |                  |   |  |  |  | <0.0005 |  |  |  |  |
| Arsenic                        |  | 0.001  | mg/L | 0.01     |                  |   |  |  |  | <0.001  |  |  |  |  |
| Barium                         |  | 0.001  | mg/L | 1        |                  |   |  |  |  | 0.031   |  |  |  |  |
| Beryllium                      |  | 0.0005 | mg/L |          |                  |   |  |  |  | <0.0005 |  |  |  |  |
| Boron                          |  | 0.01   | mg/L | 5        |                  |   |  |  |  | 0.96    |  |  |  |  |
| Cadmium                        |  | 0.0001 | mg/L | 0.005    |                  |   |  |  |  | <0.0001 |  |  |  |  |
| Chromium                       |  | 0.001  | mg/L | 0.05     |                  |   |  |  |  | <0.001  |  |  |  |  |
| Cobalt                         |  | 0.0002 | mg/L |          |                  |   |  |  |  | <0.0002 |  |  |  |  |
| Copper                         |  | 0.001  | mg/L | 1        |                  |   |  |  |  | 0.005   |  |  |  |  |
| Iron                           |  | 0.03   | mg/L | 0.3      |                  |   |  |  |  | 0.10    |  |  |  |  |
| Lead                           |  | 0.001  | mg/L | 0.01     |                  |   |  |  |  | <0.001  |  |  |  |  |
| Manganese                      |  | 0.01   | mg/L | 0.05     |                  |   |  |  |  | 0.01    |  |  |  |  |
| Mercury                        |  | 0.0001 | mg/L | 0.001    |                  |   |  |  |  | <0.0001 |  |  |  |  |
| Molybdenum                     |  | 0.005  | mg/L |          |                  |   |  |  |  | <0.005  |  |  |  |  |
| Nickel                         |  | 0.005  | mg/L |          |                  |   |  |  |  | <0.005  |  |  |  |  |
| Selenium                       |  | 0.001  | mg/L | 0.05     |                  |   |  |  |  | <0.001  |  |  |  |  |
| Silver                         |  | 0.0001 | mg/L |          |                  |   |  |  |  | <0.0001 |  |  |  |  |
| Strontium                      |  | 0.001  | mg/L |          |                  |   |  |  |  | 8.86    |  |  |  |  |
| Thallium                       |  | 0.0001 | mg/L |          |                  |   |  |  |  | <0.0001 |  |  |  |  |
| Uranium                        |  | 0.001  | mg/L | 0.02     |                  |   |  |  |  | <0.001  |  |  |  |  |
| Vanadium                       |  | 0.001  | mg/L |          |                  |   |  |  |  | <0.001  |  |  |  |  |
| Zinc                           |  | 0.01   | mg/L | 5        |                  |   |  |  |  | <0.01   |  |  |  |  |
| Metals Scan (Water, ICP/OES)   |  |        |      |          |                  |   |  |  |  |         |  |  |  |  |
| Calcium                        |  | 1      | mg/L |          |                  |   |  |  |  | 36      |  |  |  |  |
| Magnesium                      |  | 1      | mg/L |          |                  |   |  |  |  | 17      |  |  |  |  |
| Potassium                      |  | 1      | mg/L |          |                  |   |  |  |  | 6       |  |  |  |  |
| Sodium                         |  | 1      | mg/L | 200      |                  |   |  |  |  | 257     |  |  |  |  |

|                       |    |           | Eurofins Sample No : <b>9869244</b> |   |   |   |  |  |  |
|-----------------------|----|-----------|-------------------------------------|---|---|---|--|--|--|
|                       |    |           | Matrix : Groundwater                |   |   |   |  |  |  |
|                       |    |           | Sampling Date : 2026-07-09          |   |   |   |  |  |  |
|                       |    |           | Client Sample Identification : 16   |   |   |   |  |  |  |
|                       |    |           | Poplarwood                          |   |   |   |  |  |  |
| Microbiology          | RL | Unit      | Criteria                            |   |   |   |  |  |  |
|                       |    |           | A                                   | B | C |   |  |  |  |
| Escherichia coli (DC) | 0  | CFU/100mL | 0                                   |   |   | 0 |  |  |  |
| Total Coliforms (DC)  | 0  | CFU/100mL | 0                                   |   |   | 0 |  |  |  |

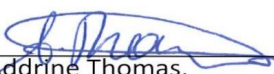
## OFFICIAL CERTIFICATE OF ANALYSIS - RESULTS

Client : Paterson Group  
Project : PH5222

Reception Date: 2026-07-10

|                              |      |      | Eurofins Sample No : <b>9869244</b> |   |   |       |  |  |  |
|------------------------------|------|------|-------------------------------------|---|---|-------|--|--|--|
|                              |      |      | Matrix : Groundwater                |   |   |       |  |  |  |
|                              |      |      | Sampling Date : 2026-07-09          |   |   |       |  |  |  |
|                              |      |      | Client Sample Identification : 16   |   |   |       |  |  |  |
|                              |      |      | Poplarwood                          |   |   |       |  |  |  |
| Nutrients                    | RL   | Unit | Criteria                            |   |   |       |  |  |  |
|                              |      |      | A                                   | B | C |       |  |  |  |
| Ammonia (Total, as Nitrogen) | 0.02 | mg/L |                                     |   |   | 0.219 |  |  |  |
| Nitrate (as Nitrogen)        | 0.1  | mg/L | 10.0                                |   |   | <0.5  |  |  |  |
| Nitrite (as Nitrogen)        | 0.1  | mg/L | 1.0                                 |   |   | <0.5  |  |  |  |
| Total Kjeldahl Nitrogen      | 0.1  | mg/L |                                     |   |   | 0.390 |  |  |  |

Approved by :

  
Addrine Thomas,  
Chemistry Manager, Ottawa

Approved by :

  
Emma-Dawn Ferguson, M.Sc.  
Environmental Chemist

## OFFICIAL CERTIFICATE OF ANALYSIS - QUALITY CONTROL

Client : Paterson Group

Project : PH5222

Reception Date: 2026-07-10

| Parameter                                                                                        | Unit      | RL   | Blank  | QC         |         | Matrix Spike |         | Duplicate                                          |         |
|--------------------------------------------------------------------------------------------------|-----------|------|--------|------------|---------|--------------|---------|----------------------------------------------------|---------|
|                                                                                                  |           |      |        | Recovery % | Range % | Recovery %   | Range % | RPD %                                              | Range % |
| Ammonia, Total (Water, Colorimetry)                                                              |           |      |        |            |         |              |         |                                                    |         |
| Method : Ammonia (Water, Colorimetry). Internal method: OTT-I-NUT-WI46201.                       |           |      |        |            |         |              |         |                                                    |         |
| Ammonia (Total, as Nitrogen)                                                                     | mg/L      | 0.02 | <0.020 | 97         | 80-120  | 103          | 80-120  | -                                                  | 0-20    |
| Associated Samples : 9869244                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-14<br>Analysis Date: 2026-07-14 |         |
| Chloride (Water, IC)                                                                             |           |      |        |            |         |              |         |                                                    |         |
| Method : Anions (Water, Ion Chromatography). Internal method: OTT-I-IC-WI45985.                  |           |      |        |            |         |              |         |                                                    |         |
| Chloride                                                                                         | mg/L      | 0.5  | <0.5   | 95         | 80-120  | 109          | 80-120  |                                                    |         |
| Associated Samples : 9869244                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-13<br>Analysis Date: 2026-07-14 |         |
| Colour, Apparent (Water, Spectrophotometry)                                                      |           |      |        |            |         |              |         |                                                    |         |
| Method : Colour (Water, Spectrophotometric). Internal method: OTT-I-SPEC-WI45980.                |           |      |        |            |         |              |         |                                                    |         |
| Colour (Apparent)                                                                                | TCU       | 2    | <2     | 102        | 78-116  |              |         | 4                                                  | 0-40    |
| Associated Samples : 9869244                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-14<br>Analysis Date: 2026-07-15 |         |
| Colour, True (Water, Spectrophotometry)                                                          |           |      |        |            |         |              |         |                                                    |         |
| Method : Colour (Water, Spectrophotometric). Internal method: OTT-I-SPEC-WI45980.                |           |      |        |            |         |              |         |                                                    |         |
| Colour (True)                                                                                    | TCU       | 2    | <2     | 102        | 78-116  |              |         | -                                                  | 0-40    |
| Associated Samples : 9869244                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-14<br>Analysis Date: 2026-07-15 |         |
| DOC (Water, IR)                                                                                  |           |      |        |            |         |              |         |                                                    |         |
| Method : Organic carbon (water, IR, combustion). Internal method: OTT-I-DEM-WI46148.             |           |      |        |            |         |              |         |                                                    |         |
| Dissolved Organic Carbon                                                                         | mg/L      | 0.5  | <0.5   | 98         | 88-112  | 96           | 85-115  | -                                                  | 0-15    |
| Associated Samples : 9869244                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-13<br>Analysis Date: 2026-07-14 |         |
| Escherichia coli (DC Plate)                                                                      |           |      |        |            |         |              |         |                                                    |         |
| Method : Total Coliforms and E.Coli by MF (Water, DC plate). Internal method: OTT-M-BAC-WI45296. |           |      |        |            |         |              |         |                                                    |         |
| Escherichia coli (DC)                                                                            | CFU/100mL | 0    | 0      |            |         |              |         | -                                                  | 0-30    |
| Associated Samples : 9869244                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-10<br>Analysis Date: 2026-07-11 |         |
| Fluoride (Water, Auto/ISE)                                                                       |           |      |        |            |         |              |         |                                                    |         |
| Method : Fluoride by autotitrator, ion selective electrode. Internal method: OTT-I-AT-WI45398.   |           |      |        |            |         |              |         |                                                    |         |
| Fluoride                                                                                         | mg/L      | 0.1  | <0.10  | 104        | 90-110  | 102          | 80-120  | 0                                                  | 0-20    |
| Associated Samples : 9869244                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-10<br>Analysis Date: 2026-07-13 |         |

## OFFICIAL CERTIFICATE OF ANALYSIS - QUALITY CONTROL

Client : Paterson Group

Project : PH5222

Reception Date: 2026-07-10

| Parameter                                                                       | Unit | RL     | Blank   | QC         |         | Matrix Spike |         | Duplicate                                          |         |
|---------------------------------------------------------------------------------|------|--------|---------|------------|---------|--------------|---------|----------------------------------------------------|---------|
|                                                                                 |      |        |         | Recovery % | Range % | Recovery %   | Range % | RPD %                                              | Range % |
| Metals Scan (Water, ICP/MS)                                                     |      |        |         |            |         |              |         |                                                    |         |
| Method : Metals (Water, ICP/MS). Internal method: AMMTFQE1.                     |      |        |         |            |         |              |         |                                                    |         |
| Aluminum                                                                        | mg/L | 0.01   | <0.01   | 100        | 80-120  | 112          | 70-130  | -                                                  | 0-20    |
| Antimony                                                                        | mg/L | 0.0005 | <0.0005 | 83         | 80-120  | 110          | 70-130  | -                                                  | 0-20    |
| Arsenic                                                                         | mg/L | 0.001  | <0.001  | 99         | 80-120  | 102          | 70-130  | -                                                  | 0-20    |
| Barium                                                                          | mg/L | 0.001  | <0.001  | 100        | 80-120  | 103          | 70-130  | 0                                                  | 0-20    |
| Beryllium                                                                       | mg/L | 0.0005 | <0.0005 | 108        | 80-120  | 111          | 70-130  | -                                                  | 0-20    |
| Boron                                                                           | mg/L | 0.01   | <0.01   | 100        | 80-120  | 104          | 70-130  | -                                                  | 0-20    |
| Cadmium                                                                         | mg/L | 0.0001 | <0.0001 | 101        | 80-120  | 103          | 70-130  | -                                                  | 0-20    |
| Chromium                                                                        | mg/L | 0.001  | <0.001  | 110        | 80-120  | 101          | 70-130  | -                                                  | 0-20    |
| Cobalt                                                                          | mg/L | 0.0002 | <0.0002 | 104        | 80-120  | 94           | 70-130  | -                                                  | 0-20    |
| Copper                                                                          | mg/L | 0.001  | <0.001  | 110        | 80-120  | 92           | 70-130  | -                                                  | 0-20    |
| Iron                                                                            | mg/L | 0.03   | <0.03   | 100        | 80-120  | 96           | 70-130  | -                                                  | 0-20    |
| Lead                                                                            | mg/L | 0.001  | <0.001  | 100        | 80-120  | 90           | 70-130  | -                                                  | 0-20    |
| Manganese                                                                       | mg/L | 0.01   | <0.01   | 100        | 80-120  | 99           | 70-130  | -                                                  | 0-20    |
| Mercury                                                                         | mg/L | 0.0001 | <0.0001 | 91         | 80-120  | 80           | 70-130  | -                                                  | 0-20    |
| Molybdenum                                                                      | mg/L | 0.005  | <0.005  | 100        | 80-120  | 97           | 70-130  | -                                                  | 0-20    |
| Nickel                                                                          | mg/L | 0.005  | <0.005  | 110        | 80-120  | 96           | 70-130  | -                                                  | 0-20    |
| Selenium                                                                        | mg/L | 0.001  | <0.001  | 99         | 80-120  | 103          | 70-130  | -                                                  | 0-20    |
| Silver                                                                          | mg/L | 0.0001 | <0.0001 | 107        | 80-120  | 89           | 70-130  | -                                                  | 0-20    |
| Strontium                                                                       | mg/L | 0.001  | <0.001  | 100        | 80-120  | 100          | 70-130  | 1                                                  | 0-20    |
| Thallium                                                                        | mg/L | 0.0001 | <0.0001 | 101        | 80-120  | 90           | 70-130  | -                                                  | 0-20    |
| Uranium                                                                         | mg/L | 0.001  | <0.001  | 100        | 80-120  | 90           | 70-130  | -                                                  | 0-20    |
| Vanadium                                                                        | mg/L | 0.001  | <0.001  | 100        | 80-120  | 103          | 70-130  | -                                                  | 0-20    |
| Zinc                                                                            | mg/L | 0.01   | <0.01   | 110        | 80-120  | 100          | 70-130  | -                                                  | 0-20    |
| Associated Samples : 9869244                                                    |      |        |         |            |         |              |         | Prep Date: 2026-07-13<br>Analysis Date: 2026-07-13 |         |
| Metals Scan (Water, ICP/OES)                                                    |      |        |         |            |         |              |         |                                                    |         |
| Method : Metals (Water, ICP/OES). Internal method: OTT-I-MET-WI48491.           |      |        |         |            |         |              |         |                                                    |         |
| Calcium                                                                         | mg/L | 1      | <1      | 100        | 70-130  | 97           | 70-130  | 0                                                  | 0-20    |
| Magnesium                                                                       | mg/L | 1      | <1      | 101        | 70-130  | 106          | 70-130  | 0                                                  | 0-20    |
| Potassium                                                                       | mg/L | 1      | <1      | 99         | 70-130  | 103          | 70-130  | -                                                  | 0-20    |
| Sodium                                                                          | mg/L | 1      | <1      | 101        | 70-130  | 102          | 70-130  | 0                                                  | 0-20    |
| Associated Samples : 9869244                                                    |      |        |         |            |         |              |         | Prep Date: 2026-07-15<br>Analysis Date: 2026-07-10 |         |
| Nitrate (Water, IC)                                                             |      |        |         |            |         |              |         |                                                    |         |
| Method : Anions (Water, Ion Chromatography). Internal method: OTT-I-IC-WI45985. |      |        |         |            |         |              |         |                                                    |         |
| Nitrate (as Nitrogen)                                                           | mg/L | 0.1    | <0.1    | 100        | 80-120  | 101          | 80-120  | 3                                                  | 0-20    |
| Associated Samples : 9869244                                                    |      |        |         |            |         |              |         | Prep Date: 2026-07-13<br>Analysis Date: 2026-07-14 |         |
| Nitrite (Water, IC)                                                             |      |        |         |            |         |              |         |                                                    |         |
| Method : Anions (Water, Ion Chromatography). Internal method: OTT-I-IC-WI45985. |      |        |         |            |         |              |         |                                                    |         |
| Nitrite (as Nitrogen)                                                           | mg/L | 0.1    | <0.1    | 99         | 80-120  | 103          | 80-120  | -                                                  | 0-20    |
| Associated Samples : 9869244                                                    |      |        |         |            |         |              |         | Prep Date: 2026-07-13<br>Analysis Date: 2026-07-14 |         |
| Phenols (Water, Colorimetry)                                                    |      |        |         |            |         |              |         |                                                    |         |
| Method : Phenols (Water, Colorimetry). Internal method: OTT-I-4AAP-WI46150.     |      |        |         |            |         |              |         |                                                    |         |
| Phenols-4AAP                                                                    | mg/L | 0.001  | <0.001  | 101        | 75-125  | 78           | 70-130  | 4                                                  | 0-20    |
| Associated Samples : 9869244                                                    |      |        |         |            |         |              |         | Prep Date: 2026-07-13<br>Analysis Date: 2026-07-13 |         |

## OFFICIAL CERTIFICATE OF ANALYSIS - QUALITY CONTROL

Client : Paterson Group

Project : PH5222

Reception Date: 2026-07-10

| Parameter                                                                                        | Unit      | RL   | Blank  | QC         |         | Matrix Spike |         | Duplicate                                          |         |
|--------------------------------------------------------------------------------------------------|-----------|------|--------|------------|---------|--------------|---------|----------------------------------------------------|---------|
|                                                                                                  |           |      |        | Recovery % | Range % | Recovery %   | Range % | RPD %                                              | Range % |
| Sulphate (Water, IC)                                                                             |           |      |        |            |         |              |         |                                                    |         |
| Method : Anions (Water, Ion Chromatography). Internal method: OTT-I-IC-WI45985.                  |           |      |        |            |         |              |         |                                                    |         |
| Sulphate                                                                                         | mg/L      | 1    | <1     | 101        | 90-110  | 108          | 80-120  | 0                                                  | 0-20    |
| Associated Samples : 9869244                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-13<br>Analysis Date: 2026-07-14 |         |
| Sulphide (Water, Colorimetry)                                                                    |           |      |        |            |         |              |         |                                                    |         |
| Method : Sulphide, S2- (Water, Colorimetry). Internal method: OTT-I-SPEC-WI45931.                |           |      |        |            |         |              |         |                                                    |         |
| Sulphide (S2-)                                                                                   | mg/L      | 0.01 | <0.01  | 63         | 48-131  |              |         | -                                                  | 0-20    |
| Associated Samples : 9869244                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-15<br>Analysis Date: 2026-07-16 |         |
| Tannin and Lignin (Water, Spec)                                                                  |           |      |        |            |         |              |         |                                                    |         |
| Method : Tannin and Lignin (Water, Spec), Internal method: OTT-I-SPEC-WI57693.                   |           |      |        |            |         |              |         |                                                    |         |
| Tannin and Lignin                                                                                | mg/L      | 0.1  | <0.1   | 100        | 80-120  |              |         | -                                                  | 0-20    |
| Associated Samples : 9869244                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-14<br>Analysis Date: 2026-07-14 |         |
| Total Coliforms (DC Plate)                                                                       |           |      |        |            |         |              |         |                                                    |         |
| Method : Total Coliforms and E.Coli by MF (Water, DC plate). Internal method: OTT-M-BAC-WI45296. |           |      |        |            |         |              |         |                                                    |         |
| Total Coliforms (DC)                                                                             | CFU/100mL | 0    | 0      |            |         |              |         | -                                                  | 0-30    |
| Associated Samples : 9869244                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-10<br>Analysis Date: 2026-07-11 |         |
| Total Kjeldahl Nitrogen (Water, Colorimetry)                                                     |           |      |        |            |         |              |         |                                                    |         |
| Method : TKN (Water, colorimetry). Internal method: OTT-I-NUT-WI46201.                           |           |      |        |            |         |              |         |                                                    |         |
| Total Kjeldahl Nitrogen                                                                          | mg/L      | 0.1  | <0.100 | 101        | 70-130  | 106          | 70-130  | -                                                  | 0-20    |
| Associated Samples : 9869244                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-13<br>Analysis Date: 2026-07-14 |         |
| Turbidity (Water, Turbidimeter)                                                                  |           |      |        |            |         |              |         |                                                    |         |
| Method : Turbidity (Water, Turbidimeter). Internal method: OTT-I-TUR-WI46288.                    |           |      |        |            |         |              |         |                                                    |         |
| Turbidity                                                                                        | NTU       | 0.1  | <0.1   | 95         | 80-120  |              |         | -                                                  | 0-30    |
| Associated Samples : 9869244                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-10<br>Analysis Date: 2026-07-10 |         |

Where RPD % is reported as "-" the calculation is not available because one or both of the duplicates is within 5 times the RL.

| CLIENT INFORMATION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |                     |  |               |                 |                          |                          | INVOICE INFORMATION (SAME AS CLIENT INFORMATION: YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                                     |                                     |                          |                                          |              |           |                    |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|---------------------|--|---------------|-----------------|--------------------------|--------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|-------------------------------------|-------------------------------------|--------------------------|------------------------------------------|--------------|-----------|--------------------|
| Company: Paterson Group                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |                     |  |               |                 |                          |                          | Company:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                                     |                                     |                          |                                          |              |           |                    |
| Contact: Zavlan Buchanan                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |                     |  |               |                 |                          |                          | Contact:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                          |                          |                          |                          |                          |                          |                          | Email: #1:               |                          |                          |                                     |                                     |                          |                                          |              |           |                    |
| Address: 9 Aurliga Drive, Ottawa, ON                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |                     |  |               |                 |                          |                          | Address:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                          |                          |                          |                          |                          |                          |                          | Email: #2:               |                          |                          |                                     |                                     |                          |                                          |              |           |                    |
| Telephone: 6132237368                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |                     |  | Cell:         |                 |                          |                          | Telephone:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                          |                          |                          |                          |                          |                          |                          | PO #: 66412              |                          |                          |                                     |                                     |                          |                                          |              |           |                    |
| Email: #1: zbuchanan@patersongroup.ca                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |                     |  |               |                 |                          |                          | <b>REGULATION/GUIDELINE REQUIRED</b><br><br>Sanitary Sewer, City: <u>Ottawa</u><br><br>Storm Sewer, City: <u>Ottawa</u><br><br><input checked="" type="checkbox"/> ODWSOG (Use DW COC if samples are for human consumption)<br><br>PWQO<br><br><input type="checkbox"/> O.Reg. 347 (TCLP)<br><br>Other: _____<br><br><input type="checkbox"/> O. Reg. 153/04<br><br>The sample results from this submission will form part of a formal Record of Site Condition (RSC) under O.Reg. 153/04.<br>Analysis of full parameter list only<br>Yes <input type="checkbox"/> No <input type="checkbox"/><br><br><input type="checkbox"/> O. Reg. 406 Excess Soils<br><br>Table # _____ Coarse / Fine, Surface / subsurface<br>Type: Com-Ind / Res-Park / Agri / GW / All Other / Sediment<br>Full depth/Strat/Ceiling/mSPLP Leachate<br>Type: Com-Ind / Res-Park / Agri/All Other<br>Category: Surface /Subsurface |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                                     |                                     |                          |                                          |              |           |                    |
| Project: PH5222                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |                     |  | Quote #:      |                 |                          |                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                                     |                                     |                          |                                          |              |           |                    |
| <b>TURN-AROUND TIME (Business Days)</b><br><input type="checkbox"/> 1 Day* (100%) <input type="checkbox"/> 2 Day** (50%) <input type="checkbox"/> 3-5 Days (25%) <input checked="" type="checkbox"/> 5-7 Days (Standard)                                                                                                                                                                                                                                                                                   |  |                     |  |               |                 |                          |                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                                     |                                     |                          |                                          |              |           |                    |
| Please contact Lab in advance to determine rush availability. *For results reported after rush due date, surcharges will apply: before 12:00 - 100%, after 12:00 - 50%. **For results reported after rush due date, surcharges will apply: before 12:00 - 50%, after 12:00 - 25%.                                                                                                                                                                                                                          |  |                     |  |               |                 |                          |                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                                     |                                     |                          |                                          |              |           |                    |
| TCLP, SPLP, PFAS, and NP/NPE the rush surcharges are 100% (3 day) and 50% (4 day). For farm soils the rush surcharge is 100% (3-5 days). Regular TAT is 10 days.                                                                                                                                                                                                                                                                                                                                           |  |                     |  |               |                 |                          |                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                                     |                                     |                          |                                          |              |           |                    |
| The optimal temperature conditions during transport is 4 - 10°C. Sample(s) cannot be frozen, unless otherwise indicated or agreed upon with the Laboratory. This COC must not be used for drinking water samples. The COC must be complete upon submission of the samples, there will be a \$25 surcharge if required information is missing (required fields are shaded in grey).                                                                                                                         |  |                     |  |               |                 |                          |                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                                     |                                     |                          |                                          |              |           |                    |
| Occasionally, situations arise in which Eurofins Environment Testing Canada (Ottawa) is unable to process a sample after receipt. By signing this chain-of-custody form, the client agrees that Eurofins Environment Testing Canada (Ottawa) may subcontract samples to a laboratory that is similarly accredited. This subcontracted laboratory will perform the same analysis using the same or similar methodology. Agreements made in advance to subcontract to a specific laboratory will be honored. |  |                     |  |               |                 |                          |                          | <b>Sample Details</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                                     |                                     |                          |                                          |              |           |                    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |                     |  |               |                 |                          |                          | Field Filtered -->                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                                     |                                     |                          |                                          |              |           |                    |
| Sample ID                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  | Date/Time Collected |  | Sample Matrix | # of Containers | O.Reg.153/04 parameters  |                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                          |                          |                          |                          |                          |                          |                          | See attached paper       | N-NH3                    | N-NO2                    | N-NO3                               | TKN                                 | Organic Nitrogen         | Substrate Supply Package (Select 2 only) | Trace Metals | Manganese | RN# (Lab Use Only) |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |                     |  |               |                 | PHC FL - F4              | BTEX                     | VOCs                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | PAHs                     | PCBs                     | Metals + Inorganics      | Metals only              |                          |                          |                          |                          |                          |                          |                                     |                                     |                          |                                          |              |           |                    |
| 16 Poplarwood                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | July 9, 2026        |  | GW            | 6               | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 9869244                                  |              |           |                    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |                     |  |               |                 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |                          |                                          |              |           |                    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |                     |  |               |                 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |                          |                                          |              |           |                    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |                     |  |               |                 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |                          |                                          |              |           |                    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |                     |  |               |                 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |                          |                                          |              |           |                    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |                     |  |               |                 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |                          |                                          |              |           |                    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |                     |  |               |                 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |                          |                                          |              |           |                    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |                     |  |               |                 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |                          |                                          |              |           |                    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |                     |  |               |                 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |                          |                                          |              |           |                    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |                     |  |               |                 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |                          |                                          |              |           |                    |
| PRINT NAME                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  | LOCATION            |  |               |                 | SIGN                     |                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                          |                          |                          |                          |                          |                          |                          | DATE/TIME                |                          | TEMP. (°C)               |                                     |                                     |                          |                                          |              |           |                    |
| Sampled By:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  | Max Rubarth         |  | Ottawa        |                 |                          |                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                          |                          |                          |                          |                          |                          |                          | July 9, 2026             |                          |                          |                                     |                                     |                          |                                          |              |           |                    |
| Relinquished By:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  | Max Rubarth         |  | Ottawa        |                 |                          |                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                          |                          |                          |                          |                          |                          |                          | July 9, 2026             |                          |                          |                                     |                                     |                          |                                          |              |           |                    |
| Received By:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |                     |  |               |                 |                          |                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                                     |                                     |                          |                                          |              |           |                    |
| Received By:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  | Victoria            |  | OTT           |                 |                          |                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                          |                          |                          |                          |                          |                          |                          | July 10 8am              |                          | 10                       |                                     |                                     |                          |                                          |              |           |                    |
| COMMENTS:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |                     |  |               |                 |                          |                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                                     |                                     |                          |                                          |              |           |                    |
| <div style="text-align: right;">100449562<br/><br/>Printed On : 2026-07-10 10:54:59</div>                                                                                                                                                                                                                                                                                                                                                                                                                  |  |                     |  |               |                 |                          |                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                                     |                                     |                          |                                          |              |           |                    |
| CUSTODY SEAL: <input type="checkbox"/> YES <input type="checkbox"/> NO Ice packs submit <input type="checkbox"/> Yes <input type="checkbox"/> No                                                                                                                                                                                                                                                                                                                                                           |  |                     |  |               |                 |                          |                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                                     |                                     |                          |                                          |              |           |                    |

**OFFICIAL CERTIFICATE OF ANALYSIS : 4758531**
**WORK REQUEST : 100449558**
**Report Date : 2026-07-16**
**Paterson Group**

9 Auriga Drive  
Ottawa, Ontario  
K2J 5Z9  
Attention : Zavian Buchanan

Reception Date : 2026-07-10

Project : PH5222

Sampler : NA

PO Number : 66410

Temperature : 10 °C

| Analysis                                     | Quantity | External Method                        |
|----------------------------------------------|----------|----------------------------------------|
| Alkalinity (Water, Automated)                | 1        | Modified from SM 2320 B                |
| Ammonia, Total (Water, Colorimetry)          | 1        | Modified from EPA 350.1                |
| Chloride (Water, IC)                         | 1        | Modified from SM 4110 B and C          |
| Colour, Apparent (Water, Spectrophotometry)  | 1        | Modified from SM 2120 C                |
| Colour, True (Water, Spectrophotometry)      | 1        | Modified from SM 2120 C                |
| Conductivity (Water, Automated)              | 1        | Modified from SM 2510 B                |
| DOC (Water, IR)                              | 1        | Modified from SM 5310 B                |
| Escherichia coli (DC Plate)                  | 1        | Modified from MECP E3407               |
| Fluoride (Water, Auto/ISE)                   | 1        | Modified from SM 4500-F A and 4500-F C |
| Hardness (Water, Calculation Only)           | 1        | SM 2340 B                              |
| Ion Balance (Water, Calculation)             | 1        | Modified from SM1030 E                 |
| Metals Scan (Water, ICP/MS)                  | 1        | Modified from EPA 200.8                |
| Metals Scan (Water, ICP/OES)                 | 1        | Modified from SM 3120 B                |
| Nitrate (Water, IC)                          | 1        | Modified from SM 4110 B and C          |
| Nitrite (Water, IC)                          | 1        | Modified from SM 4110 B and C          |
| pH (25°C) (Water, Automated)                 | 1        | Modified from SM 4500-H+ B             |
| Phenols (Water, Colorimetry)                 | 1        | Modified from EPA 420.2                |
| Sulphate (Water, IC)                         | 1        | Modified from SM 4110 B and C          |
| Sulphide (Water, Colorimetry)                | 1        | Modified from SM 4500-S2 D             |
| Tannin and Lignin (Water, Spec)              | 1        | Modified from SM 5550 B                |
| TDS (Estimated)                              | 1        | Modified from SM 2510 A                |
| Total Coliforms (DC Plate)                   | 1        | Modified from MECP E3407               |
| Total Kjeldahl Nitrogen (Water, Colorimetry) | 1        | Modified from EPA 351.2                |
| Turbidity (Water, Turbidimeter)              | 1        | Modified from SM 2130 B                |

**Criteria :**
**A :** Ontario Regulation 169/03 (Non-Regulated Drinking Water)

**Sample status upon receipt :**

9869223

**Compliant**
**Certificate Comments :**

9869223

**N-NO2 MRL increased due to matrix interference. Sr analyzed on July 14, 2026.**
**Notes :**

- All analysis is completed at Eurofins Environment Testing Canada Inc. (Ottawa, Ontario) unless otherwise stated.
- Eurofins Environment Testing Canada Inc. is accredited by CALA, Canadian Association for Laboratory Accreditation to ISO/IEC 17025 for tests which appear on the scope of accreditation. The scope is available at <https://directory.cala.ca/>
- Please note: Field data, where presented on the report, has been provided by the client and is presented for informational purposes only. Guideline or regulatory limits listed on this report are provided for ease of use (informational purposes) only. Eurofins recommends consulting the official guideline or regulation as required. Unless otherwise stated, measurement uncertainty is not taken into account when determining guideline or regulatory exceedances.

**Legend :**

RL : Reporting limit

N/A : Not applicable

\* : Analysis conducted by external subcontracting

QC : Reference material (QC)

1 : Results in annex

^ : Analysis not accredited

## OFFICIAL CERTIFICATE OF ANALYSIS - EXCEEDENCE SUMMARY

Client : Paterson Group

Project : PH5222

Reception Date : 2026-07-10

| Eurofins<br>Sample No              | Client Sample<br>Identification | Analyte                         | Result | Units | Exceeded Criteria |   |   |
|------------------------------------|---------------------------------|---------------------------------|--------|-------|-------------------|---|---|
|                                    |                                 |                                 |        |       | A                 | B | C |
| Hardness (Water, Calculation Only) |                                 |                                 |        |       |                   |   |   |
| 9869223                            | 17 Poplarwood                   | Hardness as CaCO3 (Calculation) | 459    | mg/L  | 80-100            |   |   |
| TDS (Estimated)                    |                                 |                                 |        |       |                   |   |   |
| 9869223                            | 17 Poplarwood                   | TDS (Estimated)^                | 852    | mg/L  | 500               |   |   |

## OFFICIAL CERTIFICATE OF ANALYSIS - RESULTS

Client : Paterson Group  
Project : PH5222

Reception Date: 2026-07-10

|          |     |      | Eurofins Sample No : <b>9869223</b>          |   |   |     |  |  |  |
|----------|-----|------|----------------------------------------------|---|---|-----|--|--|--|
|          |     |      | Matrix : Groundwater                         |   |   |     |  |  |  |
|          |     |      | Sampling Date : 2026-07-09                   |   |   |     |  |  |  |
|          |     |      | Client Sample Identification : 17 Poplarwood |   |   |     |  |  |  |
| Anions   | RL  | Unit | Criteria                                     |   |   |     |  |  |  |
|          |     |      | A                                            | B | C |     |  |  |  |
| Chloride | 0.5 | mg/L | 250                                          |   |   | 174 |  |  |  |
| Sulphate | 1   | mg/L | 500                                          |   |   | 80  |  |  |  |

|                            |     |      | Eurofins Sample No : <b>9869223</b>          |  |  |  |  |  |  |
|----------------------------|-----|------|----------------------------------------------|--|--|--|--|--|--|
|                            |     |      | Matrix : Groundwater                         |  |  |  |  |  |  |
|                            |     |      | Sampling Date : 2026-07-09                   |  |  |  |  |  |  |
|                            |     |      | Client Sample Identification : 17 Poplarwood |  |  |  |  |  |  |
| Calculations               | RL  | Unit |                                              |  |  |  |  |  |  |
| Ion Balance (Calculation)^ | 0.1 |      | 1.01                                         |  |  |  |  |  |  |

|                                 |       |       | Eurofins Sample No : <b>9869223</b>          |   |   |        |  |  |  |
|---------------------------------|-------|-------|----------------------------------------------|---|---|--------|--|--|--|
|                                 |       |       | Matrix : Groundwater                         |   |   |        |  |  |  |
|                                 |       |       | Sampling Date : 2026-07-09                   |   |   |        |  |  |  |
|                                 |       |       | Client Sample Identification : 17 Poplarwood |   |   |        |  |  |  |
| General Chemistry               | RL    | Unit  | Criteria                                     |   |   |        |  |  |  |
|                                 |       |       | A                                            | B | C |        |  |  |  |
| Alkalinity (as CaCO3)           | 5     | mg/L  | 500                                          |   |   | 374    |  |  |  |
| Colour (Apparent)               | 2     | TCU   | 5                                            |   |   | <2     |  |  |  |
| Colour (True)                   | 2     | TCU   |                                              |   |   | <2     |  |  |  |
| Conductivity @ 25°C             | 5     | µS/cm |                                              |   |   | 1310   |  |  |  |
| Dissolved Organic Carbon        | 0.5   | mg/L  | 5                                            |   |   | 2.2    |  |  |  |
| Fluoride                        | 0.1   | mg/L  | 1.5                                          |   |   | 0.16   |  |  |  |
| Hardness as CaCO3 (Calculation) | 1     | mg/L  | 80-100                                       |   |   | 459    |  |  |  |
| pH @ 25°C                       | 1     |       | 6.5-8.5                                      |   |   | 7.38   |  |  |  |
| Phenols-4AAP                    | 0.001 | mg/L  |                                              |   |   | <0.001 |  |  |  |
| Sulphide (S2-)                  | 0.01  | mg/L  | 0.05                                         |   |   | <0.01  |  |  |  |
| Tannin and Lignin               | 0.1   | mg/L  |                                              |   |   | <0.1   |  |  |  |
| TDS (Estimated)^                | 5     | mg/L  | 500                                          |   |   | 852    |  |  |  |
| Turbidity                       | 0.1   | NTU   | 5                                            |   |   | 0.1    |  |  |  |

## OFFICIAL CERTIFICATE OF ANALYSIS - RESULTS

Client : Paterson Group  
Project : PH5222

Reception Date: 2026-07-10

|                                |        |      |          |   |   |                  |  |  |  |  |
|--------------------------------|--------|------|----------|---|---|------------------|--|--|--|--|
| Eurofins Sample No :           |        |      |          |   |   | 9869223          |  |  |  |  |
| Matrix :                       |        |      |          |   |   | Groundwater      |  |  |  |  |
| Sampling Date :                |        |      |          |   |   | 2026-07-09       |  |  |  |  |
| Client Sample Identification : |        |      |          |   |   | 17<br>Poplarwood |  |  |  |  |
| Metals                         | RL     | Unit | Criteria |   |   |                  |  |  |  |  |
|                                |        |      | A        | B | C |                  |  |  |  |  |
| Metals Scan (Water, ICP/MS)    |        |      |          |   |   |                  |  |  |  |  |
| Aluminum                       | 0.01   | mg/L | 0.1      |   |   | <0.01            |  |  |  |  |
| Antimony                       | 0.0005 | mg/L | 0.006    |   |   | <0.0005          |  |  |  |  |
| Arsenic                        | 0.001  | mg/L | 0.01     |   |   | <0.001           |  |  |  |  |
| Barium                         | 0.001  | mg/L | 1        |   |   | 0.189            |  |  |  |  |
| Beryllium                      | 0.0005 | mg/L |          |   |   | <0.0005          |  |  |  |  |
| Boron                          | 0.01   | mg/L | 5        |   |   | 0.15             |  |  |  |  |
| Cadmium                        | 0.0001 | mg/L | 0.005    |   |   | <0.0001          |  |  |  |  |
| Chromium                       | 0.001  | mg/L | 0.05     |   |   | <0.001           |  |  |  |  |
| Cobalt                         | 0.0002 | mg/L |          |   |   | <0.0002          |  |  |  |  |
| Copper                         | 0.001  | mg/L | 1        |   |   | 0.014            |  |  |  |  |
| Iron                           | 0.03   | mg/L | 0.3      |   |   | <0.03            |  |  |  |  |
| Lead                           | 0.001  | mg/L | 0.01     |   |   | <0.001           |  |  |  |  |
| Manganese                      | 0.01   | mg/L | 0.05     |   |   | <0.01            |  |  |  |  |
| Mercury                        | 0.0001 | mg/L | 0.001    |   |   | <0.0001          |  |  |  |  |
| Molybdenum                     | 0.005  | mg/L |          |   |   | <0.005           |  |  |  |  |
| Nickel                         | 0.005  | mg/L |          |   |   | <0.005           |  |  |  |  |
| Selenium                       | 0.001  | mg/L | 0.05     |   |   | <0.001           |  |  |  |  |
| Silver                         | 0.0001 | mg/L |          |   |   | <0.0001          |  |  |  |  |
| Strontium                      | 0.001  | mg/L |          |   |   | 15.4             |  |  |  |  |
| Thallium                       | 0.0001 | mg/L |          |   |   | <0.0001          |  |  |  |  |
| Uranium                        | 0.001  | mg/L | 0.02     |   |   | <0.001           |  |  |  |  |
| Vanadium                       | 0.001  | mg/L |          |   |   | <0.001           |  |  |  |  |
| Zinc                           | 0.01   | mg/L | 5        |   |   | 0.02             |  |  |  |  |
| Metals Scan (Water, ICP/OES)   |        |      |          |   |   |                  |  |  |  |  |
| Calcium                        | 1      | mg/L |          |   |   | 123              |  |  |  |  |
| Magnesium                      | 1      | mg/L |          |   |   | 37               |  |  |  |  |
| Potassium                      | 1      | mg/L |          |   |   | 4                |  |  |  |  |
| Sodium                         | 1      | mg/L | 200      |   |   | 116              |  |  |  |  |

|                                |    |           |          |   |   |                  |  |  |  |  |
|--------------------------------|----|-----------|----------|---|---|------------------|--|--|--|--|
| Eurofins Sample No :           |    |           |          |   |   | 9869223          |  |  |  |  |
| Matrix :                       |    |           |          |   |   | Groundwater      |  |  |  |  |
| Sampling Date :                |    |           |          |   |   | 2026-07-09       |  |  |  |  |
| Client Sample Identification : |    |           |          |   |   | 17<br>Poplarwood |  |  |  |  |
| Microbiology                   | RL | Unit      | Criteria |   |   |                  |  |  |  |  |
|                                |    |           | A        | B | C |                  |  |  |  |  |
| Escherichia coli (DC)          | 0  | CFU/100mL | 0        |   |   | 0                |  |  |  |  |
| Total Coliforms (DC)           | 0  | CFU/100mL | 0        |   |   | 0                |  |  |  |  |

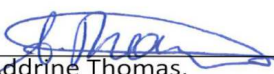
**OFFICIAL CERTIFICATE OF ANALYSIS - RESULTS**

Client : Paterson Group  
Project : PH5222

Reception Date: 2026-07-10

|                              |      |      | Eurofins Sample No : <b>9869223</b> |   |   |        |  |  |  |
|------------------------------|------|------|-------------------------------------|---|---|--------|--|--|--|
|                              |      |      | Matrix : Groundwater                |   |   |        |  |  |  |
|                              |      |      | Sampling Date : 2026-07-09          |   |   |        |  |  |  |
|                              |      |      | Client Sample Identification : 17   |   |   |        |  |  |  |
|                              |      |      | Poplarwood                          |   |   |        |  |  |  |
| Nutrients                    | RL   | Unit | Criteria                            |   |   |        |  |  |  |
|                              |      |      | A                                   | B | C |        |  |  |  |
| Ammonia (Total, as Nitrogen) | 0.02 | mg/L |                                     |   |   | <0.020 |  |  |  |
| Nitrate (as Nitrogen)        | 0.1  | mg/L | 10.0                                |   |   | 2.38   |  |  |  |
| Nitrite (as Nitrogen)        | 0.1  | mg/L | 1.0                                 |   |   | <0.5   |  |  |  |
| Total Kjeldahl Nitrogen      | 0.1  | mg/L |                                     |   |   | 0.203  |  |  |  |

Approved by :

  
Addrine Thomas,  
Chemistry Manager, Ottawa

Approved by :

  
Emma-Dawn Ferguson, M.Sc.  
Environmental Chemist

## OFFICIAL CERTIFICATE OF ANALYSIS - QUALITY CONTROL

Client : Paterson Group

Project : PH5222

Reception Date: 2026-07-10

| Parameter                                                                                        | Unit      | RL   | Blank  | QC         |         | Matrix Spike |         | Duplicate                                          |         |
|--------------------------------------------------------------------------------------------------|-----------|------|--------|------------|---------|--------------|---------|----------------------------------------------------|---------|
|                                                                                                  |           |      |        | Recovery % | Range % | Recovery %   | Range % | RPD %                                              | Range % |
| Ammonia, Total (Water, Colorimetry)                                                              |           |      |        |            |         |              |         |                                                    |         |
| Method : Ammonia (Water, Colorimetry). Internal method: OTT-I-NUT-WI46201.                       |           |      |        |            |         |              |         |                                                    |         |
| Ammonia (Total, as Nitrogen)                                                                     | mg/L      | 0.02 | <0.020 | 97         | 80-120  | 103          | 80-120  | -                                                  | 0-20    |
| Associated Samples : 9869223                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-14<br>Analysis Date: 2026-07-14 |         |
| Chloride (Water, IC)                                                                             |           |      |        |            |         |              |         |                                                    |         |
| Method : Anions (Water, Ion Chromatography). Internal method: OTT-I-IC-WI45985.                  |           |      |        |            |         |              |         |                                                    |         |
| Chloride                                                                                         | mg/L      | 0.5  | <0.5   | 95         | 80-120  | 109          | 80-120  |                                                    |         |
| Associated Samples : 9869223                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-13<br>Analysis Date: 2026-07-14 |         |
| Colour, Apparent (Water, Spectrophotometry)                                                      |           |      |        |            |         |              |         |                                                    |         |
| Method : Colour (Water, Spectrophotometric). Internal method: OTT-I-SPEC-WI45980.                |           |      |        |            |         |              |         |                                                    |         |
| Colour (Apparent)                                                                                | TCU       | 2    | <2     | 102        | 78-116  |              |         | 4                                                  | 0-40    |
| Associated Samples : 9869223                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-14<br>Analysis Date: 2026-07-15 |         |
| Colour, True (Water, Spectrophotometry)                                                          |           |      |        |            |         |              |         |                                                    |         |
| Method : Colour (Water, Spectrophotometric). Internal method: OTT-I-SPEC-WI45980.                |           |      |        |            |         |              |         |                                                    |         |
| Colour (True)                                                                                    | TCU       | 2    | <2     | 102        | 78-116  |              |         | -                                                  | 0-40    |
| Associated Samples : 9869223                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-14<br>Analysis Date: 2026-07-15 |         |
| DOC (Water, IR)                                                                                  |           |      |        |            |         |              |         |                                                    |         |
| Method : Organic carbon (water, IR, combustion). Internal method: OTT-I-DEM-WI46148.             |           |      |        |            |         |              |         |                                                    |         |
| Dissolved Organic Carbon                                                                         | mg/L      | 0.5  | <0.5   | 98         | 88-112  | 96           | 85-115  | -                                                  | 0-15    |
| Associated Samples : 9869223                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-13<br>Analysis Date: 2026-07-14 |         |
| Escherichia coli (DC Plate)                                                                      |           |      |        |            |         |              |         |                                                    |         |
| Method : Total Coliforms and E.Coli by MF (Water, DC plate). Internal method: OTT-M-BAC-WI45296. |           |      |        |            |         |              |         |                                                    |         |
| Escherichia coli (DC)                                                                            | CFU/100mL | 0    | 0      |            |         |              |         | -                                                  | 0-30    |
| Associated Samples : 9869223                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-10<br>Analysis Date: 2026-07-11 |         |
| Fluoride (Water, Auto/ISE)                                                                       |           |      |        |            |         |              |         |                                                    |         |
| Method : Fluoride by autotitrator, ion selective electrode. Internal method: OTT-I-AT-WI45398.   |           |      |        |            |         |              |         |                                                    |         |
| Fluoride                                                                                         | mg/L      | 0.1  | <0.10  | 104        | 90-110  | 102          | 80-120  | 0                                                  | 0-20    |
| Associated Samples : 9869223                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-10<br>Analysis Date: 2026-07-13 |         |

## OFFICIAL CERTIFICATE OF ANALYSIS - QUALITY CONTROL

Client : Paterson Group

Project : PH5222

Reception Date: 2026-07-10

| Parameter                                                                       | Unit | RL     | Blank   | QC         |         | Matrix Spike |         | Duplicate                                          |         |
|---------------------------------------------------------------------------------|------|--------|---------|------------|---------|--------------|---------|----------------------------------------------------|---------|
|                                                                                 |      |        |         | Recovery % | Range % | Recovery %   | Range % | RPD %                                              | Range % |
| Metals Scan (Water, ICP/MS)                                                     |      |        |         |            |         |              |         |                                                    |         |
| Method : Metals (Water, ICP/MS). Internal method: AMMTFQE1.                     |      |        |         |            |         |              |         |                                                    |         |
| Aluminum                                                                        | mg/L | 0.01   | <0.01   | 100        | 80-120  | 112          | 70-130  | -                                                  | 0-20    |
| Antimony                                                                        | mg/L | 0.0005 | <0.0005 | 83         | 80-120  | 110          | 70-130  | -                                                  | 0-20    |
| Arsenic                                                                         | mg/L | 0.001  | <0.001  | 99         | 80-120  | 102          | 70-130  | -                                                  | 0-20    |
| Barium                                                                          | mg/L | 0.001  | <0.001  | 100        | 80-120  | 103          | 70-130  | 0                                                  | 0-20    |
| Beryllium                                                                       | mg/L | 0.0005 | <0.0005 | 108        | 80-120  | 111          | 70-130  | -                                                  | 0-20    |
| Boron                                                                           | mg/L | 0.01   | <0.01   | 100        | 80-120  | 104          | 70-130  | -                                                  | 0-20    |
| Cadmium                                                                         | mg/L | 0.0001 | <0.0001 | 101        | 80-120  | 103          | 70-130  | -                                                  | 0-20    |
| Chromium                                                                        | mg/L | 0.001  | <0.001  | 110        | 80-120  | 101          | 70-130  | -                                                  | 0-20    |
| Cobalt                                                                          | mg/L | 0.0002 | <0.0002 | 104        | 80-120  | 94           | 70-130  | -                                                  | 0-20    |
| Copper                                                                          | mg/L | 0.001  | <0.001  | 110        | 80-120  | 92           | 70-130  | -                                                  | 0-20    |
| Iron                                                                            | mg/L | 0.03   | <0.03   | 100        | 80-120  | 96           | 70-130  | -                                                  | 0-20    |
| Lead                                                                            | mg/L | 0.001  | <0.001  | 100        | 80-120  | 90           | 70-130  | -                                                  | 0-20    |
| Manganese                                                                       | mg/L | 0.01   | <0.01   | 100        | 80-120  | 99           | 70-130  | -                                                  | 0-20    |
| Mercury                                                                         | mg/L | 0.0001 | <0.0001 | 91         | 80-120  | 80           | 70-130  | -                                                  | 0-20    |
| Molybdenum                                                                      | mg/L | 0.005  | <0.005  | 100        | 80-120  | 97           | 70-130  | -                                                  | 0-20    |
| Nickel                                                                          | mg/L | 0.005  | <0.005  | 110        | 80-120  | 96           | 70-130  | -                                                  | 0-20    |
| Selenium                                                                        | mg/L | 0.001  | <0.001  | 99         | 80-120  | 103          | 70-130  | -                                                  | 0-20    |
| Silver                                                                          | mg/L | 0.0001 | <0.0001 | 107        | 80-120  | 89           | 70-130  | -                                                  | 0-20    |
| Strontium                                                                       | mg/L | 0.001  | <0.001  | 100        | 80-120  | 100          | 70-130  | 1                                                  | 0-20    |
| Thallium                                                                        | mg/L | 0.0001 | <0.0001 | 101        | 80-120  | 90           | 70-130  | -                                                  | 0-20    |
| Uranium                                                                         | mg/L | 0.001  | <0.001  | 100        | 80-120  | 90           | 70-130  | -                                                  | 0-20    |
| Vanadium                                                                        | mg/L | 0.001  | <0.001  | 100        | 80-120  | 103          | 70-130  | -                                                  | 0-20    |
| Zinc                                                                            | mg/L | 0.01   | <0.01   | 110        | 80-120  | 100          | 70-130  | -                                                  | 0-20    |
| Associated Samples : 9869223                                                    |      |        |         |            |         |              |         | Prep Date: 2026-07-13<br>Analysis Date: 2026-07-13 |         |
| Metals Scan (Water, ICP/OES)                                                    |      |        |         |            |         |              |         |                                                    |         |
| Method : Metals (Water, ICP/OES). Internal method: OTT-I-MET-WI48491.           |      |        |         |            |         |              |         |                                                    |         |
| Calcium                                                                         | mg/L | 1      | <1      | 100        | 70-130  | 97           | 70-130  | 0                                                  | 0-20    |
| Magnesium                                                                       | mg/L | 1      | <1      | 101        | 70-130  | 106          | 70-130  | 0                                                  | 0-20    |
| Potassium                                                                       | mg/L | 1      | <1      | 99         | 70-130  | 103          | 70-130  | -                                                  | 0-20    |
| Sodium                                                                          | mg/L | 1      | <1      | 101        | 70-130  | 102          | 70-130  | 0                                                  | 0-20    |
| Associated Samples : 9869223                                                    |      |        |         |            |         |              |         | Prep Date: 2026-07-15<br>Analysis Date: 2026-07-10 |         |
| Nitrate (Water, IC)                                                             |      |        |         |            |         |              |         |                                                    |         |
| Method : Anions (Water, Ion Chromatography). Internal method: OTT-I-IC-WI45985. |      |        |         |            |         |              |         |                                                    |         |
| Nitrate (as Nitrogen)                                                           | mg/L | 0.1    | <0.1    | 100        | 80-120  | 101          | 80-120  | 3                                                  | 0-20    |
| Associated Samples : 9869223                                                    |      |        |         |            |         |              |         | Prep Date: 2026-07-13<br>Analysis Date: 2026-07-14 |         |
| Nitrite (Water, IC)                                                             |      |        |         |            |         |              |         |                                                    |         |
| Method : Anions (Water, Ion Chromatography). Internal method: OTT-I-IC-WI45985. |      |        |         |            |         |              |         |                                                    |         |
| Nitrite (as Nitrogen)                                                           | mg/L | 0.1    | <0.1    | 99         | 80-120  | 103          | 80-120  | -                                                  | 0-20    |
| Associated Samples : 9869223                                                    |      |        |         |            |         |              |         | Prep Date: 2026-07-13<br>Analysis Date: 2026-07-14 |         |
| Phenols (Water, Colorimetry)                                                    |      |        |         |            |         |              |         |                                                    |         |
| Method : Phenols (Water, Colorimetry). Internal method: OTT-I-4AAP-WI46150.     |      |        |         |            |         |              |         |                                                    |         |
| Phenols-4AAP                                                                    | mg/L | 0.001  | <0.001  | 101        | 75-125  | 78           | 70-130  | 4                                                  | 0-20    |
| Associated Samples : 9869223                                                    |      |        |         |            |         |              |         | Prep Date: 2026-07-13<br>Analysis Date: 2026-07-13 |         |

## OFFICIAL CERTIFICATE OF ANALYSIS - QUALITY CONTROL

Client : Paterson Group

Project : PH5222

Reception Date: 2026-07-10

| Parameter                                                                                        | Unit      | RL   | Blank  | QC         |         | Matrix Spike |         | Duplicate                                          |         |
|--------------------------------------------------------------------------------------------------|-----------|------|--------|------------|---------|--------------|---------|----------------------------------------------------|---------|
|                                                                                                  |           |      |        | Recovery % | Range % | Recovery %   | Range % | RPD %                                              | Range % |
| Sulphate (Water, IC)                                                                             |           |      |        |            |         |              |         |                                                    |         |
| Method : Anions (Water, Ion Chromatography). Internal method: OTT-I-IC-WI45985.                  |           |      |        |            |         |              |         |                                                    |         |
| Sulphate                                                                                         | mg/L      | 1    | <1     | 101        | 90-110  | 108          | 80-120  | 0                                                  | 0-20    |
| Associated Samples : 9869223                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-13<br>Analysis Date: 2026-07-14 |         |
| Sulphide (Water, Colorimetry)                                                                    |           |      |        |            |         |              |         |                                                    |         |
| Method : Sulphide, S2- (Water, Colorimetry). Internal method: OTT-I-SPEC-WI45931.                |           |      |        |            |         |              |         |                                                    |         |
| Sulphide (S2-)                                                                                   | mg/L      | 0.01 | <0.01  | 66         | 48-131  |              |         | -                                                  | 0-20    |
| Associated Samples : 9869223                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-14<br>Analysis Date: 2026-07-14 |         |
| Tannin and Lignin (Water, Spec)                                                                  |           |      |        |            |         |              |         |                                                    |         |
| Method : Tannin and Lignin (Water, Spec), Internal method: OTT-I-SPEC-WI57693.                   |           |      |        |            |         |              |         |                                                    |         |
| Tannin and Lignin                                                                                | mg/L      | 0.1  | <0.1   | 100        | 80-120  |              |         | -                                                  | 0-20    |
| Associated Samples : 9869223                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-14<br>Analysis Date: 2026-07-14 |         |
| Total Coliforms (DC Plate)                                                                       |           |      |        |            |         |              |         |                                                    |         |
| Method : Total Coliforms and E.Coli by MF (Water, DC plate). Internal method: OTT-M-BAC-WI45296. |           |      |        |            |         |              |         |                                                    |         |
| Total Coliforms (DC)                                                                             | CFU/100mL | 0    | 0      |            |         |              |         | -                                                  | 0-30    |
| Associated Samples : 9869223                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-10<br>Analysis Date: 2026-07-11 |         |
| Total Kjeldahl Nitrogen (Water, Colorimetry)                                                     |           |      |        |            |         |              |         |                                                    |         |
| Method : TKN (Water, colorimetry). Internal method: OTT-I-NUT-WI46201.                           |           |      |        |            |         |              |         |                                                    |         |
| Total Kjeldahl Nitrogen                                                                          | mg/L      | 0.1  | <0.100 | 101        | 70-130  | 106          | 70-130  | -                                                  | 0-20    |
| Associated Samples : 9869223                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-13<br>Analysis Date: 2026-07-14 |         |
| Turbidity (Water, Turbidimeter)                                                                  |           |      |        |            |         |              |         |                                                    |         |
| Method : Turbidity (Water, Turbidimeter). Internal method: OTT-I-TUR-WI46288.                    |           |      |        |            |         |              |         |                                                    |         |
| Turbidity                                                                                        | NTU       | 0.1  | <0.1   | 95         | 80-120  |              |         | -                                                  | 0-30    |
| Associated Samples : 9869223                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-10<br>Analysis Date: 2026-07-10 |         |

Where RPD % is reported as "-" the calculation is not available because one or both of the duplicates is within 5 times the RL.

[illegible]

**OFFICIAL CERTIFICATE OF ANALYSIS : 4758975**
**WORK REQUEST : 100449571**
**Report Date : 2026-07-16**
**Paterson Group**

9 Auriga Drive  
Ottawa, Ontario  
K2J 5Z9  
Attention : Zavian Buchanan

Reception Date : 2026-07-10  
Project : PH5222  
Sampler : NA  
PO Number : 66413  
Temperature : 10 °C

| Analysis                                     | Quantity | External Method                        |
|----------------------------------------------|----------|----------------------------------------|
| Alkalinity (Water, Automated)                | 1        | Modified from SM 2320 B                |
| Ammonia, Total (Water, Colorimetry)          | 1        | Modified from EPA 350.1                |
| Chloride (Water, IC)                         | 1        | Modified from SM 4110 B and C          |
| Colour, Apparent (Water, Spectrophotometry)  | 1        | Modified from SM 2120 C                |
| Colour, True (Water, Spectrophotometry)      | 1        | Modified from SM 2120 C                |
| Conductivity (Water, Automated)              | 1        | Modified from SM 2510 B                |
| DOC (Water, IR)                              | 1        | Modified from SM 5310 B                |
| Escherichia coli (DC Plate)                  | 1        | Modified from MECP E3407               |
| Fluoride (Water, Auto/ISE)                   | 1        | Modified from SM 4500-F A and 4500-F C |
| Hardness (Water, Calculation Only)           | 1        | SM 2340 B                              |
| Ion Balance (Water, Calculation)             | 1        | Modified from SM1030 E                 |
| Metals Scan (Water, ICP/MS)                  | 1        | Modified from EPA 200.8                |
| Metals Scan (Water, ICP/OES)                 | 1        | Modified from SM 3120 B                |
| Nitrate (Water, IC)                          | 1        | Modified from SM 4110 B and C          |
| Nitrite (Water, IC)                          | 1        | Modified from SM 4110 B and C          |
| pH (25°C) (Water, Automated)                 | 1        | Modified from SM 4500-H+ B             |
| Phenols (Water, Colorimetry)                 | 1        | Modified from EPA 420.2                |
| Sulphate (Water, IC)                         | 1        | Modified from SM 4110 B and C          |
| Sulphide (Water, Colorimetry)                | 1        | Modified from SM 4500-S2 D             |
| Tannin and Lignin (Water, Spec)              | 1        | Modified from SM 5550 B                |
| TDS (Estimated)                              | 1        | Modified from SM 2510 A                |
| Total Coliforms (DC Plate)                   | 1        | Modified from MECP E3407               |
| Total Kjeldahl Nitrogen (Water, Colorimetry) | 1        | Modified from EPA 351.2                |
| Turbidity (Water, Turbidimeter)              | 1        | Modified from SM 2130 B                |

**Criteria :**
**A :** Ontario Regulation 169/03 (Non-Regulated Drinking Water)

**Sample status upon receipt :**

9869307

**Compliant**
**Certificate Comments :**

9869307

**N-NO2 and N-NO3 MRLs increased due to matrix interference. B analyzed on July 14, 2026.**
**Notes :**

- All analysis is completed at Eurofins Environment Testing Canada Inc. (Ottawa, Ontario) unless otherwise stated.
- Eurofins Environment Testing Canada Inc. is accredited by CALA, Canadian Association for Laboratory Accreditation to ISO/IEC 17025 for tests which appear on the scope of accreditation. The scope is available at <https://directory.cala.ca/>
- Please note: Field data, where presented on the report, has been provided by the client and is presented for informational purposes only. Guideline or regulatory limits listed on this report are provided for ease of use (informational purposes) only. Eurofins recommends consulting the official guideline or regulation as required. Unless otherwise stated, measurement uncertainty is not taken into account when determining guideline or regulatory exceedances.

**Legend :**

RL : Reporting limit

N/A : Not applicable

\* : Analysis conducted by external subcontracting

QC : Reference material (QC)

1 : Results in annex

^ : Analysis not accredited

### OFFICIAL CERTIFICATE OF ANALYSIS - EXCEEDENCE SUMMARY

Client : Paterson Group  
Project : PH5222

Reception Date : 2026-07-10

| Eurofins<br>Sample No        | Client Sample<br>Identification | Analyte          | Result | Units | Exceeded Criteria |   |   |  |
|------------------------------|---------------------------------|------------------|--------|-------|-------------------|---|---|--|
|                              |                                 |                  |        |       | A                 | B | C |  |
| Fluoride (Water, Auto/ISE)   |                                 |                  |        |       |                   |   |   |  |
| 9869307                      | 18 Poplarwood                   | Fluoride         | 1.68   | mg/L  | 1.5               |   |   |  |
| Metals Scan (Water, ICP/OES) |                                 |                  |        |       |                   |   |   |  |
| 9869307                      | 18 Poplarwood                   | Sodium           | 293    | mg/L  | 200               |   |   |  |
| TDS (Estimated)              |                                 |                  |        |       |                   |   |   |  |
| 9869307                      | 18 Poplarwood                   | TDS (Estimated)^ | 936    | mg/L  | 500               |   |   |  |

## OFFICIAL CERTIFICATE OF ANALYSIS - RESULTS

Client : Paterson Group  
Project : PH5222

Reception Date: 2026-07-10

|          |     |      | Eurofins Sample No : <b>9869307</b>          |   |   |     |  |  |  |
|----------|-----|------|----------------------------------------------|---|---|-----|--|--|--|
|          |     |      | Matrix : Groundwater                         |   |   |     |  |  |  |
|          |     |      | Sampling Date : 2026-07-09                   |   |   |     |  |  |  |
|          |     |      | Client Sample Identification : 18 Poplarwood |   |   |     |  |  |  |
| Anions   | RL  | Unit | Criteria                                     |   |   |     |  |  |  |
|          |     |      | A                                            | B | C |     |  |  |  |
| Chloride | 0.5 | mg/L | 250                                          |   |   | 188 |  |  |  |
| Sulphate | 1   | mg/L | 500                                          |   |   | 125 |  |  |  |

|                            |     |      | Eurofins Sample No : <b>9869307</b>          |  |  |  |  |  |  |
|----------------------------|-----|------|----------------------------------------------|--|--|--|--|--|--|
|                            |     |      | Matrix : Groundwater                         |  |  |  |  |  |  |
|                            |     |      | Sampling Date : 2026-07-09                   |  |  |  |  |  |  |
|                            |     |      | Client Sample Identification : 18 Poplarwood |  |  |  |  |  |  |
| Calculations               | RL  | Unit |                                              |  |  |  |  |  |  |
| Ion Balance (Calculation)^ | 0.1 |      | 1.00                                         |  |  |  |  |  |  |

|                                 |       |       | Eurofins Sample No : <b>9869307</b>          |   |   |        |  |  |  |
|---------------------------------|-------|-------|----------------------------------------------|---|---|--------|--|--|--|
|                                 |       |       | Matrix : Groundwater                         |   |   |        |  |  |  |
|                                 |       |       | Sampling Date : 2026-07-09                   |   |   |        |  |  |  |
|                                 |       |       | Client Sample Identification : 18 Poplarwood |   |   |        |  |  |  |
| General Chemistry               | RL    | Unit  | Criteria                                     |   |   |        |  |  |  |
|                                 |       |       | A                                            | B | C |        |  |  |  |
| Alkalinity (as CaCO3)           | 5     | mg/L  | 500                                          |   |   | 326    |  |  |  |
| Colour (Apparent)               | 2     | TCU   | 5                                            |   |   | <2     |  |  |  |
| Colour (True)                   | 2     | TCU   |                                              |   |   | <2     |  |  |  |
| Conductivity @ 25°C             | 5     | µS/cm |                                              |   |   | 1440   |  |  |  |
| Dissolved Organic Carbon        | 0.5   | mg/L  | 5                                            |   |   | 1.3    |  |  |  |
| Fluoride                        | 0.1   | mg/L  | 1.5                                          |   |   | 1.68   |  |  |  |
| Hardness as CaCO3 (Calculation) | 1     | mg/L  | 80-100                                       |   |   | 80     |  |  |  |
| pH @ 25°C                       | 1     |       | 6.5-8.5                                      |   |   | 7.86   |  |  |  |
| Phenols-4AAP                    | 0.001 | mg/L  |                                              |   |   | <0.001 |  |  |  |
| Sulphide (S2-)                  | 0.01  | mg/L  | 0.05                                         |   |   | <0.01  |  |  |  |
| Tannin and Lignin               | 0.1   | mg/L  |                                              |   |   | <0.1   |  |  |  |
| TDS (Estimated)^                | 5     | mg/L  | 500                                          |   |   | 936    |  |  |  |
| Turbidity                       | 0.1   | NTU   | 5                                            |   |   | 0.4    |  |  |  |

## OFFICIAL CERTIFICATE OF ANALYSIS - RESULTS

Client : Paterson Group  
Project : PH5222

Reception Date: 2026-07-10

|                                |        |      |       |          |                  |         |  |  |  |  |
|--------------------------------|--------|------|-------|----------|------------------|---------|--|--|--|--|
| Eurofins Sample No :           |        |      |       |          | 9869307          |         |  |  |  |  |
| Matrix :                       |        |      |       |          | Groundwater      |         |  |  |  |  |
| Sampling Date :                |        |      |       |          | 2026-07-09       |         |  |  |  |  |
| Client Sample Identification : |        |      |       |          | 18<br>Poplarwood |         |  |  |  |  |
| Metals                         |        | RL   | Unit  | Criteria |                  |         |  |  |  |  |
|                                |        |      |       | A        | B                | C       |  |  |  |  |
| Metals Scan (Water, ICP/MS)    |        |      |       |          |                  |         |  |  |  |  |
| Aluminum                       | 0.01   | mg/L | 0.1   |          |                  | <0.01   |  |  |  |  |
| Antimony                       | 0.0005 | mg/L | 0.006 |          |                  | <0.0005 |  |  |  |  |
| Arsenic                        | 0.001  | mg/L | 0.01  |          |                  | <0.001  |  |  |  |  |
| Barium                         | 0.001  | mg/L | 1     |          |                  | 0.018   |  |  |  |  |
| Beryllium                      | 0.0005 | mg/L |       |          |                  | <0.0005 |  |  |  |  |
| Boron                          | 0.01   | mg/L | 5     |          |                  | 1.12    |  |  |  |  |
| Cadmium                        | 0.0001 | mg/L | 0.005 |          |                  | <0.0001 |  |  |  |  |
| Chromium                       | 0.001  | mg/L | 0.05  |          |                  | <0.001  |  |  |  |  |
| Cobalt                         | 0.0002 | mg/L |       |          |                  | <0.0002 |  |  |  |  |
| Copper                         | 0.001  | mg/L | 1     |          |                  | 0.001   |  |  |  |  |
| Iron                           | 0.03   | mg/L | 0.3   |          |                  | 0.07    |  |  |  |  |
| Lead                           | 0.001  | mg/L | 0.01  |          |                  | <0.001  |  |  |  |  |
| Manganese                      | 0.01   | mg/L | 0.05  |          |                  | <0.01   |  |  |  |  |
| Mercury                        | 0.0001 | mg/L | 0.001 |          |                  | <0.0001 |  |  |  |  |
| Molybdenum                     | 0.005  | mg/L |       |          |                  | <0.005  |  |  |  |  |
| Nickel                         | 0.005  | mg/L |       |          |                  | <0.005  |  |  |  |  |
| Selenium                       | 0.001  | mg/L | 0.05  |          |                  | <0.001  |  |  |  |  |
| Silver                         | 0.0001 | mg/L |       |          |                  | <0.0001 |  |  |  |  |
| Strontium                      | 0.001  | mg/L |       |          |                  | 6.96    |  |  |  |  |
| Thallium                       | 0.0001 | mg/L |       |          |                  | <0.0001 |  |  |  |  |
| Uranium                        | 0.001  | mg/L | 0.02  |          |                  | <0.001  |  |  |  |  |
| Vanadium                       | 0.001  | mg/L |       |          |                  | <0.001  |  |  |  |  |
| Zinc                           | 0.01   | mg/L | 5     |          |                  | <0.01   |  |  |  |  |
| Metals Scan (Water, ICP/OES)   |        |      |       |          |                  |         |  |  |  |  |
| Calcium                        | 1      | mg/L |       |          |                  | 17      |  |  |  |  |
| Magnesium                      | 1      | mg/L |       |          |                  | 9       |  |  |  |  |
| Potassium                      | 1      | mg/L |       |          |                  | 5       |  |  |  |  |
| Sodium                         | 1      | mg/L | 200   |          |                  | 293     |  |  |  |  |

|                       |    |           | Eurofins Sample No : <b>9869307</b>             |   |   |   |  |  |  |
|-----------------------|----|-----------|-------------------------------------------------|---|---|---|--|--|--|
|                       |    |           | Matrix : Groundwater                            |   |   |   |  |  |  |
|                       |    |           | Sampling Date : 2026-07-09                      |   |   |   |  |  |  |
|                       |    |           | Client Sample Identification : 18<br>Poplarwood |   |   |   |  |  |  |
| Microbiology          | RL | Unit      | Criteria                                        |   |   |   |  |  |  |
|                       |    |           | A                                               | B | C |   |  |  |  |
| Escherichia coli (DC) | 0  | CFU/100mL | 0                                               |   |   | 0 |  |  |  |
| Total Coliforms (DC)  | 0  | CFU/100mL | 0                                               |   |   | 0 |  |  |  |

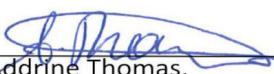
## OFFICIAL CERTIFICATE OF ANALYSIS - RESULTS

Client : Paterson Group  
Project : PH5222

Reception Date: 2026-07-10

|                              |      |      | Eurofins Sample No : <b>9869307</b> |   |   |       |  |  |  |
|------------------------------|------|------|-------------------------------------|---|---|-------|--|--|--|
|                              |      |      | Matrix : Groundwater                |   |   |       |  |  |  |
|                              |      |      | Sampling Date : 2026-07-09          |   |   |       |  |  |  |
|                              |      |      | Client Sample Identification : 18   |   |   |       |  |  |  |
|                              |      |      | Poplarwood                          |   |   |       |  |  |  |
| Nutrients                    | RL   | Unit | Criteria                            |   |   |       |  |  |  |
|                              |      |      | A                                   | B | C |       |  |  |  |
| Ammonia (Total, as Nitrogen) | 0.02 | mg/L |                                     |   |   | 0.212 |  |  |  |
| Nitrate (as Nitrogen)        | 0.1  | mg/L | 10.0                                |   |   | <0.5  |  |  |  |
| Nitrite (as Nitrogen)        | 0.1  | mg/L | 1.0                                 |   |   | <0.5  |  |  |  |
| Total Kjeldahl Nitrogen      | 0.1  | mg/L |                                     |   |   | 0.290 |  |  |  |

Approved by :

  
Addrine Thomas,  
Chemistry Manager, Ottawa

Approved by :

  
Emma-Dawn Ferguson, M.Sc.  
Environmental Chemist

## OFFICIAL CERTIFICATE OF ANALYSIS - QUALITY CONTROL

Client : Paterson Group

Project : PH5222

Reception Date: 2026-07-10

| Parameter                                                                                        | Unit      | RL   | Blank  | QC         |         | Matrix Spike |         | Duplicate                                          |         |
|--------------------------------------------------------------------------------------------------|-----------|------|--------|------------|---------|--------------|---------|----------------------------------------------------|---------|
|                                                                                                  |           |      |        | Recovery % | Range % | Recovery %   | Range % | RPD %                                              | Range % |
| Ammonia, Total (Water, Colorimetry)                                                              |           |      |        |            |         |              |         |                                                    |         |
| Method : Ammonia (Water, Colorimetry). Internal method: OTT-I-NUT-WI46201.                       |           |      |        |            |         |              |         |                                                    |         |
| Ammonia (Total, as Nitrogen)                                                                     | mg/L      | 0.02 | <0.020 | 97         | 80-120  | 103          | 80-120  | -                                                  | 0-20    |
| Associated Samples : 9869307                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-14<br>Analysis Date: 2026-07-14 |         |
| Chloride (Water, IC)                                                                             |           |      |        |            |         |              |         |                                                    |         |
| Method : Anions (Water, Ion Chromatography). Internal method: OTT-I-IC-WI45985.                  |           |      |        |            |         |              |         |                                                    |         |
| Chloride                                                                                         | mg/L      | 0.5  | <0.5   | 104        | 80-120  | 108          | 80-120  | 1                                                  | 0-20    |
| Associated Samples : 9869307                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-14<br>Analysis Date: 2026-07-16 |         |
| Colour, Apparent (Water, Spectrophotometry)                                                      |           |      |        |            |         |              |         |                                                    |         |
| Method : Colour (Water, Spectrophotometric). Internal method: OTT-I-SPEC-WI45980.                |           |      |        |            |         |              |         |                                                    |         |
| Colour (Apparent)                                                                                | TCU       | 2    | <2     | 102        | 78-116  |              |         | 4                                                  | 0-40    |
| Associated Samples : 9869307                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-14<br>Analysis Date: 2026-07-15 |         |
| Colour, True (Water, Spectrophotometry)                                                          |           |      |        |            |         |              |         |                                                    |         |
| Method : Colour (Water, Spectrophotometric). Internal method: OTT-I-SPEC-WI45980.                |           |      |        |            |         |              |         |                                                    |         |
| Colour (True)                                                                                    | TCU       | 2    | <2     | 102        | 78-116  |              |         | -                                                  | 0-40    |
| Associated Samples : 9869307                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-14<br>Analysis Date: 2026-07-15 |         |
| DOC (Water, IR)                                                                                  |           |      |        |            |         |              |         |                                                    |         |
| Method : Organic carbon (water, IR, combustion). Internal method: OTT-I-DEM-WI46148.             |           |      |        |            |         |              |         |                                                    |         |
| Dissolved Organic Carbon                                                                         | mg/L      | 0.5  | <0.5   | 98         | 88-112  | 96           | 85-115  | -                                                  | 0-15    |
| Associated Samples : 9869307                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-13<br>Analysis Date: 2026-07-14 |         |
| Escherichia coli (DC Plate)                                                                      |           |      |        |            |         |              |         |                                                    |         |
| Method : Total Coliforms and E.Coli by MF (Water, DC plate). Internal method: OTT-M-BAC-WI45296. |           |      |        |            |         |              |         |                                                    |         |
| Escherichia coli (DC)                                                                            | CFU/100mL | 0    | 0      |            |         |              |         | -                                                  | 0-30    |
| Associated Samples : 9869307                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-10<br>Analysis Date: 2026-07-11 |         |
| Fluoride (Water, Auto/ISE)                                                                       |           |      |        |            |         |              |         |                                                    |         |
| Method : Fluoride by autotitrator, ion selective electrode. Internal method: OTT-I-AT-WI45398.   |           |      |        |            |         |              |         |                                                    |         |
| Fluoride                                                                                         | mg/L      | 0.1  | <0.10  | 104        | 90-110  | 102          | 80-120  | 0                                                  | 0-20    |
| Associated Samples : 9869307                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-10<br>Analysis Date: 2026-07-13 |         |

## OFFICIAL CERTIFICATE OF ANALYSIS - QUALITY CONTROL

Client : Paterson Group

Project : PH5222

Reception Date: 2026-07-10

| Parameter                                                                       | Unit | RL     | Blank   | QC         |         | Matrix Spike |         | Duplicate                                          |         |
|---------------------------------------------------------------------------------|------|--------|---------|------------|---------|--------------|---------|----------------------------------------------------|---------|
|                                                                                 |      |        |         | Recovery % | Range % | Recovery %   | Range % | RPD %                                              | Range % |
| Metals Scan (Water, ICP/MS)                                                     |      |        |         |            |         |              |         |                                                    |         |
| Method : Metals (Water, ICP/MS). Internal method: AMMTFQE1.                     |      |        |         |            |         |              |         |                                                    |         |
| Aluminum                                                                        | mg/L | 0.01   | <0.01   | 100        | 80-120  | 112          | 70-130  | -                                                  | 0-20    |
| Antimony                                                                        | mg/L | 0.0005 | <0.0005 | 83         | 80-120  | 110          | 70-130  | -                                                  | 0-20    |
| Arsenic                                                                         | mg/L | 0.001  | <0.001  | 99         | 80-120  | 102          | 70-130  | -                                                  | 0-20    |
| Barium                                                                          | mg/L | 0.001  | <0.001  | 100        | 80-120  | 103          | 70-130  | 0                                                  | 0-20    |
| Beryllium                                                                       | mg/L | 0.0005 | <0.0005 | 108        | 80-120  | 111          | 70-130  | -                                                  | 0-20    |
| Boron                                                                           | mg/L | 0.01   | <0.01   | 100        | 80-120  | 104          | 70-130  | -                                                  | 0-20    |
| Cadmium                                                                         | mg/L | 0.0001 | <0.0001 | 101        | 80-120  | 103          | 70-130  | -                                                  | 0-20    |
| Chromium                                                                        | mg/L | 0.001  | <0.001  | 110        | 80-120  | 101          | 70-130  | -                                                  | 0-20    |
| Cobalt                                                                          | mg/L | 0.0002 | <0.0002 | 104        | 80-120  | 94           | 70-130  | -                                                  | 0-20    |
| Copper                                                                          | mg/L | 0.001  | <0.001  | 110        | 80-120  | 92           | 70-130  | -                                                  | 0-20    |
| Iron                                                                            | mg/L | 0.03   | <0.03   | 100        | 80-120  | 96           | 70-130  | -                                                  | 0-20    |
| Lead                                                                            | mg/L | 0.001  | <0.001  | 100        | 80-120  | 90           | 70-130  | -                                                  | 0-20    |
| Manganese                                                                       | mg/L | 0.01   | <0.01   | 100        | 80-120  | 99           | 70-130  | -                                                  | 0-20    |
| Mercury                                                                         | mg/L | 0.0001 | <0.0001 | 91         | 80-120  | 80           | 70-130  | -                                                  | 0-20    |
| Molybdenum                                                                      | mg/L | 0.005  | <0.005  | 100        | 80-120  | 97           | 70-130  | -                                                  | 0-20    |
| Nickel                                                                          | mg/L | 0.005  | <0.005  | 110        | 80-120  | 96           | 70-130  | -                                                  | 0-20    |
| Selenium                                                                        | mg/L | 0.001  | <0.001  | 99         | 80-120  | 103          | 70-130  | -                                                  | 0-20    |
| Silver                                                                          | mg/L | 0.0001 | <0.0001 | 107        | 80-120  | 89           | 70-130  | -                                                  | 0-20    |
| Strontium                                                                       | mg/L | 0.001  | <0.001  | 100        | 80-120  | 100          | 70-130  | 1                                                  | 0-20    |
| Thallium                                                                        | mg/L | 0.0001 | <0.0001 | 101        | 80-120  | 90           | 70-130  | -                                                  | 0-20    |
| Uranium                                                                         | mg/L | 0.001  | <0.001  | 100        | 80-120  | 90           | 70-130  | -                                                  | 0-20    |
| Vanadium                                                                        | mg/L | 0.001  | <0.001  | 100        | 80-120  | 103          | 70-130  | -                                                  | 0-20    |
| Zinc                                                                            | mg/L | 0.01   | <0.01   | 110        | 80-120  | 100          | 70-130  | -                                                  | 0-20    |
| Associated Samples : 9869307                                                    |      |        |         |            |         |              |         | Prep Date: 2026-07-13<br>Analysis Date: 2026-07-13 |         |
| Metals Scan (Water, ICP/OES)                                                    |      |        |         |            |         |              |         |                                                    |         |
| Method : Metals (Water, ICP/OES). Internal method: OTT-I-MET-WI48491.           |      |        |         |            |         |              |         |                                                    |         |
| Calcium                                                                         | mg/L | 1      | <1      | 100        | 70-130  | 97           | 70-130  | 0                                                  | 0-20    |
| Magnesium                                                                       | mg/L | 1      | <1      | 101        | 70-130  | 106          | 70-130  | 0                                                  | 0-20    |
| Potassium                                                                       | mg/L | 1      | <1      | 99         | 70-130  | 103          | 70-130  | -                                                  | 0-20    |
| Sodium                                                                          | mg/L | 1      | <1      | 101        | 70-130  | 102          | 70-130  | 0                                                  | 0-20    |
| Associated Samples : 9869307                                                    |      |        |         |            |         |              |         | Prep Date: 2026-07-15<br>Analysis Date: 2026-07-10 |         |
| Nitrate (Water, IC)                                                             |      |        |         |            |         |              |         |                                                    |         |
| Method : Anions (Water, Ion Chromatography). Internal method: OTT-I-IC-WI45985. |      |        |         |            |         |              |         |                                                    |         |
| Nitrate (as Nitrogen)                                                           | mg/L | 0.1    | <0.1    | 106        | 80-120  | 101          | 80-120  | -                                                  | 0-20    |
| Associated Samples : 9869307                                                    |      |        |         |            |         |              |         | Prep Date: 2026-07-14<br>Analysis Date: 2026-07-16 |         |
| Nitrite (Water, IC)                                                             |      |        |         |            |         |              |         |                                                    |         |
| Method : Anions (Water, Ion Chromatography). Internal method: OTT-I-IC-WI45985. |      |        |         |            |         |              |         |                                                    |         |
| Nitrite (as Nitrogen)                                                           | mg/L | 0.1    | <0.1    | 105        | 80-120  | 109          | 80-120  | -                                                  | 0-20    |
| Associated Samples : 9869307                                                    |      |        |         |            |         |              |         | Prep Date: 2026-07-14<br>Analysis Date: 2026-07-16 |         |
| Phenols (Water, Colorimetry)                                                    |      |        |         |            |         |              |         |                                                    |         |
| Method : Phenols (Water, Colorimetry). Internal method: OTT-I-4AAP-WI46150.     |      |        |         |            |         |              |         |                                                    |         |
| Phenols-4AAP                                                                    | mg/L | 0.001  | <0.001  | 101        | 75-125  | 78           | 70-130  | 4                                                  | 0-20    |
| Associated Samples : 9869307                                                    |      |        |         |            |         |              |         | Prep Date: 2026-07-13<br>Analysis Date: 2026-07-13 |         |

## OFFICIAL CERTIFICATE OF ANALYSIS - QUALITY CONTROL

Client : Paterson Group

Project : PH5222

Reception Date: 2026-07-10

| Parameter                                                                                        | Unit      | RL   | Blank  | QC         |         | Matrix Spike |         | Duplicate                                          |         |
|--------------------------------------------------------------------------------------------------|-----------|------|--------|------------|---------|--------------|---------|----------------------------------------------------|---------|
|                                                                                                  |           |      |        | Recovery % | Range % | Recovery %   | Range % | RPD %                                              | Range % |
| Sulphate (Water, IC)                                                                             |           |      |        |            |         |              |         |                                                    |         |
| Method : Anions (Water, Ion Chromatography). Internal method: OTT-I-IC-WI45985.                  |           |      |        |            |         |              |         |                                                    |         |
| Sulphate                                                                                         | mg/L      | 1    | <1     | 110        | 90-110  | 106          | 80-120  | 2                                                  | 0-20    |
| Associated Samples : 9869307                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-14<br>Analysis Date: 2026-07-16 |         |
| Sulphide (Water, Colorimetry)                                                                    |           |      |        |            |         |              |         |                                                    |         |
| Method : Sulphide, S2- (Water, Colorimetry). Internal method: OTT-I-SPEC-WI45931.                |           |      |        |            |         |              |         |                                                    |         |
| Sulphide (S2-)                                                                                   | mg/L      | 0.01 | <0.01  | 63         | 48-131  |              |         | -                                                  | 0-20    |
| Associated Samples : 9869307                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-15<br>Analysis Date: 2026-07-16 |         |
| Tannin and Lignin (Water, Spec)                                                                  |           |      |        |            |         |              |         |                                                    |         |
| Method : Tannin and Lignin (Water, Spec), Internal method: OTT-I-SPEC-WI57693.                   |           |      |        |            |         |              |         |                                                    |         |
| Tannin and Lignin                                                                                | mg/L      | 0.1  | <0.1   | 100        | 80-120  |              |         | -                                                  | 0-20    |
| Associated Samples : 9869307                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-14<br>Analysis Date: 2026-07-14 |         |
| Total Coliforms (DC Plate)                                                                       |           |      |        |            |         |              |         |                                                    |         |
| Method : Total Coliforms and E.Coli by MF (Water, DC plate). Internal method: OTT-M-BAC-WI45296. |           |      |        |            |         |              |         |                                                    |         |
| Total Coliforms (DC)                                                                             | CFU/100mL | 0    | 0      |            |         |              |         | -                                                  | 0-30    |
| Associated Samples : 9869307                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-10<br>Analysis Date: 2026-07-11 |         |
| Total Kjeldahl Nitrogen (Water, Colorimetry)                                                     |           |      |        |            |         |              |         |                                                    |         |
| Method : TKN (Water, colorimetry). Internal method: OTT-I-NUT-WI46201.                           |           |      |        |            |         |              |         |                                                    |         |
| Total Kjeldahl Nitrogen                                                                          | mg/L      | 0.1  | <0.100 | 101        | 70-130  | 106          | 70-130  | -                                                  | 0-20    |
| Associated Samples : 9869307                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-13<br>Analysis Date: 2026-07-14 |         |
| Turbidity (Water, Turbidimeter)                                                                  |           |      |        |            |         |              |         |                                                    |         |
| Method : Turbidity (Water, Turbidimeter). Internal method: OTT-I-TUR-WI46288.                    |           |      |        |            |         |              |         |                                                    |         |
| Turbidity                                                                                        | NTU       | 0.1  | <0.1   | 95         | 80-120  |              |         | -                                                  | 0-30    |
| Associated Samples : 9869307                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-10<br>Analysis Date: 2026-07-10 |         |

Where RPD % is reported as "-" the calculation is not available because one or both of the duplicates is within 5 times the RL.

## STANDARD CHAIN-OF-CUSTODY

146 Colonnade Road, Unit #8, Ottawa, ON, K2E 7Y1 - Phone: 613-727-5692, Fax: 613-727-5222

[illegible]

**OFFICIAL CERTIFICATE OF ANALYSIS : 4766642**
**WORK REQUEST : 100451255**
**Report Date : 2026-07-22**
**Paterson Group**

9 Auriga Drive  
Ottawa, Ontario  
K2J 5Z9  
Attention : Zavian Buchanan

Reception Date : 2026-07-16  
Project : PH5222  
Sampler : NA  
PO Number : 66474  
Temperature : 9 °C

| Analysis                                     | Quantity | External Method                        |
|----------------------------------------------|----------|----------------------------------------|
| Alkalinity (Water, Automated)                | 1        | Modified from SM 2320 B                |
| Ammonia, Total (Water, Colorimetry)          | 1        | Modified from EPA 350.1                |
| Chloride (Water, IC)                         | 1        | Modified from SM 4110 B and C          |
| Colour, Apparent (Water, Spectrophotometry)  | 1        | Modified from SM 2120 C                |
| Colour, True (Water, Spectrophotometry)      | 1        | Modified from SM 2120 C                |
| Conductivity (Water, Automated)              | 1        | Modified from SM 2510 B                |
| DOC (Water, IR)                              | 1        | Modified from SM 5310 B                |
| Escherichia coli (DC Plate)                  | 1        | Modified from MECP E3407               |
| Fluoride (Water, Auto/ISE)                   | 1        | Modified from SM 4500-F A and 4500-F C |
| Hardness (Water, Calculation Only)           | 1        | SM 2340 B                              |
| Ion Balance (Water, Calculation)             | 1        | Modified from SM1030 E                 |
| Metals Scan (Water, ICP/MS)                  | 1        | Modified from EPA 200.8                |
| Metals Scan (Water, ICP/OES)                 | 1        | Modified from SM 3120 B                |
| Nitrate (Water, IC)                          | 1        | Modified from SM 4110 B and C          |
| Nitrite (Water, IC)                          | 1        | Modified from SM 4110 B and C          |
| pH (25°C) (Water, Automated)                 | 1        | Modified from SM 4500-H+ B             |
| Phenols (Water, Colorimetry)                 | 1        | Modified from EPA 420.2                |
| Sulphate (Water, IC)                         | 1        | Modified from SM 4110 B and C          |
| Sulphide (Water, Colorimetry)                | 1        | Modified from SM 4500-S2 D             |
| Tannin and Lignin (Water, Spec)              | 1        | Modified from SM 5550 B                |
| TDS (Estimated)                              | 1        | Modified from SM 2510 A                |
| Total Coliforms (DC Plate)                   | 1        | Modified from MECP E3407               |
| Total Kjeldahl Nitrogen (Water, Colorimetry) | 1        | Modified from EPA 351.2                |
| Turbidity (Water, Turbidimeter)              | 1        | Modified from SM 2130 B                |

**Criteria :**
**A :** Ontario Regulation 169/03 (Non-Regulated Drinking Water)

**Sample status upon receipt :**

9894202

**Compliant**
**Certificate Comments :**

9894202

**N-NO3 and N-NO2 MRLs increased due to matrix interference.**
**Notes :**

- All analysis is completed at Eurofins Environment Testing Canada Inc. (Ottawa, Ontario) unless otherwise stated.
- Eurofins Environment Testing Canada Inc. is accredited by CALA, Canadian Association for Laboratory Accreditation to ISO/IEC 17025 for tests which appear on the scope of accreditation. The scope is available at <https://directory.cala.ca/>
- Please note: Field data, where presented on the report, has been provided by the client and is presented for informational purposes only. Guideline or regulatory limits listed on this report are provided for ease of use (informational purposes) only. Eurofins recommends consulting the official guideline or regulation as required. Unless otherwise stated, measurement uncertainty is not taken into account when determining guideline or regulatory exceedances.

**Legend :**

RL : Reporting limit

QC : Reference material (QC)

N/A : Not applicable

1 : Results in annex

\* : Analysis conducted by external subcontracting

^ : Analysis not accredited

## OFFICIAL CERTIFICATE OF ANALYSIS - EXCEEDENCE SUMMARY

Client : Paterson Group

Project : PH5222

Reception Date : 2026-07-16

| Eurofins<br>Sample No              | Client Sample<br>Identification | Analyte                         | Result | Units | Exceeded Criteria |   |   |
|------------------------------------|---------------------------------|---------------------------------|--------|-------|-------------------|---|---|
|                                    |                                 |                                 |        |       | A                 | B | C |
| Hardness (Water, Calculation Only) |                                 |                                 |        |       |                   |   |   |
| 9894202                            | 19 Poplarwood                   | Hardness as CaCO3 (Calculation) | 259    | mg/L  | 80-100            |   |   |
| Metals Scan (Water, ICP/OES)       |                                 |                                 |        |       |                   |   |   |
| 9894202                            | 19 Poplarwood                   | Sodium                          | 215    | mg/L  | 200               |   |   |
| TDS (Estimated)                    |                                 |                                 |        |       |                   |   |   |
| 9894202                            | 19 Poplarwood                   | TDS (Estimated)^                | 904    | mg/L  | 500               |   |   |

**OFFICIAL CERTIFICATE OF ANALYSIS - RESULTS**

Client : Paterson Group  
Project : PH5222

Reception Date: 2026-07-16

|          |     |      | Eurofins Sample No : <b>9894202</b>          |   |   |      |  |  |  |
|----------|-----|------|----------------------------------------------|---|---|------|--|--|--|
|          |     |      | Matrix : Groundwater                         |   |   |      |  |  |  |
|          |     |      | Sampling Date : 2026-07-16                   |   |   |      |  |  |  |
|          |     |      | Client Sample Identification : 19 Poplarwood |   |   |      |  |  |  |
| Anions   | RL  | Unit | Criteria                                     |   |   |      |  |  |  |
|          |     |      | A                                            | B | C |      |  |  |  |
| Chloride | 0.5 | mg/L | 250                                          |   |   | 155  |  |  |  |
| Fluoride | 0.1 | mg/L | 1.5                                          |   |   | 0.42 |  |  |  |
| Sulphate | 1   | mg/L | 500                                          |   |   | 92   |  |  |  |

|                            |     |      | Eurofins Sample No : <b>9894202</b>          |  |  |  |  |  |  |
|----------------------------|-----|------|----------------------------------------------|--|--|--|--|--|--|
|                            |     |      | Matrix : Groundwater                         |  |  |  |  |  |  |
|                            |     |      | Sampling Date : 2026-07-16                   |  |  |  |  |  |  |
|                            |     |      | Client Sample Identification : 19 Poplarwood |  |  |  |  |  |  |
| Calculations               | RL  | Unit |                                              |  |  |  |  |  |  |
| Ion Balance (Calculation)^ | 0.1 |      | 1.02                                         |  |  |  |  |  |  |

|                                             |       |       | Eurofins Sample No : <b>9894202</b>          |   |   |        |  |  |  |
|---------------------------------------------|-------|-------|----------------------------------------------|---|---|--------|--|--|--|
|                                             |       |       | Matrix : Groundwater                         |   |   |        |  |  |  |
|                                             |       |       | Sampling Date : 2026-07-16                   |   |   |        |  |  |  |
|                                             |       |       | Client Sample Identification : 19 Poplarwood |   |   |        |  |  |  |
| General Chemistry                           | RL    | Unit  | Criteria                                     |   |   |        |  |  |  |
|                                             |       |       | A                                            | B | C |        |  |  |  |
| Alkalinity (as CaCO <sub>3</sub> )          | 5     | mg/L  | 500                                          |   |   | 403    |  |  |  |
| Colour (Apparent)                           | 2     | TCU   | 5                                            |   |   | <2     |  |  |  |
| Colour (True)                               | 2     | TCU   |                                              |   |   | <2     |  |  |  |
| Conductivity @ 25°C                         | 5     | µS/cm |                                              |   |   | 1390   |  |  |  |
| Dissolved Organic Carbon                    | 0.5   | mg/L  | 5                                            |   |   | 1.7    |  |  |  |
| Hardness as CaCO <sub>3</sub> (Calculation) | 1     | mg/L  | 80-100                                       |   |   | 259    |  |  |  |
| pH @ 25°C                                   | 1     |       | 6.5-8.5                                      |   |   | 7.69   |  |  |  |
| Phenols-4AAP                                | 0.001 | mg/L  |                                              |   |   | <0.001 |  |  |  |
| Sulphide (S <sup>2-</sup> )                 | 0.01  | mg/L  | 0.05                                         |   |   | <0.01  |  |  |  |
| Tannin and Lignin                           | 0.1   | mg/L  |                                              |   |   | <0.1   |  |  |  |
| TDS (Estimated)^                            | 5     | mg/L  | 500                                          |   |   | 904    |  |  |  |
| Turbidity                                   | 0.1   | NTU   | 5                                            |   |   | 0.2    |  |  |  |

## OFFICIAL CERTIFICATE OF ANALYSIS - RESULTS

Client : Paterson Group  
Project : PH5222

Reception Date: 2026-07-16

|                                |        |      |       |          |                  |         |  |  |  |  |
|--------------------------------|--------|------|-------|----------|------------------|---------|--|--|--|--|
| Eurofins Sample No :           |        |      |       |          | 9894202          |         |  |  |  |  |
| Matrix :                       |        |      |       |          | Groundwater      |         |  |  |  |  |
| Sampling Date :                |        |      |       |          | 2026-07-16       |         |  |  |  |  |
| Client Sample Identification : |        |      |       |          | 19<br>Poplarwood |         |  |  |  |  |
| Metals                         |        | RL   | Unit  | Criteria |                  |         |  |  |  |  |
|                                |        |      |       | A        | B                | C       |  |  |  |  |
| Metals Scan (Water, ICP/MS)    |        |      |       |          |                  |         |  |  |  |  |
| Aluminum                       | 0.01   | mg/L | 0.1   |          |                  | <0.01   |  |  |  |  |
| Antimony                       | 0.0005 | mg/L | 0.006 |          |                  | <0.0005 |  |  |  |  |
| Arsenic                        | 0.001  | mg/L | 0.01  |          |                  | <0.001  |  |  |  |  |
| Barium                         | 0.001  | mg/L | 1     |          |                  | 0.025   |  |  |  |  |
| Beryllium                      | 0.0005 | mg/L |       |          |                  | <0.0005 |  |  |  |  |
| Boron                          | 0.01   | mg/L | 5     |          |                  | 0.96    |  |  |  |  |
| Cadmium                        | 0.0001 | mg/L | 0.005 |          |                  | <0.0001 |  |  |  |  |
| Chromium                       | 0.001  | mg/L | 0.05  |          |                  | <0.001  |  |  |  |  |
| Cobalt                         | 0.0002 | mg/L |       |          |                  | 0.0005  |  |  |  |  |
| Copper                         | 0.001  | mg/L | 1     |          |                  | 0.006   |  |  |  |  |
| Iron                           | 0.03   | mg/L | 0.3   |          |                  | <0.03   |  |  |  |  |
| Lead                           | 0.001  | mg/L | 0.01  |          |                  | <0.001  |  |  |  |  |
| Manganese                      | 0.01   | mg/L | 0.05  |          |                  | 0.01    |  |  |  |  |
| Mercury                        | 0.0001 | mg/L | 0.001 |          |                  | <0.0001 |  |  |  |  |
| Molybdenum                     | 0.005  | mg/L |       |          |                  | <0.005  |  |  |  |  |
| Nickel                         | 0.005  | mg/L |       |          |                  | <0.005  |  |  |  |  |
| Selenium                       | 0.001  | mg/L | 0.05  |          |                  | <0.001  |  |  |  |  |
| Silver                         | 0.0001 | mg/L |       |          |                  | <0.0001 |  |  |  |  |
| Strontium                      | 0.001  | mg/L |       |          |                  | 9.22    |  |  |  |  |
| Thallium                       | 0.0001 | mg/L |       |          |                  | <0.0001 |  |  |  |  |
| Uranium                        | 0.001  | mg/L | 0.02  |          |                  | <0.001  |  |  |  |  |
| Vanadium                       | 0.001  | mg/L |       |          |                  | <0.001  |  |  |  |  |
| Zinc                           | 0.01   | mg/L | 5     |          |                  | 0.01    |  |  |  |  |
| Metals Scan (Water, ICP/OES)   |        |      |       |          |                  |         |  |  |  |  |
| Calcium                        | 1      | mg/L |       |          |                  | 64      |  |  |  |  |
| Magnesium                      | 1      | mg/L |       |          |                  | 24      |  |  |  |  |
| Potassium                      | 1      | mg/L |       |          |                  | 5       |  |  |  |  |
| Sodium                         | 1      | mg/L | 200   |          |                  | 215     |  |  |  |  |

|                       |    |           | Eurofins Sample No : <b>9894202</b>          |   |   |   |  |  |  |
|-----------------------|----|-----------|----------------------------------------------|---|---|---|--|--|--|
|                       |    |           | Matrix : Groundwater                         |   |   |   |  |  |  |
|                       |    |           | Sampling Date : 2026-07-16                   |   |   |   |  |  |  |
|                       |    |           | Client Sample Identification : 19 Poplarwood |   |   |   |  |  |  |
| Microbiology          | RL | Unit      | Criteria                                     |   |   |   |  |  |  |
|                       |    |           | A                                            | B | C |   |  |  |  |
| Escherichia coli (DC) | 0  | CFU/100mL | 0                                            |   |   | 0 |  |  |  |
| Total Coliforms (DC)  | 0  | CFU/100mL | 0                                            |   |   | 0 |  |  |  |

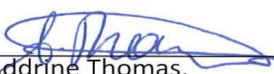
## OFFICIAL CERTIFICATE OF ANALYSIS - RESULTS

Client : Paterson Group  
Project : PH5222

Reception Date: 2026-07-16

|                              |      |      | Eurofins Sample No :           |   |   | 9894202          |  |  |  |  |
|------------------------------|------|------|--------------------------------|---|---|------------------|--|--|--|--|
|                              |      |      | Matrix :                       |   |   | Groundwater      |  |  |  |  |
|                              |      |      | Sampling Date :                |   |   | 2026-07-16       |  |  |  |  |
|                              |      |      | Client Sample Identification : |   |   | 19<br>Poplarwood |  |  |  |  |
| Nutrients                    | RL   | Unit | Criteria                       |   |   |                  |  |  |  |  |
|                              |      |      | A                              | B | C |                  |  |  |  |  |
| Ammonia (Total, as Nitrogen) | 0.02 | mg/L |                                |   |   | 0.157            |  |  |  |  |
| Nitrate (as Nitrogen)        | 0.1  | mg/L | 10.0                           |   |   | <0.5             |  |  |  |  |
| Nitrite (as Nitrogen)        | 0.1  | mg/L | 1.0                            |   |   | <0.5             |  |  |  |  |
| Total Kjeldahl Nitrogen      | 0.1  | mg/L |                                |   |   | 0.304            |  |  |  |  |

Approved by :

  
Addrine Thomas,  
Chemistry Manager, Ottawa

Approved by :

  
Emma-Dawn Ferguson, M.Sc.  
Environmental Chemist

## OFFICIAL CERTIFICATE OF ANALYSIS - QUALITY CONTROL

Client : Paterson Group  
Project : PH5222

Reception Date: 2026-07-16

| Parameter                                                                                        | Unit      | RL   | Blank  | QC         |         | Matrix Spike |         | Duplicate                                          |         |
|--------------------------------------------------------------------------------------------------|-----------|------|--------|------------|---------|--------------|---------|----------------------------------------------------|---------|
|                                                                                                  |           |      |        | Recovery % | Range % | Recovery %   | Range % | RPD %                                              | Range % |
| Alkalinity (Water, Automated)                                                                    |           |      |        |            |         |              |         |                                                    |         |
| Method : Alkalinity (water, titration to pH 4.5, automated). Internal method: OTT-I-AT-WI45398.  |           |      |        |            |         |              |         |                                                    |         |
| Alkalinity (as CaCO3)                                                                            | mg/L      | 5    | <5     | 101        | 95-105  |              |         | 1                                                  | 0-20    |
| Associated Samples : 9894202                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-20<br>Analysis Date: 2026-07-21 |         |
| Ammonia, Total (Water, Colorimetry)                                                              |           |      |        |            |         |              |         |                                                    |         |
| Method : Ammonia (Water, Colorimetry). Internal method: OTT-I-NUT-WI46201.                       |           |      |        |            |         |              |         |                                                    |         |
| Ammonia (Total, as Nitrogen)                                                                     | mg/L      | 0.02 | <0.020 | 100        | 80-120  | 102          | 80-120  | -                                                  | 0-20    |
| Associated Samples : 9894202                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-17<br>Analysis Date: 2026-07-17 |         |
| Chloride (Water, IC)                                                                             |           |      |        |            |         |              |         |                                                    |         |
| Method : Anions (Water, Ion Chromatography). Internal method: OTT-I-IC-WI45985.                  |           |      |        |            |         |              |         |                                                    |         |
| Chloride                                                                                         | mg/L      | 0.5  | <0.5   | 92         | 80-120  | 103          | 80-120  | 1                                                  | 0-20    |
| Associated Samples : 9894202                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-20<br>Analysis Date: 2026-07-21 |         |
| Colour, Apparent (Water, Spectrophotometry)                                                      |           |      |        |            |         |              |         |                                                    |         |
| Method : Colour (Water, Spectrophotometric). Internal method: OTT-I-SPEC-WI45980.                |           |      |        |            |         |              |         |                                                    |         |
| Colour (Apparent)                                                                                | TCU       | 2    | <2     | 102        | 78-116  |              |         | -                                                  | 0-40    |
| Associated Samples : 9894202                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-22<br>Analysis Date: 2026-07-22 |         |
| Colour, True (Water, Spectrophotometry)                                                          |           |      |        |            |         |              |         |                                                    |         |
| Method : Colour (Water, Spectrophotometric). Internal method: OTT-I-SPEC-WI45980.                |           |      |        |            |         |              |         |                                                    |         |
| Colour (True)                                                                                    | TCU       | 2    | <2     | 102        | 78-116  |              |         | -                                                  | 0-40    |
| Associated Samples : 9894202                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-22<br>Analysis Date: 2026-07-22 |         |
| Conductivity (Water, Automated)                                                                  |           |      |        |            |         |              |         |                                                    |         |
| Method : Conductivity (Water, Autotitrator). Internal Method: OTT-I-AT-WI45398.                  |           |      |        |            |         |              |         |                                                    |         |
| Conductivity @ 25°C                                                                              | uS/cm     | 5    | <5     | 102        | 98-102  |              |         | 0                                                  | 0-20    |
| Associated Samples : 9894202                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-20<br>Analysis Date: 2026-07-21 |         |
| DOC (Water, IR)                                                                                  |           |      |        |            |         |              |         |                                                    |         |
| Method : Organic carbon (water, IR, combustion). Internal method: OTT-I-DEM-WI46148.             |           |      |        |            |         |              |         |                                                    |         |
| Dissolved Organic Carbon                                                                         | mg/L      | 0.5  | <0.5   | 98         | 88-112  | 101          | 85-115  | 1                                                  | 0-15    |
| Associated Samples : 9894202                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-20<br>Analysis Date: 2026-07-22 |         |
| Escherichia coli (DC Plate)                                                                      |           |      |        |            |         |              |         |                                                    |         |
| Method : Total Coliforms and E.Coli by MF (Water, DC plate). Internal method: OTT-M-BAC-WI45296. |           |      |        |            |         |              |         |                                                    |         |
| Escherichia coli (DC)                                                                            | CFU/100mL | 0    | 0      |            |         |              |         | -                                                  | 0-30    |
| Associated Samples : 9894202                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-16<br>Analysis Date: 2026-07-17 |         |
| Fluoride (Water, Auto/ISE)                                                                       |           |      |        |            |         |              |         |                                                    |         |
| Method : Fluoride by autotitrator, ion selective electrode. Internal method: OTT-I-AT-WI45398.   |           |      |        |            |         |              |         |                                                    |         |
| Fluoride                                                                                         | mg/L      | 0.1  | <0.10  | 99         | 90-110  |              |         | -                                                  | 0-20    |
| Associated Samples : 9894202                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-20<br>Analysis Date: 2026-07-21 |         |

## OFFICIAL CERTIFICATE OF ANALYSIS - QUALITY CONTROL

Client : Paterson Group

Project : PH5222

Reception Date: 2026-07-16

| Parameter                                                                       | Unit | RL     | Blank   | QC         |         | Matrix Spike |         | Duplicate                                          |         |
|---------------------------------------------------------------------------------|------|--------|---------|------------|---------|--------------|---------|----------------------------------------------------|---------|
|                                                                                 |      |        |         | Recovery % | Range % | Recovery %   | Range % | RPD %                                              | Range % |
| Metals Scan (Water, ICP/MS)                                                     |      |        |         |            |         |              |         |                                                    |         |
| Method : Metals (Water, ICP/MS). Internal method: AMMTFQE1.                     |      |        |         |            |         |              |         |                                                    |         |
| Aluminum                                                                        | mg/L | 0.01   | <0.01   | 100        | 80-120  | 96           | 70-130  | -                                                  | 0-20    |
| Antimony                                                                        | mg/L | 0.0005 | <0.0005 | 81         | 80-120  | 78           | 70-130  | -                                                  | 0-20    |
| Arsenic                                                                         | mg/L | 0.001  | <0.001  | 100        | 80-120  | 96           | 70-130  | -                                                  | 0-20    |
| Barium                                                                          | mg/L | 0.001  | <0.001  | 100        | 80-120  | 91           | 70-130  | -                                                  | 0-20    |
| Beryllium                                                                       | mg/L | 0.0005 | <0.0005 | 104        | 80-120  | 99           | 70-130  | -                                                  | 0-20    |
| Boron                                                                           | mg/L | 0.01   | <0.01   | 100        | 80-120  | 90           | 70-130  | -                                                  | 0-20    |
| Cadmium                                                                         | mg/L | 0.0001 | <0.0001 | 102        | 80-120  | 96           | 70-130  | -                                                  | 0-20    |
| Chromium                                                                        | mg/L | 0.001  | <0.001  | 110        | 80-120  | 99           | 70-130  | -                                                  | 0-20    |
| Cobalt                                                                          | mg/L | 0.0002 | <0.0002 | 106        | 80-120  | 98           | 70-130  | -                                                  | 0-20    |
| Copper                                                                          | mg/L | 0.001  | <0.001  | 110        | 80-120  | 101          | 70-130  | -                                                  | 0-20    |
| Iron                                                                            | mg/L | 0.03   | <0.03   | 100        | 80-120  | 94           | 70-130  | -                                                  | 0-20    |
| Lead                                                                            | mg/L | 0.001  | <0.001  | 100        | 80-120  | 96           | 70-130  | -                                                  | 0-20    |
| Manganese                                                                       | mg/L | 0.01   | <0.01   | 100        | 80-120  | 94           | 70-130  | -                                                  | 0-20    |
| Mercury                                                                         | mg/L | 0.0001 | <0.0001 | 95         | 80-120  | 100          | 70-130  | -                                                  | 0-20    |
| Molybdenum                                                                      | mg/L | 0.005  | <0.005  | 100        | 80-120  | 89           | 70-130  | -                                                  | 0-20    |
| Nickel                                                                          | mg/L | 0.005  | <0.005  | 110        | 80-120  | 100          | 70-130  | -                                                  | 0-20    |
| Selenium                                                                        | mg/L | 0.001  | <0.001  | 101        | 80-120  | 99           | 70-130  | -                                                  | 0-20    |
| Silver                                                                          | mg/L | 0.0001 | <0.0001 | 115        | 80-120  | 83           | 70-130  | -                                                  | 0-20    |
| Strontium                                                                       | mg/L | 0.001  | <0.001  | 100        | 80-120  | 91           | 70-130  | -                                                  | 0-20    |
| Thallium                                                                        | mg/L | 0.0001 | <0.0001 | 105        | 80-120  | 97           | 70-130  | -                                                  | 0-20    |
| Uranium                                                                         | mg/L | 0.001  | <0.001  | 100        | 80-120  | 94           | 70-130  | -                                                  | 0-20    |
| Vanadium                                                                        | mg/L | 0.001  | <0.001  | 100        | 80-120  | 96           | 70-130  | -                                                  | 0-20    |
| Zinc                                                                            | mg/L | 0.01   | <0.01   | 110        | 80-120  | 100          | 70-130  | -                                                  | 0-20    |
| Associated Samples : 9894202                                                    |      |        |         |            |         |              |         | Prep Date: 2026-07-17<br>Analysis Date: 2026-07-17 |         |
| Metals Scan (Water, ICP/OES)                                                    |      |        |         |            |         |              |         |                                                    |         |
| Method : Metals (Water, ICP/OES). Internal method: OTT-I-MET-WI48491.           |      |        |         |            |         |              |         |                                                    |         |
| Calcium                                                                         | mg/L | 1      | <1      | 100        | 70-130  | 100          | 70-130  | 1                                                  | 0-20    |
| Magnesium                                                                       | mg/L | 1      | <1      | 100        | 70-130  | 98           | 70-130  | 0                                                  | 0-20    |
| Potassium                                                                       | mg/L | 1      | <1      | 100        | 70-130  | 98           | 70-130  | -                                                  | 0-20    |
| Sodium                                                                          | mg/L | 1      | <1      | 100        | 70-130  | 104          | 70-130  | 1                                                  | 0-20    |
| Associated Samples : 9894202                                                    |      |        |         |            |         |              |         | Prep Date: 2026-07-21<br>Analysis Date: 2026-07-16 |         |
| Nitrate (Water, IC)                                                             |      |        |         |            |         |              |         |                                                    |         |
| Method : Anions (Water, Ion Chromatography). Internal method: OTT-I-IC-WI45985. |      |        |         |            |         |              |         |                                                    |         |
| Nitrate (as Nitrogen)                                                           | mg/L | 0.1    | <0.1    | 97         | 80-120  | 95           | 80-120  | -                                                  | 0-20    |
| Associated Samples : 9894202                                                    |      |        |         |            |         |              |         | Prep Date: 2026-07-20<br>Analysis Date: 2026-07-21 |         |
| Nitrite (Water, IC)                                                             |      |        |         |            |         |              |         |                                                    |         |
| Method : Anions (Water, Ion Chromatography). Internal method: OTT-I-IC-WI45985. |      |        |         |            |         |              |         |                                                    |         |
| Nitrite (as Nitrogen)                                                           | mg/L | 0.1    | <0.1    | 93         | 80-120  | 99           | 80-120  | -                                                  | 0-20    |
| Associated Samples : 9894202                                                    |      |        |         |            |         |              |         | Prep Date: 2026-07-20<br>Analysis Date: 2026-07-21 |         |
| pH (25°C) (Water, Automated)                                                    |      |        |         |            |         |              |         |                                                    |         |
| Method : pH (Water, Automated Meter). Internal method: OTT-I-AT-WI45398.        |      |        |         |            |         |              |         |                                                    |         |
| pH @ 25°C                                                                       |      | 1      | 7.39    | 100        | 97-103  |              |         | 0                                                  | 0-20    |
| Associated Samples : 9894202                                                    |      |        |         |            |         |              |         | Prep Date: 2026-07-20<br>Analysis Date: 2026-07-21 |         |

## OFFICIAL CERTIFICATE OF ANALYSIS - QUALITY CONTROL

Client : Paterson Group

Project : PH5222

Reception Date: 2026-07-16

| Parameter                                                                                        | Unit      | RL    | Blank  | QC         |         | Matrix Spike |         | Duplicate                                          |         |
|--------------------------------------------------------------------------------------------------|-----------|-------|--------|------------|---------|--------------|---------|----------------------------------------------------|---------|
|                                                                                                  |           |       |        | Recovery % | Range % | Recovery %   | Range % | RPD %                                              | Range % |
| Phenols (Water, Colorimetry)                                                                     |           |       |        |            |         |              |         |                                                    |         |
| Method : Phenols (Water, Colorimetry). Internal method: OTT-I-4AAP-WI46150.                      |           |       |        |            |         |              |         |                                                    |         |
| Phenols-4AAP                                                                                     | mg/L      | 0.001 | <0.001 | 104        | 80-120  | 88           | 70-130  | -                                                  | 0-20    |
| Associated Samples : 9894202                                                                     |           |       |        |            |         |              |         | Prep Date: 2026-07-17<br>Analysis Date: 2026-07-17 |         |
| Sulphate (Water, IC)                                                                             |           |       |        |            |         |              |         |                                                    |         |
| Method : Anions (Water, Ion Chromatography). Internal method: OTT-I-IC-WI45985.                  |           |       |        |            |         |              |         |                                                    |         |
| Sulphate                                                                                         | mg/L      | 1     | <1     | 90         | 90-110  | 95           | 80-120  | 3                                                  | 0-20    |
| Associated Samples : 9894202                                                                     |           |       |        |            |         |              |         | Prep Date: 2026-07-20<br>Analysis Date: 2026-07-21 |         |
| Sulphide (Water, Colorimetry)                                                                    |           |       |        |            |         |              |         |                                                    |         |
| Method : Sulphide, S2- (Water, Colorimetry). Internal method: OTT-I-SPEC-WI45931.                |           |       |        |            |         |              |         |                                                    |         |
| Sulphide (S2-)                                                                                   | mg/L      | 0.01  | <0.01  | 66         | 48-131  |              |         | -                                                  | 0-20    |
| Associated Samples : 9894202                                                                     |           |       |        |            |         |              |         | Prep Date: 2026-07-21<br>Analysis Date: 2026-07-21 |         |
| Tannin and Lignin (Water, Spec)                                                                  |           |       |        |            |         |              |         |                                                    |         |
| Method : Tannin and Lignin (Water, Spec), Internal method: OTT-I-SPEC-WI57693.                   |           |       |        |            |         |              |         |                                                    |         |
| Tannin and Lignin                                                                                | mg/L      | 0.1   | <0.1   | 96         | 80-120  |              |         | -                                                  | 0-20    |
| Associated Samples : 9894202                                                                     |           |       |        |            |         |              |         | Prep Date: 2026-07-22<br>Analysis Date: 2026-07-22 |         |
| Total Coliforms (DC Plate)                                                                       |           |       |        |            |         |              |         |                                                    |         |
| Method : Total Coliforms and E.Coli by MF (Water, DC plate). Internal method: OTT-M-BAC-WI45296. |           |       |        |            |         |              |         |                                                    |         |
| Total Coliforms (DC)                                                                             | CFU/100mL | 0     | 0      |            |         |              |         | -                                                  | 0-30    |
| Associated Samples : 9894202                                                                     |           |       |        |            |         |              |         | Prep Date: 2026-07-16<br>Analysis Date: 2026-07-17 |         |
| Total Kjeldahl Nitrogen (Water, Colorimetry)                                                     |           |       |        |            |         |              |         |                                                    |         |
| Method : TKN (Water, colorimetry). Internal method: OTT-I-NUT-WI46201.                           |           |       |        |            |         |              |         |                                                    |         |
| Total Kjeldahl Nitrogen                                                                          | mg/L      | 0.1   | <0.100 | 103        | 70-130  | 98           | 70-130  | -                                                  | 0-20    |
| Associated Samples : 9894202                                                                     |           |       |        |            |         |              |         | Prep Date: 2026-07-17<br>Analysis Date: 2026-07-20 |         |
| Turbidity (Water, Turbidimeter)                                                                  |           |       |        |            |         |              |         |                                                    |         |
| Method : Turbidity (Water, Turbidimeter). Internal method: OTT-I-TUR-WI46288.                    |           |       |        |            |         |              |         |                                                    |         |
| Turbidity                                                                                        | NTU       | 0.1   | <0.1   | 96         | 80-120  |              |         | 1                                                  | 0-30    |
| Associated Samples : 9894202                                                                     |           |       |        |            |         |              |         | Prep Date: 2026-07-17<br>Analysis Date: 2026-07-17 |         |

Where RPD % is reported as "-" the calculation is not available because one or both of the duplicates is within 5 times the RL.



**OFFICIAL CERTIFICATE OF ANALYSIS : 4766592**
**WORK REQUEST : 100451249**
**Report Date : 2026-07-22**
**Paterson Group**

9 Auriga Drive  
Ottawa, Ontario  
K2J 5Z9  
Attention : Zavian Buchanan

Reception Date : 2026-07-16  
Project : PH5222  
Sampler : NA  
PO Number : 66471  
Temperature : 9 °C

| Analysis                                     | Quantity | External Method                        |
|----------------------------------------------|----------|----------------------------------------|
| Alkalinity (Water, Automated)                | 1        | Modified from SM 2320 B                |
| Ammonia, Total (Water, Colorimetry)          | 1        | Modified from EPA 350.1                |
| Chloride (Water, IC)                         | 1        | Modified from SM 4110 B and C          |
| Colour, Apparent (Water, Spectrophotometry)  | 1        | Modified from SM 2120 C                |
| Colour, True (Water, Spectrophotometry)      | 1        | Modified from SM 2120 C                |
| Conductivity (Water, Automated)              | 1        | Modified from SM 2510 B                |
| DOC (Water, IR)                              | 1        | Modified from SM 5310 B                |
| Escherichia coli (DC Plate)                  | 1        | Modified from MECP E3407               |
| Fluoride (Water, Auto/ISE)                   | 1        | Modified from SM 4500-F A and 4500-F C |
| Hardness (Water, Calculation Only)           | 1        | SM 2340 B                              |
| Ion Balance (Water, Calculation)             | 1        | Modified from SM1030 E                 |
| Metals Scan (Water, ICP/MS)                  | 1        | Modified from EPA 200.8                |
| Metals Scan (Water, ICP/OES)                 | 1        | Modified from SM 3120 B                |
| Nitrate (Water, IC)                          | 1        | Modified from SM 4110 B and C          |
| Nitrite (Water, IC)                          | 1        | Modified from SM 4110 B and C          |
| pH (25°C) (Water, Automated)                 | 1        | Modified from SM 4500-H+ B             |
| Phenols (Water, Colorimetry)                 | 1        | Modified from EPA 420.2                |
| Sulphate (Water, IC)                         | 1        | Modified from SM 4110 B and C          |
| Sulphide (Water, Colorimetry)                | 1        | Modified from SM 4500-S2 D             |
| Tannin and Lignin (Water, Spec)              | 1        | Modified from SM 5550 B                |
| TDS (Estimated)                              | 1        | Modified from SM 2510 A                |
| Total Coliforms (DC Plate)                   | 1        | Modified from MECP E3407               |
| Total Kjeldahl Nitrogen (Water, Colorimetry) | 1        | Modified from EPA 351.2                |
| Turbidity (Water, Turbidimeter)              | 1        | Modified from SM 2130 B                |

**Criteria :**
**A :** Ontario Regulation 169/03 (Non-Regulated Drinking Water)

**Sample status upon receipt :**

9894172

**Compliant**
**Certificate Comments :**

9894172

**N-NO3 and N-NO2 MRLs increased due to matrix interference.**
**Notes :**

- All analysis is completed at Eurofins Environment Testing Canada Inc. (Ottawa, Ontario) unless otherwise stated.
- Eurofins Environment Testing Canada Inc. is accredited by CALA, Canadian Association for Laboratory Accreditation to ISO/IEC 17025 for tests which appear on the scope of accreditation. The scope is available at <https://directory.cala.ca/>
- Please note: Field data, where presented on the report, has been provided by the client and is presented for informational purposes only. Guideline or regulatory limits listed on this report are provided for ease of use (informational purposes) only. Eurofins recommends consulting the official guideline or regulation as required. Unless otherwise stated, measurement uncertainty is not taken into account when determining guideline or regulatory exceedances.

**Legend :**

RL : Reporting limit

N/A : Not applicable

\* : Analysis conducted by external subcontracting

QC : Reference material (QC)

1 : Results in annex

^ : Analysis not accredited

## OFFICIAL CERTIFICATE OF ANALYSIS - EXCEEDENCE SUMMARY

Client : Paterson Group

Project : PH5222

Reception Date : 2026-07-16

| Eurofins<br>Sample No              | Client Sample<br>Identification | Analyte                         | Result | Units | Exceeded Criteria |   |   |
|------------------------------------|---------------------------------|---------------------------------|--------|-------|-------------------|---|---|
|                                    |                                 |                                 |        |       | A                 | B | C |
| Hardness (Water, Calculation Only) |                                 |                                 |        |       |                   |   |   |
| 9894172                            | 21 Poplarwood                   | Hardness as CaCO3 (Calculation) | 475    | mg/L  | 80-100            |   |   |
| TDS (Estimated)                    |                                 |                                 |        |       |                   |   |   |
| 9894172                            | 21 Poplarwood                   | TDS (Estimated)^                | 806    | mg/L  | 500               |   |   |

**OFFICIAL CERTIFICATE OF ANALYSIS - RESULTS**

Client : Paterson Group  
Project : PH5222

Reception Date: 2026-07-16

|          |     |      | Eurofins Sample No : <b>9894172</b>          |   |   |      |  |  |  |
|----------|-----|------|----------------------------------------------|---|---|------|--|--|--|
|          |     |      | Matrix : Groundwater                         |   |   |      |  |  |  |
|          |     |      | Sampling Date : 2026-07-16                   |   |   |      |  |  |  |
|          |     |      | Client Sample Identification : 21 Poplarwood |   |   |      |  |  |  |
| Anions   | RL  | Unit | Criteria                                     |   |   |      |  |  |  |
|          |     |      | A                                            | B | C |      |  |  |  |
| Chloride | 0.5 | mg/L | 250                                          |   |   | 126  |  |  |  |
| Fluoride | 0.1 | mg/L | 1.5                                          |   |   | 0.16 |  |  |  |
| Sulphate | 1   | mg/L | 500                                          |   |   | 91   |  |  |  |

|                            |     |      | Eurofins Sample No : <b>9894172</b>          |  |  |  |  |  |  |
|----------------------------|-----|------|----------------------------------------------|--|--|--|--|--|--|
|                            |     |      | Matrix : Groundwater                         |  |  |  |  |  |  |
|                            |     |      | Sampling Date : 2026-07-16                   |  |  |  |  |  |  |
|                            |     |      | Client Sample Identification : 21 Poplarwood |  |  |  |  |  |  |
| Calculations               | RL  | Unit |                                              |  |  |  |  |  |  |
| Ion Balance (Calculation)^ | 0.1 |      | 1.01                                         |  |  |  |  |  |  |

|                                 |       |       | Eurofins Sample No : <b>9894172</b>          |   |   |        |  |  |  |
|---------------------------------|-------|-------|----------------------------------------------|---|---|--------|--|--|--|
|                                 |       |       | Matrix : Groundwater                         |   |   |        |  |  |  |
|                                 |       |       | Sampling Date : 2026-07-16                   |   |   |        |  |  |  |
|                                 |       |       | Client Sample Identification : 21 Poplarwood |   |   |        |  |  |  |
| General Chemistry               | RL    | Unit  | Criteria                                     |   |   |        |  |  |  |
|                                 |       |       | A                                            | B | C |        |  |  |  |
| Alkalinity (as CaCO3)           | 5     | mg/L  | 500                                          |   |   | 393    |  |  |  |
| Colour (Apparent)               | 2     | TCU   | 5                                            |   |   | 5      |  |  |  |
| Colour (True)                   | 2     | TCU   |                                              |   |   | 2      |  |  |  |
| Conductivity @ 25°C             | 5     | µS/cm |                                              |   |   | 1240   |  |  |  |
| Dissolved Organic Carbon        | 0.5   | mg/L  | 5                                            |   |   | 2.4    |  |  |  |
| Hardness as CaCO3 (Calculation) | 1     | mg/L  | 80-100                                       |   |   | 475    |  |  |  |
| pH @ 25°C                       | 1     |       | 6.5-8.5                                      |   |   | 7.41   |  |  |  |
| Phenols-4AAP                    | 0.001 | mg/L  |                                              |   |   | <0.001 |  |  |  |
| Sulphide (S2-)                  | 0.01  | mg/L  | 0.05                                         |   |   | <0.01  |  |  |  |
| Tannin and Lignin               | 0.1   | mg/L  |                                              |   |   | 0.1    |  |  |  |
| TDS (Estimated)^                | 5     | mg/L  | 500                                          |   |   | 806    |  |  |  |
| Turbidity                       | 0.1   | NTU   | 5                                            |   |   | 0.4    |  |  |  |

## OFFICIAL CERTIFICATE OF ANALYSIS - RESULTS

Client : Paterson Group  
Project : PH5222

Reception Date: 2026-07-16

|                                |        |      |       |          |                  |         |  |  |  |  |
|--------------------------------|--------|------|-------|----------|------------------|---------|--|--|--|--|
| Eurofins Sample No :           |        |      |       |          | 9894172          |         |  |  |  |  |
| Matrix :                       |        |      |       |          | Groundwater      |         |  |  |  |  |
| Sampling Date :                |        |      |       |          | 2026-07-16       |         |  |  |  |  |
| Client Sample Identification : |        |      |       |          | 21<br>Poplarwood |         |  |  |  |  |
| Metals                         |        | RL   | Unit  | Criteria |                  |         |  |  |  |  |
|                                |        |      |       | A        | B                | C       |  |  |  |  |
| Metals Scan (Water, ICP/MS)    |        |      |       |          |                  |         |  |  |  |  |
| Aluminum                       | 0.01   | mg/L | 0.1   |          |                  | <0.01   |  |  |  |  |
| Antimony                       | 0.0005 | mg/L | 0.006 |          |                  | <0.0005 |  |  |  |  |
| Arsenic                        | 0.001  | mg/L | 0.01  |          |                  | <0.001  |  |  |  |  |
| Barium                         | 0.001  | mg/L | 1     |          |                  | 0.077   |  |  |  |  |
| Beryllium                      | 0.0005 | mg/L |       |          |                  | <0.0005 |  |  |  |  |
| Boron                          | 0.01   | mg/L | 5     |          |                  | 0.15    |  |  |  |  |
| Cadmium                        | 0.0001 | mg/L | 0.005 |          |                  | <0.0001 |  |  |  |  |
| Chromium                       | 0.001  | mg/L | 0.05  |          |                  | <0.001  |  |  |  |  |
| Cobalt                         | 0.0002 | mg/L |       |          |                  | 0.0006  |  |  |  |  |
| Copper                         | 0.001  | mg/L | 1     |          |                  | 0.012   |  |  |  |  |
| Iron                           | 0.03   | mg/L | 0.3   |          |                  | 0.08    |  |  |  |  |
| Lead                           | 0.001  | mg/L | 0.01  |          |                  | <0.001  |  |  |  |  |
| Manganese                      | 0.01   | mg/L | 0.05  |          |                  | 0.02    |  |  |  |  |
| Mercury                        | 0.0001 | mg/L | 0.001 |          |                  | <0.0001 |  |  |  |  |
| Molybdenum                     | 0.005  | mg/L |       |          |                  | <0.005  |  |  |  |  |
| Nickel                         | 0.005  | mg/L |       |          |                  | <0.005  |  |  |  |  |
| Selenium                       | 0.001  | mg/L | 0.05  |          |                  | <0.001  |  |  |  |  |
| Silver                         | 0.0001 | mg/L |       |          |                  | <0.0001 |  |  |  |  |
| Strontium                      | 0.001  | mg/L |       |          |                  | 22.2    |  |  |  |  |
| Thallium                       | 0.0001 | mg/L |       |          |                  | <0.0001 |  |  |  |  |
| Uranium                        | 0.001  | mg/L | 0.02  |          |                  | <0.001  |  |  |  |  |
| Vanadium                       | 0.001  | mg/L |       |          |                  | <0.001  |  |  |  |  |
| Zinc                           | 0.01   | mg/L | 5     |          |                  | 0.03    |  |  |  |  |
| Metals Scan (Water, ICP/OES)   |        |      |       |          |                  |         |  |  |  |  |
| Calcium                        | 1      | mg/L |       |          |                  | 126     |  |  |  |  |
| Magnesium                      | 1      | mg/L |       |          |                  | 39      |  |  |  |  |
| Potassium                      | 1      | mg/L |       |          |                  | 4       |  |  |  |  |
| Sodium                         | 1      | mg/L | 200   |          |                  | 87      |  |  |  |  |

|                       |    |           | Eurofins Sample No : <b>9894172</b>          |   |   |   |  |  |  |
|-----------------------|----|-----------|----------------------------------------------|---|---|---|--|--|--|
|                       |    |           | Matrix : Groundwater                         |   |   |   |  |  |  |
|                       |    |           | Sampling Date : 2026-07-16                   |   |   |   |  |  |  |
|                       |    |           | Client Sample Identification : 21 Poplarwood |   |   |   |  |  |  |
| Microbiology          | RL | Unit      | Criteria                                     |   |   |   |  |  |  |
|                       |    |           | A                                            | B | C |   |  |  |  |
| Escherichia coli (DC) | 0  | CFU/100mL | 0                                            |   |   | 0 |  |  |  |
| Total Coliforms (DC)  | 0  | CFU/100mL | 0                                            |   |   | 0 |  |  |  |

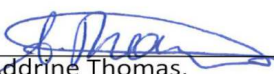
## OFFICIAL CERTIFICATE OF ANALYSIS - RESULTS

Client : Paterson Group  
Project : PH5222

Reception Date: 2026-07-16

|                              |      |      | Eurofins Sample No : <b>9894172</b> |   |   |        |  |  |  |
|------------------------------|------|------|-------------------------------------|---|---|--------|--|--|--|
|                              |      |      | Matrix : Groundwater                |   |   |        |  |  |  |
|                              |      |      | Sampling Date : 2026-07-16          |   |   |        |  |  |  |
|                              |      |      | Client Sample Identification : 21   |   |   |        |  |  |  |
|                              |      |      | Poplarwood                          |   |   |        |  |  |  |
| Nutrients                    | RL   | Unit | Criteria                            |   |   |        |  |  |  |
|                              |      |      | A                                   | B | C |        |  |  |  |
| Ammonia (Total, as Nitrogen) | 0.02 | mg/L |                                     |   |   | <0.020 |  |  |  |
| Nitrate (as Nitrogen)        | 0.1  | mg/L | 10.0                                |   |   | <0.5   |  |  |  |
| Nitrite (as Nitrogen)        | 0.1  | mg/L | 1.0                                 |   |   | <0.5   |  |  |  |
| Total Kjeldahl Nitrogen      | 0.1  | mg/L |                                     |   |   | 0.245  |  |  |  |

Approved by :

  
Addrine Thomas,  
Chemistry Manager, Ottawa

Approved by :

  
Emma-Dawn Ferguson, M.Sc.  
Environmental Chemist

## OFFICIAL CERTIFICATE OF ANALYSIS - QUALITY CONTROL

Client : Paterson Group

Project : PH5222

Reception Date: 2026-07-16

| Parameter                                                                                        | Unit      | RL   | Blank  | QC         |         | Matrix Spike |         | Duplicate                                          |         |
|--------------------------------------------------------------------------------------------------|-----------|------|--------|------------|---------|--------------|---------|----------------------------------------------------|---------|
|                                                                                                  |           |      |        | Recovery % | Range % | Recovery %   | Range % | RPD %                                              | Range % |
| Alkalinity (Water, Automated)                                                                    |           |      |        |            |         |              |         |                                                    |         |
| Method : Alkalinity (water, titration to pH 4.5, automated). Internal method: OTT-I-AT-WI45398.  |           |      |        |            |         |              |         |                                                    |         |
| Alkalinity (as CaCO3)                                                                            | mg/L      | 5    | <5     | 101        | 95-105  |              |         | 1                                                  | 0-20    |
| Associated Samples : 9894172                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-20<br>Analysis Date: 2026-07-21 |         |
| Ammonia, Total (Water, Colorimetry)                                                              |           |      |        |            |         |              |         |                                                    |         |
| Method : Ammonia (Water, Colorimetry). Internal method: OTT-I-NUT-WI46201.                       |           |      |        |            |         |              |         |                                                    |         |
| Ammonia (Total, as Nitrogen)                                                                     | mg/L      | 0.02 | <0.020 | 100        | 80-120  | 102          | 80-120  | -                                                  | 0-20    |
| Associated Samples : 9894172                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-17<br>Analysis Date: 2026-07-17 |         |
| Chloride (Water, IC)                                                                             |           |      |        |            |         |              |         |                                                    |         |
| Method : Anions (Water, Ion Chromatography). Internal method: OTT-I-IC-WI45985.                  |           |      |        |            |         |              |         |                                                    |         |
| Chloride                                                                                         | mg/L      | 0.5  | <0.5   | 92         | 80-120  | 103          | 80-120  | 1                                                  | 0-20    |
| Associated Samples : 9894172                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-20<br>Analysis Date: 2026-07-21 |         |
| Colour, Apparent (Water, Spectrophotometry)                                                      |           |      |        |            |         |              |         |                                                    |         |
| Method : Colour (Water, Spectrophotometric). Internal method: OTT-I-SPEC-WI45980.                |           |      |        |            |         |              |         |                                                    |         |
| Colour (Apparent)                                                                                | TCU       | 2    | <2     | 102        | 78-116  |              |         | -                                                  | 0-40    |
| Associated Samples : 9894172                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-22<br>Analysis Date: 2026-07-22 |         |
| Colour, True (Water, Spectrophotometry)                                                          |           |      |        |            |         |              |         |                                                    |         |
| Method : Colour (Water, Spectrophotometric). Internal method: OTT-I-SPEC-WI45980.                |           |      |        |            |         |              |         |                                                    |         |
| Colour (True)                                                                                    | TCU       | 2    | <2     | 102        | 78-116  |              |         | -                                                  | 0-40    |
| Associated Samples : 9894172                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-22<br>Analysis Date: 2026-07-22 |         |
| Conductivity (Water, Automated)                                                                  |           |      |        |            |         |              |         |                                                    |         |
| Method : Conductivity (Water, Autotitrator). Internal Method: OTT-I-AT-WI45398.                  |           |      |        |            |         |              |         |                                                    |         |
| Conductivity @ 25°C                                                                              | uS/cm     | 5    | <5     | 102        | 98-102  |              |         | 0                                                  | 0-20    |
| Associated Samples : 9894172                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-20<br>Analysis Date: 2026-07-21 |         |
| DOC (Water, IR)                                                                                  |           |      |        |            |         |              |         |                                                    |         |
| Method : Organic carbon (water, IR, combustion). Internal method: OTT-I-DEM-WI46148.             |           |      |        |            |         |              |         |                                                    |         |
| Dissolved Organic Carbon                                                                         | mg/L      | 0.5  | <0.5   | 98         | 88-112  | 101          | 85-115  | 1                                                  | 0-15    |
| Associated Samples : 9894172                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-20<br>Analysis Date: 2026-07-22 |         |
| Escherichia coli (DC Plate)                                                                      |           |      |        |            |         |              |         |                                                    |         |
| Method : Total Coliforms and E.Coli by MF (Water, DC plate). Internal method: OTT-M-BAC-WI45296. |           |      |        |            |         |              |         |                                                    |         |
| Escherichia coli (DC)                                                                            | CFU/100mL | 0    | 0      |            |         |              |         | -                                                  | 0-30    |
| Associated Samples : 9894172                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-16<br>Analysis Date: 2026-07-17 |         |
| Fluoride (Water, Auto/ISE)                                                                       |           |      |        |            |         |              |         |                                                    |         |
| Method : Fluoride by autotitrator, ion selective electrode. Internal method: OTT-I-AT-WI45398.   |           |      |        |            |         |              |         |                                                    |         |
| Fluoride                                                                                         | mg/L      | 0.1  | <0.10  | 99         | 90-110  |              |         | -                                                  | 0-20    |
| Associated Samples : 9894172                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-20<br>Analysis Date: 2026-07-21 |         |

## OFFICIAL CERTIFICATE OF ANALYSIS - QUALITY CONTROL

Client : Paterson Group

Project : PH5222

Reception Date: 2026-07-16

| Parameter                                                                       | Unit | RL     | Blank   | QC         |         | Matrix Spike |         | Duplicate                                          |         |
|---------------------------------------------------------------------------------|------|--------|---------|------------|---------|--------------|---------|----------------------------------------------------|---------|
|                                                                                 |      |        |         | Recovery % | Range % | Recovery %   | Range % | RPD %                                              | Range % |
| Metals Scan (Water, ICP/MS)                                                     |      |        |         |            |         |              |         |                                                    |         |
| Method : Metals (Water, ICP/MS). Internal method: AMMTFQE1.                     |      |        |         |            |         |              |         |                                                    |         |
| Aluminum                                                                        | mg/L | 0.01   | <0.01   | 100        | 80-120  | 96           | 70-130  | -                                                  | 0-20    |
| Antimony                                                                        | mg/L | 0.0005 | <0.0005 | 81         | 80-120  | 78           | 70-130  | -                                                  | 0-20    |
| Arsenic                                                                         | mg/L | 0.001  | <0.001  | 100        | 80-120  | 96           | 70-130  | -                                                  | 0-20    |
| Barium                                                                          | mg/L | 0.001  | <0.001  | 100        | 80-120  | 91           | 70-130  | -                                                  | 0-20    |
| Beryllium                                                                       | mg/L | 0.0005 | <0.0005 | 104        | 80-120  | 99           | 70-130  | -                                                  | 0-20    |
| Boron                                                                           | mg/L | 0.01   | <0.01   | 100        | 80-120  | 90           | 70-130  | -                                                  | 0-20    |
| Cadmium                                                                         | mg/L | 0.0001 | <0.0001 | 102        | 80-120  | 96           | 70-130  | -                                                  | 0-20    |
| Chromium                                                                        | mg/L | 0.001  | <0.001  | 110        | 80-120  | 99           | 70-130  | -                                                  | 0-20    |
| Cobalt                                                                          | mg/L | 0.0002 | <0.0002 | 106        | 80-120  | 98           | 70-130  | -                                                  | 0-20    |
| Copper                                                                          | mg/L | 0.001  | <0.001  | 110        | 80-120  | 101          | 70-130  | -                                                  | 0-20    |
| Iron                                                                            | mg/L | 0.03   | <0.03   | 100        | 80-120  | 94           | 70-130  | -                                                  | 0-20    |
| Lead                                                                            | mg/L | 0.001  | <0.001  | 100        | 80-120  | 96           | 70-130  | -                                                  | 0-20    |
| Manganese                                                                       | mg/L | 0.01   | <0.01   | 100        | 80-120  | 94           | 70-130  | -                                                  | 0-20    |
| Mercury                                                                         | mg/L | 0.0001 | <0.0001 | 95         | 80-120  | 100          | 70-130  | -                                                  | 0-20    |
| Molybdenum                                                                      | mg/L | 0.005  | <0.005  | 100        | 80-120  | 89           | 70-130  | -                                                  | 0-20    |
| Nickel                                                                          | mg/L | 0.005  | <0.005  | 110        | 80-120  | 100          | 70-130  | -                                                  | 0-20    |
| Selenium                                                                        | mg/L | 0.001  | <0.001  | 101        | 80-120  | 99           | 70-130  | -                                                  | 0-20    |
| Silver                                                                          | mg/L | 0.0001 | <0.0001 | 115        | 80-120  | 83           | 70-130  | -                                                  | 0-20    |
| Strontium                                                                       | mg/L | 0.001  | <0.001  | 100        | 80-120  | 91           | 70-130  | -                                                  | 0-20    |
| Thallium                                                                        | mg/L | 0.0001 | <0.0001 | 105        | 80-120  | 97           | 70-130  | -                                                  | 0-20    |
| Uranium                                                                         | mg/L | 0.001  | <0.001  | 100        | 80-120  | 94           | 70-130  | -                                                  | 0-20    |
| Vanadium                                                                        | mg/L | 0.001  | <0.001  | 100        | 80-120  | 96           | 70-130  | -                                                  | 0-20    |
| Zinc                                                                            | mg/L | 0.01   | <0.01   | 110        | 80-120  | 100          | 70-130  | -                                                  | 0-20    |
| Associated Samples : 9894172                                                    |      |        |         |            |         |              |         | Prep Date: 2026-07-17<br>Analysis Date: 2026-07-17 |         |
| Metals Scan (Water, ICP/OES)                                                    |      |        |         |            |         |              |         |                                                    |         |
| Method : Metals (Water, ICP/OES). Internal method: OTT-I-MET-WI48491.           |      |        |         |            |         |              |         |                                                    |         |
| Calcium                                                                         | mg/L | 1      | <1      | 101        | 86-115  | 100          | 70-130  | 0                                                  | 0-20    |
| Magnesium                                                                       | mg/L | 1      | <1      | 100        | 91-109  | 98           | 70-130  | 0                                                  | 0-20    |
| Potassium                                                                       | mg/L | 1      | <1      | 103        | 87-113  | 98           | 70-130  | -                                                  | 0-20    |
| Sodium                                                                          | mg/L | 1      | <1      | 102        | 85-115  | 104          | 70-130  | -                                                  | 0-20    |
| Associated Samples : 9894172                                                    |      |        |         |            |         |              |         | Prep Date: 2026-07-21<br>Analysis Date: 2026-07-16 |         |
| Nitrate (Water, IC)                                                             |      |        |         |            |         |              |         |                                                    |         |
| Method : Anions (Water, Ion Chromatography). Internal method: OTT-I-IC-WI45985. |      |        |         |            |         |              |         |                                                    |         |
| Nitrate (as Nitrogen)                                                           | mg/L | 0.1    | <0.1    | 97         | 80-120  | 95           | 80-120  | -                                                  | 0-20    |
| Associated Samples : 9894172                                                    |      |        |         |            |         |              |         | Prep Date: 2026-07-20<br>Analysis Date: 2026-07-21 |         |
| Nitrite (Water, IC)                                                             |      |        |         |            |         |              |         |                                                    |         |
| Method : Anions (Water, Ion Chromatography). Internal method: OTT-I-IC-WI45985. |      |        |         |            |         |              |         |                                                    |         |
| Nitrite (as Nitrogen)                                                           | mg/L | 0.1    | <0.1    | 93         | 80-120  | 99           | 80-120  | -                                                  | 0-20    |
| Associated Samples : 9894172                                                    |      |        |         |            |         |              |         | Prep Date: 2026-07-20<br>Analysis Date: 2026-07-21 |         |
| pH (25°C) (Water, Automated)                                                    |      |        |         |            |         |              |         |                                                    |         |
| Method : pH (Water, Automated Meter). Internal method: OTT-I-AT-WI45398.        |      |        |         |            |         |              |         |                                                    |         |
| pH @ 25°C                                                                       |      | 1      | 7.39    | 100        | 97-103  |              |         | 0                                                  | 0-20    |
| Associated Samples : 9894172                                                    |      |        |         |            |         |              |         | Prep Date: 2026-07-20<br>Analysis Date: 2026-07-21 |         |

## OFFICIAL CERTIFICATE OF ANALYSIS - QUALITY CONTROL

Client : Paterson Group

Project : PH5222

Reception Date: 2026-07-16

| Parameter                                                                                        | Unit      | RL    | Blank  | QC         |         | Matrix Spike |         | Duplicate                                          |         |
|--------------------------------------------------------------------------------------------------|-----------|-------|--------|------------|---------|--------------|---------|----------------------------------------------------|---------|
|                                                                                                  |           |       |        | Recovery % | Range % | Recovery %   | Range % | RPD %                                              | Range % |
| Phenols (Water, Colorimetry)                                                                     |           |       |        |            |         |              |         |                                                    |         |
| Method : Phenols (Water, Colorimetry). Internal method: OTT-I-4AAP-WI46150.                      |           |       |        |            |         |              |         |                                                    |         |
| Phenols-4AAP                                                                                     | mg/L      | 0.001 | <0.001 | 104        | 80-120  | 88           | 70-130  | -                                                  | 0-20    |
| Associated Samples : 9894172                                                                     |           |       |        |            |         |              |         | Prep Date: 2026-07-17<br>Analysis Date: 2026-07-17 |         |
| Sulphate (Water, IC)                                                                             |           |       |        |            |         |              |         |                                                    |         |
| Method : Anions (Water, Ion Chromatography). Internal method: OTT-I-IC-WI45985.                  |           |       |        |            |         |              |         |                                                    |         |
| Sulphate                                                                                         | mg/L      | 1     | <1     | 90         | 90-110  | 95           | 80-120  | 3                                                  | 0-20    |
| Associated Samples : 9894172                                                                     |           |       |        |            |         |              |         | Prep Date: 2026-07-20<br>Analysis Date: 2026-07-21 |         |
| Sulphide (Water, Colorimetry)                                                                    |           |       |        |            |         |              |         |                                                    |         |
| Method : Sulphide, S2- (Water, Colorimetry). Internal method: OTT-I-SPEC-WI45931.                |           |       |        |            |         |              |         |                                                    |         |
| Sulphide (S2-)                                                                                   | mg/L      | 0.01  | <0.01  | 66         | 48-131  |              |         | -                                                  | 0-20    |
| Associated Samples : 9894172                                                                     |           |       |        |            |         |              |         | Prep Date: 2026-07-21<br>Analysis Date: 2026-07-21 |         |
| Tannin and Lignin (Water, Spec)                                                                  |           |       |        |            |         |              |         |                                                    |         |
| Method : Tannin and Lignin (Water, Spec), Internal method: OTT-I-SPEC-WI57693.                   |           |       |        |            |         |              |         |                                                    |         |
| Tannin and Lignin                                                                                | mg/L      | 0.1   | <0.1   | 96         | 80-120  |              |         | -                                                  | 0-20    |
| Associated Samples : 9894172                                                                     |           |       |        |            |         |              |         | Prep Date: 2026-07-22<br>Analysis Date: 2026-07-22 |         |
| Total Coliforms (DC Plate)                                                                       |           |       |        |            |         |              |         |                                                    |         |
| Method : Total Coliforms and E.Coli by MF (Water, DC plate). Internal method: OTT-M-BAC-WI45296. |           |       |        |            |         |              |         |                                                    |         |
| Total Coliforms (DC)                                                                             | CFU/100mL | 0     | 0      |            |         |              |         | -                                                  | 0-30    |
| Associated Samples : 9894172                                                                     |           |       |        |            |         |              |         | Prep Date: 2026-07-16<br>Analysis Date: 2026-07-17 |         |
| Total Kjeldahl Nitrogen (Water, Colorimetry)                                                     |           |       |        |            |         |              |         |                                                    |         |
| Method : TKN (Water, colorimetry). Internal method: OTT-I-NUT-WI46201.                           |           |       |        |            |         |              |         |                                                    |         |
| Total Kjeldahl Nitrogen                                                                          | mg/L      | 0.1   | <0.100 | 103        | 70-130  | 98           | 70-130  | -                                                  | 0-20    |
| Associated Samples : 9894172                                                                     |           |       |        |            |         |              |         | Prep Date: 2026-07-17<br>Analysis Date: 2026-07-20 |         |
| Turbidity (Water, Turbidimeter)                                                                  |           |       |        |            |         |              |         |                                                    |         |
| Method : Turbidity (Water, Turbidimeter). Internal method: OTT-I-TUR-WI46288.                    |           |       |        |            |         |              |         |                                                    |         |
| Turbidity                                                                                        | NTU       | 0.1   | <0.1   | 96         | 80-120  |              |         | 1                                                  | 0-30    |
| Associated Samples : 9894172                                                                     |           |       |        |            |         |              |         | Prep Date: 2026-07-17<br>Analysis Date: 2026-07-17 |         |

Where RPD % is reported as "-" the calculation is not available because one or both of the duplicates is within 5 times the RL.



**OFFICIAL CERTIFICATE OF ANALYSIS : 4758979**
**WORK REQUEST : 100449579**
**Report Date : 2026-07-16**
**Paterson Group**

9 Auriga Drive  
Ottawa, Ontario  
K2J 5Z9  
Attention : Zavian Buchanan

Reception Date : 2026-07-10  
Project : PH5222  
Sampler : NA  
PO Number : 66403  
Temperature : 10 °C

| Analysis                                     | Quantity | External Method                        |
|----------------------------------------------|----------|----------------------------------------|
| Alkalinity (Water, Automated)                | 1        | Modified from SM 2320 B                |
| Ammonia, Total (Water, Colorimetry)          | 1        | Modified from EPA 350.1                |
| Chloride (Water, IC)                         | 1        | Modified from SM 4110 B and C          |
| Colour, Apparent (Water, Spectrophotometry)  | 1        | Modified from SM 2120 C                |
| Colour, True (Water, Spectrophotometry)      | 1        | Modified from SM 2120 C                |
| Conductivity (Water, Automated)              | 1        | Modified from SM 2510 B                |
| DOC (Water, IR)                              | 1        | Modified from SM 5310 B                |
| Escherichia coli (DC Plate)                  | 1        | Modified from MECP E3407               |
| Fluoride (Water, Auto/ISE)                   | 1        | Modified from SM 4500-F A and 4500-F C |
| Hardness (Water, Calculation Only)           | 1        | SM 2340 B                              |
| Ion Balance (Water, Calculation)             | 1        | Modified from SM1030 E                 |
| Metals Scan (Water, ICP/MS)                  | 1        | Modified from EPA 200.8                |
| Metals Scan (Water, ICP/OES)                 | 1        | Modified from SM 3120 B                |
| Nitrate (Water, IC)                          | 1        | Modified from SM 4110 B and C          |
| Nitrite (Water, IC)                          | 1        | Modified from SM 4110 B and C          |
| pH (25°C) (Water, Automated)                 | 1        | Modified from SM 4500-H+ B             |
| Phenols (Water, Colorimetry)                 | 1        | Modified from EPA 420.2                |
| Sulphate (Water, IC)                         | 1        | Modified from SM 4110 B and C          |
| Sulphide (Water, Colorimetry)                | 1        | Modified from SM 4500-S2 D             |
| Tannin and Lignin (Water, Spec)              | 1        | Modified from SM 5550 B                |
| TDS (Estimated)                              | 1        | Modified from SM 2510 A                |
| Total Coliforms (DC Plate)                   | 1        | Modified from MECP E3407               |
| Total Kjeldahl Nitrogen (Water, Colorimetry) | 1        | Modified from EPA 351.2                |
| Turbidity (Water, Turbidimeter)              | 1        | Modified from SM 2130 B                |

**Criteria :**
**A :** Ontario Regulation 169/03 (Non-Regulated Drinking Water)

**Sample status upon receipt :**

9869345

**Compliant**
**Certificate Comments :**

9869345

**N-NO2 and N-NO3 MRLs increased due to matrix interference.**
**Notes :**

- All analysis is completed at Eurofins Environment Testing Canada Inc. (Ottawa, Ontario) unless otherwise stated.
- Eurofins Environment Testing Canada Inc. is accredited by CALA, Canadian Association for Laboratory Accreditation to ISO/IEC 17025 for tests which appear on the scope of accreditation. The scope is available at <https://directory.cala.ca/>
- Please note: Field data, where presented on the report, has been provided by the client and is presented for informational purposes only. Guideline or regulatory limits listed on this report are provided for ease of use (informational purposes) only. Eurofins recommends consulting the official guideline or regulation as required. Unless otherwise stated, measurement uncertainty is not taken into account when determining guideline or regulatory exceedances.

**Legend :**

RL : Reporting limit

N/A : Not applicable

\* : Analysis conducted by external subcontracting

QC : Reference material (QC)

1 : Results in annex

^ : Analysis not accredited

**OFFICIAL CERTIFICATE OF ANALYSIS - EXCEEDENCE SUMMARY**

Client : Paterson Group

Project : PH5222

Reception Date : 2026-07-10

| Eurofins<br>Sample No                       | Client Sample<br>Identification | Analyte                         | Result | Units | Exceeded Criteria |   |   |
|---------------------------------------------|---------------------------------|---------------------------------|--------|-------|-------------------|---|---|
|                                             |                                 |                                 |        |       | A                 | B | C |
| Colour, Apparent (Water, Spectrophotometry) |                                 |                                 |        |       |                   |   |   |
| 9869345                                     | 6015 Flewellyn                  | Colour (Apparent)               | 15     | TCU   | 5                 |   |   |
| Hardness (Water, Calculation Only)          |                                 |                                 |        |       |                   |   |   |
| 9869345                                     | 6015 Flewellyn                  | Hardness as CaCO3 (Calculation) | 378    | mg/L  | 80-100            |   |   |
| Metals Scan (Water, ICP/MS)                 |                                 |                                 |        |       |                   |   |   |
| 9869345                                     | 6015 Flewellyn                  | Iron                            | 0.52   | mg/L  | 0.3               |   |   |
| 9869345                                     | 6015 Flewellyn                  | Manganese                       | 0.18   | mg/L  | 0.05              |   |   |
| TDS (Estimated)                             |                                 |                                 |        |       |                   |   |   |
| 9869345                                     | 6015 Flewellyn                  | TDS (Estimated)^                | 527    | mg/L  | 500               |   |   |

## OFFICIAL CERTIFICATE OF ANALYSIS - RESULTS

Client : Paterson Group  
Project : PH5222

Reception Date: 2026-07-10

|          |     |      | Eurofins Sample No : <b>9869345</b>           |   |   |      |  |  |  |
|----------|-----|------|-----------------------------------------------|---|---|------|--|--|--|
|          |     |      | Matrix : Groundwater                          |   |   |      |  |  |  |
|          |     |      | Sampling Date : 2026-07-09                    |   |   |      |  |  |  |
|          |     |      | Client Sample Identification : 6015 Flewellyn |   |   |      |  |  |  |
| Anions   | RL  | Unit | Criteria                                      |   |   |      |  |  |  |
|          |     |      | A                                             | B | C |      |  |  |  |
| Chloride | 0.5 | mg/L | 250                                           |   |   | 54.1 |  |  |  |
| Sulphate | 1   | mg/L | 500                                           |   |   | 41   |  |  |  |

|                            |     |      | Eurofins Sample No : <b>9869345</b>           |  |  |  |  |  |  |
|----------------------------|-----|------|-----------------------------------------------|--|--|--|--|--|--|
|                            |     |      | Matrix : Groundwater                          |  |  |  |  |  |  |
|                            |     |      | Sampling Date : 2026-07-09                    |  |  |  |  |  |  |
|                            |     |      | Client Sample Identification : 6015 Flewellyn |  |  |  |  |  |  |
| Calculations               | RL  | Unit |                                               |  |  |  |  |  |  |
| Ion Balance (Calculation)^ | 0.1 |      | 1.00                                          |  |  |  |  |  |  |

|                                 |       |       | Eurofins Sample No : <b>9869345</b>           |   |   |        |  |  |  |
|---------------------------------|-------|-------|-----------------------------------------------|---|---|--------|--|--|--|
|                                 |       |       | Matrix : Groundwater                          |   |   |        |  |  |  |
|                                 |       |       | Sampling Date : 2026-07-09                    |   |   |        |  |  |  |
|                                 |       |       | Client Sample Identification : 6015 Flewellyn |   |   |        |  |  |  |
| General Chemistry               | RL    | Unit  | Criteria                                      |   |   |        |  |  |  |
|                                 |       |       | A                                             | B | C |        |  |  |  |
| Alkalinity (as CaCO3)           | 5     | mg/L  | 500                                           |   |   | 342    |  |  |  |
| Colour (Apparent)               | 2     | TCU   | 5                                             |   |   | 15     |  |  |  |
| Colour (True)                   | 2     | TCU   |                                               |   |   | <2     |  |  |  |
| Conductivity @ 25°C             | 5     | µS/cm |                                               |   |   | 810    |  |  |  |
| Dissolved Organic Carbon        | 0.5   | mg/L  | 5                                             |   |   | 4.1    |  |  |  |
| Fluoride                        | 0.1   | mg/L  | 1.5                                           |   |   | 0.13   |  |  |  |
| Hardness as CaCO3 (Calculation) | 1     | mg/L  | 80-100                                        |   |   | 378    |  |  |  |
| pH @ 25°C                       | 1     |       | 6.5-8.5                                       |   |   | 7.35   |  |  |  |
| Phenols-4AAP                    | 0.001 | mg/L  |                                               |   |   | <0.001 |  |  |  |
| Sulphide (S2-)                  | 0.01  | mg/L  | 0.05                                          |   |   | 0.04   |  |  |  |
| Tannin and Lignin               | 0.1   | mg/L  |                                               |   |   | <0.1   |  |  |  |
| TDS (Estimated)^                | 5     | mg/L  | 500                                           |   |   | 527    |  |  |  |
| Turbidity                       | 0.1   | NTU   | 5                                             |   |   | 1.1    |  |  |  |

## OFFICIAL CERTIFICATE OF ANALYSIS - RESULTS

Client : Paterson Group  
Project : PH5222

Reception Date: 2026-07-10

|                                |        |      |          |   |   |                   |  |  |  |  |
|--------------------------------|--------|------|----------|---|---|-------------------|--|--|--|--|
| Eurofins Sample No :           |        |      |          |   |   | 9869345           |  |  |  |  |
| Matrix :                       |        |      |          |   |   | Groundwater       |  |  |  |  |
| Sampling Date :                |        |      |          |   |   | 2026-07-09        |  |  |  |  |
| Client Sample Identification : |        |      |          |   |   | 6015<br>Flewellyn |  |  |  |  |
| Metals                         | RL     | Unit | Criteria |   |   |                   |  |  |  |  |
|                                |        |      | A        | B | C |                   |  |  |  |  |
| Metals Scan (Water, ICP/MS)    |        |      |          |   |   |                   |  |  |  |  |
| Aluminum                       | 0.01   | mg/L | 0.1      |   |   | <0.01             |  |  |  |  |
| Antimony                       | 0.0005 | mg/L | 0.006    |   |   | <0.0005           |  |  |  |  |
| Arsenic                        | 0.001  | mg/L | 0.01     |   |   | <0.001            |  |  |  |  |
| Barium                         | 0.001  | mg/L | 1        |   |   | 0.215             |  |  |  |  |
| Beryllium                      | 0.0005 | mg/L |          |   |   | <0.0005           |  |  |  |  |
| Boron                          | 0.01   | mg/L | 5        |   |   | 0.06              |  |  |  |  |
| Cadmium                        | 0.0001 | mg/L | 0.005    |   |   | <0.0001           |  |  |  |  |
| Chromium                       | 0.001  | mg/L | 0.05     |   |   | <0.001            |  |  |  |  |
| Cobalt                         | 0.0002 | mg/L |          |   |   | 0.0029            |  |  |  |  |
| Copper                         | 0.001  | mg/L | 1        |   |   | <0.001            |  |  |  |  |
| Iron                           | 0.03   | mg/L | 0.3      |   |   | 0.52              |  |  |  |  |
| Lead                           | 0.001  | mg/L | 0.01     |   |   | <0.001            |  |  |  |  |
| Manganese                      | 0.01   | mg/L | 0.05     |   |   | 0.18              |  |  |  |  |
| Mercury                        | 0.0001 | mg/L | 0.001    |   |   | <0.0001           |  |  |  |  |
| Molybdenum                     | 0.005  | mg/L |          |   |   | <0.005            |  |  |  |  |
| Nickel                         | 0.005  | mg/L |          |   |   | <0.005            |  |  |  |  |
| Selenium                       | 0.001  | mg/L | 0.05     |   |   | <0.001            |  |  |  |  |
| Silver                         | 0.0001 | mg/L |          |   |   | <0.0001           |  |  |  |  |
| Strontium                      | 0.001  | mg/L |          |   |   | 3.25              |  |  |  |  |
| Thallium                       | 0.0001 | mg/L |          |   |   | <0.0001           |  |  |  |  |
| Uranium                        | 0.001  | mg/L | 0.02     |   |   | <0.001            |  |  |  |  |
| Vanadium                       | 0.001  | mg/L |          |   |   | <0.001            |  |  |  |  |
| Zinc                           | 0.01   | mg/L | 5        |   |   | 0.03              |  |  |  |  |
| Metals Scan (Water, ICP/OES)   |        |      |          |   |   |                   |  |  |  |  |
| Calcium                        | 1      | mg/L |          |   |   | 112               |  |  |  |  |
| Magnesium                      | 1      | mg/L |          |   |   | 24                |  |  |  |  |
| Potassium                      | 1      | mg/L |          |   |   | 1                 |  |  |  |  |
| Sodium                         | 1      | mg/L | 200      |   |   | 38                |  |  |  |  |

|                                |    |           |          |   |   |                   |  |  |  |  |
|--------------------------------|----|-----------|----------|---|---|-------------------|--|--|--|--|
| Eurofins Sample No :           |    |           |          |   |   | 9869345           |  |  |  |  |
| Matrix :                       |    |           |          |   |   | Groundwater       |  |  |  |  |
| Sampling Date :                |    |           |          |   |   | 2026-07-09        |  |  |  |  |
| Client Sample Identification : |    |           |          |   |   | 6015<br>Flewellyn |  |  |  |  |
| Microbiology                   | RL | Unit      | Criteria |   |   |                   |  |  |  |  |
|                                |    |           | A        | B | C |                   |  |  |  |  |
| Escherichia coli (DC)          | 0  | CFU/100mL | 0        |   |   | 0                 |  |  |  |  |
| Total Coliforms (DC)           | 0  | CFU/100mL | 0        |   |   | 0                 |  |  |  |  |

## OFFICIAL CERTIFICATE OF ANALYSIS - RESULTS

Client : Paterson Group  
Project : PH5222

Reception Date: 2026-07-10

|                              |      |      | Eurofins Sample No : <b>9869345</b>              |   |   |       |  |  |  |
|------------------------------|------|------|--------------------------------------------------|---|---|-------|--|--|--|
|                              |      |      | Matrix : Groundwater                             |   |   |       |  |  |  |
|                              |      |      | Sampling Date : 2026-07-09                       |   |   |       |  |  |  |
|                              |      |      | Client Sample Identification : 6015<br>Flewellyn |   |   |       |  |  |  |
| Nutrients                    | RL   | Unit | Criteria                                         |   |   |       |  |  |  |
|                              |      |      | A                                                | B | C |       |  |  |  |
| Ammonia (Total, as Nitrogen) | 0.02 | mg/L |                                                  |   |   | 0.026 |  |  |  |
| Nitrate (as Nitrogen)        | 0.1  | mg/L | 10.0                                             |   |   | <0.5  |  |  |  |
| Nitrite (as Nitrogen)        | 0.1  | mg/L | 1.0                                              |   |   | <0.5  |  |  |  |
| Total Kjeldahl Nitrogen      | 0.1  | mg/L |                                                  |   |   | 0.478 |  |  |  |

Approved by :

  
Addrine Thomas,  
Chemistry Manager, Ottawa

Approved by :

  
Emma-Dawn Ferguson, M.Sc.  
Environmental Chemist

## OFFICIAL CERTIFICATE OF ANALYSIS - QUALITY CONTROL

Client : Paterson Group

Project : PH5222

Reception Date: 2026-07-10

| Parameter                                                                                        | Unit      | RL   | Blank  | QC         |         | Matrix Spike |         | Duplicate                                          |         |
|--------------------------------------------------------------------------------------------------|-----------|------|--------|------------|---------|--------------|---------|----------------------------------------------------|---------|
|                                                                                                  |           |      |        | Recovery % | Range % | Recovery %   | Range % | RPD %                                              | Range % |
| Ammonia, Total (Water, Colorimetry)                                                              |           |      |        |            |         |              |         |                                                    |         |
| Method : Ammonia (Water, Colorimetry). Internal method: OTT-I-NUT-WI46201.                       |           |      |        |            |         |              |         |                                                    |         |
| Ammonia (Total, as Nitrogen)                                                                     | mg/L      | 0.02 | <0.020 | 97         | 80-120  | 103          | 80-120  | -                                                  | 0-20    |
| Associated Samples : 9869345                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-14<br>Analysis Date: 2026-07-14 |         |
| Chloride (Water, IC)                                                                             |           |      |        |            |         |              |         |                                                    |         |
| Method : Anions (Water, Ion Chromatography). Internal method: OTT-I-IC-WI45985.                  |           |      |        |            |         |              |         |                                                    |         |
| Chloride                                                                                         | mg/L      | 0.5  | <0.5   | 104        | 80-120  | 108          | 80-120  | 1                                                  | 0-20    |
| Associated Samples : 9869345                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-14<br>Analysis Date: 2026-07-16 |         |
| Colour, Apparent (Water, Spectrophotometry)                                                      |           |      |        |            |         |              |         |                                                    |         |
| Method : Colour (Water, Spectrophotometric). Internal method: OTT-I-SPEC-WI45980.                |           |      |        |            |         |              |         |                                                    |         |
| Colour (Apparent)                                                                                | TCU       | 2    | <2     | 102        | 78-116  |              |         | 4                                                  | 0-40    |
| Associated Samples : 9869345                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-14<br>Analysis Date: 2026-07-15 |         |
| Colour, True (Water, Spectrophotometry)                                                          |           |      |        |            |         |              |         |                                                    |         |
| Method : Colour (Water, Spectrophotometric). Internal method: OTT-I-SPEC-WI45980.                |           |      |        |            |         |              |         |                                                    |         |
| Colour (True)                                                                                    | TCU       | 2    | <2     | 102        | 78-116  |              |         | -                                                  | 0-40    |
| Associated Samples : 9869345                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-14<br>Analysis Date: 2026-07-15 |         |
| DOC (Water, IR)                                                                                  |           |      |        |            |         |              |         |                                                    |         |
| Method : Organic carbon (water, IR, combustion). Internal method: OTT-I-DEM-WI46148.             |           |      |        |            |         |              |         |                                                    |         |
| Dissolved Organic Carbon                                                                         | mg/L      | 0.5  | <0.5   | 98         | 88-112  | 96           | 85-115  | -                                                  | 0-15    |
| Associated Samples : 9869345                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-13<br>Analysis Date: 2026-07-14 |         |
| Escherichia coli (DC Plate)                                                                      |           |      |        |            |         |              |         |                                                    |         |
| Method : Total Coliforms and E.Coli by MF (Water, DC plate). Internal method: OTT-M-BAC-WI45296. |           |      |        |            |         |              |         |                                                    |         |
| Escherichia coli (DC)                                                                            | CFU/100mL | 0    | 0      |            |         |              |         | -                                                  | 0-30    |
| Associated Samples : 9869345                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-10<br>Analysis Date: 2026-07-11 |         |
| Fluoride (Water, Auto/ISE)                                                                       |           |      |        |            |         |              |         |                                                    |         |
| Method : Fluoride by autotitrator, ion selective electrode. Internal method: OTT-I-AT-WI45398.   |           |      |        |            |         |              |         |                                                    |         |
| Fluoride                                                                                         | mg/L      | 0.1  | <0.10  | 104        | 90-110  | 102          | 80-120  | 0                                                  | 0-20    |
| Associated Samples : 9869345                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-10<br>Analysis Date: 2026-07-13 |         |

## OFFICIAL CERTIFICATE OF ANALYSIS - QUALITY CONTROL

Client : Paterson Group

Project : PH5222

Reception Date: 2026-07-10

| Parameter                                                                       | Unit | RL     | Blank   | QC         |         | Matrix Spike |         | Duplicate                                          |         |
|---------------------------------------------------------------------------------|------|--------|---------|------------|---------|--------------|---------|----------------------------------------------------|---------|
|                                                                                 |      |        |         | Recovery % | Range % | Recovery %   | Range % | RPD %                                              | Range % |
| Metals Scan (Water, ICP/MS)                                                     |      |        |         |            |         |              |         |                                                    |         |
| Method : Metals (Water, ICP/MS). Internal method: AMMTFQE1.                     |      |        |         |            |         |              |         |                                                    |         |
| Aluminum                                                                        | mg/L | 0.01   | <0.01   | 100        | 80-120  | 112          | 70-130  | -                                                  | 0-20    |
| Antimony                                                                        | mg/L | 0.0005 | <0.0005 | 83         | 80-120  | 110          | 70-130  | -                                                  | 0-20    |
| Arsenic                                                                         | mg/L | 0.001  | <0.001  | 99         | 80-120  | 102          | 70-130  | -                                                  | 0-20    |
| Barium                                                                          | mg/L | 0.001  | <0.001  | 100        | 80-120  | 103          | 70-130  | 0                                                  | 0-20    |
| Beryllium                                                                       | mg/L | 0.0005 | <0.0005 | 108        | 80-120  | 111          | 70-130  | -                                                  | 0-20    |
| Boron                                                                           | mg/L | 0.01   | <0.01   | 100        | 80-120  | 104          | 70-130  | -                                                  | 0-20    |
| Cadmium                                                                         | mg/L | 0.0001 | <0.0001 | 101        | 80-120  | 103          | 70-130  | -                                                  | 0-20    |
| Chromium                                                                        | mg/L | 0.001  | <0.001  | 110        | 80-120  | 101          | 70-130  | -                                                  | 0-20    |
| Cobalt                                                                          | mg/L | 0.0002 | <0.0002 | 104        | 80-120  | 94           | 70-130  | -                                                  | 0-20    |
| Copper                                                                          | mg/L | 0.001  | <0.001  | 110        | 80-120  | 92           | 70-130  | -                                                  | 0-20    |
| Iron                                                                            | mg/L | 0.03   | <0.03   | 100        | 80-120  | 96           | 70-130  | -                                                  | 0-20    |
| Lead                                                                            | mg/L | 0.001  | <0.001  | 100        | 80-120  | 90           | 70-130  | -                                                  | 0-20    |
| Manganese                                                                       | mg/L | 0.01   | <0.01   | 100        | 80-120  | 99           | 70-130  | -                                                  | 0-20    |
| Mercury                                                                         | mg/L | 0.0001 | <0.0001 | 91         | 80-120  | 80           | 70-130  | -                                                  | 0-20    |
| Molybdenum                                                                      | mg/L | 0.005  | <0.005  | 100        | 80-120  | 97           | 70-130  | -                                                  | 0-20    |
| Nickel                                                                          | mg/L | 0.005  | <0.005  | 110        | 80-120  | 96           | 70-130  | -                                                  | 0-20    |
| Selenium                                                                        | mg/L | 0.001  | <0.001  | 99         | 80-120  | 103          | 70-130  | -                                                  | 0-20    |
| Silver                                                                          | mg/L | 0.0001 | <0.0001 | 107        | 80-120  | 89           | 70-130  | -                                                  | 0-20    |
| Strontium                                                                       | mg/L | 0.001  | <0.001  | 100        | 80-120  | 100          | 70-130  | 1                                                  | 0-20    |
| Thallium                                                                        | mg/L | 0.0001 | <0.0001 | 101        | 80-120  | 90           | 70-130  | -                                                  | 0-20    |
| Uranium                                                                         | mg/L | 0.001  | <0.001  | 100        | 80-120  | 90           | 70-130  | -                                                  | 0-20    |
| Vanadium                                                                        | mg/L | 0.001  | <0.001  | 100        | 80-120  | 103          | 70-130  | -                                                  | 0-20    |
| Zinc                                                                            | mg/L | 0.01   | <0.01   | 110        | 80-120  | 100          | 70-130  | -                                                  | 0-20    |
| Associated Samples : 9869345                                                    |      |        |         |            |         |              |         | Prep Date: 2026-07-13<br>Analysis Date: 2026-07-13 |         |
| Metals Scan (Water, ICP/OES)                                                    |      |        |         |            |         |              |         |                                                    |         |
| Method : Metals (Water, ICP/OES). Internal method: OTT-I-MET-WI48491.           |      |        |         |            |         |              |         |                                                    |         |
| Calcium                                                                         | mg/L | 1      | <1      | 100        | 70-130  | 97           | 70-130  | 0                                                  | 0-20    |
| Magnesium                                                                       | mg/L | 1      | <1      | 101        | 70-130  | 106          | 70-130  | 0                                                  | 0-20    |
| Potassium                                                                       | mg/L | 1      | <1      | 99         | 70-130  | 103          | 70-130  | -                                                  | 0-20    |
| Sodium                                                                          | mg/L | 1      | <1      | 101        | 70-130  | 102          | 70-130  | 0                                                  | 0-20    |
| Associated Samples : 9869345                                                    |      |        |         |            |         |              |         | Prep Date: 2026-07-15<br>Analysis Date: 2026-07-10 |         |
| Nitrate (Water, IC)                                                             |      |        |         |            |         |              |         |                                                    |         |
| Method : Anions (Water, Ion Chromatography). Internal method: OTT-I-IC-WI45985. |      |        |         |            |         |              |         |                                                    |         |
| Nitrate (as Nitrogen)                                                           | mg/L | 0.1    | <0.1    | 106        | 80-120  | 101          | 80-120  | -                                                  | 0-20    |
| Associated Samples : 9869345                                                    |      |        |         |            |         |              |         | Prep Date: 2026-07-14<br>Analysis Date: 2026-07-16 |         |
| Nitrite (Water, IC)                                                             |      |        |         |            |         |              |         |                                                    |         |
| Method : Anions (Water, Ion Chromatography). Internal method: OTT-I-IC-WI45985. |      |        |         |            |         |              |         |                                                    |         |
| Nitrite (as Nitrogen)                                                           | mg/L | 0.1    | <0.1    | 105        | 80-120  | 109          | 80-120  | -                                                  | 0-20    |
| Associated Samples : 9869345                                                    |      |        |         |            |         |              |         | Prep Date: 2026-07-14<br>Analysis Date: 2026-07-16 |         |
| Phenols (Water, Colorimetry)                                                    |      |        |         |            |         |              |         |                                                    |         |
| Method : Phenols (Water, Colorimetry). Internal method: OTT-I-4AAP-WI46150.     |      |        |         |            |         |              |         |                                                    |         |
| Phenols-4AAP                                                                    | mg/L | 0.001  | <0.001  | 101        | 75-125  | 78           | 70-130  | 4                                                  | 0-20    |
| Associated Samples : 9869345                                                    |      |        |         |            |         |              |         | Prep Date: 2026-07-13<br>Analysis Date: 2026-07-13 |         |

## OFFICIAL CERTIFICATE OF ANALYSIS - QUALITY CONTROL

Client : Paterson Group

Project : PH5222

Reception Date: 2026-07-10

| Parameter                                                                                        | Unit      | RL   | Blank  | QC         |         | Matrix Spike |         | Duplicate                                          |         |
|--------------------------------------------------------------------------------------------------|-----------|------|--------|------------|---------|--------------|---------|----------------------------------------------------|---------|
|                                                                                                  |           |      |        | Recovery % | Range % | Recovery %   | Range % | RPD %                                              | Range % |
| Sulphate (Water, IC)                                                                             |           |      |        |            |         |              |         |                                                    |         |
| Method : Anions (Water, Ion Chromatography). Internal method: OTT-I-IC-WI45985.                  |           |      |        |            |         |              |         |                                                    |         |
| Sulphate                                                                                         | mg/L      | 1    | <1     | 110        | 90-110  | 106          | 80-120  | 2                                                  | 0-20    |
| Associated Samples : 9869345                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-14<br>Analysis Date: 2026-07-16 |         |
| Sulphide (Water, Colorimetry)                                                                    |           |      |        |            |         |              |         |                                                    |         |
| Method : Sulphide, S2- (Water, Colorimetry). Internal method: OTT-I-SPEC-WI45931.                |           |      |        |            |         |              |         |                                                    |         |
| Sulphide (S2-)                                                                                   | mg/L      | 0.01 | <0.01  | 63         | 48-131  |              |         | -                                                  | 0-20    |
| Associated Samples : 9869345                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-15<br>Analysis Date: 2026-07-16 |         |
| Tannin and Lignin (Water, Spec)                                                                  |           |      |        |            |         |              |         |                                                    |         |
| Method : Tannin and Lignin (Water, Spec), Internal method: OTT-I-SPEC-WI57693.                   |           |      |        |            |         |              |         |                                                    |         |
| Tannin and Lignin                                                                                | mg/L      | 0.1  | <0.1   | 100        | 80-120  |              |         | -                                                  | 0-20    |
| Associated Samples : 9869345                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-14<br>Analysis Date: 2026-07-14 |         |
| Total Coliforms (DC Plate)                                                                       |           |      |        |            |         |              |         |                                                    |         |
| Method : Total Coliforms and E.Coli by MF (Water, DC plate). Internal method: OTT-M-BAC-WI45296. |           |      |        |            |         |              |         |                                                    |         |
| Total Coliforms (DC)                                                                             | CFU/100mL | 0    | 0      |            |         |              |         | -                                                  | 0-30    |
| Associated Samples : 9869345                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-10<br>Analysis Date: 2026-07-11 |         |
| Total Kjeldahl Nitrogen (Water, Colorimetry)                                                     |           |      |        |            |         |              |         |                                                    |         |
| Method : TKN (Water, colorimetry). Internal method: OTT-I-NUT-WI46201.                           |           |      |        |            |         |              |         |                                                    |         |
| Total Kjeldahl Nitrogen                                                                          | mg/L      | 0.1  | <0.100 | 101        | 70-130  | 106          | 70-130  | -                                                  | 0-20    |
| Associated Samples : 9869345                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-13<br>Analysis Date: 2026-07-14 |         |
| Turbidity (Water, Turbidimeter)                                                                  |           |      |        |            |         |              |         |                                                    |         |
| Method : Turbidity (Water, Turbidimeter). Internal method: OTT-I-TUR-WI46288.                    |           |      |        |            |         |              |         |                                                    |         |
| Turbidity                                                                                        | NTU       | 0.1  | <0.1   | 95         | 80-120  |              |         | -                                                  | 0-30    |
| Associated Samples : 9869345                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-10<br>Analysis Date: 2026-07-10 |         |

Where RPD % is reported as "-" the calculation is not available because one or both of the duplicates is within 5 times the RL.

[illegible]

**OFFICIAL CERTIFICATE OF ANALYSIS : 4766641**
**WORK REQUEST : 100451252**
**Report Date : 2026-07-22**
**Paterson Group**

9 Auriga Drive  
Ottawa, Ontario  
K2J 5Z9  
Attention : Zavian Buchanan

Reception Date : 2026-07-16

Project : PH5222

Sampler : NA

PO Number : 66473

Temperature : 9 °C

| Analysis                                     | Quantity | External Method                        |
|----------------------------------------------|----------|----------------------------------------|
| Alkalinity (Water, Automated)                | 1        | Modified from SM 2320 B                |
| Ammonia, Total (Water, Colorimetry)          | 1        | Modified from EPA 350.1                |
| Chloride (Water, IC)                         | 1        | Modified from SM 4110 B and C          |
| Colour, Apparent (Water, Spectrophotometry)  | 1        | Modified from SM 2120 C                |
| Colour, True (Water, Spectrophotometry)      | 1        | Modified from SM 2120 C                |
| Conductivity (Water, Automated)              | 1        | Modified from SM 2510 B                |
| DOC (Water, IR)                              | 1        | Modified from SM 5310 B                |
| Escherichia coli (DC Plate)                  | 1        | Modified from MECP E3407               |
| Fluoride (Water, Auto/ISE)                   | 1        | Modified from SM 4500-F A and 4500-F C |
| Hardness (Water, Calculation Only)           | 1        | SM 2340 B                              |
| Ion Balance (Water, Calculation)             | 1        | Modified from SM1030 E                 |
| Metals Scan (Water, ICP/MS)                  | 1        | Modified from EPA 200.8                |
| Metals Scan (Water, ICP/OES)                 | 1        | Modified from SM 3120 B                |
| Nitrate (Water, IC)                          | 1        | Modified from SM 4110 B and C          |
| Nitrite (Water, IC)                          | 1        | Modified from SM 4110 B and C          |
| pH (25°C) (Water, Automated)                 | 1        | Modified from SM 4500-H+ B             |
| Phenols (Water, Colorimetry)                 | 1        | Modified from EPA 420.2                |
| Sulphate (Water, IC)                         | 1        | Modified from SM 4110 B and C          |
| Sulphide (Water, Colorimetry)                | 1        | Modified from SM 4500-S2 D             |
| Tannin and Lignin (Water, Spec)              | 1        | Modified from SM 5550 B                |
| TDS (Estimated)                              | 1        | Modified from SM 2510 A                |
| Total Coliforms (DC Plate)                   | 1        | Modified from MECP E3407               |
| Total Kjeldahl Nitrogen (Water, Colorimetry) | 1        | Modified from EPA 351.2                |
| Turbidity (Water, Turbidimeter)              | 1        | Modified from SM 2130 B                |

**Criteria :**
**A :** Ontario Regulation 169/03 (Non-Regulated Drinking Water)

**Sample status upon receipt :**

9894195

**Compliant**
**Notes :**

- All analysis is completed at Eurofins Environment Testing Canada Inc. (Ottawa, Ontario) unless otherwise stated.
- Eurofins Environment Testing Canada Inc. is accredited by CALA, Canadian Association for Laboratory Accreditation to ISO/IEC 17025 for tests which appear on the scope of accreditation. The scope is available at <https://directory.cala.ca/>
- Please note: Field data, where presented on the report, has been provided by the client and is presented for informational purposes only. Guideline or regulatory limits listed on this report are provided for ease of use (informational purposes) only. Eurofins recommends consulting the official guideline or regulation as required. Unless otherwise stated, measurement uncertainty is not taken into account when determining guideline or regulatory exceedances.

**Legend :**

RL : Reporting limit

N/A : Not applicable

\* : Analysis conducted by external subcontracting

QC : Reference material (QC)

1 : Results in annex

^ : Analysis not accredited

### OFFICIAL CERTIFICATE OF ANALYSIS - EXCEEDENCE SUMMARY

Client : Paterson Group

Project : PH5222

Reception Date : 2026-07-16

| Eurofins<br>Sample No                       | Client Sample<br>Identification | Analyte           | Result | Units | Exceeded Criteria |   |   |
|---------------------------------------------|---------------------------------|-------------------|--------|-------|-------------------|---|---|
|                                             |                                 |                   |        |       | A                 | B | C |
| Colour, Apparent (Water, Spectrophotometry) |                                 |                   |        |       |                   |   |   |
| 9894195                                     | 6025 Flewellyn                  | Colour (Apparent) | 40     | TCU   | 5                 |   |   |
| Metals Scan (Water, ICP/MS)                 |                                 |                   |        |       |                   |   |   |
| 9894195                                     | 6025 Flewellyn                  | Manganese         | 0.14   | mg/L  | 0.05              |   |   |
| TDS (Estimated)                             |                                 |                   |        |       |                   |   |   |
| 9894195                                     | 6025 Flewellyn                  | TDS (Estimated)^  | 539    | mg/L  | 500               |   |   |

**OFFICIAL CERTIFICATE OF ANALYSIS - RESULTS**

Client : Paterson Group  
Project : PH5222

Reception Date: 2026-07-16

|          |     |      | Eurofins Sample No : <b>9894195</b>              |   |   |       |  |  |  |
|----------|-----|------|--------------------------------------------------|---|---|-------|--|--|--|
|          |     |      | Matrix : Groundwater                             |   |   |       |  |  |  |
|          |     |      | Sampling Date : 2026-07-16                       |   |   |       |  |  |  |
|          |     |      | Client Sample Identification : 6025<br>Flewellyn |   |   |       |  |  |  |
| Anions   | RL  | Unit | Criteria                                         |   |   |       |  |  |  |
|          |     |      | A                                                | B | C |       |  |  |  |
| Chloride | 0.5 | mg/L | 250                                              |   |   | 33.1  |  |  |  |
| Fluoride | 0.1 | mg/L | 1.5                                              |   |   | <0.10 |  |  |  |
| Sulphate | 1   | mg/L | 500                                              |   |   | 29    |  |  |  |

|                            |     |      | Eurofins Sample No : <b>9894195</b>              |  |  |  |  |  |  |
|----------------------------|-----|------|--------------------------------------------------|--|--|--|--|--|--|
|                            |     |      | Matrix : Groundwater                             |  |  |  |  |  |  |
|                            |     |      | Sampling Date : 2026-07-16                       |  |  |  |  |  |  |
|                            |     |      | Client Sample Identification : 6025<br>Flewellyn |  |  |  |  |  |  |
| Calculations               | RL  | Unit |                                                  |  |  |  |  |  |  |
| Ion Balance (Calculation)^ | 0.1 |      | 1.02                                             |  |  |  |  |  |  |

|                                 |       |       | Eurofins Sample No : <b>9894195</b>              |   |   |        |  |  |  |
|---------------------------------|-------|-------|--------------------------------------------------|---|---|--------|--|--|--|
|                                 |       |       | Matrix : Groundwater                             |   |   |        |  |  |  |
|                                 |       |       | Sampling Date : 2026-07-16                       |   |   |        |  |  |  |
|                                 |       |       | Client Sample Identification : 6025<br>Flewellyn |   |   |        |  |  |  |
| General Chemistry               | RL    | Unit  | Criteria                                         |   |   |        |  |  |  |
|                                 |       |       | A                                                | B | C |        |  |  |  |
| Alkalinity (as CaCO3)           | 5     | mg/L  | 500                                              |   |   | 372    |  |  |  |
| Colour (Apparent)               | 2     | TCU   | 5                                                |   |   | 40     |  |  |  |
| Colour (True)                   | 2     | TCU   |                                                  |   |   | <2     |  |  |  |
| Conductivity @ 25°C             | 5     | µS/cm |                                                  |   |   | 829    |  |  |  |
| Dissolved Organic Carbon        | 0.5   | mg/L  | 5                                                |   |   | 3.9    |  |  |  |
| Hardness as CaCO3 (Calculation) | 1     | mg/L  | 80-100                                           |   |   | 89     |  |  |  |
| pH @ 25°C                       | 1     |       | 6.5-8.5                                          |   |   | 7.38   |  |  |  |
| Phenols-4AAP                    | 0.001 | mg/L  |                                                  |   |   | <0.001 |  |  |  |
| Sulphide (S2-)                  | 0.01  | mg/L  | 0.05                                             |   |   | <0.01  |  |  |  |
| Tannin and Lignin               | 0.1   | mg/L  |                                                  |   |   | <0.1   |  |  |  |
| TDS (Estimated)^                | 5     | mg/L  | 500                                              |   |   | 539    |  |  |  |
| Turbidity                       | 0.1   | NTU   | 5                                                |   |   | 0.3    |  |  |  |

## OFFICIAL CERTIFICATE OF ANALYSIS - RESULTS

Client : Paterson Group  
Project : PH5222

Reception Date: 2026-07-16

|                                |        |      |          |   |   |                   |  |  |  |  |
|--------------------------------|--------|------|----------|---|---|-------------------|--|--|--|--|
| Eurofins Sample No :           |        |      |          |   |   | 9894195           |  |  |  |  |
| Matrix :                       |        |      |          |   |   | Groundwater       |  |  |  |  |
| Sampling Date :                |        |      |          |   |   | 2026-07-16        |  |  |  |  |
| Client Sample Identification : |        |      |          |   |   | 6025<br>Flewellyn |  |  |  |  |
| Metals                         | RL     | Unit | Criteria |   |   |                   |  |  |  |  |
|                                |        |      | A        | B | C |                   |  |  |  |  |
| Metals Scan (Water, ICP/MS)    |        |      |          |   |   |                   |  |  |  |  |
| Aluminum                       | 0.01   | mg/L | 0.1      |   |   | <0.01             |  |  |  |  |
| Antimony                       | 0.0005 | mg/L | 0.006    |   |   | <0.0005           |  |  |  |  |
| Arsenic                        | 0.001  | mg/L | 0.01     |   |   | <0.001            |  |  |  |  |
| Barium                         | 0.001  | mg/L | 1        |   |   | 0.030             |  |  |  |  |
| Beryllium                      | 0.0005 | mg/L |          |   |   | <0.0005           |  |  |  |  |
| Boron                          | 0.01   | mg/L | 5        |   |   | 0.04              |  |  |  |  |
| Cadmium                        | 0.0001 | mg/L | 0.005    |   |   | <0.0001           |  |  |  |  |
| Chromium                       | 0.001  | mg/L | 0.05     |   |   | <0.001            |  |  |  |  |
| Cobalt                         | 0.0002 | mg/L |          |   |   | 0.0041            |  |  |  |  |
| Copper                         | 0.001  | mg/L | 1        |   |   | 0.035             |  |  |  |  |
| Iron                           | 0.03   | mg/L | 0.3      |   |   | 0.12              |  |  |  |  |
| Lead                           | 0.001  | mg/L | 0.01     |   |   | <0.001            |  |  |  |  |
| Manganese                      | 0.01   | mg/L | 0.05     |   |   | 0.14              |  |  |  |  |
| Mercury                        | 0.0001 | mg/L | 0.001    |   |   | <0.0001           |  |  |  |  |
| Molybdenum                     | 0.005  | mg/L |          |   |   | <0.005            |  |  |  |  |
| Nickel                         | 0.005  | mg/L |          |   |   | <0.005            |  |  |  |  |
| Selenium                       | 0.001  | mg/L | 0.05     |   |   | <0.001            |  |  |  |  |
| Silver                         | 0.0001 | mg/L |          |   |   | <0.0001           |  |  |  |  |
| Strontium                      | 0.001  | mg/L |          |   |   | 0.460             |  |  |  |  |
| Thallium                       | 0.0001 | mg/L |          |   |   | <0.0001           |  |  |  |  |
| Uranium                        | 0.001  | mg/L | 0.02     |   |   | <0.001            |  |  |  |  |
| Vanadium                       | 0.001  | mg/L |          |   |   | <0.001            |  |  |  |  |
| Zinc                           | 0.01   | mg/L | 5        |   |   | 0.02              |  |  |  |  |
| Metals Scan (Water, ICP/OES)   |        |      |          |   |   |                   |  |  |  |  |
| Calcium                        | 1      | mg/L |          |   |   | 24                |  |  |  |  |
| Magnesium                      | 1      | mg/L |          |   |   | 7                 |  |  |  |  |
| Potassium                      | 1      | mg/L |          |   |   | <1                |  |  |  |  |
| Sodium                         | 1      | mg/L | 200      |   |   | 170               |  |  |  |  |

|                                |    |           |          |   |   |                   |  |  |  |  |
|--------------------------------|----|-----------|----------|---|---|-------------------|--|--|--|--|
| Eurofins Sample No :           |    |           |          |   |   | 9894195           |  |  |  |  |
| Matrix :                       |    |           |          |   |   | Groundwater       |  |  |  |  |
| Sampling Date :                |    |           |          |   |   | 2026-07-16        |  |  |  |  |
| Client Sample Identification : |    |           |          |   |   | 6025<br>Flewellyn |  |  |  |  |
| Microbiology                   | RL | Unit      | Criteria |   |   |                   |  |  |  |  |
|                                |    |           | A        | B | C |                   |  |  |  |  |
| Escherichia coli (DC)          | 0  | CFU/100mL | 0        |   |   | 0                 |  |  |  |  |
| Total Coliforms (DC)           | 0  | CFU/100mL | 0        |   |   | 0                 |  |  |  |  |

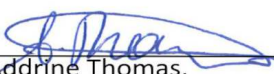
## OFFICIAL CERTIFICATE OF ANALYSIS - RESULTS

Client : Paterson Group  
Project : PH5222

Reception Date: 2026-07-16

|                              |      |      | Eurofins Sample No :           |   |   | 9894195           |  |  |  |  |
|------------------------------|------|------|--------------------------------|---|---|-------------------|--|--|--|--|
|                              |      |      | Matrix :                       |   |   | Groundwater       |  |  |  |  |
|                              |      |      | Sampling Date :                |   |   | 2026-07-16        |  |  |  |  |
|                              |      |      | Client Sample Identification : |   |   | 6025<br>Flewellyn |  |  |  |  |
| Nutrients                    | RL   | Unit | Criteria                       |   |   |                   |  |  |  |  |
|                              |      |      | A                              | B | C |                   |  |  |  |  |
| Ammonia (Total, as Nitrogen) | 0.02 | mg/L |                                |   |   | <0.020            |  |  |  |  |
| Nitrate (as Nitrogen)        | 0.1  | mg/L | 10.0                           |   |   | <0.1              |  |  |  |  |
| Nitrite (as Nitrogen)        | 0.1  | mg/L | 1.0                            |   |   | <0.1              |  |  |  |  |
| Total Kjeldahl Nitrogen      | 0.1  | mg/L |                                |   |   | 0.208             |  |  |  |  |

Approved by :

  
Addrine Thomas,  
Chemistry Manager, Ottawa

Approved by :

  
Emma-Dawn Ferguson, M.Sc.  
Environmental Chemist

## OFFICIAL CERTIFICATE OF ANALYSIS - QUALITY CONTROL

Client : Paterson Group

Project : PH5222

Reception Date: 2026-07-16

| Parameter                                                                                        | Unit      | RL   | Blank  | QC         |         | Matrix Spike |         | Duplicate                                          |         |
|--------------------------------------------------------------------------------------------------|-----------|------|--------|------------|---------|--------------|---------|----------------------------------------------------|---------|
|                                                                                                  |           |      |        | Recovery % | Range % | Recovery %   | Range % | RPD %                                              | Range % |
| Alkalinity (Water, Automated)                                                                    |           |      |        |            |         |              |         |                                                    |         |
| Method : Alkalinity (water, titration to pH 4.5, automated). Internal method: OTT-I-AT-WI45398.  |           |      |        |            |         |              |         |                                                    |         |
| Alkalinity (as CaCO3)                                                                            | mg/L      | 5    | <5     | 101        | 95-105  |              |         | 1                                                  | 0-20    |
| Associated Samples : 9894195                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-20<br>Analysis Date: 2026-07-21 |         |
| Ammonia, Total (Water, Colorimetry)                                                              |           |      |        |            |         |              |         |                                                    |         |
| Method : Ammonia (Water, Colorimetry). Internal method: OTT-I-NUT-WI46201.                       |           |      |        |            |         |              |         |                                                    |         |
| Ammonia (Total, as Nitrogen)                                                                     | mg/L      | 0.02 | <0.020 | 100        | 80-120  | 102          | 80-120  | -                                                  | 0-20    |
| Associated Samples : 9894195                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-17<br>Analysis Date: 2026-07-17 |         |
| Chloride (Water, IC)                                                                             |           |      |        |            |         |              |         |                                                    |         |
| Method : Anions (Water, Ion Chromatography). Internal method: OTT-I-IC-WI45985.                  |           |      |        |            |         |              |         |                                                    |         |
| Chloride                                                                                         | mg/L      | 0.5  | <0.5   | 92         | 80-120  | 103          | 80-120  | 1                                                  | 0-20    |
| Associated Samples : 9894195                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-20<br>Analysis Date: 2026-07-21 |         |
| Colour, Apparent (Water, Spectrophotometry)                                                      |           |      |        |            |         |              |         |                                                    |         |
| Method : Colour (Water, Spectrophotometric). Internal method: OTT-I-SPEC-WI45980.                |           |      |        |            |         |              |         |                                                    |         |
| Colour (Apparent)                                                                                | TCU       | 2    | <2     | 102        | 78-116  |              |         | -                                                  | 0-40    |
| Associated Samples : 9894195                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-22<br>Analysis Date: 2026-07-22 |         |
| Colour, True (Water, Spectrophotometry)                                                          |           |      |        |            |         |              |         |                                                    |         |
| Method : Colour (Water, Spectrophotometric). Internal method: OTT-I-SPEC-WI45980.                |           |      |        |            |         |              |         |                                                    |         |
| Colour (True)                                                                                    | TCU       | 2    | <2     | 102        | 78-116  |              |         | -                                                  | 0-40    |
| Associated Samples : 9894195                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-22<br>Analysis Date: 2026-07-22 |         |
| Conductivity (Water, Automated)                                                                  |           |      |        |            |         |              |         |                                                    |         |
| Method : Conductivity (Water, Autotitrator). Internal Method: OTT-I-AT-WI45398.                  |           |      |        |            |         |              |         |                                                    |         |
| Conductivity @ 25°C                                                                              | uS/cm     | 5    | <5     | 102        | 98-102  |              |         | 0                                                  | 0-20    |
| Associated Samples : 9894195                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-20<br>Analysis Date: 2026-07-21 |         |
| DOC (Water, IR)                                                                                  |           |      |        |            |         |              |         |                                                    |         |
| Method : Organic carbon (water, IR, combustion). Internal method: OTT-I-DEM-WI46148.             |           |      |        |            |         |              |         |                                                    |         |
| Dissolved Organic Carbon                                                                         | mg/L      | 0.5  | <0.5   | 98         | 88-112  | 101          | 85-115  | 1                                                  | 0-15    |
| Associated Samples : 9894195                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-20<br>Analysis Date: 2026-07-22 |         |
| Escherichia coli (DC Plate)                                                                      |           |      |        |            |         |              |         |                                                    |         |
| Method : Total Coliforms and E.Coli by MF (Water, DC plate). Internal method: OTT-M-BAC-WI45296. |           |      |        |            |         |              |         |                                                    |         |
| Escherichia coli (DC)                                                                            | CFU/100mL | 0    | 0      |            |         |              |         | -                                                  | 0-30    |
| Associated Samples : 9894195                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-16<br>Analysis Date: 2026-07-17 |         |
| Fluoride (Water, Auto/ISE)                                                                       |           |      |        |            |         |              |         |                                                    |         |
| Method : Fluoride by autotitrator, ion selective electrode. Internal method: OTT-I-AT-WI45398.   |           |      |        |            |         |              |         |                                                    |         |
| Fluoride                                                                                         | mg/L      | 0.1  | <0.10  | 99         | 90-110  |              |         | -                                                  | 0-20    |
| Associated Samples : 9894195                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-20<br>Analysis Date: 2026-07-21 |         |

## OFFICIAL CERTIFICATE OF ANALYSIS - QUALITY CONTROL

Client : Paterson Group

Project : PH5222

Reception Date: 2026-07-16

| Parameter                                                                       | Unit | RL     | Blank   | QC         |         | Matrix Spike |         | Duplicate                                          |         |
|---------------------------------------------------------------------------------|------|--------|---------|------------|---------|--------------|---------|----------------------------------------------------|---------|
|                                                                                 |      |        |         | Recovery % | Range % | Recovery %   | Range % | RPD %                                              | Range % |
| Metals Scan (Water, ICP/MS)                                                     |      |        |         |            |         |              |         |                                                    |         |
| Method : Metals (Water, ICP/MS). Internal method: AMMTFQE1.                     |      |        |         |            |         |              |         |                                                    |         |
| Aluminum                                                                        | mg/L | 0.01   | <0.01   | 100        | 80-120  | 96           | 70-130  | -                                                  | 0-20    |
| Antimony                                                                        | mg/L | 0.0005 | <0.0005 | 81         | 80-120  | 78           | 70-130  | -                                                  | 0-20    |
| Arsenic                                                                         | mg/L | 0.001  | <0.001  | 100        | 80-120  | 96           | 70-130  | -                                                  | 0-20    |
| Barium                                                                          | mg/L | 0.001  | <0.001  | 100        | 80-120  | 91           | 70-130  | -                                                  | 0-20    |
| Beryllium                                                                       | mg/L | 0.0005 | <0.0005 | 104        | 80-120  | 99           | 70-130  | -                                                  | 0-20    |
| Boron                                                                           | mg/L | 0.01   | <0.01   | 100        | 80-120  | 90           | 70-130  | -                                                  | 0-20    |
| Cadmium                                                                         | mg/L | 0.0001 | <0.0001 | 102        | 80-120  | 96           | 70-130  | -                                                  | 0-20    |
| Chromium                                                                        | mg/L | 0.001  | <0.001  | 110        | 80-120  | 99           | 70-130  | -                                                  | 0-20    |
| Cobalt                                                                          | mg/L | 0.0002 | <0.0002 | 106        | 80-120  | 98           | 70-130  | -                                                  | 0-20    |
| Copper                                                                          | mg/L | 0.001  | <0.001  | 110        | 80-120  | 101          | 70-130  | -                                                  | 0-20    |
| Iron                                                                            | mg/L | 0.03   | <0.03   | 100        | 80-120  | 94           | 70-130  | -                                                  | 0-20    |
| Lead                                                                            | mg/L | 0.001  | <0.001  | 100        | 80-120  | 96           | 70-130  | -                                                  | 0-20    |
| Manganese                                                                       | mg/L | 0.01   | <0.01   | 100        | 80-120  | 94           | 70-130  | -                                                  | 0-20    |
| Mercury                                                                         | mg/L | 0.0001 | <0.0001 | 95         | 80-120  | 100          | 70-130  | -                                                  | 0-20    |
| Molybdenum                                                                      | mg/L | 0.005  | <0.005  | 100        | 80-120  | 89           | 70-130  | -                                                  | 0-20    |
| Nickel                                                                          | mg/L | 0.005  | <0.005  | 110        | 80-120  | 100          | 70-130  | -                                                  | 0-20    |
| Selenium                                                                        | mg/L | 0.001  | <0.001  | 101        | 80-120  | 99           | 70-130  | -                                                  | 0-20    |
| Silver                                                                          | mg/L | 0.0001 | <0.0001 | 115        | 80-120  | 83           | 70-130  | -                                                  | 0-20    |
| Strontium                                                                       | mg/L | 0.001  | <0.001  | 100        | 80-120  | 91           | 70-130  | -                                                  | 0-20    |
| Thallium                                                                        | mg/L | 0.0001 | <0.0001 | 105        | 80-120  | 97           | 70-130  | -                                                  | 0-20    |
| Uranium                                                                         | mg/L | 0.001  | <0.001  | 100        | 80-120  | 94           | 70-130  | -                                                  | 0-20    |
| Vanadium                                                                        | mg/L | 0.001  | <0.001  | 100        | 80-120  | 96           | 70-130  | -                                                  | 0-20    |
| Zinc                                                                            | mg/L | 0.01   | <0.01   | 110        | 80-120  | 100          | 70-130  | -                                                  | 0-20    |
| Associated Samples : 9894195                                                    |      |        |         |            |         |              |         | Prep Date: 2026-07-17<br>Analysis Date: 2026-07-17 |         |
| Metals Scan (Water, ICP/OES)                                                    |      |        |         |            |         |              |         |                                                    |         |
| Method : Metals (Water, ICP/OES). Internal method: OTT-I-MET-WI48491.           |      |        |         |            |         |              |         |                                                    |         |
| Calcium                                                                         | mg/L | 1      | <1      | 100        | 70-130  | 100          | 70-130  | 1                                                  | 0-20    |
| Magnesium                                                                       | mg/L | 1      | <1      | 100        | 70-130  | 98           | 70-130  | 0                                                  | 0-20    |
| Potassium                                                                       | mg/L | 1      | <1      | 100        | 70-130  | 98           | 70-130  | -                                                  | 0-20    |
| Sodium                                                                          | mg/L | 1      | <1      | 100        | 70-130  | 104          | 70-130  | 1                                                  | 0-20    |
| Associated Samples : 9894195                                                    |      |        |         |            |         |              |         | Prep Date: 2026-07-21<br>Analysis Date: 2026-07-16 |         |
| Nitrate (Water, IC)                                                             |      |        |         |            |         |              |         |                                                    |         |
| Method : Anions (Water, Ion Chromatography). Internal method: OTT-I-IC-WI45985. |      |        |         |            |         |              |         |                                                    |         |
| Nitrate (as Nitrogen)                                                           | mg/L | 0.1    | <0.1    | 97         | 80-120  | 95           | 80-120  | -                                                  | 0-20    |
| Associated Samples : 9894195                                                    |      |        |         |            |         |              |         | Prep Date: 2026-07-20<br>Analysis Date: 2026-07-21 |         |
| Nitrite (Water, IC)                                                             |      |        |         |            |         |              |         |                                                    |         |
| Method : Anions (Water, Ion Chromatography). Internal method: OTT-I-IC-WI45985. |      |        |         |            |         |              |         |                                                    |         |
| Nitrite (as Nitrogen)                                                           | mg/L | 0.1    | <0.1    | 93         | 80-120  | 99           | 80-120  | -                                                  | 0-20    |
| Associated Samples : 9894195                                                    |      |        |         |            |         |              |         | Prep Date: 2026-07-20<br>Analysis Date: 2026-07-21 |         |
| pH (25°C) (Water, Automated)                                                    |      |        |         |            |         |              |         |                                                    |         |
| Method : pH (Water, Automated Meter). Internal method: OTT-I-AT-WI45398.        |      |        |         |            |         |              |         |                                                    |         |
| pH @ 25°C                                                                       |      | 1      | 7.39    | 100        | 97-103  |              |         | 0                                                  | 0-20    |
| Associated Samples : 9894195                                                    |      |        |         |            |         |              |         | Prep Date: 2026-07-20<br>Analysis Date: 2026-07-21 |         |

## OFFICIAL CERTIFICATE OF ANALYSIS - QUALITY CONTROL

Client : Paterson Group

Project : PH5222

Reception Date: 2026-07-16

| Parameter                                                                                        | Unit      | RL    | Blank  | QC         |         | Matrix Spike |         | Duplicate                                          |         |
|--------------------------------------------------------------------------------------------------|-----------|-------|--------|------------|---------|--------------|---------|----------------------------------------------------|---------|
|                                                                                                  |           |       |        | Recovery % | Range % | Recovery %   | Range % | RPD %                                              | Range % |
| Phenols (Water, Colorimetry)                                                                     |           |       |        |            |         |              |         |                                                    |         |
| Method : Phenols (Water, Colorimetry). Internal method: OTT-I-4AAP-WI46150.                      |           |       |        |            |         |              |         |                                                    |         |
| Phenols-4AAP                                                                                     | mg/L      | 0.001 | <0.001 | 104        | 80-120  | 88           | 70-130  | -                                                  | 0-20    |
| Associated Samples : 9894195                                                                     |           |       |        |            |         |              |         | Prep Date: 2026-07-17<br>Analysis Date: 2026-07-17 |         |
| Sulphate (Water, IC)                                                                             |           |       |        |            |         |              |         |                                                    |         |
| Method : Anions (Water, Ion Chromatography). Internal method: OTT-I-IC-WI45985.                  |           |       |        |            |         |              |         |                                                    |         |
| Sulphate                                                                                         | mg/L      | 1     | <1     | 90         | 90-110  | 95           | 80-120  | 3                                                  | 0-20    |
| Associated Samples : 9894195                                                                     |           |       |        |            |         |              |         | Prep Date: 2026-07-20<br>Analysis Date: 2026-07-21 |         |
| Sulphide (Water, Colorimetry)                                                                    |           |       |        |            |         |              |         |                                                    |         |
| Method : Sulphide, S2- (Water, Colorimetry). Internal method: OTT-I-SPEC-WI45931.                |           |       |        |            |         |              |         |                                                    |         |
| Sulphide (S2-)                                                                                   | mg/L      | 0.01  | <0.01  | 66         | 48-131  |              |         | -                                                  | 0-20    |
| Associated Samples : 9894195                                                                     |           |       |        |            |         |              |         | Prep Date: 2026-07-21<br>Analysis Date: 2026-07-21 |         |
| Tannin and Lignin (Water, Spec)                                                                  |           |       |        |            |         |              |         |                                                    |         |
| Method : Tannin and Lignin (Water, Spec), Internal method: OTT-I-SPEC-WI57693.                   |           |       |        |            |         |              |         |                                                    |         |
| Tannin and Lignin                                                                                | mg/L      | 0.1   | <0.1   | 96         | 80-120  |              |         | -                                                  | 0-20    |
| Associated Samples : 9894195                                                                     |           |       |        |            |         |              |         | Prep Date: 2026-07-22<br>Analysis Date: 2026-07-22 |         |
| Total Coliforms (DC Plate)                                                                       |           |       |        |            |         |              |         |                                                    |         |
| Method : Total Coliforms and E.Coli by MF (Water, DC plate). Internal method: OTT-M-BAC-WI45296. |           |       |        |            |         |              |         |                                                    |         |
| Total Coliforms (DC)                                                                             | CFU/100mL | 0     | 0      |            |         |              |         | -                                                  | 0-30    |
| Associated Samples : 9894195                                                                     |           |       |        |            |         |              |         | Prep Date: 2026-07-16<br>Analysis Date: 2026-07-17 |         |
| Total Kjeldahl Nitrogen (Water, Colorimetry)                                                     |           |       |        |            |         |              |         |                                                    |         |
| Method : TKN (Water, colorimetry). Internal method: OTT-I-NUT-WI46201.                           |           |       |        |            |         |              |         |                                                    |         |
| Total Kjeldahl Nitrogen                                                                          | mg/L      | 0.1   | <0.100 | 103        | 70-130  | 98           | 70-130  | -                                                  | 0-20    |
| Associated Samples : 9894195                                                                     |           |       |        |            |         |              |         | Prep Date: 2026-07-17<br>Analysis Date: 2026-07-20 |         |
| Turbidity (Water, Turbidimeter)                                                                  |           |       |        |            |         |              |         |                                                    |         |
| Method : Turbidity (Water, Turbidimeter). Internal method: OTT-I-TUR-WI46288.                    |           |       |        |            |         |              |         |                                                    |         |
| Turbidity                                                                                        | NTU       | 0.1   | <0.1   | 96         | 80-120  |              |         | 1                                                  | 0-30    |
| Associated Samples : 9894195                                                                     |           |       |        |            |         |              |         | Prep Date: 2026-07-17<br>Analysis Date: 2026-07-17 |         |

Where RPD % is reported as "-" the calculation is not available because one or both of the duplicates is within 5 times the RL.

[illegible]

**OFFICIAL CERTIFICATE OF ANALYSIS : 4758526**
**WORK REQUEST : 100449551**
**Report Date : 2026-07-16**
**Paterson Group**

9 Auriga Drive  
Ottawa, Ontario  
K2J 5Z9  
Attention : Zavian Buchanan

Reception Date : 2026-07-10  
Project : PH5222  
Sampler : NA  
PO Number : 66405  
Temperature : 10 °C

| Analysis                                     | Quantity | External Method                        |
|----------------------------------------------|----------|----------------------------------------|
| Alkalinity (Water, Automated)                | 1        | Modified from SM 2320 B                |
| Ammonia, Total (Water, Colorimetry)          | 1        | Modified from EPA 350.1                |
| Chloride (Water, IC)                         | 1        | Modified from SM 4110 B and C          |
| Colour, Apparent (Water, Spectrophotometry)  | 1        | Modified from SM 2120 C                |
| Colour, True (Water, Spectrophotometry)      | 1        | Modified from SM 2120 C                |
| Conductivity (Water, Automated)              | 1        | Modified from SM 2510 B                |
| DOC (Water, IR)                              | 1        | Modified from SM 5310 B                |
| Escherichia coli (DC Plate)                  | 1        | Modified from MECP E3407               |
| Fluoride (Water, Auto/ISE)                   | 1        | Modified from SM 4500-F A and 4500-F C |
| Hardness (Water, Calculation Only)           | 1        | SM 2340 B                              |
| Ion Balance (Water, Calculation)             | 1        | Modified from SM1030 E                 |
| Metals Scan (Water, ICP/MS)                  | 1        | Modified from EPA 200.8                |
| Metals Scan (Water, ICP/OES)                 | 1        | Modified from SM 3120 B                |
| Nitrate (Water, IC)                          | 1        | Modified from SM 4110 B and C          |
| Nitrite (Water, IC)                          | 1        | Modified from SM 4110 B and C          |
| pH (25°C) (Water, Automated)                 | 1        | Modified from SM 4500-H+ B             |
| Phenols (Water, Colorimetry)                 | 1        | Modified from EPA 420.2                |
| Sulphate (Water, IC)                         | 1        | Modified from SM 4110 B and C          |
| Sulphide (Water, Colorimetry)                | 1        | Modified from SM 4500-S2 D             |
| Tannin and Lignin (Water, Spec)              | 1        | Modified from SM 5550 B                |
| TDS (Estimated)                              | 1        | Modified from SM 2510 A                |
| Total Coliforms (DC Plate)                   | 1        | Modified from MECP E3407               |
| Total Kjeldahl Nitrogen (Water, Colorimetry) | 1        | Modified from EPA 351.2                |
| Turbidity (Water, Turbidimeter)              | 1        | Modified from SM 2130 B                |

**Criteria :**
**A :** Ontario Regulation 169/03 (Non-Regulated Drinking Water)

**Sample status upon receipt :**

9869170

**Compliant**
**Certificate Comments :**

9869170

**N-NO2 and N-NO3 MRLs increased due to matrix interference.**
**Notes :**

- All analysis is completed at Eurofins Environment Testing Canada Inc. (Ottawa, Ontario) unless otherwise stated.
- Eurofins Environment Testing Canada Inc. is accredited by CALA, Canadian Association for Laboratory Accreditation to ISO/IEC 17025 for tests which appear on the scope of accreditation. The scope is available at <https://directory.cala.ca/>
- Please note: Field data, where presented on the report, has been provided by the client and is presented for informational purposes only. Guideline or regulatory limits listed on this report are provided for ease of use (informational purposes) only. Eurofins recommends consulting the official guideline or regulation as required. Unless otherwise stated, measurement uncertainty is not taken into account when determining guideline or regulatory exceedances.

**Legend :**

RL : Reporting limit

QC : Reference material (QC)

N/A : Not applicable

1 : Results in annex

\* : Analysis conducted by external subcontracting

^ : Analysis not accredited

## OFFICIAL CERTIFICATE OF ANALYSIS - EXCEEDENCE SUMMARY

Client : Paterson Group

Project : PH5222

Reception Date : 2026-07-10

| Eurofins<br>Sample No                       | Client Sample<br>Identification | Analyte                         | Result | Units     | Exceeded Criteria |   |   |
|---------------------------------------------|---------------------------------|---------------------------------|--------|-----------|-------------------|---|---|
|                                             |                                 |                                 |        |           | A                 | B | C |
| Colour, Apparent (Water, Spectrophotometry) |                                 |                                 |        |           |                   |   |   |
| 9869170                                     | 6035 Flewellyn                  | Colour (Apparent)               | 10     | TCU       | 5                 |   |   |
| Hardness (Water, Calculation Only)          |                                 |                                 |        |           |                   |   |   |
| 9869170                                     | 6035 Flewellyn                  | Hardness as CaCO3 (Calculation) | 349    | mg/L      | 80-100            |   |   |
| Metals Scan (Water, ICP/MS)                 |                                 |                                 |        |           |                   |   |   |
| 9869170                                     | 6035 Flewellyn                  | Iron                            | 0.59   | mg/L      | 0.3               |   |   |
| TDS (Estimated)                             |                                 |                                 |        |           |                   |   |   |
| 9869170                                     | 6035 Flewellyn                  | TDS (Estimated)^                | 528    | mg/L      | 500               |   |   |
| Total Coliforms (DC Plate)                  |                                 |                                 |        |           |                   |   |   |
| 9869170                                     | 6035 Flewellyn                  | Total Coliforms (DC)            | 3      | CFU/100mL | 0                 |   |   |

## OFFICIAL CERTIFICATE OF ANALYSIS - RESULTS

Client : Paterson Group  
Project : PH5222

Reception Date: 2026-07-10

|          |     |      | Eurofins Sample No : <b>9869170</b>           |   |   |      |  |  |  |
|----------|-----|------|-----------------------------------------------|---|---|------|--|--|--|
|          |     |      | Matrix : Groundwater                          |   |   |      |  |  |  |
|          |     |      | Sampling Date : 2026-07-09                    |   |   |      |  |  |  |
|          |     |      | Client Sample Identification : 6035 Flewellyn |   |   |      |  |  |  |
| Anions   | RL  | Unit | Criteria                                      |   |   |      |  |  |  |
|          |     |      | A                                             | B | C |      |  |  |  |
| Chloride | 0.5 | mg/L | 250                                           |   |   | 58.5 |  |  |  |
| Sulphate | 1   | mg/L | 500                                           |   |   | 42   |  |  |  |

|                            |     |      | Eurofins Sample No : <b>9869170</b>           |  |  |  |  |  |  |
|----------------------------|-----|------|-----------------------------------------------|--|--|--|--|--|--|
|                            |     |      | Matrix : Groundwater                          |  |  |  |  |  |  |
|                            |     |      | Sampling Date : 2026-07-09                    |  |  |  |  |  |  |
|                            |     |      | Client Sample Identification : 6035 Flewellyn |  |  |  |  |  |  |
| Calculations               | RL  | Unit |                                               |  |  |  |  |  |  |
| Ion Balance (Calculation)^ | 0.1 |      | 0.99                                          |  |  |  |  |  |  |

|                                 |       |       | Eurofins Sample No : <b>9869170</b>           |   |   |        |  |  |  |
|---------------------------------|-------|-------|-----------------------------------------------|---|---|--------|--|--|--|
|                                 |       |       | Matrix : Groundwater                          |   |   |        |  |  |  |
|                                 |       |       | Sampling Date : 2026-07-09                    |   |   |        |  |  |  |
|                                 |       |       | Client Sample Identification : 6035 Flewellyn |   |   |        |  |  |  |
| General Chemistry               | RL    | Unit  | Criteria                                      |   |   |        |  |  |  |
|                                 |       |       | A                                             | B | C |        |  |  |  |
| Alkalinity (as CaCO3)           | 5     | mg/L  | 500                                           |   |   | 344    |  |  |  |
| Colour (Apparent)               | 2     | TCU   | 5                                             |   |   | 10     |  |  |  |
| Colour (True)                   | 2     | TCU   |                                               |   |   | 4      |  |  |  |
| Conductivity @ 25°C             | 5     | µS/cm |                                               |   |   | 812    |  |  |  |
| Dissolved Organic Carbon        | 0.5   | mg/L  | 5                                             |   |   | 3.1    |  |  |  |
| Fluoride                        | 0.1   | mg/L  | 1.5                                           |   |   | 0.25   |  |  |  |
| Hardness as CaCO3 (Calculation) | 1     | mg/L  | 80-100                                        |   |   | 349    |  |  |  |
| pH @ 25°C                       | 1     |       | 6.5-8.5                                       |   |   | 7.42   |  |  |  |
| Phenols-4AAP                    | 0.001 | mg/L  |                                               |   |   | <0.001 |  |  |  |
| Sulphide (S2-)                  | 0.01  | mg/L  | 0.05                                          |   |   | <0.01  |  |  |  |
| Tannin and Lignin               | 0.1   | mg/L  |                                               |   |   | <0.1   |  |  |  |
| TDS (Estimated)^                | 5     | mg/L  | 500                                           |   |   | 528    |  |  |  |
| Turbidity                       | 0.1   | NTU   | 5                                             |   |   | 1.5    |  |  |  |

## OFFICIAL CERTIFICATE OF ANALYSIS - RESULTS

Client : Paterson Group  
Project : PH5222

Reception Date: 2026-07-10

|                                |        |      |          |   |   |                   |  |  |  |  |
|--------------------------------|--------|------|----------|---|---|-------------------|--|--|--|--|
| Eurofins Sample No :           |        |      |          |   |   | 9869170           |  |  |  |  |
| Matrix :                       |        |      |          |   |   | Groundwater       |  |  |  |  |
| Sampling Date :                |        |      |          |   |   | 2026-07-09        |  |  |  |  |
| Client Sample Identification : |        |      |          |   |   | 6035<br>Flewellyn |  |  |  |  |
| Metals                         | RL     | Unit | Criteria |   |   |                   |  |  |  |  |
|                                |        |      | A        | B | C |                   |  |  |  |  |
| Metals Scan (Water, ICP/MS)    |        |      |          |   |   |                   |  |  |  |  |
| Aluminum                       | 0.01   | mg/L | 0.1      |   |   | <0.01             |  |  |  |  |
| Antimony                       | 0.0005 | mg/L | 0.006    |   |   | <0.0005           |  |  |  |  |
| Arsenic                        | 0.001  | mg/L | 0.01     |   |   | <0.001            |  |  |  |  |
| Barium                         | 0.001  | mg/L | 1        |   |   | 0.160             |  |  |  |  |
| Beryllium                      | 0.0005 | mg/L |          |   |   | <0.0005           |  |  |  |  |
| Boron                          | 0.01   | mg/L | 5        |   |   | 0.15              |  |  |  |  |
| Cadmium                        | 0.0001 | mg/L | 0.005    |   |   | <0.0001           |  |  |  |  |
| Chromium                       | 0.001  | mg/L | 0.05     |   |   | <0.001            |  |  |  |  |
| Cobalt                         | 0.0002 | mg/L |          |   |   | <0.0002           |  |  |  |  |
| Copper                         | 0.001  | mg/L | 1        |   |   | 0.002             |  |  |  |  |
| Iron                           | 0.03   | mg/L | 0.3      |   |   | 0.59              |  |  |  |  |
| Lead                           | 0.001  | mg/L | 0.01     |   |   | <0.001            |  |  |  |  |
| Manganese                      | 0.01   | mg/L | 0.05     |   |   | 0.03              |  |  |  |  |
| Mercury                        | 0.0001 | mg/L | 0.001    |   |   | <0.0001           |  |  |  |  |
| Molybdenum                     | 0.005  | mg/L |          |   |   | <0.005            |  |  |  |  |
| Nickel                         | 0.005  | mg/L |          |   |   | <0.005            |  |  |  |  |
| Selenium                       | 0.001  | mg/L | 0.05     |   |   | <0.001            |  |  |  |  |
| Silver                         | 0.0001 | mg/L |          |   |   | <0.0001           |  |  |  |  |
| Strontium                      | 0.001  | mg/L |          |   |   | 7.86              |  |  |  |  |
| Thallium                       | 0.0001 | mg/L |          |   |   | <0.0001           |  |  |  |  |
| Uranium                        | 0.001  | mg/L | 0.02     |   |   | <0.001            |  |  |  |  |
| Vanadium                       | 0.001  | mg/L |          |   |   | <0.001            |  |  |  |  |
| Zinc                           | 0.01   | mg/L | 5        |   |   | <0.01             |  |  |  |  |
| Metals Scan (Water, ICP/OES)   |        |      |          |   |   |                   |  |  |  |  |
| Calcium                        | 1      | mg/L |          |   |   | 97                |  |  |  |  |
| Magnesium                      | 1      | mg/L |          |   |   | 26                |  |  |  |  |
| Potassium                      | 1      | mg/L |          |   |   | 3                 |  |  |  |  |
| Sodium                         | 1      | mg/L | 200      |   |   | 52                |  |  |  |  |

|                                |    |           |          |   |   |                   |  |  |  |  |
|--------------------------------|----|-----------|----------|---|---|-------------------|--|--|--|--|
| Eurofins Sample No :           |    |           |          |   |   | 9869170           |  |  |  |  |
| Matrix :                       |    |           |          |   |   | Groundwater       |  |  |  |  |
| Sampling Date :                |    |           |          |   |   | 2026-07-09        |  |  |  |  |
| Client Sample Identification : |    |           |          |   |   | 6035<br>Flewellyn |  |  |  |  |
| Microbiology                   | RL | Unit      | Criteria |   |   |                   |  |  |  |  |
|                                |    |           | A        | B | C |                   |  |  |  |  |
| Escherichia coli (DC)          | 0  | CFU/100mL | 0        |   |   | 0                 |  |  |  |  |
| Total Coliforms (DC)           | 0  | CFU/100mL | 0        |   |   | 3                 |  |  |  |  |

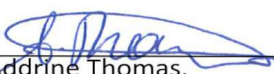
## OFFICIAL CERTIFICATE OF ANALYSIS - RESULTS

Client : Paterson Group  
Project : PH5222

Reception Date: 2026-07-10

|                              |      |      | Eurofins Sample No : <b>9869170</b>              |   |   |       |  |  |  |
|------------------------------|------|------|--------------------------------------------------|---|---|-------|--|--|--|
|                              |      |      | Matrix : Groundwater                             |   |   |       |  |  |  |
|                              |      |      | Sampling Date : 2026-07-09                       |   |   |       |  |  |  |
|                              |      |      | Client Sample Identification : 6035<br>Flewellyn |   |   |       |  |  |  |
| Nutrients                    | RL   | Unit | Criteria                                         |   |   |       |  |  |  |
|                              |      |      | A                                                | B | C |       |  |  |  |
| Ammonia (Total, as Nitrogen) | 0.02 | mg/L |                                                  |   |   | 0.061 |  |  |  |
| Nitrate (as Nitrogen)        | 0.1  | mg/L | 10.0                                             |   |   | <0.5  |  |  |  |
| Nitrite (as Nitrogen)        | 0.1  | mg/L | 1.0                                              |   |   | <0.5  |  |  |  |
| Total Kjeldahl Nitrogen      | 0.1  | mg/L |                                                  |   |   | 0.201 |  |  |  |

Approved by :

  
Addrine Thomas,  
Chemistry Manager, Ottawa

Approved by :

  
Emma-Dawn Ferguson, M.Sc.  
Environmental Chemist

## OFFICIAL CERTIFICATE OF ANALYSIS - QUALITY CONTROL

Client : Paterson Group

Project : PH5222

Reception Date: 2026-07-10

| Parameter                                                                                        | Unit      | RL   | Blank  | QC         |         | Matrix Spike |         | Duplicate                                          |         |
|--------------------------------------------------------------------------------------------------|-----------|------|--------|------------|---------|--------------|---------|----------------------------------------------------|---------|
|                                                                                                  |           |      |        | Recovery % | Range % | Recovery %   | Range % | RPD %                                              | Range % |
| Ammonia, Total (Water, Colorimetry)                                                              |           |      |        |            |         |              |         |                                                    |         |
| Method : Ammonia (Water, Colorimetry). Internal method: OTT-I-NUT-WI46201.                       |           |      |        |            |         |              |         |                                                    |         |
| Ammonia (Total, as Nitrogen)                                                                     | mg/L      | 0.02 | <0.020 | 97         | 80-120  | 103          | 80-120  | -                                                  | 0-20    |
| Associated Samples : 9869170                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-14<br>Analysis Date: 2026-07-14 |         |
| Chloride (Water, IC)                                                                             |           |      |        |            |         |              |         |                                                    |         |
| Method : Anions (Water, Ion Chromatography). Internal method: OTT-I-IC-WI45985.                  |           |      |        |            |         |              |         |                                                    |         |
| Chloride                                                                                         | mg/L      | 0.5  | <0.5   | 95         | 80-120  | 109          | 80-120  | 2                                                  | 0-20    |
| Associated Samples : 9869170                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-13<br>Analysis Date: 2026-07-14 |         |
| Colour, Apparent (Water, Spectrophotometry)                                                      |           |      |        |            |         |              |         |                                                    |         |
| Method : Colour (Water, Spectrophotometric). Internal method: OTT-I-SPEC-WI45980.                |           |      |        |            |         |              |         |                                                    |         |
| Colour (Apparent)                                                                                | TCU       | 2    | <2     | 102        | 78-116  |              |         | 4                                                  | 0-40    |
| Associated Samples : 9869170                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-14<br>Analysis Date: 2026-07-15 |         |
| Colour, True (Water, Spectrophotometry)                                                          |           |      |        |            |         |              |         |                                                    |         |
| Method : Colour (Water, Spectrophotometric). Internal method: OTT-I-SPEC-WI45980.                |           |      |        |            |         |              |         |                                                    |         |
| Colour (True)                                                                                    | TCU       | 2    | <2     | 102        | 78-116  |              |         | -                                                  | 0-40    |
| Associated Samples : 9869170                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-14<br>Analysis Date: 2026-07-15 |         |
| DOC (Water, IR)                                                                                  |           |      |        |            |         |              |         |                                                    |         |
| Method : Organic carbon (water, IR, combustion). Internal method: OTT-I-DEM-WI46148.             |           |      |        |            |         |              |         |                                                    |         |
| Dissolved Organic Carbon                                                                         | mg/L      | 0.5  | <0.5   | 98         | 88-112  | 96           | 85-115  | 7                                                  | 0-15    |
| Associated Samples : 9869170                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-13<br>Analysis Date: 2026-07-14 |         |
| Escherichia coli (DC Plate)                                                                      |           |      |        |            |         |              |         |                                                    |         |
| Method : Total Coliforms and E.Coli by MF (Water, DC plate). Internal method: OTT-M-BAC-WI45296. |           |      |        |            |         |              |         |                                                    |         |
| Escherichia coli (DC)                                                                            | CFU/100mL | 0    | 0      |            |         |              |         | -                                                  | 0-30    |
| Associated Samples : 9869170                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-10<br>Analysis Date: 2026-07-11 |         |
| Fluoride (Water, Auto/ISE)                                                                       |           |      |        |            |         |              |         |                                                    |         |
| Method : Fluoride by autotitrator, ion selective electrode. Internal method: OTT-I-AT-WI45398.   |           |      |        |            |         |              |         |                                                    |         |
| Fluoride                                                                                         | mg/L      | 0.1  | <0.10  | 104        | 90-110  | 102          | 80-120  | -                                                  | 0-20    |
| Associated Samples : 9869170                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-10<br>Analysis Date: 2026-07-13 |         |

## OFFICIAL CERTIFICATE OF ANALYSIS - QUALITY CONTROL

Client : Paterson Group

Project : PH5222

Reception Date: 2026-07-10

| Parameter                                                                       | Unit | RL     | Blank   | QC         |         | Matrix Spike |         | Duplicate                                          |         |
|---------------------------------------------------------------------------------|------|--------|---------|------------|---------|--------------|---------|----------------------------------------------------|---------|
|                                                                                 |      |        |         | Recovery % | Range % | Recovery %   | Range % | RPD %                                              | Range % |
| Metals Scan (Water, ICP/MS)                                                     |      |        |         |            |         |              |         |                                                    |         |
| Method : Metals (Water, ICP/MS). Internal method: AMMTFQE1.                     |      |        |         |            |         |              |         |                                                    |         |
| Aluminum                                                                        | mg/L | 0.01   | <0.01   | 100        | 80-120  | 103          | 70-130  | -                                                  | 0-20    |
| Antimony                                                                        | mg/L | 0.0005 | <0.0005 | 83         | 80-120  | 102          | 70-130  | -                                                  | 0-20    |
| Arsenic                                                                         | mg/L | 0.001  | <0.001  | 99         | 80-120  | 97           | 70-130  | -                                                  | 0-20    |
| Barium                                                                          | mg/L | 0.001  | <0.001  | 100        | 80-120  | 98           | 70-130  | 0                                                  | 0-20    |
| Beryllium                                                                       | mg/L | 0.0005 | <0.0005 | 108        | 80-120  | 97           | 70-130  | -                                                  | 0-20    |
| Boron                                                                           | mg/L | 0.01   | <0.01   | 100        | 80-120  | 94           | 70-130  | -                                                  | 0-20    |
| Cadmium                                                                         | mg/L | 0.0001 | <0.0001 | 101        | 80-120  | 96           | 70-130  | -                                                  | 0-20    |
| Chromium                                                                        | mg/L | 0.001  | <0.001  | 110        | 80-120  | 97           | 70-130  | -                                                  | 0-20    |
| Cobalt                                                                          | mg/L | 0.0002 | <0.0002 | 104        | 80-120  | 90           | 70-130  | -                                                  | 0-20    |
| Copper                                                                          | mg/L | 0.001  | <0.001  | 110        | 80-120  | 91           | 70-130  | -                                                  | 0-20    |
| Iron                                                                            | mg/L | 0.03   | <0.03   | 100        | 80-120  | 92           | 70-130  | -                                                  | 0-20    |
| Lead                                                                            | mg/L | 0.001  | <0.001  | 100        | 80-120  | 85           | 70-130  | -                                                  | 0-20    |
| Manganese                                                                       | mg/L | 0.01   | <0.01   | 100        | 80-120  | 93           | 70-130  | -                                                  | 0-20    |
| Mercury                                                                         | mg/L | 0.0001 | <0.0001 | 91         | 80-120  | 80           | 70-130  | -                                                  | 0-20    |
| Molybdenum                                                                      | mg/L | 0.005  | <0.005  | 100        | 80-120  | 93           | 70-130  | -                                                  | 0-20    |
| Nickel                                                                          | mg/L | 0.005  | <0.005  | 110        | 80-120  | 93           | 70-130  | -                                                  | 0-20    |
| Selenium                                                                        | mg/L | 0.001  | <0.001  | 99         | 80-120  | 98           | 70-130  | -                                                  | 0-20    |
| Silver                                                                          | mg/L | 0.0001 | <0.0001 | 107        | 80-120  | 83           | 70-130  | -                                                  | 0-20    |
| Strontium                                                                       | mg/L | 0.001  | <0.001  | 100        | 80-120  | 94           | 70-130  | 1                                                  | 0-20    |
| Thallium                                                                        | mg/L | 0.0001 | <0.0001 | 101        | 80-120  | 85           | 70-130  | -                                                  | 0-20    |
| Uranium                                                                         | mg/L | 0.001  | <0.001  | 100        | 80-120  | 84           | 70-130  | -                                                  | 0-20    |
| Vanadium                                                                        | mg/L | 0.001  | <0.001  | 100        | 80-120  | 98           | 70-130  | -                                                  | 0-20    |
| Zinc                                                                            | mg/L | 0.01   | <0.01   | 110        | 80-120  | 90           | 70-130  | -                                                  | 0-20    |
| Associated Samples : 9869170                                                    |      |        |         |            |         |              |         | Prep Date: 2026-07-13<br>Analysis Date: 2026-07-13 |         |
| Metals Scan (Water, ICP/OES)                                                    |      |        |         |            |         |              |         |                                                    |         |
| Method : Metals (Water, ICP/OES). Internal method: OTT-I-MET-WI48491.           |      |        |         |            |         |              |         |                                                    |         |
| Calcium                                                                         | mg/L | 1      | <1      | 102        | 86-115  | 98           | 70-130  | 0                                                  | 0-20    |
| Magnesium                                                                       | mg/L | 1      | <1      | 100        | 91-109  | 96           | 70-130  | 6                                                  | 0-20    |
| Potassium                                                                       | mg/L | 1      | <1      | 103        | 87-113  | 110          | 70-130  | -                                                  | 0-20    |
| Sodium                                                                          | mg/L | 1      | <1      | 103        | 85-115  | 102          | 70-130  | -                                                  | 0-20    |
| Associated Samples : 9869170                                                    |      |        |         |            |         |              |         | Prep Date: 2026-07-15<br>Analysis Date: 2026-07-10 |         |
| Nitrate (Water, IC)                                                             |      |        |         |            |         |              |         |                                                    |         |
| Method : Anions (Water, Ion Chromatography). Internal method: OTT-I-IC-WI45985. |      |        |         |            |         |              |         |                                                    |         |
| Nitrate (as Nitrogen)                                                           | mg/L | 0.1    | <0.1    | 100        | 80-120  | 101          | 80-120  | 3                                                  | 0-20    |
| Associated Samples : 9869170                                                    |      |        |         |            |         |              |         | Prep Date: 2026-07-13<br>Analysis Date: 2026-07-14 |         |
| Nitrite (Water, IC)                                                             |      |        |         |            |         |              |         |                                                    |         |
| Method : Anions (Water, Ion Chromatography). Internal method: OTT-I-IC-WI45985. |      |        |         |            |         |              |         |                                                    |         |
| Nitrite (as Nitrogen)                                                           | mg/L | 0.1    | <0.1    | 99         | 80-120  | 103          | 80-120  | -                                                  | 0-20    |
| Associated Samples : 9869170                                                    |      |        |         |            |         |              |         | Prep Date: 2026-07-13<br>Analysis Date: 2026-07-14 |         |
| Phenols (Water, Colorimetry)                                                    |      |        |         |            |         |              |         |                                                    |         |
| Method : Phenols (Water, Colorimetry). Internal method: OTT-I-4AAP-WI46150.     |      |        |         |            |         |              |         |                                                    |         |
| Phenols-4AAP                                                                    | mg/L | 0.001  | <0.001  | 101        | 75-125  | 78           | 70-130  | 4                                                  | 0-20    |
| Associated Samples : 9869170                                                    |      |        |         |            |         |              |         | Prep Date: 2026-07-13<br>Analysis Date: 2026-07-13 |         |

## OFFICIAL CERTIFICATE OF ANALYSIS - QUALITY CONTROL

Client : Paterson Group

Project : PH5222

Reception Date: 2026-07-10

| Parameter                                                                                        | Unit      | RL   | Blank  | QC         |         | Matrix Spike |         | Duplicate                                          |         |
|--------------------------------------------------------------------------------------------------|-----------|------|--------|------------|---------|--------------|---------|----------------------------------------------------|---------|
|                                                                                                  |           |      |        | Recovery % | Range % | Recovery %   | Range % | RPD %                                              | Range % |
| Sulphate (Water, IC)                                                                             |           |      |        |            |         |              |         |                                                    |         |
| Method : Anions (Water, Ion Chromatography). Internal method: OTT-I-IC-WI45985.                  |           |      |        |            |         |              |         |                                                    |         |
| Sulphate                                                                                         | mg/L      | 1    | <1     | 101        | 90-110  | 108          | 80-120  | 0                                                  | 0-20    |
| Associated Samples : 9869170                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-13<br>Analysis Date: 2026-07-14 |         |
| Sulphide (Water, Colorimetry)                                                                    |           |      |        |            |         |              |         |                                                    |         |
| Method : Sulphide, S2- (Water, Colorimetry). Internal method: OTT-I-SPEC-WI45931.                |           |      |        |            |         |              |         |                                                    |         |
| Sulphide (S2-)                                                                                   | mg/L      | 0.01 | <0.01  | 66         | 48-131  |              |         | -                                                  | 0-20    |
| Associated Samples : 9869170                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-14<br>Analysis Date: 2026-07-14 |         |
| Tannin and Lignin (Water, Spec)                                                                  |           |      |        |            |         |              |         |                                                    |         |
| Method : Tannin and Lignin (Water, Spec), Internal method: OTT-I-SPEC-WI57693.                   |           |      |        |            |         |              |         |                                                    |         |
| Tannin and Lignin                                                                                | mg/L      | 0.1  | <0.1   | 100        | 80-120  |              |         | -                                                  | 0-20    |
| Associated Samples : 9869170                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-14<br>Analysis Date: 2026-07-14 |         |
| Total Coliforms (DC Plate)                                                                       |           |      |        |            |         |              |         |                                                    |         |
| Method : Total Coliforms and E.Coli by MF (Water, DC plate). Internal method: OTT-M-BAC-WI45296. |           |      |        |            |         |              |         |                                                    |         |
| Total Coliforms (DC)                                                                             | CFU/100mL | 0    | 0      |            |         |              |         | -                                                  | 0-30    |
| Associated Samples : 9869170                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-10<br>Analysis Date: 2026-07-11 |         |
| Total Kjeldahl Nitrogen (Water, Colorimetry)                                                     |           |      |        |            |         |              |         |                                                    |         |
| Method : TKN (Water, colorimetry). Internal method: OTT-I-NUT-WI46201.                           |           |      |        |            |         |              |         |                                                    |         |
| Total Kjeldahl Nitrogen                                                                          | mg/L      | 0.1  | <0.100 | 101        | 70-130  | 106          | 70-130  | -                                                  | 0-20    |
| Associated Samples : 9869170                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-13<br>Analysis Date: 2026-07-14 |         |
| Turbidity (Water, Turbidimeter)                                                                  |           |      |        |            |         |              |         |                                                    |         |
| Method : Turbidity (Water, Turbidimeter). Internal method: OTT-I-TUR-WI46288.                    |           |      |        |            |         |              |         |                                                    |         |
| Turbidity                                                                                        | NTU       | 0.1  | <0.1   | 95         | 80-120  |              |         | -                                                  | 0-30    |
| Associated Samples : 9869170                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-10<br>Analysis Date: 2026-07-10 |         |

Where RPD % is reported as "-" the calculation is not available because one or both of the duplicates is within 5 times the RL.

Copies: White - Laboratory, Yellow - Samples

**OFFICIAL CERTIFICATE OF ANALYSIS : 4766640**
**WORK REQUEST : 100451251**
**Report Date : 2026-07-22**
**Paterson Group**

9 Auriga Drive  
Ottawa, Ontario  
K2J 5Z9  
Attention : Zavian Buchanan

Reception Date : 2026-07-16

Project : PH5222

Sampler : NA

PO Number : 66472

Temperature : 9 °C

| Analysis                                     | Quantity | External Method                        |
|----------------------------------------------|----------|----------------------------------------|
| Alkalinity (Water, Automated)                | 1        | Modified from SM 2320 B                |
| Ammonia, Total (Water, Colorimetry)          | 1        | Modified from EPA 350.1                |
| Chloride (Water, IC)                         | 1        | Modified from SM 4110 B and C          |
| Colour, Apparent (Water, Spectrophotometry)  | 1        | Modified from SM 2120 C                |
| Colour, True (Water, Spectrophotometry)      | 1        | Modified from SM 2120 C                |
| Conductivity (Water, Automated)              | 1        | Modified from SM 2510 B                |
| DOC (Water, IR)                              | 1        | Modified from SM 5310 B                |
| Escherichia coli (DC Plate)                  | 1        | Modified from MECP E3407               |
| Fluoride (Water, Auto/ISE)                   | 1        | Modified from SM 4500-F A and 4500-F C |
| Hardness (Water, Calculation Only)           | 1        | SM 2340 B                              |
| Ion Balance (Water, Calculation)             | 1        | Modified from SM1030 E                 |
| Metals Scan (Water, ICP/MS)                  | 1        | Modified from EPA 200.8                |
| Metals Scan (Water, ICP/OES)                 | 1        | Modified from SM 3120 B                |
| Nitrate (Water, IC)                          | 1        | Modified from SM 4110 B and C          |
| Nitrite (Water, IC)                          | 1        | Modified from SM 4110 B and C          |
| pH (25°C) (Water, Automated)                 | 1        | Modified from SM 4500-H+ B             |
| Phenols (Water, Colorimetry)                 | 1        | Modified from EPA 420.2                |
| Sulphate (Water, IC)                         | 1        | Modified from SM 4110 B and C          |
| Sulphide (Water, Colorimetry)                | 1        | Modified from SM 4500-S2 D             |
| Tannin and Lignin (Water, Spec)              | 1        | Modified from SM 5550 B                |
| TDS (Estimated)                              | 1        | Modified from SM 2510 A                |
| Total Coliforms (DC Plate)                   | 1        | Modified from MECP E3407               |
| Total Kjeldahl Nitrogen (Water, Colorimetry) | 1        | Modified from EPA 351.2                |
| Turbidity (Water, Turbidimeter)              | 1        | Modified from SM 2130 B                |

**Criteria :**
**A :** Ontario Regulation 169/03 (Non-Regulated Drinking Water)

**Sample status upon receipt :**

9894184

**Compliant**
**Certificate Comments :**

9894184

**S2-, N-NO3 and N-NO2 MRLs increased due to matrix interference.**
**Notes :**

- All analysis is completed at Eurofins Environment Testing Canada Inc. (Ottawa, Ontario) unless otherwise stated.
- Eurofins Environment Testing Canada Inc. is accredited by CALA, Canadian Association for Laboratory Accreditation to ISO/IEC 17025 for tests which appear on the scope of accreditation. The scope is available at <https://directory.cala.ca/>
- Please note: Field data, where presented on the report, has been provided by the client and is presented for informational purposes only. Guideline or regulatory limits listed on this report are provided for ease of use (informational purposes) only. Eurofins recommends consulting the official guideline or regulation as required. Unless otherwise stated, measurement uncertainty is not taken into account when determining guideline or regulatory exceedances.

**Legend :**

RL : Reporting limit

N/A : Not applicable

\* : Analysis conducted by external subcontracting

QC : Reference material (QC)

1 : Results in annex

^ : Analysis not accredited

## OFFICIAL CERTIFICATE OF ANALYSIS - EXCEEDENCE SUMMARY

Client : Paterson Group

Project : PH5222

Reception Date : 2026-07-16

| Eurofins<br>Sample No                       | Client Sample<br>Identification | Analyte                         | Result | Units | Exceeded Criteria |   |   |
|---------------------------------------------|---------------------------------|---------------------------------|--------|-------|-------------------|---|---|
|                                             |                                 |                                 |        |       | A                 | B | C |
| Colour, Apparent (Water, Spectrophotometry) |                                 |                                 |        |       |                   |   |   |
| 9894184                                     | 6140 Flewellyn                  | Colour (Apparent)               | 8      | TCU   | 5                 |   |   |
| Hardness (Water, Calculation Only)          |                                 |                                 |        |       |                   |   |   |
| 9894184                                     | 6140 Flewellyn                  | Hardness as CaCO3 (Calculation) | 467    | mg/L  | 80-100            |   |   |
| Metals Scan (Water, ICP/MS)                 |                                 |                                 |        |       |                   |   |   |
| 9894184                                     | 6140 Flewellyn                  | Iron                            | 0.68   | mg/L  | 0.3               |   |   |
| TDS (Estimated)                             |                                 |                                 |        |       |                   |   |   |
| 9894184                                     | 6140 Flewellyn                  | TDS (Estimated)^                | 787    | mg/L  | 500               |   |   |

**OFFICIAL CERTIFICATE OF ANALYSIS - RESULTS**

Client : Paterson Group  
Project : PH5222

Reception Date: 2026-07-16

| Eurofins Sample No : <b>9894184</b>           |     |      |          |   |   |      |  |  |
|-----------------------------------------------|-----|------|----------|---|---|------|--|--|
| Matrix : Groundwater                          |     |      |          |   |   |      |  |  |
| Sampling Date : 2026-07-16                    |     |      |          |   |   |      |  |  |
| Client Sample Identification : 6140 Flewellyn |     |      |          |   |   |      |  |  |
| Anions                                        | RL  | Unit | Criteria |   |   |      |  |  |
|                                               |     |      | A        | B | C |      |  |  |
| Chloride                                      | 0.5 | mg/L | 250      |   |   | 161  |  |  |
| Fluoride                                      | 0.1 | mg/L | 1.5      |   |   | 0.18 |  |  |
| Sulphate                                      | 1   | mg/L | 500      |   |   | 92   |  |  |

| Eurofins Sample No : <b>9894184</b>           |     |      |      |   |   |  |  |  |
|-----------------------------------------------|-----|------|------|---|---|--|--|--|
| Matrix : Groundwater                          |     |      |      |   |   |  |  |  |
| Sampling Date : 2026-07-16                    |     |      |      |   |   |  |  |  |
| Client Sample Identification : 6140 Flewellyn |     |      |      |   |   |  |  |  |
| Calculations                                  | RL  | Unit |      |   |   |  |  |  |
|                                               |     |      | A    | B | C |  |  |  |
| Ion Balance (Calculation)^                    | 0.1 |      | 1.03 |   |   |  |  |  |

| Eurofins Sample No : <b>9894184</b>           |       |       |          |   |   |        |  |  |
|-----------------------------------------------|-------|-------|----------|---|---|--------|--|--|
| Matrix : Groundwater                          |       |       |          |   |   |        |  |  |
| Sampling Date : 2026-07-16                    |       |       |          |   |   |        |  |  |
| Client Sample Identification : 6140 Flewellyn |       |       |          |   |   |        |  |  |
| General Chemistry                             | RL    | Unit  | Criteria |   |   |        |  |  |
|                                               |       |       | A        | B | C |        |  |  |
| Alkalinity (as CaCO3)                         | 5     | mg/L  | 500      |   |   | 298    |  |  |
| Colour (Apparent)                             | 2     | TCU   | 5        |   |   | 8      |  |  |
| Colour (True)                                 | 2     | TCU   |          |   |   | 3      |  |  |
| Conductivity @ 25°C                           | 5     | µS/cm |          |   |   | 1210   |  |  |
| Dissolved Organic Carbon                      | 0.5   | mg/L  | 5        |   |   | 1.5    |  |  |
| Hardness as CaCO3 (Calculation)               | 1     | mg/L  | 80-100   |   |   | 467    |  |  |
| pH @ 25°C                                     | 1     |       | 6.5-8.5  |   |   | 7.31   |  |  |
| Phenols-4AAP                                  | 0.001 | mg/L  |          |   |   | <0.001 |  |  |
| Sulphide (S2-)                                | 0.01  | mg/L  | 0.05     |   |   | <0.02  |  |  |
| Tannin and Lignin                             | 0.1   | mg/L  |          |   |   | 0.2    |  |  |
| TDS (Estimated)^                              | 5     | mg/L  | 500      |   |   | 787    |  |  |
| Turbidity                                     | 0.1   | NTU   | 5        |   |   | 2.9    |  |  |

## OFFICIAL CERTIFICATE OF ANALYSIS - RESULTS

Client : Paterson Group  
Project : PH5222

Reception Date: 2026-07-16

|                                |        |      |          |   |   |                   |  |  |  |  |
|--------------------------------|--------|------|----------|---|---|-------------------|--|--|--|--|
| Eurofins Sample No :           |        |      |          |   |   | 9894184           |  |  |  |  |
| Matrix :                       |        |      |          |   |   | Groundwater       |  |  |  |  |
| Sampling Date :                |        |      |          |   |   | 2026-07-16        |  |  |  |  |
| Client Sample Identification : |        |      |          |   |   | 6140<br>Flewellyn |  |  |  |  |
| Metals                         | RL     | Unit | Criteria |   |   |                   |  |  |  |  |
|                                |        |      | A        | B | C |                   |  |  |  |  |
| Metals Scan (Water, ICP/MS)    |        |      |          |   |   |                   |  |  |  |  |
| Aluminum                       | 0.01   | mg/L | 0.1      |   |   | <0.01             |  |  |  |  |
| Antimony                       | 0.0005 | mg/L | 0.006    |   |   | <0.0005           |  |  |  |  |
| Arsenic                        | 0.001  | mg/L | 0.01     |   |   | <0.001            |  |  |  |  |
| Barium                         | 0.001  | mg/L | 1        |   |   | 0.227             |  |  |  |  |
| Beryllium                      | 0.0005 | mg/L |          |   |   | <0.0005           |  |  |  |  |
| Boron                          | 0.01   | mg/L | 5        |   |   | 0.12              |  |  |  |  |
| Cadmium                        | 0.0001 | mg/L | 0.005    |   |   | <0.0001           |  |  |  |  |
| Chromium                       | 0.001  | mg/L | 0.05     |   |   | <0.001            |  |  |  |  |
| Cobalt                         | 0.0002 | mg/L |          |   |   | <0.0002           |  |  |  |  |
| Copper                         | 0.001  | mg/L | 1        |   |   | 0.002             |  |  |  |  |
| Iron                           | 0.03   | mg/L | 0.3      |   |   | 0.68              |  |  |  |  |
| Lead                           | 0.001  | mg/L | 0.01     |   |   | <0.001            |  |  |  |  |
| Manganese                      | 0.01   | mg/L | 0.05     |   |   | 0.02              |  |  |  |  |
| Mercury                        | 0.0001 | mg/L | 0.001    |   |   | <0.0001           |  |  |  |  |
| Molybdenum                     | 0.005  | mg/L |          |   |   | <0.005            |  |  |  |  |
| Nickel                         | 0.005  | mg/L |          |   |   | <0.005            |  |  |  |  |
| Selenium                       | 0.001  | mg/L | 0.05     |   |   | <0.001            |  |  |  |  |
| Silver                         | 0.0001 | mg/L |          |   |   | <0.0001           |  |  |  |  |
| Strontium                      | 0.001  | mg/L |          |   |   | 7.82              |  |  |  |  |
| Thallium                       | 0.0001 | mg/L |          |   |   | <0.0001           |  |  |  |  |
| Uranium                        | 0.001  | mg/L | 0.02     |   |   | <0.001            |  |  |  |  |
| Vanadium                       | 0.001  | mg/L |          |   |   | <0.001            |  |  |  |  |
| Zinc                           | 0.01   | mg/L | 5        |   |   | <0.01             |  |  |  |  |
| Metals Scan (Water, ICP/OES)   |        |      |          |   |   |                   |  |  |  |  |
| Calcium                        | 1      | mg/L |          |   |   | 131               |  |  |  |  |
| Magnesium                      | 1      | mg/L |          |   |   | 34                |  |  |  |  |
| Potassium                      | 1      | mg/L |          |   |   | 4                 |  |  |  |  |
| Sodium                         | 1      | mg/L | 200      |   |   | 76                |  |  |  |  |

|                                |    |           |          |   |   |                   |  |  |  |  |
|--------------------------------|----|-----------|----------|---|---|-------------------|--|--|--|--|
| Eurofins Sample No :           |    |           |          |   |   | 9894184           |  |  |  |  |
| Matrix :                       |    |           |          |   |   | Groundwater       |  |  |  |  |
| Sampling Date :                |    |           |          |   |   | 2026-07-16        |  |  |  |  |
| Client Sample Identification : |    |           |          |   |   | 6140<br>Flewellyn |  |  |  |  |
| Microbiology                   | RL | Unit      | Criteria |   |   |                   |  |  |  |  |
|                                |    |           | A        | B | C |                   |  |  |  |  |
| Escherichia coli (DC)          | 0  | CFU/100mL | 0        |   |   | 0                 |  |  |  |  |
| Total Coliforms (DC)           | 0  | CFU/100mL | 0        |   |   | 0                 |  |  |  |  |

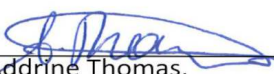
## OFFICIAL CERTIFICATE OF ANALYSIS - RESULTS

Client : Paterson Group  
Project : PH5222

Reception Date: 2026-07-16

|                              |      |      | Eurofins Sample No :           |   |   | 9894184           |  |  |  |  |
|------------------------------|------|------|--------------------------------|---|---|-------------------|--|--|--|--|
|                              |      |      | Matrix :                       |   |   | Groundwater       |  |  |  |  |
|                              |      |      | Sampling Date :                |   |   | 2026-07-16        |  |  |  |  |
|                              |      |      | Client Sample Identification : |   |   | 6140<br>Flewellyn |  |  |  |  |
| Nutrients                    | RL   | Unit | Criteria                       |   |   |                   |  |  |  |  |
|                              |      |      | A                              | B | C |                   |  |  |  |  |
| Ammonia (Total, as Nitrogen) | 0.02 | mg/L |                                |   |   | 0.038             |  |  |  |  |
| Nitrate (as Nitrogen)        | 0.1  | mg/L | 10.0                           |   |   | <0.5              |  |  |  |  |
| Nitrite (as Nitrogen)        | 0.1  | mg/L | 1.0                            |   |   | <0.5              |  |  |  |  |
| Total Kjeldahl Nitrogen      | 0.1  | mg/L |                                |   |   | 0.109             |  |  |  |  |

Approved by :

  
Addrine Thomas,  
Chemistry Manager, Ottawa

Approved by :

  
Emma-Dawn Ferguson, M.Sc.  
Environmental Chemist

## OFFICIAL CERTIFICATE OF ANALYSIS - QUALITY CONTROL

Client : Paterson Group

Project : PH5222

Reception Date: 2026-07-16

| Parameter                                                                                        | Unit      | RL   | Blank  | QC         |         | Matrix Spike |         | Duplicate                                          |         |
|--------------------------------------------------------------------------------------------------|-----------|------|--------|------------|---------|--------------|---------|----------------------------------------------------|---------|
|                                                                                                  |           |      |        | Recovery % | Range % | Recovery %   | Range % | RPD %                                              | Range % |
| Alkalinity (Water, Automated)                                                                    |           |      |        |            |         |              |         |                                                    |         |
| Method : Alkalinity (water, titration to pH 4.5, automated). Internal method: OTT-I-AT-WI45398.  |           |      |        |            |         |              |         |                                                    |         |
| Alkalinity (as CaCO3)                                                                            | mg/L      | 5    | <5     | 101        | 95-105  |              |         | 1                                                  | 0-20    |
| Associated Samples : 9894184                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-20<br>Analysis Date: 2026-07-21 |         |
| Ammonia, Total (Water, Colorimetry)                                                              |           |      |        |            |         |              |         |                                                    |         |
| Method : Ammonia (Water, Colorimetry). Internal method: OTT-I-NUT-WI46201.                       |           |      |        |            |         |              |         |                                                    |         |
| Ammonia (Total, as Nitrogen)                                                                     | mg/L      | 0.02 | <0.020 | 98         | 80-120  | 100          | 80-120  | -                                                  | 0-20    |
| Associated Samples : 9894184                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-20<br>Analysis Date: 2026-07-20 |         |
| Chloride (Water, IC)                                                                             |           |      |        |            |         |              |         |                                                    |         |
| Method : Anions (Water, Ion Chromatography). Internal method: OTT-I-IC-WI45985.                  |           |      |        |            |         |              |         |                                                    |         |
| Chloride                                                                                         | mg/L      | 0.5  | <0.5   | 92         | 80-120  | 103          | 80-120  | 1                                                  | 0-20    |
| Associated Samples : 9894184                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-20<br>Analysis Date: 2026-07-21 |         |
| Colour, Apparent (Water, Spectrophotometry)                                                      |           |      |        |            |         |              |         |                                                    |         |
| Method : Colour (Water, Spectrophotometric). Internal method: OTT-I-SPEC-WI45980.                |           |      |        |            |         |              |         |                                                    |         |
| Colour (Apparent)                                                                                | TCU       | 2    | <2     | 102        | 78-116  |              |         | -                                                  | 0-40    |
| Associated Samples : 9894184                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-22<br>Analysis Date: 2026-07-22 |         |
| Colour, True (Water, Spectrophotometry)                                                          |           |      |        |            |         |              |         |                                                    |         |
| Method : Colour (Water, Spectrophotometric). Internal method: OTT-I-SPEC-WI45980.                |           |      |        |            |         |              |         |                                                    |         |
| Colour (True)                                                                                    | TCU       | 2    | <2     | 102        | 78-116  |              |         | -                                                  | 0-40    |
| Associated Samples : 9894184                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-22<br>Analysis Date: 2026-07-22 |         |
| Conductivity (Water, Automated)                                                                  |           |      |        |            |         |              |         |                                                    |         |
| Method : Conductivity (Water, Autotitrator). Internal Method: OTT-I-AT-WI45398.                  |           |      |        |            |         |              |         |                                                    |         |
| Conductivity @ 25°C                                                                              | uS/cm     | 5    | <5     | 102        | 98-102  |              |         | 0                                                  | 0-20    |
| Associated Samples : 9894184                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-20<br>Analysis Date: 2026-07-21 |         |
| DOC (Water, IR)                                                                                  |           |      |        |            |         |              |         |                                                    |         |
| Method : Organic carbon (water, IR, combustion). Internal method: OTT-I-DEM-WI46148.             |           |      |        |            |         |              |         |                                                    |         |
| Dissolved Organic Carbon                                                                         | mg/L      | 0.5  | <0.5   | 98         | 88-112  | 101          | 85-115  | 1                                                  | 0-15    |
| Associated Samples : 9894184                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-20<br>Analysis Date: 2026-07-22 |         |
| Escherichia coli (DC Plate)                                                                      |           |      |        |            |         |              |         |                                                    |         |
| Method : Total Coliforms and E.Coli by MF (Water, DC plate). Internal method: OTT-M-BAC-WI45296. |           |      |        |            |         |              |         |                                                    |         |
| Escherichia coli (DC)                                                                            | CFU/100mL | 0    | 0      |            |         |              |         | -                                                  | 0-30    |
| Associated Samples : 9894184                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-16<br>Analysis Date: 2026-07-17 |         |
| Fluoride (Water, Auto/ISE)                                                                       |           |      |        |            |         |              |         |                                                    |         |
| Method : Fluoride by autotitrator, ion selective electrode. Internal method: OTT-I-AT-WI45398.   |           |      |        |            |         |              |         |                                                    |         |
| Fluoride                                                                                         | mg/L      | 0.1  | <0.10  | 99         | 90-110  |              |         | -                                                  | 0-20    |
| Associated Samples : 9894184                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-20<br>Analysis Date: 2026-07-21 |         |

## OFFICIAL CERTIFICATE OF ANALYSIS - QUALITY CONTROL

Client : Paterson Group

Project : PH5222

Reception Date: 2026-07-16

| Parameter                                                                       | Unit | RL     | Blank   | QC         |         | Matrix Spike |         | Duplicate                                          |         |
|---------------------------------------------------------------------------------|------|--------|---------|------------|---------|--------------|---------|----------------------------------------------------|---------|
|                                                                                 |      |        |         | Recovery % | Range % | Recovery %   | Range % | RPD %                                              | Range % |
| Metals Scan (Water, ICP/MS)                                                     |      |        |         |            |         |              |         |                                                    |         |
| Method : Metals (Water, ICP/MS). Internal method: AMMTFQE1.                     |      |        |         |            |         |              |         |                                                    |         |
| Aluminum                                                                        | mg/L | 0.01   | <0.01   | 100        | 80-120  | 96           | 70-130  | -                                                  | 0-20    |
| Antimony                                                                        | mg/L | 0.0005 | <0.0005 | 81         | 80-120  | 78           | 70-130  | -                                                  | 0-20    |
| Arsenic                                                                         | mg/L | 0.001  | <0.001  | 100        | 80-120  | 96           | 70-130  | -                                                  | 0-20    |
| Barium                                                                          | mg/L | 0.001  | <0.001  | 100        | 80-120  | 91           | 70-130  | -                                                  | 0-20    |
| Beryllium                                                                       | mg/L | 0.0005 | <0.0005 | 104        | 80-120  | 99           | 70-130  | -                                                  | 0-20    |
| Boron                                                                           | mg/L | 0.01   | <0.01   | 100        | 80-120  | 90           | 70-130  | -                                                  | 0-20    |
| Cadmium                                                                         | mg/L | 0.0001 | <0.0001 | 102        | 80-120  | 96           | 70-130  | -                                                  | 0-20    |
| Chromium                                                                        | mg/L | 0.001  | <0.001  | 110        | 80-120  | 99           | 70-130  | -                                                  | 0-20    |
| Cobalt                                                                          | mg/L | 0.0002 | <0.0002 | 106        | 80-120  | 98           | 70-130  | -                                                  | 0-20    |
| Copper                                                                          | mg/L | 0.001  | <0.001  | 110        | 80-120  | 101          | 70-130  | -                                                  | 0-20    |
| Iron                                                                            | mg/L | 0.03   | <0.03   | 100        | 80-120  | 94           | 70-130  | -                                                  | 0-20    |
| Lead                                                                            | mg/L | 0.001  | <0.001  | 100        | 80-120  | 96           | 70-130  | -                                                  | 0-20    |
| Manganese                                                                       | mg/L | 0.01   | <0.01   | 100        | 80-120  | 94           | 70-130  | -                                                  | 0-20    |
| Mercury                                                                         | mg/L | 0.0001 | <0.0001 | 95         | 80-120  | 100          | 70-130  | -                                                  | 0-20    |
| Molybdenum                                                                      | mg/L | 0.005  | <0.005  | 100        | 80-120  | 89           | 70-130  | -                                                  | 0-20    |
| Nickel                                                                          | mg/L | 0.005  | <0.005  | 110        | 80-120  | 100          | 70-130  | -                                                  | 0-20    |
| Selenium                                                                        | mg/L | 0.001  | <0.001  | 101        | 80-120  | 99           | 70-130  | -                                                  | 0-20    |
| Silver                                                                          | mg/L | 0.0001 | <0.0001 | 115        | 80-120  | 83           | 70-130  | -                                                  | 0-20    |
| Strontium                                                                       | mg/L | 0.001  | <0.001  | 100        | 80-120  | 91           | 70-130  | -                                                  | 0-20    |
| Thallium                                                                        | mg/L | 0.0001 | <0.0001 | 105        | 80-120  | 97           | 70-130  | -                                                  | 0-20    |
| Uranium                                                                         | mg/L | 0.001  | <0.001  | 100        | 80-120  | 94           | 70-130  | -                                                  | 0-20    |
| Vanadium                                                                        | mg/L | 0.001  | <0.001  | 100        | 80-120  | 96           | 70-130  | -                                                  | 0-20    |
| Zinc                                                                            | mg/L | 0.01   | <0.01   | 110        | 80-120  | 100          | 70-130  | -                                                  | 0-20    |
| Associated Samples : 9894184                                                    |      |        |         |            |         |              |         | Prep Date: 2026-07-17<br>Analysis Date: 2026-07-17 |         |
| Metals Scan (Water, ICP/OES)                                                    |      |        |         |            |         |              |         |                                                    |         |
| Method : Metals (Water, ICP/OES). Internal method: OTT-I-MET-WI48491.           |      |        |         |            |         |              |         |                                                    |         |
| Calcium                                                                         | mg/L | 1      | <1      | 100        | 70-130  | 100          | 70-130  | 1                                                  | 0-20    |
| Magnesium                                                                       | mg/L | 1      | <1      | 100        | 70-130  | 98           | 70-130  | 0                                                  | 0-20    |
| Potassium                                                                       | mg/L | 1      | <1      | 100        | 70-130  | 98           | 70-130  | -                                                  | 0-20    |
| Sodium                                                                          | mg/L | 1      | <1      | 100        | 70-130  | 104          | 70-130  | 1                                                  | 0-20    |
| Associated Samples : 9894184                                                    |      |        |         |            |         |              |         | Prep Date: 2026-07-21<br>Analysis Date: 2026-07-16 |         |
| Nitrate (Water, IC)                                                             |      |        |         |            |         |              |         |                                                    |         |
| Method : Anions (Water, Ion Chromatography). Internal method: OTT-I-IC-WI45985. |      |        |         |            |         |              |         |                                                    |         |
| Nitrate (as Nitrogen)                                                           | mg/L | 0.1    | <0.1    | 97         | 80-120  | 95           | 80-120  | -                                                  | 0-20    |
| Associated Samples : 9894184                                                    |      |        |         |            |         |              |         | Prep Date: 2026-07-20<br>Analysis Date: 2026-07-21 |         |
| Nitrite (Water, IC)                                                             |      |        |         |            |         |              |         |                                                    |         |
| Method : Anions (Water, Ion Chromatography). Internal method: OTT-I-IC-WI45985. |      |        |         |            |         |              |         |                                                    |         |
| Nitrite (as Nitrogen)                                                           | mg/L | 0.1    | <0.1    | 93         | 80-120  | 99           | 80-120  | -                                                  | 0-20    |
| Associated Samples : 9894184                                                    |      |        |         |            |         |              |         | Prep Date: 2026-07-20<br>Analysis Date: 2026-07-21 |         |
| pH (25°C) (Water, Automated)                                                    |      |        |         |            |         |              |         |                                                    |         |
| Method : pH (Water, Automated Meter). Internal method: OTT-I-AT-WI45398.        |      |        |         |            |         |              |         |                                                    |         |
| pH @ 25°C                                                                       |      | 1      | 7.39    | 100        | 97-103  |              |         | 0                                                  | 0-20    |
| Associated Samples : 9894184                                                    |      |        |         |            |         |              |         | Prep Date: 2026-07-20<br>Analysis Date: 2026-07-21 |         |

## OFFICIAL CERTIFICATE OF ANALYSIS - QUALITY CONTROL

Client : Paterson Group

Project : PH5222

Reception Date: 2026-07-16

| Parameter                                                                                        | Unit      | RL    | Blank  | QC         |         | Matrix Spike |         | Duplicate                                          |         |
|--------------------------------------------------------------------------------------------------|-----------|-------|--------|------------|---------|--------------|---------|----------------------------------------------------|---------|
|                                                                                                  |           |       |        | Recovery % | Range % | Recovery %   | Range % | RPD %                                              | Range % |
| Phenols (Water, Colorimetry)                                                                     |           |       |        |            |         |              |         |                                                    |         |
| Method : Phenols (Water, Colorimetry). Internal method: OTT-I-4AAP-WI46150.                      |           |       |        |            |         |              |         |                                                    |         |
| Phenols-4AAP                                                                                     | mg/L      | 0.001 | <0.001 | 104        | 80-120  | 88           | 70-130  | -                                                  | 0-20    |
| Associated Samples : 9894184                                                                     |           |       |        |            |         |              |         | Prep Date: 2026-07-17<br>Analysis Date: 2026-07-17 |         |
| Sulphate (Water, IC)                                                                             |           |       |        |            |         |              |         |                                                    |         |
| Method : Anions (Water, Ion Chromatography). Internal method: OTT-I-IC-WI45985.                  |           |       |        |            |         |              |         |                                                    |         |
| Sulphate                                                                                         | mg/L      | 1     | <1     | 90         | 90-110  | 95           | 80-120  | 3                                                  | 0-20    |
| Associated Samples : 9894184                                                                     |           |       |        |            |         |              |         | Prep Date: 2026-07-20<br>Analysis Date: 2026-07-21 |         |
| Sulphide (Water, Colorimetry)                                                                    |           |       |        |            |         |              |         |                                                    |         |
| Method : Sulphide, S2- (Water, Colorimetry). Internal method: OTT-I-SPEC-WI45931.                |           |       |        |            |         |              |         |                                                    |         |
| Sulphide (S2-)                                                                                   | mg/L      | 0.01  | <0.01  | 66         | 48-131  |              |         | -                                                  | 0-20    |
| Associated Samples : 9894184                                                                     |           |       |        |            |         |              |         | Prep Date: 2026-07-21<br>Analysis Date: 2026-07-21 |         |
| Tannin and Lignin (Water, Spec)                                                                  |           |       |        |            |         |              |         |                                                    |         |
| Method : Tannin and Lignin (Water, Spec), Internal method: OTT-I-SPEC-WI57693.                   |           |       |        |            |         |              |         |                                                    |         |
| Tannin and Lignin                                                                                | mg/L      | 0.1   | <0.1   | 96         | 80-120  |              |         | -                                                  | 0-20    |
| Associated Samples : 9894184                                                                     |           |       |        |            |         |              |         | Prep Date: 2026-07-22<br>Analysis Date: 2026-07-22 |         |
| Total Coliforms (DC Plate)                                                                       |           |       |        |            |         |              |         |                                                    |         |
| Method : Total Coliforms and E.Coli by MF (Water, DC plate). Internal method: OTT-M-BAC-WI45296. |           |       |        |            |         |              |         |                                                    |         |
| Total Coliforms (DC)                                                                             | CFU/100mL | 0     | 0      |            |         |              |         | -                                                  | 0-30    |
| Associated Samples : 9894184                                                                     |           |       |        |            |         |              |         | Prep Date: 2026-07-16<br>Analysis Date: 2026-07-17 |         |
| Total Kjeldahl Nitrogen (Water, Colorimetry)                                                     |           |       |        |            |         |              |         |                                                    |         |
| Method : TKN (Water, colorimetry). Internal method: OTT-I-NUT-WI46201.                           |           |       |        |            |         |              |         |                                                    |         |
| Total Kjeldahl Nitrogen                                                                          | mg/L      | 0.1   | <0.100 | 94         | 70-130  | 112          | 70-130  | 2                                                  | 0-20    |
| Associated Samples : 9894184                                                                     |           |       |        |            |         |              |         | Prep Date: 2026-07-20<br>Analysis Date: 2026-07-20 |         |
| Turbidity (Water, Turbidimeter)                                                                  |           |       |        |            |         |              |         |                                                    |         |
| Method : Turbidity (Water, Turbidimeter). Internal method: OTT-I-TUR-WI46288.                    |           |       |        |            |         |              |         |                                                    |         |
| Turbidity                                                                                        | NTU       | 0.1   | <0.1   | 96         | 80-120  |              |         | 1                                                  | 0-30    |
| Associated Samples : 9894184                                                                     |           |       |        |            |         |              |         | Prep Date: 2026-07-17<br>Analysis Date: 2026-07-17 |         |

Where RPD % is reported as "-" the calculation is not available because one or both of the duplicates is within 5 times the RL.



**OFFICIAL CERTIFICATE OF ANALYSIS : 4789072**
**WORK REQUEST : 100454845**
**Report Date : 2026-08-06**
**Paterson Group**

9 Auriga Drive  
Ottawa, Ontario  
K2J 5Z9  
Attention : Zavian Buchanan

Reception Date : 2026-07-30  
Project : PH5222  
Sampler : NA  
PO Number : 66614  
Temperature : 4 °C

| Analysis                                     | Quantity | External Method                        |
|----------------------------------------------|----------|----------------------------------------|
| Alkalinity (Water, Automated)                | 1        | Modified from SM 2320 B                |
| Ammonia, Total (Water, Colorimetry)          | 1        | Modified from EPA 350.1                |
| Chloride (Water, IC)                         | 1        | Modified from SM 4110 B and C          |
| Colour, Apparent (Water, Spectrophotometry)  | 1        | Modified from SM 2120 C                |
| Colour, True (Water, Spectrophotometry)      | 1        | Modified from SM 2120 C                |
| Conductivity (Water, Automated)              | 1        | Modified from SM 2510 B                |
| DOC (Water, IR)                              | 1        | Modified from SM 5310 B                |
| Escherichia coli (DC Plate)                  | 1        | Modified from MECP E3407               |
| Fluoride (Water, Auto/ISE)                   | 1        | Modified from SM 4500-F A and 4500-F C |
| Hardness (Water, Calculation Only)           | 1        | SM 2340 B                              |
| Ion Balance (Water, Calculation)             | 1        | Modified from SM1030 E                 |
| Metals Scan (Water, ICP/MS)                  | 1        | Modified from EPA 200.8                |
| Metals Scan (Water, ICP/OES)                 | 1        | Modified from SM 3120 B                |
| Nitrate (Water, IC)                          | 1        | Modified from SM 4110 B and C          |
| Nitrite (Water, IC)                          | 1        | Modified from SM 4110 B and C          |
| pH (25°C) (Water, Automated)                 | 1        | Modified from SM 4500-H+ B             |
| Phenols (Water, Colorimetry)                 | 1        | Modified from EPA 420.2                |
| Sulphate (Water, IC)                         | 1        | Modified from SM 4110 B and C          |
| Sulphide (Water, Colorimetry)                | 1        | Modified from SM 4500-S2 D             |
| Tannin and Lignin (Water, Spec)              | 1        | Modified from SM 5550 B                |
| TDS (Estimated)                              | 1        | Modified from SM 2510 A                |
| Total Coliforms (DC Plate)                   | 1        | Modified from MECP E3407               |
| Total Kjeldahl Nitrogen (Water, Colorimetry) | 1        | Modified from EPA 351.2                |
| Turbidity (Water, Turbidimeter)              | 1        | Modified from SM 2130 B                |

**Criteria :**
**A :** Ontario Regulation 169/03 (Non-Regulated Drinking Water)

**Sample status upon receipt :**

9936396

**Compliant**
**Certificate Comments :**

9936396

**N-NO2 and N-NO3 MRLs increased due to matrix interference.**
**Notes :**

- All analysis is completed at Eurofins Environment Testing Canada Inc. (Ottawa, Ontario) unless otherwise stated.
- Eurofins Environment Testing Canada Inc. is accredited by CALA, Canadian Association for Laboratory Accreditation to ISO/IEC 17025 for tests which appear on the scope of accreditation. The scope is available at <https://directory.cala.ca/>
- Please note: Field data, where presented on the report, has been provided by the client and is presented for informational purposes only. Guideline or regulatory limits listed on this report are provided for ease of use (informational purposes) only. Eurofins recommends consulting the official guideline or regulation as required. Unless otherwise stated, measurement uncertainty is not taken into account when determining guideline or regulatory exceedances.

**Legend :**

RL : Reporting limit

N/A : Not applicable

\* : Analysis conducted by external subcontracting

QC : Reference material (QC)

1 : Results in annex

^ : Analysis not accredited

## OFFICIAL CERTIFICATE OF ANALYSIS - EXCEEDENCE SUMMARY

Client : Paterson Group

Project : PH5222

Reception Date : 2026-07-30

| Eurofins<br>Sample No                       | Client Sample<br>Identification | Analyte                         | Result | Units | Exceeded Criteria |   |   |
|---------------------------------------------|---------------------------------|---------------------------------|--------|-------|-------------------|---|---|
|                                             |                                 |                                 |        |       | A                 | B | C |
| Colour, Apparent (Water, Spectrophotometry) |                                 |                                 |        |       |                   |   |   |
| 9936396                                     | 6172 Flew                       | Colour (Apparent)               | 123    | TCU   | 5                 |   |   |
| Hardness (Water, Calculation Only)          |                                 |                                 |        |       |                   |   |   |
| 9936396                                     | 6172 Flew                       | Hardness as CaCO3 (Calculation) | 467    | mg/L  | 80-100            |   |   |
| Metals Scan (Water, ICP/MS)                 |                                 |                                 |        |       |                   |   |   |
| 9936396                                     | 6172 Flew                       | Iron                            | 1.17   | mg/L  | 0.3               |   |   |
| TDS (Estimated)                             |                                 |                                 |        |       |                   |   |   |
| 9936396                                     | 6172 Flew                       | TDS (Estimated)^                | 824    | mg/L  | 500               |   |   |
| Turbidity (Water, Turbidimeter)             |                                 |                                 |        |       |                   |   |   |
| 9936396                                     | 6172 Flew                       | Turbidity                       | 11.8   | NTU   | 5                 |   |   |

## OFFICIAL CERTIFICATE OF ANALYSIS - RESULTS

Client : Paterson Group  
Project : PH5222

Reception Date: 2026-07-30

|          |     |      | Eurofins Sample No : <b>9936396</b>      |   |   |      |  |  |  |
|----------|-----|------|------------------------------------------|---|---|------|--|--|--|
|          |     |      | Matrix : Groundwater                     |   |   |      |  |  |  |
|          |     |      | Sampling Date : 2026-07-30               |   |   |      |  |  |  |
|          |     |      | Client Sample Identification : 6172 Flew |   |   |      |  |  |  |
| Anions   | RL  | Unit | Criteria                                 |   |   |      |  |  |  |
|          |     |      | A                                        | B | C |      |  |  |  |
| Chloride | 0.5 | mg/L | 250                                      |   |   | 196  |  |  |  |
| Fluoride | 0.1 | mg/L | 1.5                                      |   |   | 0.17 |  |  |  |
| Sulphate | 1   | mg/L | 500                                      |   |   | 104  |  |  |  |

|                            |     |      | Eurofins Sample No : <b>9936396</b>      |  |  |  |  |  |  |
|----------------------------|-----|------|------------------------------------------|--|--|--|--|--|--|
|                            |     |      | Matrix : Groundwater                     |  |  |  |  |  |  |
|                            |     |      | Sampling Date : 2026-07-30               |  |  |  |  |  |  |
|                            |     |      | Client Sample Identification : 6172 Flew |  |  |  |  |  |  |
| Calculations               | RL  | Unit |                                          |  |  |  |  |  |  |
| Ion Balance (Calculation)^ | 0.1 |      | 0.99                                     |  |  |  |  |  |  |

|                                             |       |       | Eurofins Sample No : <b>9936396</b>      |   |   |        |  |  |  |
|---------------------------------------------|-------|-------|------------------------------------------|---|---|--------|--|--|--|
|                                             |       |       | Matrix : Groundwater                     |   |   |        |  |  |  |
|                                             |       |       | Sampling Date : 2026-07-30               |   |   |        |  |  |  |
|                                             |       |       | Client Sample Identification : 6172 Flew |   |   |        |  |  |  |
| General Chemistry                           | RL    | Unit  | Criteria                                 |   |   |        |  |  |  |
|                                             |       |       | A                                        | B | C |        |  |  |  |
| Alkalinity (as CaCO <sub>3</sub> )          | 5     | mg/L  | 500                                      |   |   | 311    |  |  |  |
| Colour (Apparent)                           | 2     | TCU   | 5                                        |   |   | 123    |  |  |  |
| Colour (True)                               | 2     | TCU   |                                          |   |   | <2     |  |  |  |
| Conductivity @ 25°C                         | 5     | µS/cm |                                          |   |   | 1270   |  |  |  |
| Dissolved Organic Carbon                    | 0.5   | mg/L  | 5                                        |   |   | 2.0    |  |  |  |
| Hardness as CaCO <sub>3</sub> (Calculation) | 1     | mg/L  | 80-100                                   |   |   | 467    |  |  |  |
| pH @ 25°C                                   | 1     |       | 6.5-8.5                                  |   |   | 7.25   |  |  |  |
| Phenols-4AAP                                | 0.001 | mg/L  |                                          |   |   | <0.001 |  |  |  |
| Sulphide (S <sub>2</sub> -)                 | 0.01  | mg/L  | 0.05                                     |   |   | <0.01  |  |  |  |
| Tannin and Lignin                           | 0.1   | mg/L  |                                          |   |   | 0.1    |  |  |  |
| TDS (Estimated)^                            | 5     | mg/L  | 500                                      |   |   | 824    |  |  |  |
| Turbidity                                   | 0.1   | NTU   | 5                                        |   |   | 11.8   |  |  |  |

## OFFICIAL CERTIFICATE OF ANALYSIS - RESULTS

Client : Paterson Group  
Project : PH5222

Reception Date: 2026-07-30

|                                |        |      |       |          |             |         |  |  |  |  |
|--------------------------------|--------|------|-------|----------|-------------|---------|--|--|--|--|
| Eurofins Sample No :           |        |      |       |          | 9936396     |         |  |  |  |  |
| Matrix :                       |        |      |       |          | Groundwater |         |  |  |  |  |
| Sampling Date :                |        |      |       |          | 2026-07-30  |         |  |  |  |  |
| Client Sample Identification : |        |      |       |          | 6172 Flew   |         |  |  |  |  |
| Metals                         |        | RL   | Unit  | Criteria |             |         |  |  |  |  |
|                                |        |      |       | A        | B           | C       |  |  |  |  |
| Metals Scan (Water, ICP/MS)    |        |      |       |          |             |         |  |  |  |  |
| Aluminum                       | 0.01   | mg/L | 0.1   |          |             | <0.01   |  |  |  |  |
| Antimony                       | 0.0005 | mg/L | 0.006 |          |             | <0.0005 |  |  |  |  |
| Arsenic                        | 0.001  | mg/L | 0.01  |          |             | <0.001  |  |  |  |  |
| Barium                         | 0.001  | mg/L | 1     |          |             | 0.296   |  |  |  |  |
| Beryllium                      | 0.0005 | mg/L |       |          |             | <0.0005 |  |  |  |  |
| Boron                          | 0.01   | mg/L | 5     |          |             | 0.09    |  |  |  |  |
| Cadmium                        | 0.0001 | mg/L | 0.005 |          |             | <0.0001 |  |  |  |  |
| Chromium                       | 0.001  | mg/L | 0.05  |          |             | <0.001  |  |  |  |  |
| Cobalt                         | 0.0002 | mg/L |       |          |             | <0.0002 |  |  |  |  |
| Copper                         | 0.001  | mg/L | 1     |          |             | 0.015   |  |  |  |  |
| Iron                           | 0.03   | mg/L | 0.3   |          |             | 1.17    |  |  |  |  |
| Lead                           | 0.001  | mg/L | 0.01  |          |             | 0.003   |  |  |  |  |
| Manganese                      | 0.01   | mg/L | 0.05  |          |             | 0.04    |  |  |  |  |
| Mercury                        | 0.0001 | mg/L | 0.001 |          |             | <0.0001 |  |  |  |  |
| Molybdenum                     | 0.005  | mg/L |       |          |             | <0.005  |  |  |  |  |
| Nickel                         | 0.005  | mg/L |       |          |             | <0.005  |  |  |  |  |
| Selenium                       | 0.001  | mg/L | 0.05  |          |             | <0.001  |  |  |  |  |
| Silver                         | 0.0001 | mg/L |       |          |             | <0.0001 |  |  |  |  |
| Strontium                      | 0.001  | mg/L |       |          |             | 6.86    |  |  |  |  |
| Thallium                       | 0.0001 | mg/L |       |          |             | <0.0001 |  |  |  |  |
| Uranium                        | 0.001  | mg/L | 0.02  |          |             | <0.001  |  |  |  |  |
| Vanadium                       | 0.001  | mg/L |       |          |             | <0.001  |  |  |  |  |
| Zinc                           | 0.01   | mg/L | 5     |          |             | 0.03    |  |  |  |  |
| Metals Scan (Water, ICP/OES)   |        |      |       |          |             |         |  |  |  |  |
| Calcium                        | 1      | mg/L |       |          |             | 136     |  |  |  |  |
| Magnesium                      | 1      | mg/L |       |          |             | 31      |  |  |  |  |
| Potassium                      | 1      | mg/L |       |          |             | 3       |  |  |  |  |
| Sodium                         | 1      | mg/L | 200   |          |             | 99      |  |  |  |  |

|                       |    |           | Eurofins Sample No : <b>9936396</b>      |   |   |   |  |  |  |
|-----------------------|----|-----------|------------------------------------------|---|---|---|--|--|--|
|                       |    |           | Matrix : Groundwater                     |   |   |   |  |  |  |
|                       |    |           | Sampling Date : 2026-07-30               |   |   |   |  |  |  |
|                       |    |           | Client Sample Identification : 6172 Flew |   |   |   |  |  |  |
| Microbiology          | RL | Unit      | Criteria                                 |   |   |   |  |  |  |
|                       |    |           | A                                        | B | C |   |  |  |  |
| Escherichia coli (DC) | 0  | CFU/100mL | 0                                        |   |   | 0 |  |  |  |
| Total Coliforms (DC)  | 0  | CFU/100mL | 0                                        |   |   | 0 |  |  |  |

## OFFICIAL CERTIFICATE OF ANALYSIS - RESULTS

Client : Paterson Group  
Project : PH5222

Reception Date: 2026-07-30

|                              |      |      | Eurofins Sample No :           |   |   | 9936396     |  |  |  |  |
|------------------------------|------|------|--------------------------------|---|---|-------------|--|--|--|--|
|                              |      |      | Matrix :                       |   |   | Groundwater |  |  |  |  |
|                              |      |      | Sampling Date :                |   |   | 2026-07-30  |  |  |  |  |
|                              |      |      | Client Sample Identification : |   |   | 6172 Flew   |  |  |  |  |
| Nutrients                    | RL   | Unit | Criteria                       |   |   |             |  |  |  |  |
|                              |      |      | A                              | B | C |             |  |  |  |  |
| Ammonia (Total, as Nitrogen) | 0.02 | mg/L |                                |   |   | <0.020      |  |  |  |  |
| Nitrate (as Nitrogen)        | 0.1  | mg/L | 10.0                           |   |   | <0.5        |  |  |  |  |
| Nitrite (as Nitrogen)        | 0.1  | mg/L | 1.0                            |   |   | <0.5        |  |  |  |  |
| Total Kjeldahl Nitrogen      | 0.1  | mg/L |                                |   |   | <0.100      |  |  |  |  |

Approved by :

  
Emma-Dawn Ferguson, M.Sc.  
Environmental Chemist

Approved by :

  
Emma-Dawn Ferguson, M.Sc.  
Environmental Chemist

## OFFICIAL CERTIFICATE OF ANALYSIS - QUALITY CONTROL

Client : Paterson Group

Project : PH5222

Reception Date: 2026-07-30

| Parameter                                                                                        | Unit      | RL   | Blank  | QC         |         | Matrix Spike |         | Duplicate                                          |         |
|--------------------------------------------------------------------------------------------------|-----------|------|--------|------------|---------|--------------|---------|----------------------------------------------------|---------|
|                                                                                                  |           |      |        | Recovery % | Range % | Recovery %   | Range % | RPD %                                              | Range % |
| Alkalinity (Water, Automated)                                                                    |           |      |        |            |         |              |         |                                                    |         |
| Method : Alkalinity (water, titration to pH 4.5, automated). Internal method: OTT-I-AT-WI45398.  |           |      |        |            |         |              |         |                                                    |         |
| Alkalinity (as CaCO3)                                                                            | mg/L      | 5    | <5     | 95         | 95-105  |              |         | 1                                                  | 0-20    |
| Associated Samples : 9936396                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-08-04<br>Analysis Date: 2026-08-05 |         |
| Ammonia, Total (Water, Colorimetry)                                                              |           |      |        |            |         |              |         |                                                    |         |
| Method : Ammonia (Water, Colorimetry). Internal method: OTT-I-NUT-WI46201.                       |           |      |        |            |         |              |         |                                                    |         |
| Ammonia (Total, as Nitrogen)                                                                     | mg/L      | 0.02 | <0.020 | 117        | 80-120  | 104          | 80-120  | -                                                  | 0-20    |
| Associated Samples : 9936396                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-31<br>Analysis Date: 2026-07-31 |         |
| Chloride (Water, IC)                                                                             |           |      |        |            |         |              |         |                                                    |         |
| Method : Anions (Water, Ion Chromatography). Internal method: OTT-I-IC-WI45985.                  |           |      |        |            |         |              |         |                                                    |         |
| Chloride                                                                                         | mg/L      | 0.5  | <0.5   | 98         | 80-120  | 106          | 80-120  | 1                                                  | 0-20    |
| Associated Samples : 9936396                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-31<br>Analysis Date: 2026-08-04 |         |
| Colour, Apparent (Water, Spectrophotometry)                                                      |           |      |        |            |         |              |         |                                                    |         |
| Method : Colour (Water, Spectrophotometric). Internal method: OTT-I-SPEC-WI45980.                |           |      |        |            |         |              |         |                                                    |         |
| Colour (Apparent)                                                                                | TCU       | 2    | <2     | 95         | 78-116  |              |         | 2                                                  | 0-40    |
| Associated Samples : 9936396                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-08-05<br>Analysis Date: 2026-08-05 |         |
| Colour, True (Water, Spectrophotometry)                                                          |           |      |        |            |         |              |         |                                                    |         |
| Method : Colour (Water, Spectrophotometric). Internal method: OTT-I-SPEC-WI45980.                |           |      |        |            |         |              |         |                                                    |         |
| Colour (True)                                                                                    | TCU       | 2    | <2     | 95         | 78-116  |              |         | -                                                  | 0-40    |
| Associated Samples : 9936396                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-08-05<br>Analysis Date: 2026-08-05 |         |
| Conductivity (Water, Automated)                                                                  |           |      |        |            |         |              |         |                                                    |         |
| Method : Conductivity (Water, Autotitrator). Internal Method: OTT-I-AT-WI45398.                  |           |      |        |            |         |              |         |                                                    |         |
| Conductivity @ 25°C                                                                              | uS/cm     | 5    | <5     | 99         | 98-102  |              |         | 1                                                  | 0-20    |
| Associated Samples : 9936396                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-08-04<br>Analysis Date: 2026-08-05 |         |
| DOC (Water, IR)                                                                                  |           |      |        |            |         |              |         |                                                    |         |
| Method : Organic carbon (water, IR, combustion). Internal method: OTT-I-DEM-WI46148.             |           |      |        |            |         |              |         |                                                    |         |
| Dissolved Organic Carbon                                                                         | mg/L      | 0.5  | <0.5   | 96         | 88-112  | 90           | 85-115  | -                                                  | 0-15    |
| Associated Samples : 9936396                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-08-05<br>Analysis Date: 2026-08-06 |         |
| Escherichia coli (DC Plate)                                                                      |           |      |        |            |         |              |         |                                                    |         |
| Method : Total Coliforms and E.Coli by MF (Water, DC plate). Internal method: OTT-M-BAC-WI45296. |           |      |        |            |         |              |         |                                                    |         |
| Escherichia coli (DC)                                                                            | CFU/100mL | 0    | 0      |            |         |              |         | -                                                  | 0-30    |
| Associated Samples : 9936396                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-07-31<br>Analysis Date: 2026-08-01 |         |
| Fluoride (Water, Auto/ISE)                                                                       |           |      |        |            |         |              |         |                                                    |         |
| Method : Fluoride by autotitrator, ion selective electrode. Internal method: OTT-I-AT-WI45398.   |           |      |        |            |         |              |         |                                                    |         |
| Fluoride                                                                                         | mg/L      | 0.1  | <0.10  | 100        | 90-110  |              |         | -                                                  | 0-20    |
| Associated Samples : 9936396                                                                     |           |      |        |            |         |              |         | Prep Date: 2026-08-04<br>Analysis Date: 2026-08-05 |         |

## OFFICIAL CERTIFICATE OF ANALYSIS - QUALITY CONTROL

Client : Paterson Group

Project : PH5222

Reception Date: 2026-07-30

| Parameter                                                                       | Unit | RL     | Blank   | QC         |         | Matrix Spike |         | Duplicate                                          |         |
|---------------------------------------------------------------------------------|------|--------|---------|------------|---------|--------------|---------|----------------------------------------------------|---------|
|                                                                                 |      |        |         | Recovery % | Range % | Recovery %   | Range % | RPD %                                              | Range % |
| Metals Scan (Water, ICP/MS)                                                     |      |        |         |            |         |              |         |                                                    |         |
| Method : Metals (Water, ICP/MS). Internal method: AMMTFQE1.                     |      |        |         |            |         |              |         |                                                    |         |
| Aluminum                                                                        | mg/L | 0.01   | <0.01   | 100        | 80-120  | 99           | 70-130  | 0                                                  | 0-20    |
| Antimony                                                                        | mg/L | 0.0005 | <0.0005 | 82         | 80-120  | 84           | 70-130  | -                                                  | 0-20    |
| Arsenic                                                                         | mg/L | 0.001  | <0.001  | 101        | 80-120  | 100          | 70-130  | -                                                  | 0-20    |
| Barium                                                                          | mg/L | 0.001  | <0.001  | 100        | 80-120  | 95           | 70-130  | 0                                                  | 0-20    |
| Beryllium                                                                       | mg/L | 0.0005 | <0.0005 | 110        | 80-120  | 104          | 70-130  | -                                                  | 0-20    |
| Boron                                                                           | mg/L | 0.01   | <0.01   | 110        | 80-120  | 100          | 70-130  | -                                                  | 0-20    |
| Cadmium                                                                         | mg/L | 0.0001 | <0.0001 | 104        | 80-120  | 98           | 70-130  | -                                                  | 0-20    |
| Chromium                                                                        | mg/L | 0.001  | <0.001  | 110        | 80-120  | 103          | 70-130  | -                                                  | 0-20    |
| Cobalt                                                                          | mg/L | 0.0002 | <0.0002 | 107        | 80-120  | 101          | 70-130  | -                                                  | 0-20    |
| Copper                                                                          | mg/L | 0.001  | <0.001  | 110        | 80-120  | 101          | 70-130  | 3                                                  | 0-20    |
| Iron                                                                            | mg/L | 0.03   | <0.03   | 100        | 80-120  | 100          | 70-130  | 0                                                  | 0-20    |
| Lead                                                                            | mg/L | 0.001  | <0.001  | 100        | 80-120  | 99           | 70-130  | 0                                                  | 0-20    |
| Manganese                                                                       | mg/L | 0.01   | <0.01   | 100        | 80-120  | 99           | 70-130  | -                                                  | 0-20    |
| Mercury                                                                         | mg/L | 0.0001 | <0.0001 | 99         | 80-120  | 100          | 70-130  | -                                                  | 0-20    |
| Molybdenum                                                                      | mg/L | 0.005  | <0.005  | 100        | 80-120  | 96           | 70-130  | -                                                  | 0-20    |
| Nickel                                                                          | mg/L | 0.005  | <0.005  | 110        | 80-120  | 104          | 70-130  | -                                                  | 0-20    |
| Selenium                                                                        | mg/L | 0.001  | <0.001  | 102        | 80-120  | 100          | 70-130  | -                                                  | 0-20    |
| Silver                                                                          | mg/L | 0.0001 | <0.0001 | 109        | 80-120  | 100          | 70-130  | -                                                  | 0-20    |
| Strontium                                                                       | mg/L | 0.001  | <0.001  | 100        | 80-120  | 95           | 70-130  | 0                                                  | 0-20    |
| Thallium                                                                        | mg/L | 0.0001 | <0.0001 | 105        | 80-120  | 99           | 70-130  | -                                                  | 0-20    |
| Uranium                                                                         | mg/L | 0.001  | <0.001  | 100        | 80-120  | 99           | 70-130  | -                                                  | 0-20    |
| Vanadium                                                                        | mg/L | 0.001  | <0.001  | 100        | 80-120  | 101          | 70-130  | -                                                  | 0-20    |
| Zinc                                                                            | mg/L | 0.01   | <0.01   | 110        | 80-120  | 106          | 70-130  | -                                                  | 0-20    |
| Associated Samples : 9936396                                                    |      |        |         |            |         |              |         | Prep Date: 2026-08-04<br>Analysis Date: 2026-08-04 |         |
| Metals Scan (Water, ICP/OES)                                                    |      |        |         |            |         |              |         |                                                    |         |
| Method : Metals (Water, ICP/OES). Internal method: OTT-I-MET-WI48491.           |      |        |         |            |         |              |         |                                                    |         |
| Calcium                                                                         | mg/L | 1      | <1      | 99         | 70-130  | 105          | 70-130  | 0                                                  | 0-20    |
| Magnesium                                                                       | mg/L | 1      | <1      | 99         | 70-130  | 109          | 70-130  | 11                                                 | 0-20    |
| Potassium                                                                       | mg/L | 1      | <1      | 99         | 70-130  | 92           | 70-130  | -                                                  | 0-20    |
| Sodium                                                                          | mg/L | 1      | <1      | 100        | 70-130  | 104          | 70-130  | 7                                                  | 0-20    |
| Associated Samples : 9936396                                                    |      |        |         |            |         |              |         | Prep Date: 2026-08-05<br>Analysis Date: 2026-07-31 |         |
| Nitrate (Water, IC)                                                             |      |        |         |            |         |              |         |                                                    |         |
| Method : Anions (Water, Ion Chromatography). Internal method: OTT-I-IC-WI45985. |      |        |         |            |         |              |         |                                                    |         |
| Nitrate (as Nitrogen)                                                           | mg/L | 0.1    | <0.1    | 105        | 80-120  | 102          | 80-120  | -                                                  | 0-20    |
| Associated Samples : 9936396                                                    |      |        |         |            |         |              |         | Prep Date: 2026-07-31<br>Analysis Date: 2026-08-06 |         |
| Nitrite (Water, IC)                                                             |      |        |         |            |         |              |         |                                                    |         |
| Method : Anions (Water, Ion Chromatography). Internal method: OTT-I-IC-WI45985. |      |        |         |            |         |              |         |                                                    |         |
| Nitrite (as Nitrogen)                                                           | mg/L | 0.1    | <0.1    | 103        | 80-120  | 103          | 80-120  | -                                                  | 0-20    |
| Associated Samples : 9936396                                                    |      |        |         |            |         |              |         | Prep Date: 2026-07-31<br>Analysis Date: 2026-08-04 |         |
| pH (25°C) (Water, Automated)                                                    |      |        |         |            |         |              |         |                                                    |         |
| Method : pH (Water, Automated Meter). Internal method: OTT-I-AT-WI45398.        |      |        |         |            |         |              |         |                                                    |         |
| pH @ 25°C                                                                       |      | 1      | 5.62    | 99         | 97-103  |              |         | 1                                                  | 0-20    |
| Associated Samples : 9936396                                                    |      |        |         |            |         |              |         | Prep Date: 2026-08-04<br>Analysis Date: 2026-08-05 |         |

## OFFICIAL CERTIFICATE OF ANALYSIS - QUALITY CONTROL

Client : Paterson Group

Project : PH5222

Reception Date: 2026-07-30

| Parameter                                                                                        | Unit      | RL    | Blank  | QC         |         | Matrix Spike |         | Duplicate                                          |         |
|--------------------------------------------------------------------------------------------------|-----------|-------|--------|------------|---------|--------------|---------|----------------------------------------------------|---------|
|                                                                                                  |           |       |        | Recovery % | Range % | Recovery %   | Range % | RPD %                                              | Range % |
| Phenols (Water, Colorimetry)                                                                     |           |       |        |            |         |              |         |                                                    |         |
| Method : Phenols (Water, Colorimetry). Internal method: OTT-I-4AAP-WI46150.                      |           |       |        |            |         |              |         |                                                    |         |
| Phenols-4AAP                                                                                     | mg/L      | 0.001 | <0.001 | 111        | 75-125  | 88           | 70-130  | -                                                  | 0-20    |
| Associated Samples : 9936396                                                                     |           |       |        |            |         |              |         | Prep Date: 2026-08-06<br>Analysis Date: 2026-08-06 |         |
| Sulphate (Water, IC)                                                                             |           |       |        |            |         |              |         |                                                    |         |
| Method : Anions (Water, Ion Chromatography). Internal method: OTT-I-IC-WI45985.                  |           |       |        |            |         |              |         |                                                    |         |
| Sulphate                                                                                         | mg/L      | 1     | <1     | 100        | 90-110  | 99           | 80-120  | 0                                                  | 0-20    |
| Associated Samples : 9936396                                                                     |           |       |        |            |         |              |         | Prep Date: 2026-07-31<br>Analysis Date: 2026-08-04 |         |
| Sulphide (Water, Colorimetry)                                                                    |           |       |        |            |         |              |         |                                                    |         |
| Method : Sulphide, S2- (Water, Colorimetry). Internal method: OTT-I-SPEC-WI45931.                |           |       |        |            |         |              |         |                                                    |         |
| Sulphide (S2-)                                                                                   | mg/L      | 0.01  | <0.01  | 61         | 48-131  |              |         | -                                                  | 0-20    |
| Associated Samples : 9936396                                                                     |           |       |        |            |         |              |         | Prep Date: 2026-08-04<br>Analysis Date: 2026-08-04 |         |
| Tannin and Lignin (Water, Spec)                                                                  |           |       |        |            |         |              |         |                                                    |         |
| Method : Tannin and Lignin (Water, Spec), Internal method: OTT-I-SPEC-WI57693.                   |           |       |        |            |         |              |         |                                                    |         |
| Tannin and Lignin                                                                                | mg/L      | 0.1   | <0.1   | 90         | 80-120  |              |         | -                                                  | 0-20    |
| Associated Samples : 9936396                                                                     |           |       |        |            |         |              |         | Prep Date: 2026-08-06<br>Analysis Date: 2026-08-06 |         |
| Total Coliforms (DC Plate)                                                                       |           |       |        |            |         |              |         |                                                    |         |
| Method : Total Coliforms and E.Coli by MF (Water, DC plate). Internal method: OTT-M-BAC-WI45296. |           |       |        |            |         |              |         |                                                    |         |
| Total Coliforms (DC)                                                                             | CFU/100mL | 0     | 0      |            |         |              |         | -                                                  | 0-30    |
| Associated Samples : 9936396                                                                     |           |       |        |            |         |              |         | Prep Date: 2026-07-31<br>Analysis Date: 2026-08-01 |         |
| Total Kjeldahl Nitrogen (Water, Colorimetry)                                                     |           |       |        |            |         |              |         |                                                    |         |
| Method : TKN (Water, colorimetry). Internal method: OTT-I-NUT-WI46201.                           |           |       |        |            |         |              |         |                                                    |         |
| Total Kjeldahl Nitrogen                                                                          | mg/L      | 0.1   | <0.100 | 94         | 70-130  | 107          | 70-130  | -                                                  | 0-20    |
| Associated Samples : 9936396                                                                     |           |       |        |            |         |              |         | Prep Date: 2026-08-04<br>Analysis Date: 2026-08-05 |         |
| Turbidity (Water, Turbidimeter)                                                                  |           |       |        |            |         |              |         |                                                    |         |
| Method : Turbidity (Water, Turbidimeter). Internal method: OTT-I-TUR-WI46288.                    |           |       |        |            |         |              |         |                                                    |         |
| Turbidity                                                                                        | NTU       | 0.1   | <0.1   | 97         | 80-120  |              |         | 3                                                  | 0-30    |
| Associated Samples : 9936396                                                                     |           |       |        |            |         |              |         | Prep Date: 2026-07-31<br>Analysis Date: 2026-07-31 |         |

Where RPD % is reported as "-" the calculation is not available because one or both of the duplicates is within 5 times the RL.

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