

THE CORPORATION OF THE TOWN OF COBALT

REGULAR COUNCIL MEETING COBALT COMMUNITY HALL September 15, 2026 at 6:30 p.m. AGENDA

1. Call to Order
2. Disclosure of Pecuniary Interest and the General Nature Thereof
3. Public Meetings
4. Deputations/Delegation

5. Adoption of Meeting Agenda

DRAFT MOTION

BE IT RESOLVED THAT Council approve the agenda of the Regular Meeting dated September 15, 2026 as presented.

Moved by:

Seconded by:

DISCUSSION

VOTE

6. Adoption of Previous Council Minutes

DRAFT MOTION

BE IT RESOLVED THAT Council approve the following minutes as presented:

Regular Meeting of Council – August 18, 2026

Moved by:

Seconded by:

DISCUSSION

VOTE

7. Staff Reports

DRAFT MOTION

BE IT RESOLVED THAT Council accept the staff reports as presented.

Moved by:

Seconded by:

DISCUSSION

7.1 By-Law Enforcement – July and August 2026

7.2 Staff Report 2026.09.15.01 – 2026-2027 Holiday Schedule Request

VOTE

8. Items for Council consideration

8.1 Council Seat to be declared as vacant

DRAFT MOTION

WHEREAS Section 262(1) of the Municipal Act requires Council to declare a seat vacant at its next meeting;

AND WHEREAS if a vacancy occurs within 90 days before voting day of a regular election, the municipality is not required to fill a vacancy on Council;

AND WHEREAS the 2026 Election is 41 days away;

THEREFORE BE IT RESOLVED the Council of the Town of Cobalt does hereby declare a Council seat vacant and it will remain vacant for the remainder of the 2022-2026 Council term.

Moved by:

Seconded by:

**DISCUSSION
VOTE**

8.2 2026-2027 Holiday Schedule (Staff Report 2026.09.15.01)

DRAFT MOTION

WHEREAS Council receive Staff Report 2026.09.15.01;

NOW THEREFORE BE IT RESOLVED THAT Council acknowledges the 2026-2027 Holiday Schedule for the Municipal Office and Public Works Department and that public notice be given.

Moved by:

Seconded by:

**DISCUSSION
VOTE**

8.3 2027 Christmas Lighting of the Lights

DRAFT MOTION

WHEREAS the Town of Cobalt values community-led holiday initiatives that enhance civic pride, encourage business patronage, and bring residents together during the festive season;

AND WHEREAS Council received the formal request from the Cobalt Shines Committee to collaborate at its Regular Meeting held on August 18, 2026;

NOW THEREFORE BE IT RESOLVED THAT Council of the Corporation of the Town of Cobalt hereby approves the collaboration and declares the Town of Cobalt's Annual Lighting of the Lights ceremony will take place on November 27, 2026.

Moved by:

Seconded by:

**DISCUSSION
VOTE**

9. Items for Council Information

DRAFT MOTION

BE IT RESOLVED THAT Council accept the items for Council information as presented.

Moved by:

Seconded by:

DISCUSSION

9.1 OCWA - Cobalt Wetlands July 2026

VOTE

10. **By-Laws and Agreements**

11. **Unfinished Business**

12. **New Business**

13.1 Schedule of Accounts

DRAFT MOTION

BE IT RESOLVED THAT Council receives the following Schedules as presented:

Schedule No. 2026-09 in the amount of \$190,261.93

Moved by:

Seconded by:

DISCUSSION

VOTE

13. **Mayor's Report**

14. **Closed Meeting**

15. **Business Arising from Closed Meeting**

16. **Confirmation By-Law**

DRAFT BY-LAW

BE IT RESOLVED THAT By-Law No. 2026-28 being a By-Law to confirm the proceedings of Council of the Corporation of the Town of Cobalt be taken as read a first, second and third time this 15th day of September, 2026;

AND FURTHER THAT the said By-Law be signed and sealed by the Mayor and Clerk.

Moved by:

Seconded by:

VOTE

17. **Adjournment**

DRAFT MOTION

BE IT RESOLVED THAT the Regular Meeting of Council be adjourned at _____ p.m.

Moved by:

Seconded by:

VOTE

THE CORPORATION OF THE TOWN OF COBALT

REGULAR COUNCIL MEETING

COBALT COMMUNITY HALL

August 18, 2026, at 6:30 p.m.

Minutes

Present:

Mayor: Pat Anderson

Councillors: Gary Hughes
Jim Starchuk
Stephen Ward
Doug Wilcox

Absent: Councillor Lafleur

Staff: J. Allen, Clerk-Treasurer
Treasurer

1. Call to Order

Deputy Mayor Anderson called the meeting to order at 6:30pm

2. Disclosure of Pecuniary Interest and the General Nature Thereof

None

3. Public Meetings

None

4. Deputations/Delegation

4.1 Danielle Girard – Kemp Elliot & Blair - presentation of the 2025 Financial Statements

Mrs. Girard reviewed the 2025 Financial Statements for the Town of Cobalt which showed an operations deficit of \$90,090 and a net debt position of \$1,363,174.00 (after adjusting for the unfinanced asset retirement obligation)

4.2 Dan Cleroux – Update on Pan Silver Headframe Agnico waiting for quotes on the costs of repairing the Headframe before making a financial commitment for repairs to the Headframe

4.3 Cobalt resident Gary Bigelow spoke to Council.

5. Adoption of Meeting Agenda

RESOLUTION No. 2026-135

MOVED BY: Councillor Hughes

SECONDED BY: Councillor Ward

BE IT RESOLVED THAT Council approve the agenda of the Regular Meeting dated August 18, 2026 as presented.

CARRIED

6. **Adoption of Previous Council Minutes**

RESOLUTION No. 2026-136

MOVED BY: Councillor Starchuck

SECONDED BY: Councillor Hughes

BE IT RESOLVED THAT Council approve the following minutes as presented:

Regular Meeting of Council – July 21, 2026

Special Meeting of Council – August 12, 2026

CARRIED

7. **Staff Reports**

RESOLUTION No. 2026-137

MOVED BY: Councillor Starchuck

SECONDED BY: Councillor Hughes

BE IT RESOLVED THAT Council accept the staff reports as presented.

7.1 By-Law Enforcement Report – June 2026

7.2 Staff Report 2026.08.18.01–Tender to Purchase Surplus Properties - 39 Watson Pl & 29 Hudson Bay Rd

7.3 Staff Report 2026.08.18.02 – Surplus Property – 32 Earle Crescent

7.4 Staff Report 2026.08.18.03 – Municipal Building Leases

7.5 Staff Report 2026.08.18.04 – Memorandum of Understanding – Pan Silver Headframe

7.6 Staff Report 2026.08.18.05 – By-Law 2026-26 - 2027-2029 User Fees

CARRIED

8. **Items for Council consideration**

8.1 Council Vacancy

RESOLUTION No. 2026-138

MOVED BY: Councillor Hughes

SECONDED BY: Councillor Starchuck

BE IT RESOLVED THAT the following members of Council, who have signified in writing that they are legally qualified to hold office and consented to accept the office if they are appointed to fill the vacancy, be considered for appointment to fill such vacancy.

- *Pat Anderson*

CARRIED

RESOLUTION No. 2026-139

MOVED BY: Councillor Hughes

SECONDED BY: Councillor Ward

BE IT RESOLVED THAT Pat Anderson be appointed to the Council position of Mayor for the remainder of the 2022-2026 term of Council;

AND FURTHER THAT the Declaration of Office be administered;

AND FURTHER THAT Pat Anderson's Councillor seat be declared vacant at the next regular meeting of Council;

CARRIED

8.2 2025 Financial Statements as presented by Kemp Elliot & Blair LLP, Chartered Professional Accountants

RESOLUTION No. 2026-140

MOVED BY: Councillor Hughes

SECONDED BY: Councillor Wilcox

BE IT RESOLVED THAT Council receives the 2025 Financial Statements for the Corporation of the Town of Cobalt and the Cobalt Public Library as presented by Kemp Elliott & Blair LLP, Chartered Professional Accountants.

CARRIED

8.3 Tender to Purchase Surplus Lot – 39 Watson Place (Staff Report 2026.08.18.01)

RESOLUTION No. 2026-140

MOVED BY: Councillor Ward

SECONDED BY: Councillor Starchuk

WHEREAS at the Regular Council Meeting on September 19, 2023, Council declared 39 Watson Place as surplus and be advertised for sale;

AND WHEREAS a tender has been received;

AND WHEREAS Council has received Staff Report 2026.08.18.01;

NOW THEREFORE BE IT RESOLVED THAT Council approve the sale of 39 Watson Place to Priya Jeyachandran for the sum of \$14,500 plus applicable legal fees and directs staff to proceed with the necessary documents.

CARRIED

8.4 Tender to Purchase Surplus Lot – 29 Hudson Bay Road (Staff Report 2026.08.18.01)

RESOLUTION No. 2026-141

MOVED BY: Councillor Starchuk

SECONDED BY: Councillor Wilcox

WHEREAS at the Regular Council Meeting on October 14, 2025, Council declared 29 Hudson Bay Road as surplus and be advertised for sale;

AND WHEREAS a tender has been received;

AND WHEREAS Council has received Staff Report 2026.08.18.01;

NOW THEREFORE BE IT RESOLVED THAT Council approve the sale of 29 Hudson Bay Road to Jeremy Travis for the sum of \$10,000 plus applicable legal fees and directs staff to proceed with the necessary documents.

CARRIED

8.5 Property to be Declared Surplus – 32 Earle Crescent (Staff Report 2026.08.18.02)

RESOLUTION No. 2026-142

MOVED BY: Councillor Wilcox

SECONDED BY: Councillor Starchuk

WHEREAS Council received Staff Report 2026.08.18.02 with a recommendation to declare Roll #54-08-000-001-12300-0000, known as 32 Earle Crescent as surplus to municipal needs;

AND WHEREAS 1 tender has been received;

NOW THEREFORE BE IT RESOLVED THAT Council declare Roll #54-08-000-001-12300-0000 as surplus to municipal needs;

CARRIED

8.6 Municipal Building Leases (Staff Report 2026.08.18.03)

RESOLUTION No. 2026-143

MOVED BY: Councillor Hughes

SECONDED BY: Councillor Starchuk

WHEREAS the Municipality owns and manages various buildings leased to external parties;

AND WHEREAS establishing a standardized lease agreement ensures equity, consistency, and risk mitigation across all municipal properties;

AND WHEREAS Council received and reviewed Staff Report 2026.08.18.03, which attaches a newly developed Standard Municipal Lease Agreement template;

NOW THEREFORE BE IT RESOLVED THAT

1. The Standard Municipal Lease Agreement template attached to Staff Report 2026.08.18.03 be approved in principle;
2. Municipal Staff be authorized and directed to utilize this approve template as the baseline framework for negotiating all future tenancies and lease renewals within town-owned facilities.
3. The Mayor and Clerk be authorized to execute individual leases derived from this template.

For: Councillors Starchuk, Hughes and Mayor Anderson

Against: Councillors Wilcox and Ward.

CARRIED

8.6 Authorization of the Cobalt Historical Society as Project Manager – Pan Silver Headframe (Willet Green Memorial) Heritage Silver Trail Site #14 as requested by Cobalt Historical Society (Staff Report 2026.08.18.04)

RESOLUTION No. 2026-144

MOVED BY: Councillor Starchuk

SECONDED BY: Councillor Hughes

WHEREAS since the mid-1990's the Town of Cobalt, together with the Township of Coleman and the Heritage Silver Trail Committee conceived a self-guided tour of the region's mining heritage;

AND WHEREAS in 1998, the Pan Silver Headframe was relocated from Bucke Township to its current location on Silver Street and donated to the Town of Cobalt for use as a tourist attraction;

AND WHEREAS in 1999, in order to access public funding, the Cobalt Historical Society ("CHS"), a non-profit incorporation, was established to work collaboratively with, and in partnership with, the Town of Cobalt and Coleman Township, forming a three-way partnership to plan, construct, and maintain the Heritage Silver Trail ("HST");

AND WHEREAS in 2003, on the 100th anniversary of the silver discovery, the Pan Silver Headframe was renamed the Willet Green Memorial Site, #14 on the HST, and the CHS office was opened there;

AND WHEREAS since 2023, safety concerns relating to the deterioration of the wooden timbers of the Pan Silver Headframe have required the CHS to hold its meetings off-site;

AND WHEREAS on July 21, 2026, the CHS and Coleman Township made a delegation to Council proposing solutions to resolve the outstanding safety concerns at the site, as set out in the delegation materials of that date;

AND WHEREAS the Town of Cobalt wishes to confirm ownership and reporting arrangements under which the work will proceed;

NOW THEREFORE BE IT RESOLVED THAT the Council of the Town of Cobalt:

1. Reaffirms its commitment to work collaboratively with its Heritage Silver Trail partners, the Cobalt Historical Society and the Township of Coleman, as originally established in 1999;
2. Authorizes the Cobalt Historical Society to act as project manager for the remediation and repair work at the Pan Silver Headframe (Willet Green Miller Memorial Site), such authorization to remain subject to the ownership of the site remaining vest in the Town of Cobalt;
3. Stipulates that the Cobalt Historical Society must obtain formal approval for all project expenditures that exceed the available donated funds before any related work is permitted to begin;
4. Requests that the Cobalt Historical Society report back to Council on progress, expenditures, and any material changes in scope of the project;
5. A memorandum of understanding between the Town, Cobalt Historical Society and Coleman Township setting out the term of this authorization be executed by the appropriate signing officers;
6. The Clerk and Mayor be authorized to sign the memorandum of understanding.

CARRIED

9. Items for Council information

RESOLUTION No. 2026-145

MOVED BY: Councillor Hughes

SECONDED BY: Councillor Wilcox

BE IT RESOLVED THAT Council accept the items for Council information as presented.

- 9.1 Cobalt Shine Committee Minutes – June 22, 2026
- 9.2 Cobalt Shine Committee Minutes – July 27, 2026
- 9.3 Cobalt Shines Committee Letter to Council
- 9.4 Garry Bigelow – Letter to Council
- 9.5 OCWA – Q2 Operations Report

CARRIED

10. By-Laws and Agreements

10.1 By-Law 2026-24 Clerk-Treasurer

RESOLUTION No. 2026-146

MOVED BY: Councillor Starchuk

SECONDED BY: Councillor Hughes

WHEREAS at the Special Meeting of Council on August 12, 2026 Council directed Staff to prepare the necessary By-Law;

NOW THEREFORE BE IT RESOLVED THAT By-Law 2026-24 being a By-Law to appoint Jaime Allen as Clerk-Treasurer for the Corporation of the Town of Cobalt be taken as read a first, second and third time and finally passed this 18th day of August, 2026.

CARRIED

10.2 By-Law 2026-25 Council Meeting Live Streaming and Recording Policy

RESOLUTION No. 2026-146

MOVED BY: Councillor Hughes
SECONDED BY: Councillor Starchuk

WHEREAS Council received Staff Report 2026.07.21.01 at the July 21, 2026 Regular Meeting of Council;

AND WHEREAS Council directed Administration to continue live streaming and recording Council Meetings and to develop and present a Meeting Live Stream and Recording Policy;

NOW THEREFORE BE IT RESOLVED THAT By-Law 2026-25 being a By-Law to adopt a Council Meeting Live Streaming and Recording Policy for the Town of Cobalt be taken as read a first, second and third time this 18th day of August, 2026.

AND FURTHER THAT the said By-Law be signed and sealed by the Mayor and Clerk.

CARRIED

10.3 By-Law 2026-26 to Establish User Fees for the Town of Cobalt for 2027-2029 (Staff Report 2026.08.18.05)

RESOLUTION No. 2026-147

MOVED BY: Councillor Hughes
SECONDED BY: Councillor Starchuk

WHEREAS Council received Staff Report 2026.08.18.05;

BE IT RESOLVED THAT By-Law No. 2026-26 being a By-Law to establish user fees for the Town of Cobalt be taken as read a first, second and third time this 18th day of August, 2026;

AND FURTHER THAT the said By-Law be signed and sealed by the Mayor and Clerk.

DEFERRED

11. Unfinished Business

None

12. New Business

12.1 Schedule of Accounts

RESOLUTION No. 2026-148

MOVED BY: Councillor Hughes
SECONDED BY: Councillor Wilcox

BE IT RESOLVED THAT Council receives the following Schedules as presented:

Schedule No. 2026-07 in the amount of \$367,625.03

CARRIED

13. Mayor's Report

14. **Closed Meeting**
None

15. **Business Arising from Closed Meeting**
None

16. **Confirmation By-Law**

RESOLUTION No. 2026-149

MOVED BY: Councillor Ward

SECONDED BY: Councillor Starchuk

BE IT RESOLVED THAT By-Law No. 2026-27 being a By-Law to confirm the proceedings of Council of the Corporation of the Town of Cobalt be taken as read a first, second and third time this 18th day of August, 2026;

AND FURTHER THAT the said By-Law be signed and sealed by the Mayor and Clerk.

CARRIED

17. **Adjournment**

RESOLUTION No. 2026-150

MOVED BY: Councillor Wilcox

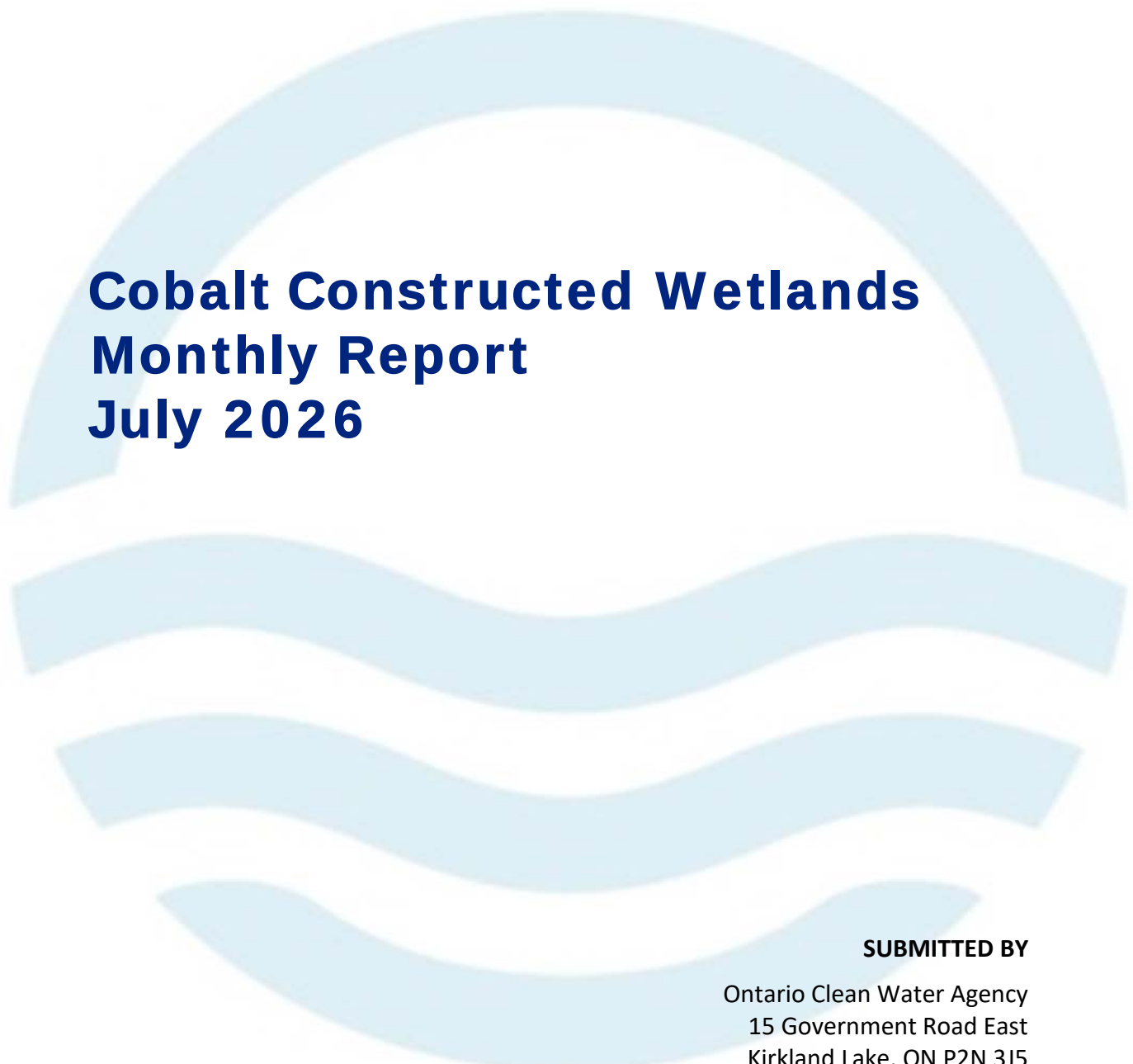
SECONDED BY: Councillor Ward

BE IT RESOLVED THAT the Regular Meeting of Council be adjourned 8:05 p.m.

CARRIED

Pat Anderson, Mayor

Jaime Allen, Clerk Treasurer



Cobalt Constructed Wetlands Monthly Report July 2026

SUBMITTED BY

Ontario Clean Water Agency
15 Government Road East
Kirkland Lake, ON P2N 3J5

August 27, 2026: Rev. 0

Prepared by the Ontario Clean Water Agency
On behalf of the Town of Cobalt

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Appendix A: Laboratory Certificates of Analysis

Appendix B: 2026 Effluent Concentrations (BOD₅, TSS, TP, TAN, TKN)

Appendix C: 2026 Effluent Loadings (BOD₅, TSS, TP)

1 Introduction

Sewage System Name:	Cobalt Constructed Wetlands
Sewage System Address:	9 Hudson Bay Road
Sewage System Owner:	Corporation of the Town of Cobalt
Sewage System Number:	120002745
Service Area:	The Town of Cobalt in the District of Temiskaming
Service Population:	1260
Effluent Receiver:	Sasaginaga Creek (eventually discharging to Lake Temiskaming)
Provincial Officer's Order No.:	1-MV9KT (issued 2021 10 22)
Director's Order No.:	1-ROGQN (issued 2022 01 26)
Reporting Period:	July 2026

Item No. 5, Condition 26 of Provincial Officer Order No. 1-MV9KT issued October 22, 2021 and Item No. 5 of Director's Order 1-ROGQN issued January 26, 2022 for the Cobalt Constructed Wetlands requires the owner to prepare a monthly report. The report is to be submitted to the District Manager of the Ministry of the Environment, Conservation and Parks within 30 days of the end of the month being reported on. The report must include the following information;

- The analytical results of the analysis as per Condition 5 of Item No. 2 as identified in Provincial Officer Order No. 1-MV9KT;
- The flow monitoring data as per Condition 9 and 10 of Item No. 2 as identified in Provincial Officer Order No. 1-MV9KT;
- The monthly minimum, maximum and average concentrations for the parameter analyzed at the sampling location;
- The minimum, maximum and average daily flows and total monthly flow for the sample location for the month being reported on;
- The monthly effluent loading for parameters BOD₅, Total Suspended Solids and Total Phosphorus from the final effluent shall be reported in kilograms.

2 Abbreviations

BOD₅ - Five-day Biochemical Oxygen Demand
DO - Dissolved Oxygen
E. coli - Escherichia coli
FC - Faecal Coliforms
HS - Hydrogen Sulphide
pH - Potential of Hydrogen
TAN - Total Ammonia Nitrogen
TC - Total Coliforms
TKN - Total Kjeldahl Nitrogen
TP - Total Phosphorus
TSS - Total Suspended Solids

3 Influent and Effluent Flows

The Cobalt Wetlands Operations Manual prepared by KMK Consultants indicates that the rated capacity of the plant is 1,063 m³/day with a peak flow capacity of 4475 m³/day. Table 1 presents a summary of the daily influent and effluent flows recorded at the facility in July 2026.

Table 1: Influent and Effluent Flow Comparison for July 2026

Date	Influent Flow (m ³ /day)	Effluent Flow (m ³ /day)	Flow Difference (m ³ /day)
1	2497	3813	1316
2	2301	2514	214
3	2171	2206	35
4	2072	1993	79
5	1544	1839	295
6	1203	1532	329
7	1228	1235	7
8	1311	1216	95
9	1233	1374	141
10	1206	1240	34
11	1195	1143	53
12	1185	1054	131
13	1146	1036	110
14	1135	993	143
15	1126	949	177
16	1120	933	187
17	1085	948	137
18	1333	1406	73
19	1074	1454	380
20	1041	1198	156
21	1146	1393	246
22	1096	1541	445
23	1250	1317	67
24	1634	1182	452
25	1402	1378	23
26	1215	1401	187
27	1280	1367	87
28	1090	1543	453
29	1048	1,291	243
30	1069	1,149	80
31	1077	1,064	14
TOTAL	41,514	44,701	3187
Maximum	2497	3813	-
Minimum	1041	933	-
Average	1339	1442	-

Flows at the Wetlands were highest during the first few days of July before decreasing and stabilizing at approximately 1,100 to 1,500 m³/day for the rest of the month. Although influent and effluent flows frequently exceeded the facility's rated capacity (1,063 m³/day), all recorded flows remained well below the peak design capacity (4,475 m³/day).

Figure 1 compares the influent and effluent flows to the system's rated capacity and peak flow design limit.

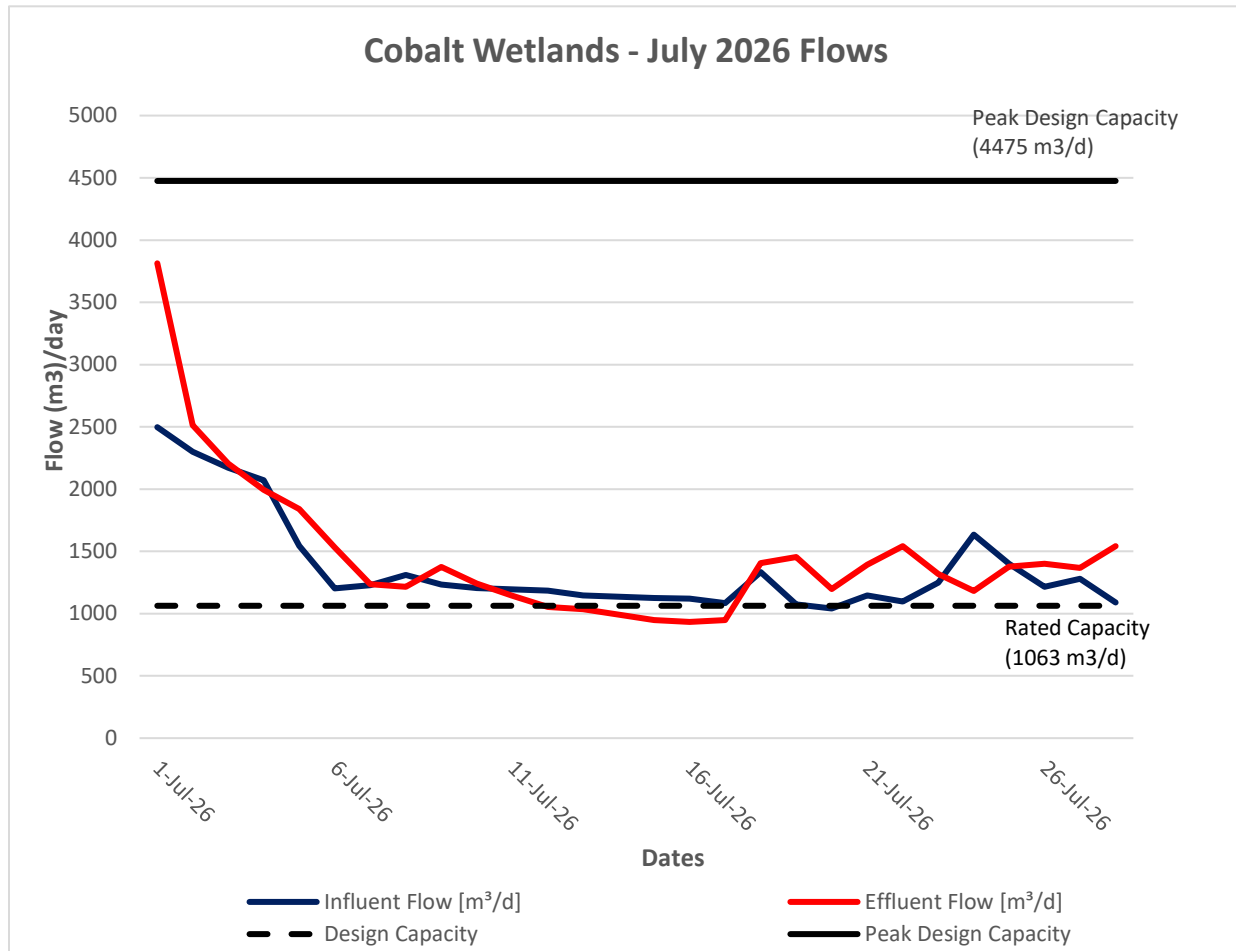


Figure 1: Cobalt Wetlands Influent and Effluent Flows – July 2026

The Cobalt Wetlands experienced relatively stable flows during winter before heavy rains and snow melt in April caused influent flows to reach approximately 9,000 m³/day and effluent flows to peak at approximately 12,400 m³/day.

Following this event, flows gradually declined through May, June, and July, stabilizing closer to normal operating conditions.

Figure 2 illustrates the comparison of influent and effluent flow for 2026.

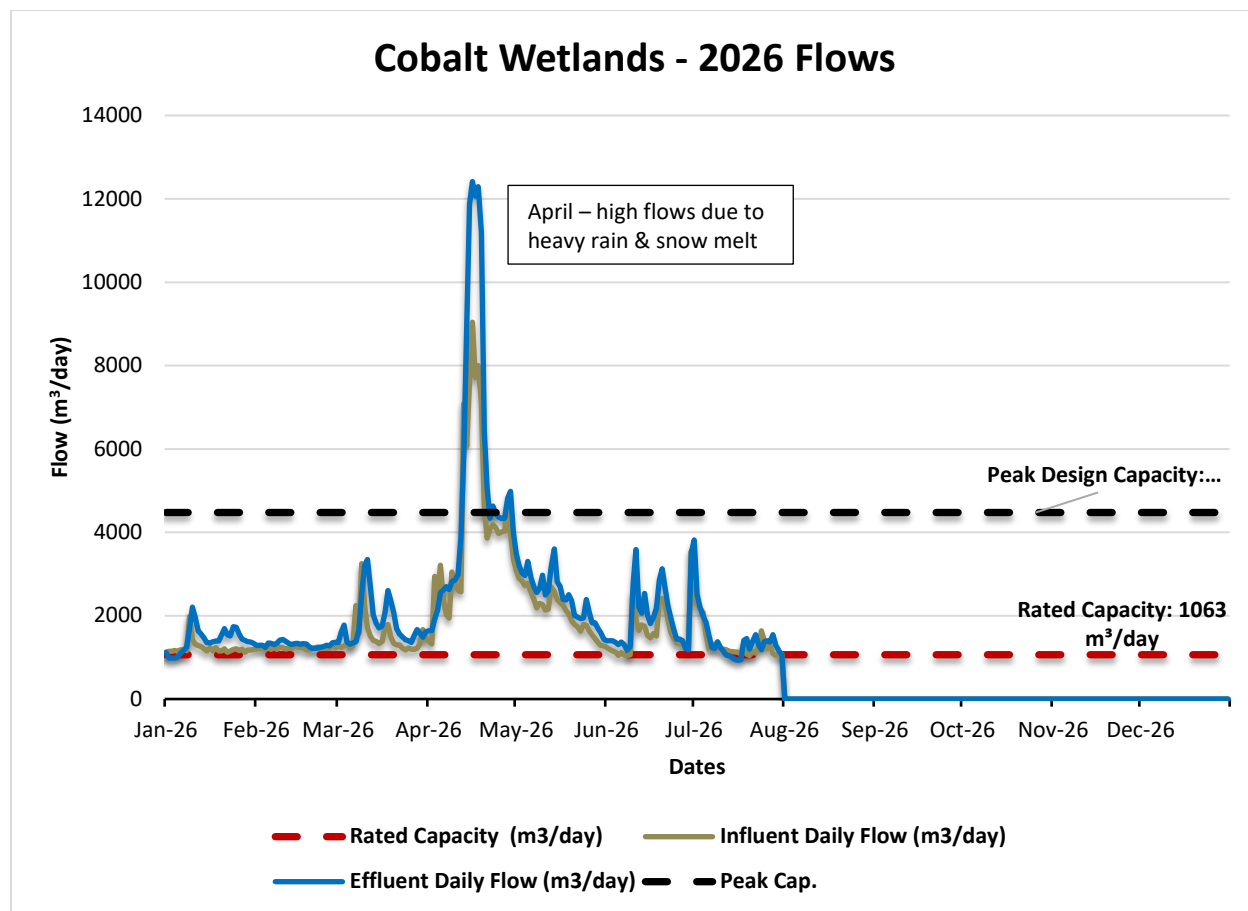


Figure 2: Cobalt Wetlands - 2026 Flows

4 Monitoring Data

4.1 Influent – Summary of Results

As per the Director’s Order (1-ROGQN) currently in place, influent samples (S-1) are to be taken at a time, and in a location as defined by Schedule A. Table 2 summarizes the results of the influent quality samples. The influent sample was collected on July 14, 2026. The Laboratory Certificates of Analysis are included in Appendix A.

Table 2: Influent Quality Data for July 2026

Parameter	Units	No. of Samples	Result
BOD ₅	mg/L	1	18
TSS	mg/L	1	11
TP	mg/L	1	0.25
TAN	mg/L	1	6.22
TKN	mg/L	1	4

The influent concentrations for TAN, TKN, TP, BOD₅, and TSS during the first seven months of 2026 are shown in Figure 3.

TAN levels were relatively high in the winter, but decreased in the Spring with a minimum result of 1.29 mg/L in April. Levels increased to 7.23 mg/L in June and remained high in July with a concentration of 6.22 mg/L.

TKN remains relatively stable throughout, with concentrations ranging from 4.00 to 10.4 mg/L.

Phosphorus levels were stable during Q1, but peaked sharply in April (1.39 mg/L), then returned to typical concentrations in May and June before decreasing to 0.25 mg/L in July. Overall, phosphorus concentrations remain relatively low and stable, except for the notable spike in April.

The highest BOD₅ concentration occurred during the winter, peaking at 34 mg/L in February then declining to 11 mg/L in April. Concentrations stabilized from May to July having results of 17 to 18 mg/L.

TSS values varied between 4 and 101 mg/L, showing elevated levels in February (67.5 mg/L) and again in April (101 mg/L) before decreasing to more stable results in the summer months with the lowest level in June (4.0 mg/L).

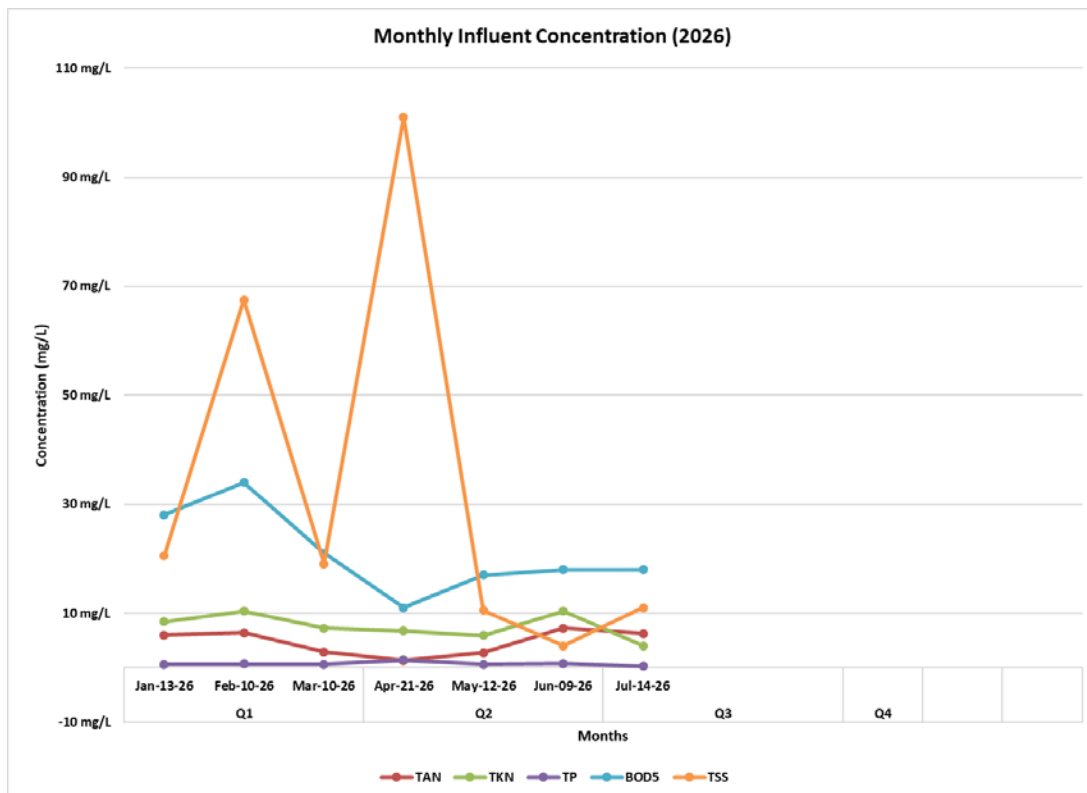


Figure 3: Monthly Influent Concentrations for 2026

4.2 Effluent – Summary of Results

As per the Director's Order (1-ROGQN) currently in place, effluent samples (S-4 and S-5) are to be taken at a time, and in a location as defined in Schedule A.

Table 3 summarizes the results of the effluent quality samples. While effluent quality is assessed based on these parameters; there is currently no compliance limits in place for any of these parameters with the exception of pH which is required to be maintained between 6.0 and 9.5 at all times.

Table 3: Effluent Quality Data for July 2026

Parameter	Units	No. of Samples	Min	Max	Average	Monthly Limits	Calculated Loadings (kg/month)**
BOD ₅	mg/L	4	1.6	3.3	2.1	25*	94
TSS	mg/L	4	< 0.67	3.0	< 1.6	25*	71
TP	mg/L	4	0.116	.272	0.178	1.5*	7.97
TAN	mg/L	4	0.42	2.13	1.56		
TKN	mg/L	4	1.7	10	4.0		
Alkalinity	mg/L	4	104	118	112		
pH	units	4	6.12	7.02	6.66	6.0 to 9.5	
Temperature	°C	4	18	26	21		
DO	mg/L	4	2.22	7.86	4.13		
TC	cfu/100mL	4	50	2520	742		
FC	cfu/100mL	4	52	176	112		
<i>E.coli</i>	cfu/100mL	4	10	182	101		
cBOD ₅	mg/L	1	-	-	0.9		
Sulphate	mg/L	1	-	-	4.1		
HS	mg/L	1	-	-	< 0.02		
Sulphur	mg/L	1	-	-	2.3		

Notes:

"<" means values include results that were less than the laboratory's method detection limit

* a memo from the Ministry's Regional Surface Water Assessment Department, dated November 4, 2019 indicated that a discharge concentration of 25 mg/L BOD₅, 25 mg/L TSS and 1.5 mg/L TP could lead to adverse impacts to the aquatic habitat downstream of the discharge point.

** effluent loadings for BOD₅, TSS and TP are required to be calculated in kilograms, but no loading limits are specified in the Director's Order (No. 1-ROGON).

Average effluent concentrations of TAN, TKN, and BOD₅ have remained relatively stable since April, with a slight increase observed in July compared to June. Total phosphorus (TP) concentrations have also remained consistent during this period, with a minor decrease in July.

TSS levels decreased significantly in July, with an average concentration of 1.59 mg/L, compared to 5.63 mg/L in June.

Laboratory certificates of analysis are included in Appendix A and graphs illustrating monthly effluent concentrations of BOD₅, TSS, TP, TAN, and TKN from January to July 2026 are found Appendix B.

TSS and TP loadings decreased in July compared to June while the TP loadings remained consistent with those reported in June.

Figures illustrating the monthly loadings for each month are provided in Appendix C.

4.3 Sasaginaga Creek Monitoring – Summary of Results

Table 4 summarizes the results of the Sasaginaga Creek monitoring conducted on July 14, 2026. The results suggest that the wetlands is contributing additional nutrients to the creek, with slight increases in BOD₅, total suspended solids, total phosphorus, total ammonia and coliforms. The dissolved oxygen remained high, pH remained stable and sulphur related parameters were relatively unchanged.

Table 4: Sasaginaga Creek Monitoring Results for July 2026

Parameter	Units	No. of S-2 Samples	Upstream of Discharge Point (S-2)	No. of S-3 Samples	Downstream of Discharge Point (S-3)
BOD ₅	mg/L	1	< 0.5	1	0.8
TSS	mg/L	1	< 0.67	1	6
TP	mg/L	1	0.082	1	0.110
TAN	mg/L	1	< 0.01	1	0.12
pH	units	1	7.48	1	7.39
Temperature	°C	1	27.4	1	26.2
DO	mg/L	1	7.7	1	7.9
TC	cfu/100mL	1	390	1	920
FC	cfu/100mL	1	45	1	10
<i>E.coli</i>	cfu/100mL	1	50	1	60
Sulphate	mg/L	1	3.4	1	3.5
HS	mg/L	1	< 0.02	1	< 0.02
Sulphur	mg/L	1	1.7	1	2.0

Notes:

“<” means values include results that were less than the laboratory’s method detection limit.

4.4 Forebay Contents – Summary of Results

As per OCWA’s sampling procedure, one Forebay sample is collected each month. Table 5 provides the results of the sample collected on July 14, 2026.

The Forebay is scheduled to be cleaned out this Fall along with the replacement of a defective valve. The scheduling of both the clean-out and the repair will be determined once the new

valve arrives. An application for an authorized planned bypass will be submitted to the MECP prior to undertaking the work.

Table 5: Forebay Contents Results for July 2026

Parameter	Units	No. of Samples	Result
BOD ₅	mg/L	1	22
TSS	mg/L	1	43
TP	mg/L	1	0.94
TAN	mg/L	1	9.1
TKN	mg/L	1	10.4

5 Reportable Events

No reportable events occurred to date in 2026.

6 Significant Maintenance

Table 6 summarizes important maintenance events to date for the 2026 calendar year.

Visits to the Cobalt Wetlands in summer months occur two to three times per week. Routine inspections and maintenance activities include visual checks of the effluent weir and chamber, inspection of the influent weir and overflow channel, removal of and debris as required, and verification that the heat trace and the effluent building heater are operating properly and maintained in good repair.

Table 6: Summary of Significant Maintenance Activities

Date	Maintenance Activity
January 27	Calibrated portable pH/DO meter
February 19	Performed annual inspection and maintenance on the influent and effluent auto-samplers, including hose replacement.
April 9	Verified calibration for the influent and effluent data loggers. Calibrated the effluent portable pH meter.
April 23	Verified the calibration of the influent flow meter.
April 24	Verified the calibration of the effluent flow meter.
May 29	The heating system in the influent building was investigated following a discrepancy between the thermostat setting and the actual heater temperature (approximately 5 °C difference). Aside from this variance, the system is operating normally.

7 Complaints

No complaints reported to date in 2026.

8 Third Party Inspections

No inspections occurred to date in 2026.

9 Health and Safety

No incidents reported to date in 2026.



APPENDIX A

Laboratory Certificates of Analysis

**TESTMARK Laboratories Ltd.***Committed to Quality and Service*

CERTIFICATE OF ANALYSIS

Client:	Ilona Bruneau	Work Order Number:	629365
Company:	OCWA - Temiskaming Shores - Cobalt Wetlands	PO #:	18164
Address:	322 Browning Street Haileybury, ON, P0J 1K0	Regulation:	Cobalt Wetlands DO #1-ROGQN & WSER
Phone:	(705) 648-4314	Project #:	120002745/Org #6022
Email:	ibruneau@ocwa.com	DWS #:	120002745
		Sampled By:	Trevor Legault
Date Order Received:	7/8/2026	Analysis Started:	7/8/2026
Arrival Temperature:	20.5 C	Analysis Completed:	7/17/2026

WORK ORDER SUMMARY

ANALYSES WERE PERFORMED ON THE FOLLOWING SAMPLES. THE RESULTS RELATE ONLY TO THE ITEMS TESTED.

Sample Description	Lab ID	Matrix	Type	Comments	Date Collected	Time Collected
CW S-4 Effluent	2306372	Wastewater	Comp		7/7/2026	8:44 AM
CW-S-5 Effluent	2306373	Wastewater	Grab		7/7/2026	8:46 AM

METHODS AND INSTRUMENTATION

THE FOLLOWING METHODS WERE USED FOR YOUR SAMPLE(S):

Method	Lab	Description	Reference
Alkalinity (A1.0)	Kirkland Lake	Determination of Alkalinity by Titration	Modified from APHA-2320B
Ammonia Water (A42)	Kirkland Lake	Determination of Ammonia/Ammonium in Water	Modified from EPA 350.1
BOD (A3)	Kirkland Lake	Determination of Biochemical Oxygen Demand (BOD) 5-Day	Modified from SM-5210 B
EC/TC/Back by MF on DC (A10)	Kirkland Lake	Determination of E. coli and Total Coliforms in water by Membrane Filtration on DC Media	Modified from MOE E3407
Fecal Coliforms by MF on mFC (A10)	Kirkland Lake	Determination of Thermotolerant Coliforms in water by Membrane Filtration on mFC media with Rosalic Acid	Modified from SM-9222 D
Field DO mg/L (R114)	Kirkland Lake	Client Supplied Field Determination of Dissolved Oxygen	Field Test
Field pH (R112)	Kirkland Lake	Client Supplied Field Determination of pH of Water	Field Test
Field Temp (R113)	Kirkland Lake	Client Supplied Field Determination of Temperature of Water	Field Test
TKN Water Dig. (A58)	Kirkland Lake	Determination of Total Kjeldahl Nitrogen in Waters with Block Digestion.	Modified from SM-4500 NORG-D

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CERTIFICATE OF ANALYSIS

OCWA - Temiskaming Shores - Cobalt Wetlands

Work Order Number: 629365

Method	Lab	Description	Reference
TP Water (A23.2)	Kirkland Lake	Determination of Total Phosphorus in Water.	Modified from EPA 365.3 and ESS 310.2,
TSS (A27)	Kirkland Lake	Determination of Total Suspended Solids in water by gravimetry	Modified from SM-2540

REPORT COMMENTS**Bacti Lot(s): 2318**

This report has been approved by:

Aline de Chevigny
Production Coordinator CET**WORK ORDER RESULTS**

Sample Description Sample Date/Time Lab ID	CW S - 4 Effluent 7/7/2026 8:44 AM 2306372			
General Chemistry	Result	MDL	Units	Criteria: Cobalt Wetlands DO #1-ROGQN & WSER
Ammonia (as N)	1.57	0.01	mg/L	~
M-Alkalinity (pH 4.5)	118	2	mg/L as CaCO ₃	~
Total Kjeldahl Nitrogen	2.3	0.4*	mg/L	~
Total Phosphorus (as P)	0.272	0.002	mg/L	1.5
Oxygen Demand	Result	MDL	Units	Criteria: Cobalt Wetlands DO #1-ROGQN & WSER
BOD (5 day)	1.7	0.5	mg/L	25
Solids	Result	MDL	Units	Criteria: Cobalt Wetlands DO #1-ROGQN & WSER
Total Suspended Solids	3	1	mg/L	25



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CERTIFICATE OF ANALYSIS

OCWA - Temiskaming Shores - Cobalt Wetlands

Work Order Number: 629365

Sample Description	CW - S - 5 Effluent			
Sample Date/Time	7/7/2026 8:46 AM			
Lab ID	2306373			
Field Parameters	Result	MDL	Units	Criteria: Cobalt Wetlands DO #1-ROGQN & WSER
Dissolved Oxygen (mg/L)	2.47	N/A	mg/L	~
Field pH	6.77	N/A	pH	~
Field Temp	20.7	N/A	°C	~
Microbiology	Result	MDL	Units	Criteria: Cobalt Wetlands DO #1-ROGQN & WSER
Escherichia coli	180 [120]	20	CFU/100mL	200
Fecal Coliforms	150 [140]	2	CFU/100mL	~
Total Coliform	2520 [2060]	20	CFU/100mL	~

LEGEND

Dates: Dates are formatted as mm/dd/year throughout this report.

TC: Total Coliforms.

MDL: Method detection limit or minimum reporting limit.

[]: Results for laboratory replicates are shown in square brackets immediately below the associated sample result for ease of comparison.

~: In a criteria column indicates the criteria is not applicable for the parameter row.

Quality Control: All associated Quality Control data is available on request.

Field Data: Reports containing Field Parameters represent data that has been collected and provided by the client. Testmark is not responsible for the validity of this data which may be used in subsequent calculations.

Sample Condition Deviations: A noted sample condition deviation may affect the validity of the result. Results apply to the sample(s) as received.

Reproduction of Report: Report shall not be reproduced, except in full, without the approval of Testmark Laboratories Ltd.

Regulation Comparisons: Disclaimer: Please note that regulation criteria are provided for comparative purposes, however the onus on ensuring the validity of this comparison rests with the client.

Dilution: In the MDL column an asterisk () indicates a sample dilution was performed.

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CERTIFICATE OF ANALYSIS

Client:	Ilona Bruneau	Work Order Number:	630261
Company:	OCWA - Temiskaming Shores - Cobalt Wetlands	PO #:	18164
Address:	322 Browning Street Haileybury, ON, P0J 1K0	Regulation:	Cobalt Wetlands DO #1-ROGQN & WSER
Phone:	(705) 648-4314	Project #:	120002745/Org #6022
Email:	ibruneau@ocwa.com	DWS #:	120002745
		Sampled By:	Trista Searle
Date Order Received:	7/15/2026	Analysis Started:	7/15/2026
Arrival Temperature:	20.3 C	Analysis Completed:	7/23/2026

WORK ORDER SUMMARY

ANALYSES WERE PERFORMED ON THE FOLLOWING SAMPLES. THE RESULTS RELATE ONLY TO THE ITEMS TESTED.

Sample Description	Lab ID	Matrix	Type	Comments	Date Collected	Time Collected
Forebay Contents	2309394	Wastewater	Grab	SAMPLE CONTAINED RESULT EXCEEDENCES.	7/14/2026	1:05 PM
CW-S1 Raw	2309395	Wastewater	Comp		7/14/2026	12:09 PM
CW S-2 Upstream	2309396	Wastewater	Grab		7/14/2026	12:52 PM
CW S-3 Downstream	2309397	Wastewater	Grab		7/14/2026	12:40 PM
CW S-4 Effluent	2309398	Wastewater	Comp		7/14/2026	12:23 PM
CW S-5 Effluent	2309399	Wastewater	Grab		7/14/2026	12:29 PM

METHODS AND INSTRUMENTATION

THE FOLLOWING METHODS WERE USED FOR YOUR SAMPLE(S):

Method	Lab	Description	Reference
Alkalinity (A1.0)	Kirkland Lake	Determination of Alkalinity by Titration	Modified from APHA-2320B
Ammonia Water (A42)	Garson	Determination of Ammonia/Ammonium in Water	Modified from EPA 350.1
Anions Water (mg/L by IC) (A5)	Garson	Determination of Anions in Water by Ion Chromatography	Modified from SW846-9056A
BOD (A3)	Kirkland Lake	Determination of Biochemical Oxygen Demand (BOD) 5-Day	Modified from SM-5210 B
CBOD (A3)	Kirkland Lake	Determination of Carbonaceous Biochemical Oxygen Demand (CBOD) 5-Day.	Modified from SM-5210-B
EC/TC/Back by MF on DC (A10)	Kirkland Lake	Determination of E. coli and Total Coliforms in water by Membrane Filtration on DC Media	Modified from MOE E3407



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CERTIFICATE OF ANALYSIS

OCWA - Temiskaming Shores - Cobalt Wetlands

Work Order Number: 630261

Method	Lab	Description	Reference
Fecal Coliforms by MF on mFC (A10)	Kirkland Lake	Determination of Thermotolerant Coliforms in water by Membrane Filtration on mFC media with Rosalic Acid	Modified from SM-9222 D
Field DO mg/L (R114)	Kirkland Lake	Client Supplied Field Determination of Dissolved Oxygen	Field Test
Field pH (R112)	Kirkland Lake	Client Supplied Field Determination of pH of Water	Field Test
Field Temp (R113)	Kirkland Lake	Client Supplied Field Determination of Temperature of Water	Field Test
ICPMS Reg. Water (A13)	Garson	Determination of Metals in Water by ICP/MS	Modified from SW846-6020A
Sulphide Water (A11)	Garson	Determination of Sulphide in Water	Modified from SM 4500S2 D
TKN Water Dig. (A58)	Garson	Determination of Total Kjeldahl Nitrogen in Waters with Block Digestion.	Modified from SM-4500 NORG-D
TP Water (A23.2)	Garson	Determination of Total Phosphorus in Water.	Modified from EPA 365.3 and ESS 310.2,
TSS (A27)	Kirkland Lake	Determination of Total Suspended Solids in water by gravimetry	Modified from SM-2540

This report has been approved by:

Aline de Chevigny

Production Coordinator CET

WORK ORDER RESULTS

**TESTMARK Laboratories Ltd.***Committed to Quality and Service***CERTIFICATE OF ANALYSIS**

OCWA - Temiskaming Shores - Cobalt Wetlands

Work Order Number: 630261

Sample Description	CW - S1 Raw			
Sample Date/Time	7/14/2026 12:09 PM			
Lab ID	2309395			
General Chemistry	Result	MDL	Units	Criteria: Cobalt Wetlands DO #1-ROGQN & WSER
Ammonia (as N)	6.22	0.05*	mg/L	~
Total Kjeldahl Nitrogen	4	2*	mg/L	~
Total Phosphorus (as P)	0.25	0.02*	mg/L	1.5
Oxygen Demand	Result	MDL	Units	Criteria: Cobalt Wetlands DO #1-ROGQN & WSER
BOD (5 day)	18	6	mg/L	25
Solids	Result	MDL	Units	Criteria: Cobalt Wetlands DO #1-ROGQN & WSER
Total Suspended Solids	11	1	mg/L	25

**TESTMARK Laboratories Ltd.***Committed to Quality and Service***CERTIFICATE OF ANALYSIS**

OCWA - Temiskaming Shores - Cobalt Wetlands

Work Order Number: 630261

Sample Description	CW S - 4 Effluent			
Sample Date/Time	7/14/2026 12:23 PM			
Lab ID	2309398			
Anions	Result	MDL	Units	Criteria: Cobalt Wetlands DO #1-ROGQN & WSER
Sulphate	4.1	0.5	mg/L	~
General Chemistry	Result	MDL	Units	Criteria: Cobalt Wetlands DO #1-ROGQN & WSER
Ammonia (as N)	0.42	0.01	mg/L	~
M-Alkalinity (pH 4.5)	117	2	mg/L as CaCO ₃	~
Sulphide (as H ₂ S)	<0.02 [<0.02]	0.02	mg/L	~
Total Kjeldahl Nitrogen	1.7	0.2*	mg/L	~
Total Phosphorus (as P)	0.176	0.002	mg/L	1.5
Metals	Result	MDL	Units	Criteria: Cobalt Wetlands DO #1-ROGQN & WSER
Sulfur	2.3	0.8	mg/L	~
Oxygen Demand	Result	MDL	Units	Criteria: Cobalt Wetlands DO #1-ROGQN & WSER
BOD (5 day)	3.3	0.5	mg/L	25
Carbonaceous BOD	0.9	0.5	mg/L	~
Solids	Result	MDL	Units	Criteria: Cobalt Wetlands DO #1-ROGQN & WSER
Total Suspended Solids	<2	2	mg/L	25

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OCWA - Temiskaming Shores - Cobalt Wetlands

Work Order Number: 630261

Sample Description	CW S - 5 Effluent			
Sample Date/Time	7/14/2026 12:29 PM			
Lab ID	2309399			
Field Parameters	Result	MDL	Units	Criteria: Cobalt Wetlands DO #1-ROGQN & WSER
Dissolved Oxygen (mg/L)	7.86	N/A	mg/L	~
Field pH	7.02	N/A	pH	~
Field Temp	25.5	N/A	°C	~
Microbiology	Result	MDL	Units	Criteria: Cobalt Wetlands DO #1-ROGQN & WSER
Escherichia coli	10	5	CFU/100mL	200
Fecal Coliforms	70	2	CFU/100mL	~
Total Coliform	180	5	CFU/100mL	~

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OCWA - Temiskaming Shores - Cobalt Wetlands

Work Order Number: 630261

Sample Description	CW S - 3 Downstream			
Sample Date/Time	7/14/2026 12:40 PM			
Lab ID	2309397			
Anions	Result	MDL	Units	Criteria: Cobalt Wetlands DO #1-ROGQN & WSER
Sulphate	3.5	0.5	mg/L	~
Field Parameters	Result	MDL	Units	Criteria: Cobalt Wetlands DO #1-ROGQN & WSER
Dissolved Oxygen (mg/L)	7.88	N/A	mg/L	~
Field pH	7.39	N/A	pH	~
Field Temp	26.2	N/A	°C	~
General Chemistry	Result	MDL	Units	Criteria: Cobalt Wetlands DO #1-ROGQN & WSER
Ammonia (as N)	0.12	0.01	mg/L	~
Sulphide (as H ₂ S)	<0.02	0.02	mg/L	~
Total Phosphorus (as P)	0.110	0.002	mg/L	1.5
Metals	Result	MDL	Units	Criteria: Cobalt Wetlands DO #1-ROGQN & WSER
Sulfur	2.0	0.8	mg/L	~
Microbiology	Result	MDL	Units	Criteria: Cobalt Wetlands DO #1-ROGQN & WSER
Escherichia coli	60	20	CFU/100mL	200
Fecal Coliforms	10 [8]	1	CFU/100mL	~
Total Coliform	920	20	CFU/100mL	~
Oxygen Demand	Result	MDL	Units	Criteria: Cobalt Wetlands DO #1-ROGQN & WSER
BOD (5 day)	0.8	0.5	mg/L	25
Solids	Result	MDL	Units	Criteria: Cobalt Wetlands DO #1-ROGQN & WSER
Total Suspended Solids	6.00	0.67	mg/L	25

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CERTIFICATE OF ANALYSIS

OCWA - Temiskaming Shores - Cobalt Wetlands

Work Order Number: 630261

Sample Description Sample Date/Time Lab ID	CW S - 2 Upstream 7/14/2026 12:52 PM 2309396			
Anions	Result	MDL	Units	Criteria: Cobalt Wetlands DO #1-ROGQN & WSER
Sulphate	3.4	0.5	mg/L	~
Field Parameters	Result	MDL	Units	Criteria: Cobalt Wetlands DO #1-ROGQN & WSER
Dissolved Oxygen (mg/L)	7.7	N/A	mg/L	~
Field pH	7.48	N/A	pH	~
Field Temp	27.4	N/A	°C	~
General Chemistry	Result	MDL	Units	Criteria: Cobalt Wetlands DO #1-ROGQN & WSER
Ammonia (as N)	<0.01	0.01	mg/L	~
Sulphide (as H ₂ S)	<0.02	0.02	mg/L	~
Total Phosphorus (as P)	0.082	0.002	mg/L	1.5
Metals	Result	MDL	Units	Criteria: Cobalt Wetlands DO #1-ROGQN & WSER
Sulfur	1.7	0.8	mg/L	~
Microbiology	Result	MDL	Units	Criteria: Cobalt Wetlands DO #1-ROGQN & WSER
Escherichia coli	50 [45]	5	CFU/100mL	200
Fecal Coliforms	45	5	CFU/100mL	~
Total Coliform	380 [390]	5	CFU/100mL	~
Oxygen Demand	Result	MDL	Units	Criteria: Cobalt Wetlands DO #1-ROGQN & WSER
BOD (5 day)	<0.5	0.5	mg/L	25
Solids	Result	MDL	Units	Criteria: Cobalt Wetlands DO #1-ROGQN & WSER
Total Suspended Solids	<0.67	0.67	mg/L	25

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CERTIFICATE OF ANALYSIS

OCWA - Temiskaming Shores - Cobalt Wetlands

Work Order Number: 630261

Sample Description Sample Date/Time Lab ID	Forebay Contents 7/14/2026 1:05 PM 2309394			
General Chemistry	Result	MDL	Units	Criteria: Cobalt Wetlands DO #1-ROGQN & WSER
Ammonia (as N)	9.1	0.1*	mg/L	~
Total Kjeldahl Nitrogen	10.4 [9.4]	0.4*	mg/L	~
Total Phosphorus (as P)	0.94	0.02*	mg/L	1.5
Oxygen Demand	Result	MDL	Units	Criteria: Cobalt Wetlands DO #1-ROGQN & WSER
BOD (5 day)	22	6	mg/L	25
Solids	Result	MDL	Units	Criteria: Cobalt Wetlands DO #1-ROGQN & WSER
Total Suspended Solids	43	2	mg/L	25

LEGEND

Dates: Dates are formatted as mm/dd/year throughout this report.

TC: Total Coliforms.

MDL: Method detection limit or minimum reporting limit.

[]: Results for laboratory replicates are shown in square brackets immediately below the associated sample result for ease of comparison.

~: In a criteria column indicates the criteria is not applicable for the parameter row.

Quality Control: All associated Quality Control data is available on request.

Exceedances: HIGHLIGHTED CELLS INDICATE THAT THE RESULT EXCEEDS A REGULATORY LIMIT. CALCULATED UNCERTAINTY ESTIMATIONS ARE NOT APPLIED FOR DETERMINING SAMPLE EXCEEDANCES.

Field Data: Reports containing Field Parameters represent data that has been collected and provided by the client. Testmark is not responsible for the validity of this data which may be used in subsequent calculations.

Sample Condition Deviations: A noted sample condition deviation may affect the validity of the result. Results apply to the sample(s) as received.

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Regulation Comparisons: Disclaimer: Please note that regulation criteria are provided for comparative purposes, however the onus on ensuring the validity of this comparison rests with the client.

Dilution: In the MDL column an asterisk () indicates a sample dilution was performed.

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CERTIFICATE OF ANALYSIS

Client:	Ilona Bruneau	Work Order Number:	630929
Company:	OCWA - Temiskaming Shores - Cobalt Wetlands	PO #:	18164
Address:	322 Browning Street Haileybury, ON, P0J 1K0	Regulation:	Cobalt Wetlands DO #1-ROGQN & WSER
Phone:	(705) 648-4314	Project #:	120002745/Org #6022
Email:	ibruneau@ocwa.com	DWS #:	120002745
		Sampled By:	Shannen Knott
Date Order Received:	7/22/2026	Analysis Started:	7/22/2026
Arrival Temperature:	15.4 C	Analysis Completed:	7/28/2026

WORK ORDER SUMMARY

ANALYSES WERE PERFORMED ON THE FOLLOWING SAMPLES. THE RESULTS RELATE ONLY TO THE ITEMS TESTED.

Sample Description	Lab ID	Matrix	Type	Comments	Date Collected	Time Collected
CW-S-4 Effluent	2311807	Wastewater	Comp		7/21/2026	11:47 AM
CW S-5 Effluent	2311808	Wastewater	Grab		7/21/2026	11:51 AM

METHODS AND INSTRUMENTATION

THE FOLLOWING METHODS WERE USED FOR YOUR SAMPLE(S):

Method	Lab	Description	Reference
Alkalinity (A1.0)	Kirkland Lake	Determination of Alkalinity by Titration	Modified from APHA-2320B
Ammonia Water (A42)	Garson	Determination of Ammonia/Ammonium in Water	Modified from EPA 350.1
BOD (A3)	Kirkland Lake	Determination of Biochemical Oxygen Demand (BOD) 5-Day	Modified from SM-5210 B
EC/TC/Back by MF on DC (A10)	Kirkland Lake	Determination of E. coli and Total Coliforms in water by Membrane Filtration on DC Media	Modified from MOE E3407
Fecal Coliforms by MF on mFC (A10)	Kirkland Lake	Determination of Thermotolerant Coliforms in water by Membrane Filtration on mFC media with Rosalic Acid	Modified from SM-9222 D
Field DO mg/L (R114)	Kirkland Lake	Client Supplied Field Determination of Dissolved Oxygen	Field Test
Field pH (R112)	Kirkland Lake	Client Supplied Field Determination of pH of Water	Field Test
Field Temp (R113)	Kirkland Lake	Client Supplied Field Determination of Temperature of Water	Field Test
TKN Water Dig. (A58)	Garson	Determination of Total Kjeldahl Nitrogen in Waters with Block Digestion.	Modified from SM-4500 NORG-D

**TESTMARK Laboratories Ltd.**

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CERTIFICATE OF ANALYSIS

OCWA - Temiskaming Shores - Cobalt Wetlands

Work Order Number: 630929

Method	Lab	Description	Reference
TP Water (A23.2)	Garson	Determination of Total Phosphorus in Water.	Modified from EPA 365.3 and ESS 310.2,
TSS (A27)	Kirkland Lake	Determination of Total Suspended Solids in water by gravimetry	Modified from SM-2540

REPORT COMMENTS**Bacti Lot(s): 2318**

This report has been approved by:

Aline de Chevigny
Production Coordinator CET**WORK ORDER RESULTS**

Sample Description Sample Date/Time Lab ID	CW - S - 4 Effluent 7/21/2026 11:47 AM 2311807			
General Chemistry	Result	MDL	Units	Criteria: Cobalt Wetlands DO #1-ROGQN & WSER
Ammonia (as N)	2.10	0.01	mg/L	~
M-Alkalinity (pH 4.5)	108	2	mg/L as CaCO ₃	~
Total Kjeldahl Nitrogen	1.9	0.2*	mg/L	~
Total Phosphorus (as P)	0.116 [0.116]	0.002	mg/L	1.5
Oxygen Demand	Result	MDL	Units	Criteria: Cobalt Wetlands DO #1-ROGQN & WSER
BOD (5 day)	1.6	0.5	mg/L	25
Solids	Result	MDL	Units	Criteria: Cobalt Wetlands DO #1-ROGQN & WSER
Total Suspended Solids	<0.67	0.67	mg/L	25



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CERTIFICATE OF ANALYSIS

OCWA - Temiskaming Shores - Cobalt Wetlands

Work Order Number: 630929

Sample Description	CW S - 5 Effluent			
Sample Date/Time	7/21/2026 11:51 AM			
Lab ID	2311808			
Field Parameters	Result	MDL	Units	Criteria: Cobalt Wetlands DO #1-ROGQN & WSER
Dissolved Oxygen (mg/L)	2.22	N/A	mg/L	~
Field pH	6.12	N/A	pH	~
Field Temp	18.1	N/A	°C	~
Microbiology	Result	MDL	Units	Criteria: Cobalt Wetlands DO #1-ROGQN & WSER
Escherichia coli	32	2	CFU/100mL	200
Fecal Coliforms	36 [52]	2	CFU/100mL	~
Total Coliform	50	2	CFU/100mL	~

LEGEND

Dates: Dates are formatted as mm/dd/year throughout this report.

TC: Total Coliforms.

MDL: Method detection limit or minimum reporting limit.

[]: Results for laboratory replicates are shown in square brackets immediately below the associated sample result for ease of comparison.

~: In a criteria column indicates the criteria is not applicable for the parameter row.

Quality Control: All associated Quality Control data is available on request.

Field Data: Reports containing Field Parameters represent data that has been collected and provided by the client. Testmark is not responsible for the validity of this data which may be used in subsequent calculations.

Sample Condition Deviations: A noted sample condition deviation may affect the validity of the result. Results apply to the sample(s) as received.

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Regulation Comparisons: Disclaimer: Please note that regulation criteria are provided for comparative purposes, however the onus on ensuring the validity of this comparison rests with the client.

Dilution: In the MDL column an asterisk () indicates a sample dilution was performed.

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CERTIFICATE OF ANALYSIS

Client:	Ilona Bruneau	Work Order Number:	631871
Company:	OCWA - Temiskaming Shores - Cobalt Wetlands	PO #:	18164
Address:	322 Browning Street Haileybury, ON, P0J 1K0	Regulation:	Cobalt Wetlands DO #1-ROGQN & WSER
Phone:	(705) 648-4314	Project #:	120002745/Org #6022
Email:	ibruneau@ocwa.com	DWS #:	120002745
		Sampled By:	Trista Searle
Date Order Received:	7/29/2026	Analysis Started:	7/29/2026
Arrival Temperature:	15.2 C	Analysis Completed:	8/6/2026

WORK ORDER SUMMARY

ANALYSES WERE PERFORMED ON THE FOLLOWING SAMPLES. THE RESULTS RELATE ONLY TO THE ITEMS TESTED.

Sample Description	Lab ID	Matrix	Type	Comments	Date Collected	Time Collected
CW S-4 Effluent	2314956	Wastewater	Comp		7/28/2026	10:46 AM
CW S-5 Effluent	2314957	Wastewater	Grab		7/28/2026	10:44 AM

METHODS AND INSTRUMENTATION

THE FOLLOWING METHODS WERE USED FOR YOUR SAMPLE(S):

Method	Lab	Description	Reference
Alkalinity (A1.0)	Kirkland Lake	Determination of Alkalinity by Titration	Modified from APHA-2320B
Ammonia Water (A42)	Garson	Determination of Ammonia/Ammonium in Water	Modified from EPA 350.1
BOD (A3)	Kirkland Lake	Determination of Biochemical Oxygen Demand (BOD) 5-Day	Modified from SM-5210 B
EC/TC/Back by MF on DC (A10)	Kirkland Lake	Determination of E. coli and Total Coliforms in water by Membrane Filtration on DC Media	Modified from MOE E3407
Fecal Coliforms by MF on mFC (A10)	Kirkland Lake	Determination of Thermotolerant Coliforms in water by Membrane Filtration on mFC media with Rosalic Acid	Modified from SM-9222 D
Field DO mg/L (R114)	Kirkland Lake	Client Supplied Field Determination of Dissolved Oxygen	Field Test
Field pH (R112)	Kirkland Lake	Client Supplied Field Determination of pH of Water	Field Test
Field Temp (R113)	Kirkland Lake	Client Supplied Field Determination of Temperature of Water	Field Test
TKN Water Dig. (A58)	Garson	Determination of Total Kjeldahl Nitrogen in Waters with Block Digestion.	Modified from SM-4500 NORG-D



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CERTIFICATE OF ANALYSIS

OCWA - Temiskaming Shores - Cobalt Wetlands

Work Order Number: 631871

Method	Lab	Description	Reference
TP Water (A23.2)	Garson	Determination of Total Phosphorus in Water.	Modified from EPA 365.3 and ESS 310.2,
TSS (A27)	Kirkland Lake	Determination of Total Suspended Solids in water by gravimetry	Modified from SM-2540

REPORT COMMENTS

Bacti Lot(s): 2318

This report has been approved by:

Aline de Chevigny
Production Coordinator CET

WORK ORDER RESULTS

Sample Description Sample Date/Time Lab ID	CW S - 5 Effluent 7/28/2026 10:44 AM 2314957			
Field Parameters	Result	MDL	Units	Criteria: Cobalt Wetlands DO #1-ROGQN & WSER
Dissolved Oxygen (mg/L)	3.97	N/A	mg/L	~
Field pH	6.74	N/A	pH	~
Field Temp	19.2	N/A	°C	~
Microbiology	Result	MDL	Units	Criteria: Cobalt Wetlands DO #1-ROGQN & WSER
Escherichia coli	182	2	CFU/100mL	200
Fecal Coliforms	170 [176]	2	CFU/100mL	~
Total Coliform	218	2	CFU/100mL	~



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CERTIFICATE OF ANALYSIS

OCWA - Temiskaming Shores - Cobalt Wetlands

Work Order Number: 631871

Sample Description	CW S - 4 Effluent			
Sample Date/Time	7/28/2026 10:46 AM			
Lab ID	2314956			
General Chemistry	Result	MDL	Units	Criteria: Cobalt Wetlands DO #1-ROGQN & WSER
Ammonia (as N)	2.13	0.01	mg/L	~
M-Alkalinity (pH 4.5)	104	2	mg/L as CaCO ₃	~
Total Kjeldahl Nitrogen	10	1*	mg/L	~
Total Phosphorus (as P)	0.149	0.002	mg/L	1.5
Oxygen Demand	Result	MDL	Units	Criteria: Cobalt Wetlands DO #1-ROGQN & WSER
BOD (5 day)	1.8	0.5	mg/L	25
Solids	Result	MDL	Units	Criteria: Cobalt Wetlands DO #1-ROGQN & WSER
Total Suspended Solids	<0.67	0.67	mg/L	25

LEGEND

Dates: Dates are formatted as mm/dd/year throughout this report.

TC: Total Coliforms.

MDL: Method detection limit or minimum reporting limit.

[]: Results for laboratory replicates are shown in square brackets immediately below the associated sample result for ease of comparison.

~: In a criteria column indicates the criteria is not applicable for the parameter row.

Quality Control: All associated Quality Control data is available on request.

Field Data: Reports containing Field Parameters represent data that has been collected and provided by the client. Testmark is not responsible for the validity of this data which may be used in subsequent calculations.

Sample Condition Deviations: A noted sample condition deviation may affect the validity of the result. Results apply to the sample(s) as received.

Reproduction of Report: Report shall not be reproduced, except in full, without the approval of Testmark Laboratories Ltd.

Regulation Comparisons: Disclaimer: Please note that regulation criteria are provided for comparative purposes, however the onus on ensuring the validity of this comparison rests with the client.

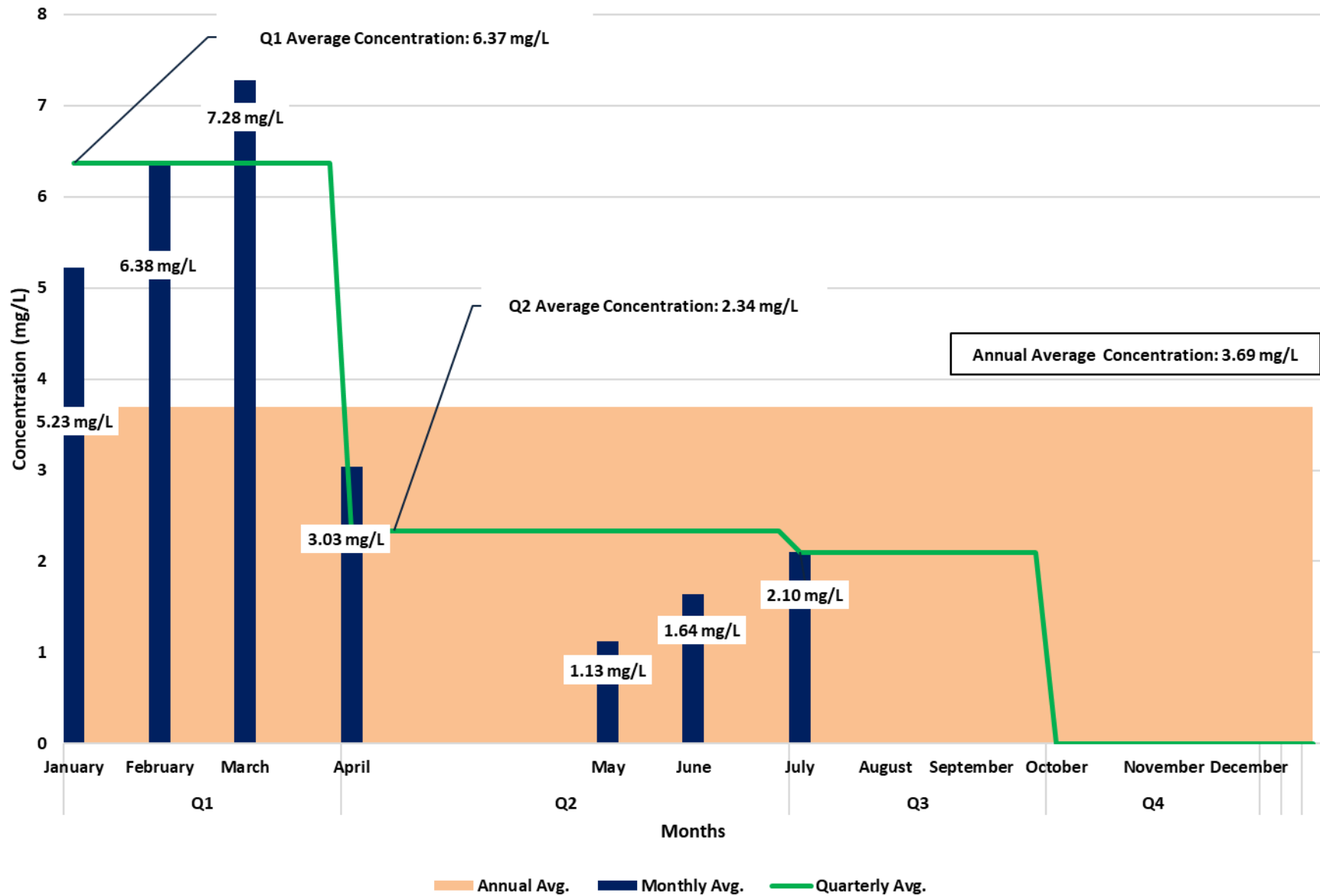
Dilution: In the MDL column an asterisk () indicates a sample dilution was performed.



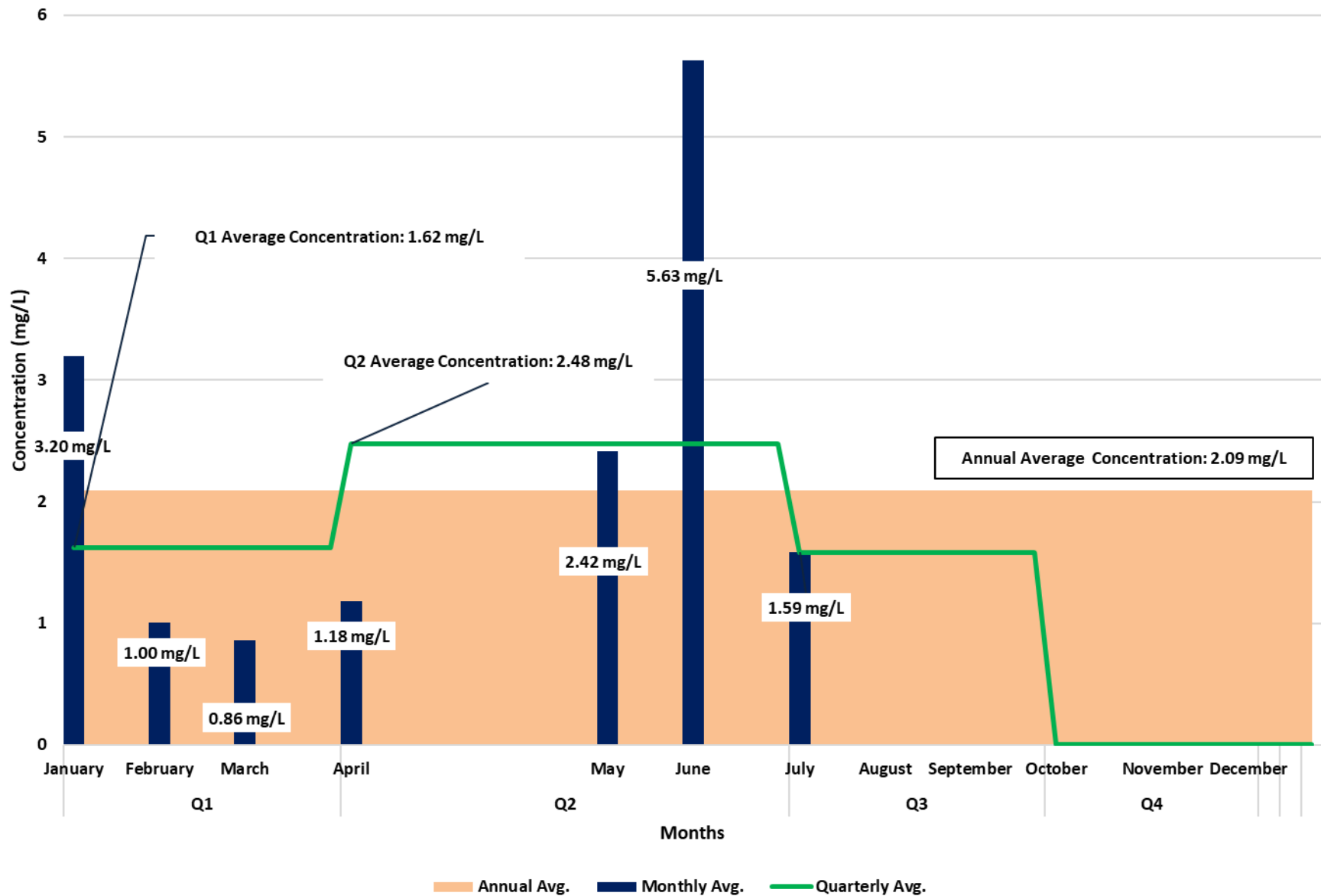
APPENDIX B

2026 Effluent Concentrations (BOD₅, TSS, TP, TAN, TKN)

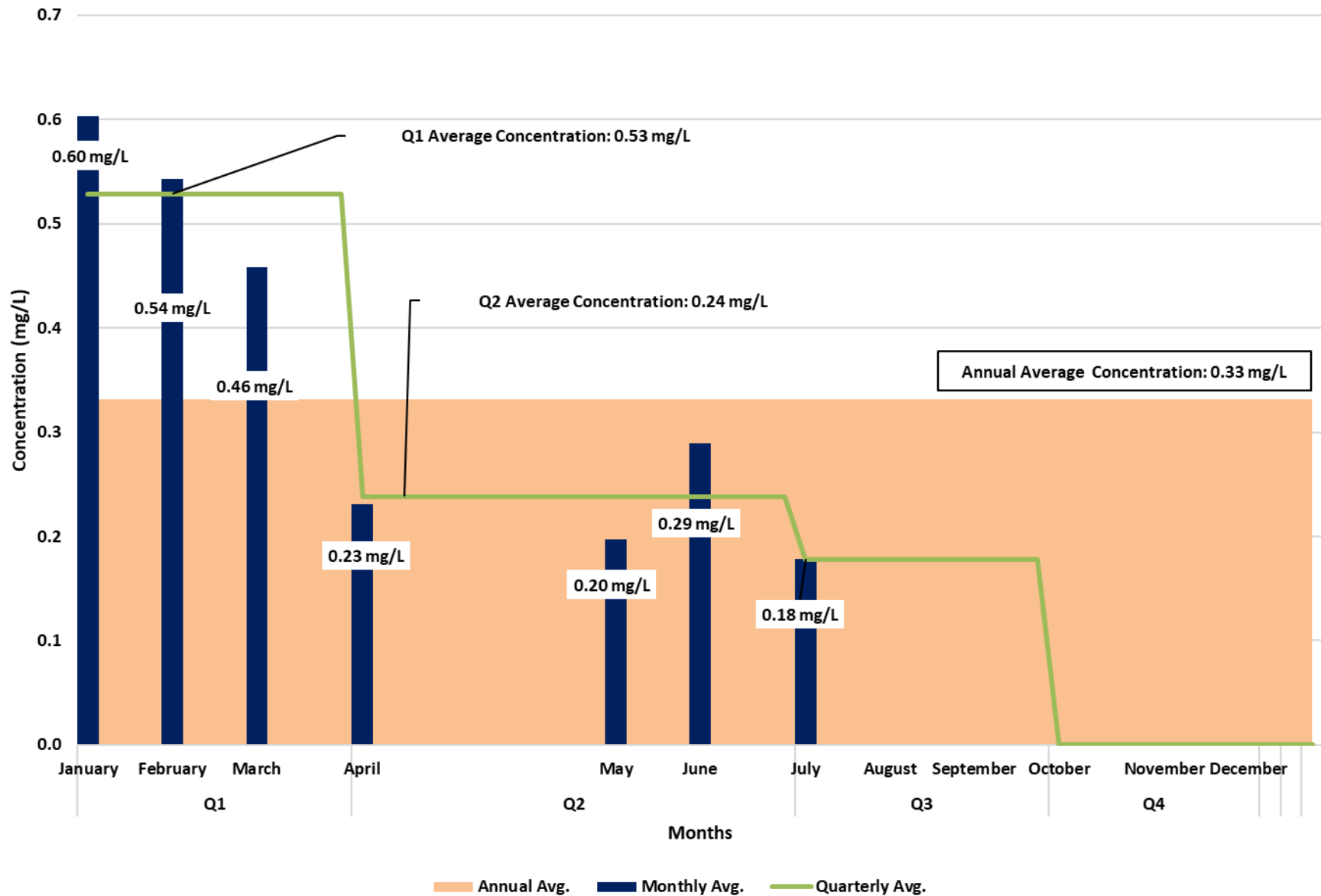
Cobalt Wetlands BOD₅ Average Concentration in the Effluent (2026)



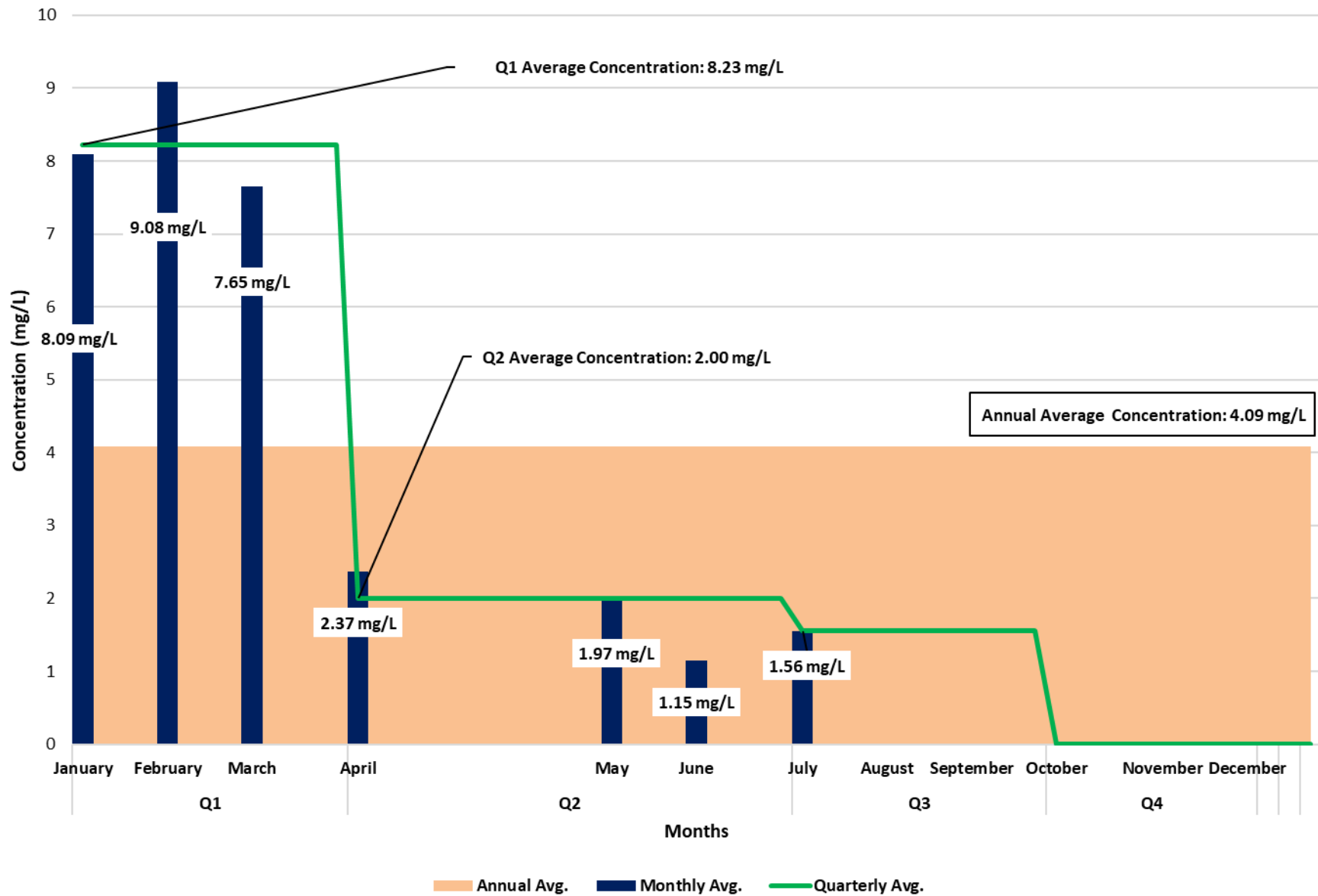
Cobalt Wetlands TSS Average Concentration in the Effluent (2026)



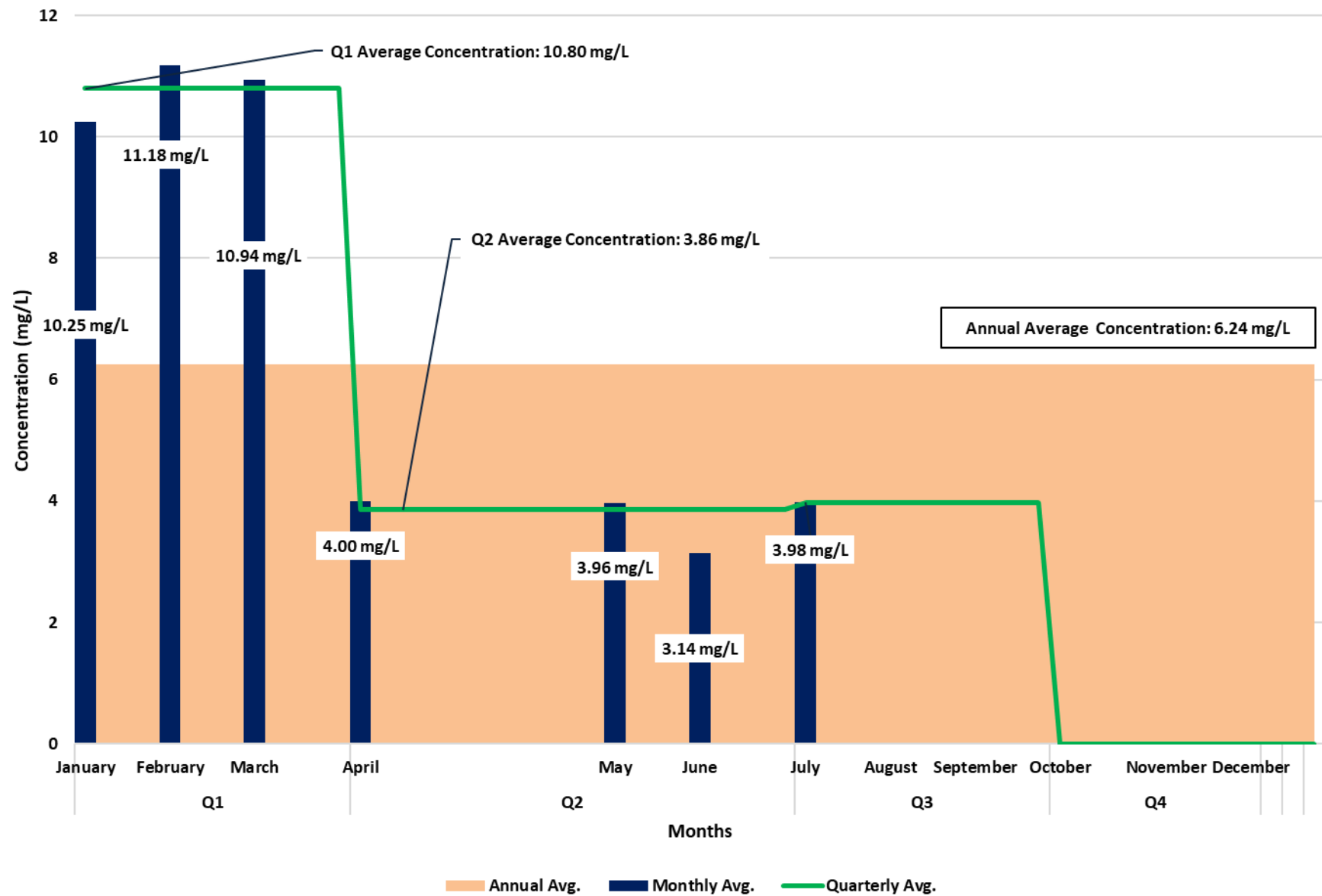
Cobalt Wetlands TP Average Concentration in the Effluent (2026)



Cobalt Wetlands TAN Average Concentration in the Effluent (2026)



Cobalt Wetlands TKN Average Concentration in the Effluent (2026)

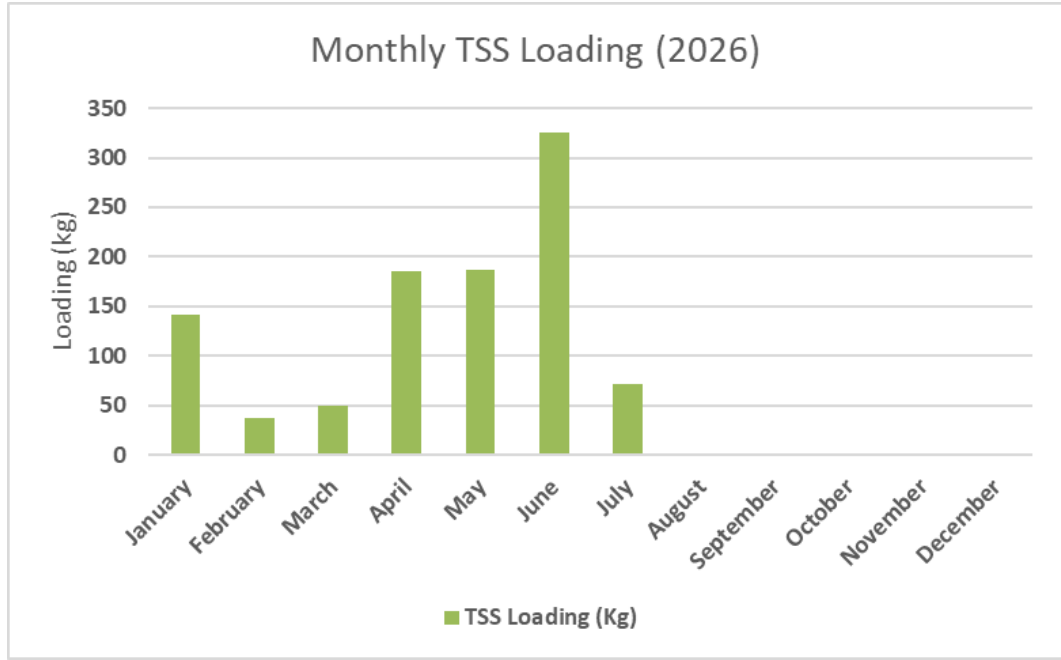
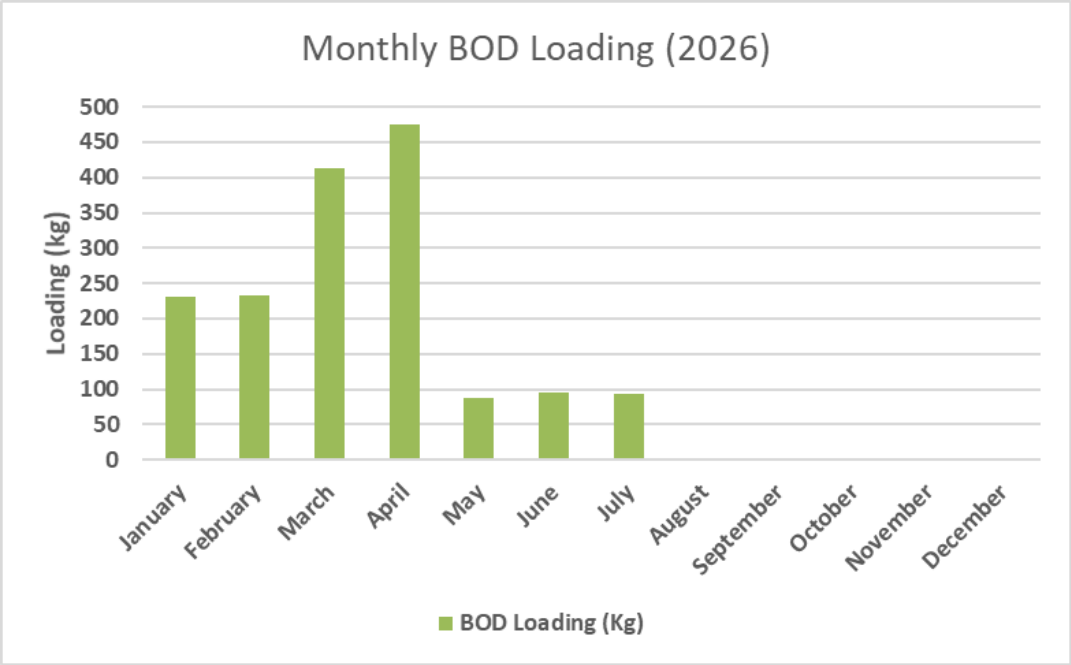


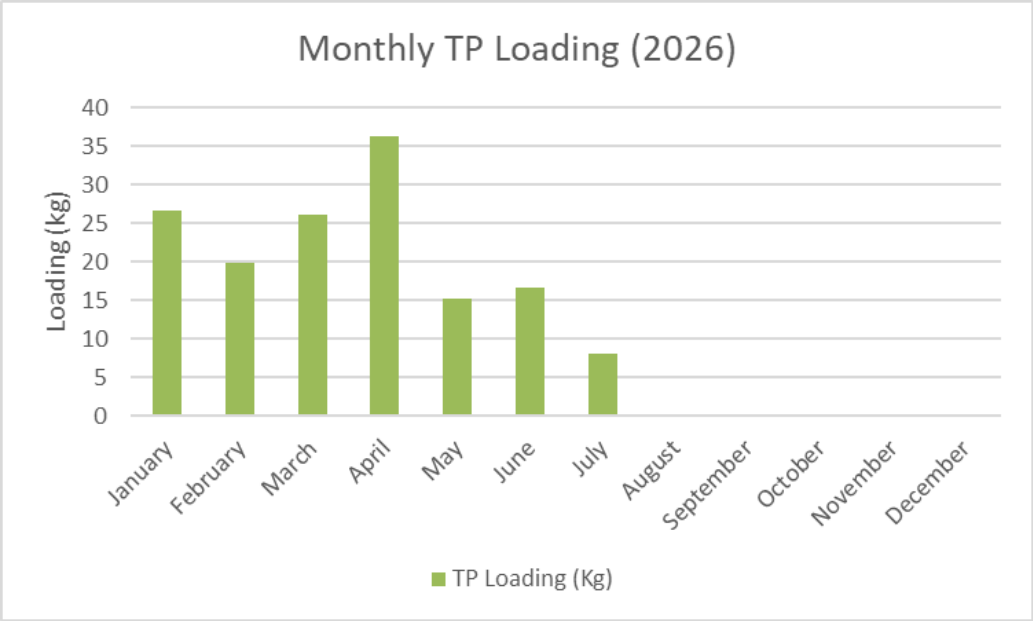


APPENDIX C

2026 Effluent Loadings

(BOD₅, TSS, TP)







THE CORPORATION OF THE TOWN OF COBALT

BY-LAW NO. 2026-28

Being a By-Law to Confirm the Proceedings of Council of the Corporation of the Town of Cobalt

WHEREAS pursuant to Section 5(1) of the Municipal Act, 2001, S.O. 2001, c. 25 as amended, the powers of a municipality shall be exercised by its Council;

AND WHEREAS pursuant to Section 5(3) of the Municipal Act, 2001, S.O. 2001, c. 25 as amended, a municipal power, including a municipality's capacity rights, powers and privileges under Section 8 of the Municipal Act, 2001, S.O. 2001, c. 25 as amended, shall be exercised by By-Law unless the municipality is specifically authorized to do otherwise;

AND WHEREAS it is deemed expedient that the proceedings of the Council of the Corporation of the Town of Cobalt at this Session be confirmed and adopted by By-Law.

NOW THEREFORE BE IT RESOLVED THAT the Council of the Corporation of the Town of Cobalt hereby enacts as follows:

1. **THAT** the actions of the Council of The Corporation of the Town of Cobalt in respect of all recommendations in reports and minutes of committees, all motions and resolutions and all actions passed and taken by the Council of the Corporation of the Town of Cobalt, documents and transactions entered into during the September 15, 2026 Council meeting, are hereby adopted and confirmed, as if the same were expressly embodied in this By-Law.
2. **THAT** the Mayor and proper officials of The Corporation of the Town of Cobalt are hereby authorized and directed to do all the things necessary to give effect to the action of the Council of The Corporation of the Town of Cobalt during the said meetings referred to in paragraph 1 of this By-Law.
3. **THAT** the Mayor and the Chief Administrative Officer or Clerk are hereby authorized and directed to execute all documents necessary to the action taken by this Council as described in Section 1 of this By-Law and to affix the Corporate Seal of The Corporation of the Town of Cobalt to all documents referred to in said paragraph 1.

TAKEN AS READ a first, second and third time and passed this 15th day of September, 2026.

AND FURTHER THAT the said By-Law be signed and sealed by the Mayor and Clerk.

Pat Anderson, Mayor

Jaime Allen, Clerk