

**To:** Rex Vaughn, Chair  
Cedar Lake Improvement Board

**Date:** February 18, 2026

**From:** Mark Kieser, Senior Scientist  
Marwan Al Hinaai, Project Scientist  
Kieser & Associates, LLC

**cc:** Project Files

**RE:** **Shallow Groundwater Investigation Results for Areas Adjacent to Jones Ditch on Cedar Lake Conducted on November 24, 2025**

## 1. Site Overview

On November 24, 2025, K&A installed six temporary shallow groundwater wells along approximately 150 feet of shoreline on Cedar Lake, just south of Jones Ditch (Figure 1). The wells were placed along the residential shoreline beginning near the wetland transition at the northern end of this area extending south across two properties. The northern property included two wells, while four wells were installed on the adjacent southern property. The southern-most well was located approximately 35 feet from the southern property boundary. This boundary was identified by the landowner who was present during K&A siting of initial sampling locations.



*Figure 1. Six temporary shallow groundwater wells installed and sampled on November 24, 2025 in the vicinity of Jones Ditch.*

This groundwater sampling was a follow-up to recommendations from K&A's November 18, 2025 Technical Memorandum to the CLIB discussing findings of surface water testing on August 27, 2025.

One-inch diameter stainless steel well screens (one foot in length) with stainless steel riser pipe were spaced roughly 25 feet apart and manually driven to depths of approximately 1.5-2.0 feet below ground surface. All well materials were power-washed before installation. Subsequent decontamination included a 10% bleach solution rinse, followed by a deionized water rinse. Groundwater was encountered at depths comparable to the adjacent lake water elevation. All wells were positioned approximately 5-10 feet inland from the shoreline.

The southern property showed evidence of recent shoreline disturbance (beach sand regrading) across an approximately 15 to 20-foot wide strip along the length of the property. Soils appeared to have been removed and replaced with beach sand containing remnants of grass. The disturbed sandy areas showed strong evidence of recent goose activity, including visible goose footprints and fecal material. The property owner reported that approximately 50-100 geese had been congregating in this area earlier in the week.

The shoreline lacked riparian vegetation and consisted of a mowed lawn extending to the water's edge. Given the extent of goose activity, microbial source tracking via PCR analysis for goose DNA was recommended for shallow groundwater samples collected along this segment of shoreline.

## **2. Groundwater Well Performance and Sample Collection**

The northern-most well yielded limited groundwater and produced insufficient volume for PCR filtration (500 mL requirement). However, samples were otherwise collected from this well for *E. coli*, total coliforms, and soluble reactive phosphorus (SRP). The remaining five wells produced sufficient water for all analytical parameters, including PCR filtration for subsequent DNA analysis where deemed appropriate.

Options to also sample surface flows in Jones Ditch were abandoned. At the foot bridge crossing Jones Ditch from the northern residential property to the CLIB property on the north side of the ditch, no measurable flow was observed.

At the Jones Ditch CLIB property, a temporary stainless steel well screen and riser (approximately 6 feet in length) were installed roughly 15 feet lakeward from the former lawn's edge and directly downgradient of the former septic tank and drain field identified in documentation provided by the CLIB. No groundwater recovery was achieved, and therefore no samples were collected at this CLIB property location.

### 3. Groundwater Characteristics

Several shallow groundwater wells exhibited field observations of note including:

- A faint hydrogen sulfide odor was detected in select wells
- Groundwater Well #1 appeared slightly turbid during sampling
- Groundwater Well #3 exhibited a reddish coloration
- Remaining wells were generally clear

Ground surfaces on most shoreline areas were as spongy while traversing these properties indicating a high groundwater table. Additionally, luxurious green grass growth was noted north of the southern residence, suggesting localized nutrient enrichment.

### 4. Sampling Methods and Handling

All groundwater samples were collected using low-flow peristaltic pumping techniques. Each well was purged of approximately 1.0-1.5 gallons of water for approximately 15 minutes prior to sampling. Dedicated new sample tubing was used for each well to minimize cross-contamination. Decontamination procedures included:

- Silicone tubing rinsed with ~15% dilute bleach
- Followed by a distilled water rinse
- Final deionized water rinse prior to reusing

Samples were stored on ice immediately after collection and transported the same day to analytical laboratories.

### 5. Laboratory Submittals

#### *Microbial Analyses*

Samples for *E. coli* and total coliforms were submitted to Enviro Lab Services, Inc. in Oscoda, Michigan on November 24, 2025. Collection of groundwater samples occurred between approximately 10:30 AM and 12:30 PM; delivery to the lab was completed by 1:30 PM.

#### *Nutrient Analysis*

Samples for SRP were filtered within four hours of collection and submitted to Great Lakes Environmental Center (GLEC) laboratory in Traverse City, Michigan, on the same date of collection.

#### *PCR Analysis*

Five groundwater samples were filtered for PCR analysis and placed on ice for same day delivery to GLEC. GLEC then froze samples according to PCR protocol. Samples for subsequent DNA-specific determinations will be performed by GLEC on select samples based on coordination between K&A and CLIB representative, Rex Vaughn.

## 6. Groundwater Sampling Results

Table 1 summarizes SRP and bacteria testing results for groundwater sampling on November 24, 2025. (Attachment A contains copies of lab reports.) Figure 2 shows SRP results mapped for all six groundwater wells. SRP concentrations ranged from 2.9 µg/L to 30.4 µg/L. Based on recent and extensive groundwater sampling along shorelines of Black Lake (Cheboygan County), background SRP concentrations along undeveloped or unimpacted shorelines are about 2 µg/L. Thus, measured SRP levels generally above 2 µg/L may suggest a local septic system drain field source.

*E. coli* was detected in only two wells at very low levels: well #3 at 1 CFU/100 mL, and well #4 at 4 CFU/100mL. Total coliform bacteria were detected in all groundwater samples ranging from 2 to 83 CFU/100mL. The highest total coliform count and the highest SRP level were both observed in temporary groundwater well #5. Avian sourcing of bacteria cannot be ruled out based on landowner observations of large gatherings of geese at these shoreline locations.

*Table 1. Summary of nearshore groundwater sampling results from November 11, 2025 K&A monitoring.*

Sample Description	SRP (µg/L)	E. coli (CFU/100ml)	Total Coliform (CFU/100ml)
Temporary GW-1	10.2	ND	40
Temporary GW-2	5.3	ND	32
Temporary GW-3	3.5	1	30
Temporary GW-4	2.9	4	24
Temporary GW-5	30.4	ND	83
Temporary GW-6	13	ND	2

## 7. Jones Ditch and Septic System Considerations

The absence of measurable flow at the Jones Ditch foot bridge prevented direct evaluation during this event of potential surface water phosphorus and bacterial discharges. Historical data suggest the presence of *E. coli* within the ditch, though at lower concentrations than those observed near the ditch mouth. It was noted in field observations that the northern property's septic drain field (on the south side of Jones Ditch) may have potential hydraulic connectivity with Jones Ditch due to its close proximity. This transport pathway may demand further evaluation.

Conversations with the second homeowner at the southern-most shoreline property examined, indicated that the original cottage was demolished approximately two years prior to this sampling event with the new home having a drain field set back from the house towards West Cedar Lake Road. The owner described an old 6-inch corrugated drain tile he found during new construction. The tile line extend from the former structure toward a buried gravel field located between the shoreline and the original cottage. This gravel bed would have been approximately 50-75 feet from the shoreline. The drain tile

was removed by the new owner, but not the gravel bed. The highest shoreline concentrations of SRP (30.4 and 13  $\mu\text{g/L}$ ) were observed downgradient of the historic gravel bed described by the current owner.



Figure 2. SRP levels ( $\mu\text{g/L}$ ) at the six temporary shallow groundwater wells at Jones Ditch based on November 11, 2025 sampling.

## 8. Wildlife Observations

No definitive evidence of beaver activity was found within approximately 50 feet of the shoreline along the CLIB property or nearby areas at the time of the November 24, 2025 sampling event. Though these observations were incidental and not part of a specific wildlife survey, beavers are mammals and shed fecal bacteria, including *E. coli*, in their waste. However, the impact level depends on population density and hydrology; therefore, in small ditches or wetlands, it is important to look for signs of wildlife sources that could contribute to bacterial signals. Such observations will continue to be considered in future 2026 bacterial and phosphorus sampling in this area of Jones Ditch.

## 9. Key Findings and Recommendations

### Key Observations

- Minor aesthetic indicators of reducing conditions (odor, discoloration) in select wells suggest the possible presence of degrading organic waste associated with septic system leachate.

- Shallow groundwater appears to be impacted by SRP in at least 5 of the 6 Cedar Lake shoreline locations sampled. The concentration of 30.4 µg/L in front of a former septic system gravel bed is sufficient to stimulate luxuriant *Chara* growth observed in the summer of 2025 at this shoreline location. The highest nearshore/in-lake surface water concentration at this location was 3.3 µg/L from K&A's August 27, 2025 monitoring. This abandoned gravel field may continue to leach soluble phosphorus into the near future.
- Non-detect to low level *E. coli* counts in groundwater at the shoreline suggest that previously noted bacterial levels in nearshore surface waters from August 2025 sampling are not likely associated with the two active residential septic systems.
- Strong evidence of concentrated goose activity along the disturbed sandy shoreline of the southern residence may suggest avian fecal deposits as a source of observed bacteria in groundwater (and previously in surface water sampling).

### ***Recommendations***

1. Complete PCR analyses to evaluate human contributions to microbial loading from select November 11, 2025 samples.
2. Consider additional analysis of existing PCR samples for mammalian and/or avian DNA sources.
3. Conduct follow-up sampling during periods of measurable Jones Ditch flow in the spring of 2026 for SRP, bacteria and PCR analyses.
4. Evaluate septic system proximity and potential hydrologic connectivity to surface waters along Jones Ditch.
5. Consider additional groundwater sample collection on the CLIB property in relation to the former septic system.
6. Consider PCR analysis of additional shoreline surface water samples collected in the summer of 2026.
7. Consider nearshore/in-lake groundwater testing along this shoreline in 2026.

# ATTACHMENT A

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Laboratory Reports for November 24, 2025 Groundwater  
Sampling on Cedar Lake



USEPA Lab ID: MI9885

Michigan EGLE Lab ID: 9115

Laboratory Report

Order ID: 25112404 Client: Cedar Lake Improvement Board
Sample ID: 25112404-1 Project Name: E. Coli/Coliform Testing
Client Sample ID: Temporary GW-1 Address: Cedar Lake, Greenbush Twp.
Sample Matrix: Lake Water Contact: Mark Kieser
Sample Date/Time: 11/24/2025 10:30 Reporting To: mkieser@kieser-associates.com
Received Date/Time: 11/24/2025 13:31
Sample Collected By: Mark Kieser Phone #: 269-344-7117
Read Date/Time: 11/25/2025 14:35 Report Date: 11/26/2025

TEST: E. coli / Total Coliforms Analyst: Travis Kirin Analysis Date: 11/24/2025 2:35:00 PM

Table with 8 columns: Analyte, CAS #, Method, Result, Units, Reporting Limit, MCL^A, MCLG^A. Rows include Total Coliforms (N/A, mColiBlue-24, 40, CFU/100mL, 1, 0, 0) and E. coli (N/A, mColiBlue-24, ND, CFU/100mL, 1, 0, 0).

Definitions:

ND = Not detected
POS = Analyte detected in sample above reporting limit
MCL = Maximum contaminant level
MCLG = Maximum contaminant level goal

Comments:

FINAL APPROVAL

APPROVED BY: [Signature] Lab Director Date: 11/26/2025

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The results herein relate only to the items/batch tested, calibrated, or sampled in this report. "ND" indicates that the analyte was not detected nor present in the sample tested at levels at or above the limit of quantitation. Results only pertain to sample as recived or sampled by Enviro Lab Services Inc.

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Enviro Lab Services, Inc.
4150 Arrow Street, Oscoda, MI 48750
Phone: (248)882-1245



USEPA Lab ID: MI9885

Michigan EGLE Lab ID: 9115

Laboratory Report

Order ID: 25112404 Client: Cedar Lake Improvement Board
Sample ID: 25112404-2 Project Name: E. Coli/Coliform Testing
Client Sample ID: Temporary GW-2 Address: Cedar Lake, Greenbush Twp.
Sample Matrix: Lake Water Contact: Mark Kieser
Sample Date/Time: 11/24/2025 10:35 Reporting To: mkieser@kieser-associates.com
Received Date/Time: 11/24/2025 13:31
Sample Collected By: Mark Kieser Phone #: 269-344-7117
Read Date/Time: 11/25/2025 14:40 Report Date: 11/26/2025

TEST: E. coli / Total Coliforms Analyst: Travis Kirin Analysis Date: 11/24/2025 2:40:00 PM

Table with 8 columns: Analyte, CAS #, Method, Result, Units, Reporting Limit, MCL^A, MCLG^A. Rows include Total Coliforms and E. coli.

Definitions:

ND = Not detected
POS = Analyte detected in sample above reporting limit
MCL = Maximum contaminant level
MCLG = Maximum contaminant level goal

Comments:

FINAL APPROVAL

APPROVED BY: [Signature] Lab Director Date: 11/26/2025

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USEPA Lab ID: MI9885

Michigan EGLE Lab ID: 9115

Laboratory Report

**Order ID:** 25112404      **Client:** Cedar Lake Improvement Board  
**Sample ID:** 25112404-3      **Project Name:** E. Coli/Coliform Testing  
**Client Sample ID:** Temporary GW-3      **Address:** Cedar Lake, Greenbush Twp.  
**Sample Matrix:** Lake Water      **Contact:** Mark Kieser  
**Sample Date/Time:** 11/24/2025 11:10      **Reporting To:** mkieser@kieser-associates.com  
**Received Date/Time:** 11/24/2025 13:31  
**Sample Collected By:** Mark Kieser      **Phone #:** 269-344-7117  
**Read Date/Time:** 11/25/2025 14:45      **Report Date:** 11/26/2025

**TEST: E. coli / Total Coliforms**      **Analyst:** Travis Kirin      **Analysis Date:** 11/24/2025 2:45:00 PM

Analyte	CAS #	Method	Result	Units	Reporting Limit	MCL <sup>A</sup>	MCLG <sup>A</sup>
Total Coliforms	N/A	mColiBlue-24	30	CFU/100mL	1	0	0
E. coli	N/A	mColiBlue-24	1	CFU/100mL	1	0	0

Definitions:

- ND = Not detected
- POS = Analyte detected in sample above reporting limit
- MCL = Maximum contaminant level
- MCLG = Maximum contaminant level goal

Comments:

FINAL APPROVAL

APPROVED BY:		Lab Director	Date:	11/26/2025
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USEPA Lab ID: MI9885

Michigan EGLE Lab ID: 9115

Laboratory Report

Order ID: 25112404 Client: Cedar Lake Improvement Board
Sample ID: 25112404-4 Project Name: E. Coli/Coliform Testing
Client Sample ID: Temporary GW-4 Address: Cedar Lake, Greenbush Twp.
Sample Matrix: Lake Water Contact: Mark Kieser
Sample Date/Time: 11/24/2025 11:40 Reporting To: mkieser@kieser-associates.com
Received Date/Time: 11/24/2025 13:31
Sample Collected By: Mark Kieser Phone #: 269-344-7117
Read Date/Time: 11/25/2025 14:50 Report Date: 11/26/2025

TEST: E. coli / Total Coliforms Analyst: Travis Kirin Analysis Date: 11/24/2025 2:50:00 PM

Table with 8 columns: Analyte, CAS #, Method, Result, Units, Reporting Limit, MCL^A, MCLG^A. Rows include Total Coliforms and E. coli.

Definitions:

- ND = Not detected
POS = Analyte detected in sample above reporting limit
MCL = Maximum contaminant level
MCLG = Maximum contaminant level goal

Comments:

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APPROVED BY: [Signature] Lab Director Date: 11/26/2025

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USEPA Lab ID: MI9885

Michigan EGLE Lab ID: 9115

Laboratory Report

**Order ID:** 25112404      **Client:** Cedar Lake Improvement Board  
**Sample ID:** 25112404-5      **Project Name:** E. Coli/Coliform Testing  
**Client Sample ID:** Temporary GW-5      **Address:** Cedar Lake, Greenbush Twp.  
**Sample Matrix:** Lake Water      **Contact:** Mark Kieser  
**Sample Date/Time:** 11/24/2025 12:05      **Reporting To:** mkieser@kieser-associates.com  
**Received Date/Time:** 11/24/2025 13:31  
**Sample Collected By:** Mark Kieser      **Phone #:** 269-344-7117  
**Read Date/Time:** 11/25/2025 14:55      **Report Date:** 11/26/2025

**TEST: E. coli / Total Coliforms**      **Analyst:** Travis Kirin      **Analysis Date:** 11/24/2025 2:55:00 PM

Analyte	CAS #	Method	Result	Units	Reporting Limit	MCL <sup>A</sup>	MCLG <sup>A</sup>
Total Coliforms	N/A	mColiBlue-24	83	CFU/100mL	1	0	0
E. coli	N/A	mColiBlue-24	ND	CFU/100mL	1	0	0

Definitions:

- ND = Not detected
- POS = Analyte detected in sample above reporting limit
- MCL = Maximum contaminant level
- MCLG = Maximum contaminant level goal

Comments:

FINAL APPROVAL

APPROVED BY:		Lab Director	Date:	11/26/2025
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USEPA Lab ID: MI9885

Michigan EGLE Lab ID: 9115

Laboratory Report

**Order ID:** 25112404      **Client:** Cedar Lake Improvement Board  
**Sample ID:** 25112404-6      **Project Name:** E. Coli/Coliform Testing  
**Client Sample ID:** Temporary GW-6      **Address:** Cedar Lake, Greenbush Twp.  
**Sample Matrix:** Lake Water      **Contact:** Mark Kieser  
**Sample Date/Time:** 11/24/2025 12:30      **Reporting To:** mkieser@kieser-associates.com  
**Received Date/Time:** 11/24/2025 13:31  
**Sample Collected By:** Mark Kieser      **Phone #:** 269-344-7117  
**Read Date/Time:** 11/25/2025 15:00      **Report Date:** 11/26/2025

TEST: E. coli / Total Coliforms      Analyst: Travis Kirin      Analysis Date: 11/24/2025 3:00:00 PM

Analyte	CAS #	Method	Result	Units	Reporting Limit	MCL <sup>A</sup>	MCLG <sup>A</sup>
Total Coliforms	N/A	mColiBlue-24	2	CFU/100mL	1	0	0
E. coli	N/A	mColiBlue-24	ND	CFU/100mL	1	0	0

Definitions:

- ND = Not detected
- POS = Analyte detected in sample above reporting limit
- MCL = Maximum contaminant level
- MCLG = Maximum contaminant level goal

Comments:

FINAL APPROVAL

APPROVED BY:		Lab Director	Date:	11/26/2025
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 4150 Arrow Street, Oscoda, MI 48750  
 Phone: (248)882-1245





Great Lakes Environmental Center

**Project Number: 2592-B10**

**December 5, 2025**

**Kieser & Associates-Cedar Lake  
536 E. Michigan Ave., Suite 300  
Kalamazoo, MI 49007**

**Attention: Mark Kieser**

**Project Description: Water Quality Sampling**

**Dear Client,**

**Enclosed is a copy of your laboratory report relating to samples, as they were received. All tests were performed within the maximum holding times and have met or exceeded QC criteria. Test results are in compliance with The NELAC Institute Standards. Visit our web site for a full list of tests for which GLEC (Lab 2059) is accredited through the New Hampshire Environmental Laboratory Accreditation Program (NH ELAP).**

**Please don't hesitate to call if you have questions or require further information.**

**Sincerely,**

**Michelle A. Moore  
Laboratory Coordinator and Research Scientist/Nutrient Chemistry**



# Great Lakes Environmental Center

739 Hastings St., Traverse City MI 49686 - (231) 941-2230 - FAX: (231) 941-2240

Client ID: 2592-B10

Kieser-Cedar Lake

## REPORT OF ANALYSIS

Soluble Reactive Phosphorus

<u>Lab ID</u>	<u>Sample Description</u>	<u>Sample Date</u>	<u>Result</u>	<u>Units</u>	<u>Rep Limit</u>	<u>MDL</u>	<u>Qualifier</u>	<u>Analysis Date</u>	<u>Comments</u>	<u>Initials</u>
3K112400056	Temporary GW-1	11/24/2025	0.0102	mg/L	0.001	0.00047		11/26/2025		BSC
3K112400057	Temporary GW-2	11/24/2025	0.0053	mg/L	0.001	0.00047		11/26/2025		BSC
3K112400058	Temporary GW-3	11/24/2025	0.0035	mg/L	0.001	0.00047		11/26/2025		BSC
3K112400059	Temporary GW-4	11/24/2025	0.0029	mg/L	0.001	0.00047		11/26/2025		BSC
3K112400060	Temporary GW-5	11/24/2025	0.0304	mg/L	0.004	0.00188		11/26/2025		BSC
3K112400061	Temporary GW-6	11/24/2025	0.0130	mg/L	0.001	0.00047		11/26/2025		BSC

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### LabQualifiers:

*U - Analyte not detected.*

*J - Result between MDL and RL should be considered estimated.*

*Page 1 of 1*

*Friday, December 05, 2025*

**Method:**

SM 4500-P F

