



Office of Water Resources, Michael A. Bilandic Building, 160 N. LaSalle St., S-703, Chicago, IL 60601

**Illinois Department of Natural Resources, Office of Water Resources**  
**Public Notice**

**Maintenance Dredging of the Park Avenue Boat Launch,  
in Lake Michigan, at 8 Park Avenue, Highland Park, Illinois 60035**

The Park District of Highland Park, 636 Ridge Road, Highland Park, IL 60201, has applied for an Illinois Department of Natural Resources, Office of Water Resources 10-year maintenance dredging permit to annually dredge approximately 2,400 cubic yards of material from the bed of Lake Michigan at the Park Avenue Boat Launch, in Lake Michigan, at 8 Park Avenue, Highland Park, IL 60035.

The applicant proposes to annually dredge approximately 2,400 cubic yards of material from the bed of Lake Michigan at the Park Avenue Boat Launch and dispose of the dredged material in the Lake Michigan nearshore south of the boat launch. Approval by the Illinois Environmental Protection Agency will be required prior to each year's dredging. The proposed project will be reviewed using the Department's Part 3704 Rules. A location map and plans are attached to this notice.

**No work is to start on this project unless and until such a time that the permit is issued.**

Inquiries and comments regarding the proposed project can be directed to Eric Otto, Senior Water Resources Engineer, of the Chicago Office at IDNR/OWR, 160 N. LaSalle Street, Suite S-703, Chicago, Illinois 60601 or [eric.otto@illinois.gov](mailto:eric.otto@illinois.gov).

An expanded version of the public notice can be viewed at <https://dnr.illinois.gov/waterresources/publicnotices.htm>.

Comments will be accepted through **March 28, 2025**.



636 Ridge Road  
Highland Park, IL 60035  
847.831.3810 | pdhp.org

October 16, 2024

Soren Hall  
Section 408 Coordinator & Regulatory Project Manager  
US Army Corps of Engineers, Chicago District  
Regulatory Branch – East Section  
231 South LaSalle Street, Suite 1500  
Chicago, Illinois 60604

James Kessen, PE  
Illinois Department of Natural Resources  
Office of Water Resources  
160 North LaSalle Street, Suite S-730  
Chicago, Illinois 60601

Mr. Darren Gove  
Illinois Environmental Protection Agency  
Bureau of Water  
1021 North Grand Avenue East  
Springfield, Illinois, 62794

**Subject: Park Avenue Boat Launch – Maintenance Dredging Project**  
Joint Application  
8 Park Avenue  
Highland Park, Illinois 60035

Dear Regulatory Representatives:

On behalf of the Park District of Highland Park, please find the attached completed joint application and supplemental information for the referenced project. Included with the application are proposed plans, photo exhibits, and additional information for the yearly maintenance dredging of the Park Avenue Boat Ramp by the Park District of Highland Park.

The Park District of Highland Park currently has a 10-year maintenance dredging permit, which will expire on December 31, 2025. The intention is to re-apply for a similar permit, as the need to annually dredge still exists. The fluctuation of the Lake Michigan water levels and storm activity results in the deposition of sand at the entrance of the ramp. Similarly with the existing permit, the dredged material would be placed in-water near the adjacent beach area to the southwest.



636 Ridge Road  
Highland Park, IL 60035  
847.831.3810 | pdhp.org

If no action were taken it would be difficult for personal watercraft users to utilize the boat ramp.

The Park District of Highland respectfully requests a timely review of this application. Thank you in advance for your consideration. If you have any questions or comments, please feel free to contact me at [bromes@pdhp.org](mailto:bromes@pdhp.org) or at 847-579-3119.

Sincerely,

Brian Romes  
Executive Director, Park District of Highland Park

**JOINT APPLICATION FOR INDIVIDUAL PERMIT**

**For**

**Park Avenue Boat Launch – Maintenance Dredging Project**

**Park District of Highland Park**

**8 Park Avenue**

**Highland Park, IL 60035**

Prepared for



**Park District of Highland Park**

636 Ridge Road  
Highland Park, IL 60035

Prepared by

**SMITHGROUP**

35 East Wacker Dr, #900  
Chicago, IL 60601

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**TAB 1**

**Joint Application Form**

# JOINT APPLICATION FORM FOR ILLINOIS

## ITEMS 1 AND 2 FOR AGENCY USE

1. Application Number	2. Date Received
-----------------------	------------------

### 3. and 4. (SEE SPECIAL INSTRUCTIONS) NAME, MAILING ADDRESS AND TELEPHONE NUMBERS

3a. Applicant's Name: <b>Brian Romes</b> Company Name (if any) : Park District of Highland Park Address: <b>636 Ridge Rd                  Highland Park, IL 60035</b>  Email Address:	3b. Co-Applicant/Property Owner Name (if needed or if different from applicant): Ghida S. Neukirch Company Name (if any): City of Highland Park Address: <b>1707 St. Johns Avenue                  Highland Park, IL 60035</b>  Email Address:	4. Authorized Agent (an agent is not required): <b>Lindsey Mathus</b> Company Name (if any): SmithGroup Address: <b>35 E. Wacker Dr., #900                  Chicago, IL 60601</b>  Email Address:
Applicant's Phone Nos. w/area code Business: Residence: Cell: Fax:	Applicant's Phone Nos. w/area code Business: Residence: Cell: Fax:	Agent's Phone Nos. w/area code Business: Residence: Cell: Fax:

### STATEMENT OF AUTHORIZATION

I hereby authorize, SmithGroup to act in my behalf as my agent in the processing of this application and to furnish, upon request, supplemental information in support of this permit application.

October 16, 2024

Applicant's Signature
Date

### 5. ADJOINING PROPERTY OWNERS (Upstream and Downstream of the water body and within Visual Reach of Project)

Name	Mailing Address	Phone No. w/area code
a. Anne Kaplan		
b. Anne Kaplan		
c.		
d.		

6. PROJECT TITLE:  
**Park Avenue Boat Launch - Maintenance Dredging Project**

7. PROJECT LOCATION:  
 8 Park Avenue, Highland Park, IL 60035

LATITUDE: 42.19029 °N LONGITUDE: -87.78722 °W	UTM's Northing: Easting:										
STREET, ROAD, OR OTHER DESCRIPTIVE LOCATION 0.75 miles northeast of intersection of Central Ave & St. Johns Ave	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 15%;">LEGAL DESCRIPT</th> <th style="width: 15%;">QUARTER</th> <th style="width: 15%;">SECTION</th> <th style="width: 15%;">TOWNSHIP NO.</th> <th style="width: 15%;">RANGE</th> </tr> <tr> <td></td> <td style="text-align: center;">SE SW</td> <td style="text-align: center;">23 24</td> <td style="text-align: center;">43N</td> <td style="text-align: center;">12E</td> </tr> </table>	LEGAL DESCRIPT	QUARTER	SECTION	TOWNSHIP NO.	RANGE		SE SW	23 24	43N	12E
LEGAL DESCRIPT	QUARTER	SECTION	TOWNSHIP NO.	RANGE							
	SE SW	23 24	43N	12E							
<input checked="" type="checkbox"/> IN OR <input type="checkbox"/> NEAR CITY OF TOWN (check appropriate box) Municipality Name <b>Highland Park</b>	WATERWAY <b>Lake Michigan</b>										
COUNTY STATE ZIP CODE <b>Lake IL 60035</b>	RIVER MILE (if applicable)										

Revised 2010

- Corps of Engineers    
  IL Dep't of Natural Resources    
  IL Environmental Protection Agency    
  Applicant's Copy

8. PROJECT DESCRIPTION (Include all features):

The project involves annually dredging approximately 2,400 CY of material from the entrance of the boat launch facility and placing material in Lake Michigan as shown on the plans.

9. PURPOSE AND NEED OF PROJECT:

The purpose of the project is to allow for safe use and navigation of the users of the boat launch facility.

**COMPLETE THE FOLLOWING FOUR BLOCKS IF DREDGED AND/OR FILL MATERIAL IS TO BE DISCHARGED**

10. REASON(S) FOR DISCHARGE:

To maintain boat launch depths and keep the sand material in the littoral system

11. TYPE(S) OF MATERIAL BEING DISCHARGED AND THE AMOUNT OF EACH TYPE IN CUBIC YARDS FOR WATERWAYS:

TYPE: sand, i.e. 90% retaining on #200 sieve

AMOUNT IN CUBIC YARDS:

sand - 2,400 CY annually

12. SURFACE AREA IN ACRES OF WETLANDS OR OTHER WATERS FILLED (See Instructions)

0.3 acres - approximately

13. DESCRIPTION OF AVOIDANCE, MINIMIZATION AND COMPENSATION (See instructions)

Due to the nature of the project and the minimal environmental impacts, compensatory mitigation is not planned.

14. Date activity is proposed to commence

5/1/2026

Date activity is expected to be completed

5/15/2036

15. Is any portion of the activity for which authorization is sought now complete? Yes  No

Month and Year the activity was completed Yes, under current annual dredging permit

NOTE: If answer is "YES" give reasons in the Project Description and Remarks section. Indicate the existing work on drawings.

16. List all approvals or certification and denials received from other Federal, interstate, state, or local agencies for structures, construction, discharges or other activities described in this application.

<u>Issuing Agency</u>	<u>Type of Approval</u>	<u>Identification No.</u>	<u>Date of Application</u>	<u>Date of Approval</u>	<u>Date of Denial</u>

17. CONSENT TO ENTER PROPERTY LISTED IN PART 7 ABOVE IS HEREBY GRANTED.

Yes

No

18. APPLICATION VERIFICATION (SEE SPECIAL INSTRUCTIONS)

Application is hereby made for the activities described herein. I certify that I am familiar with the information contained in the application, and that to the best of my knowledge and belief, such information is true, complete, and accurate. I further certify that I possess the authority to undertake the proposed activities.

10/25/2024

\_\_\_\_\_  
Signature of Applicant or Authorized Agent

\_\_\_\_\_  
Date

\_\_\_\_\_  
Signature of Applicant or Authorized Agent

\_\_\_\_\_  
Date

\_\_\_\_\_  
Signature of Applicant or Authorized Agent

\_\_\_\_\_  
Date

Corps of Engineers  
Revised 2010

IL Dep't of Natural Resources

IL Environmental Protection  
Agency

Applicant's Copy  
Agency

SEE INSTRUCTIONS FOR ADDRESS



**LOCATION MAP**

SEE ATTACHED PLAN SET

Revised 2010

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IL Dep't of Natural Resources

IL Environmental Protection Agency

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**PLAN VIEW**

SEE ATTACHED PLAN SET

**FOR AGENCY USE ONLY**

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IL Dep't of Natural Resources

IL Environmental Protection Agency

Applicant's Copy

## **TAB 2**

### **Introduction**

**Project Description**

**Existing Conditions**

**Qualitative Habitat Assessment**

**Mitigation**

## TAB 2

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### Project Description

The Park District of Highland Park (PDHP) with the partnership of the City of Highland Park is requesting a continuation of the yearly maintenance dredging at the Park Avenue Boat Launch Facility in Lake County, Illinois. The proposed activity intended to be reauthorized under similar permits with the USACE, IDNR, and Illinois EPA Water Quality Certification. The project limits are shown on the attached permit set.

The proposed work will consist of the yearly dredging of sand material (2,400 CY annually) at the entrance of the boat launch facility and placed in an open water location as shown on the plans.

The purpose of the project is to restore adequate water depths for safe navigation at the boat launch while keeping the sand material into the littoral system.

The need for the project is a result of the fluctuation in Lake Michigan water levels combined with storm activity resulting in the deposition of sand at the ramp entrance, which poses as a determinant to safe navigation.

The proposed work is shown in the permit plans included in Tab 3.

Attached please find the Joint Application form. The proposed work will be below the OHWM of Lake Michigan. Please note that the OHWM was established based on field identified physical indicators per USACE/IDNR guidance and surveyed in June of 2021.

### Existing Conditions

Existing land use within and immediately adjacent to the project limits includes a public boat launch facility with an adjacent public beach area that is used by a local sailing facility. The boat launch is used by watercraft users to deploy their vessels. The replacement of the adjacent breakwater, boat ramp, and docks were authorized under permits LRC-2021-00800 and LM2022002 and construction was completed in the summer of 2023. The existing maintenance dredging permit numbers are IDNR permit # LM2015005 and ILEPA Permit # 2015-LM-59537.

### Qualitative Habitat Assessment

Very little habitat is present in the proposed work areas due to the presence of historic shoreline stabilization and recreational land uses directly adjacent to the water's edge. The lake substrate appears comprised mainly of sand. There is not visible aquatic vegetation present within the proposed work area. Terrestrial vegetation is not present in the project area due to the presence of a beach area and the upland water plant parking lot.

The nearest tributary, the Waukegan River, is approximately 12 miles north of the project area. Millard Park with upland ravines and other aquatic resources is approximately 1 mile south of the project area.

There are no known reef/shoal or other habitat features within 1 mile of the project area.

The construction plans in Tab 3 show the shoreline and lakebed contours and grades as they appeared in summer of 2021. Recent soundings after the May 2024 dredging event are shown on the plans.

### Mitigation

The proposed work will minimize impacts to Waters of the US to the maximum extent practicable. The work is anticipated to be conducted by mechanical means and will be conducted in a manner that limits the potential for environmental impacts, therefore, compensatory mitigation is not planned.

**TAB 3**

**Permit Drawing Set**

# Park Avenue Boat Launch Maintenance Dredging Project

## Highland Park, IL

OCTOBER 7, 2024  
ISSUED FOR PERMIT

SmithGroup Project Number: 15403.000

### Sheet List Table

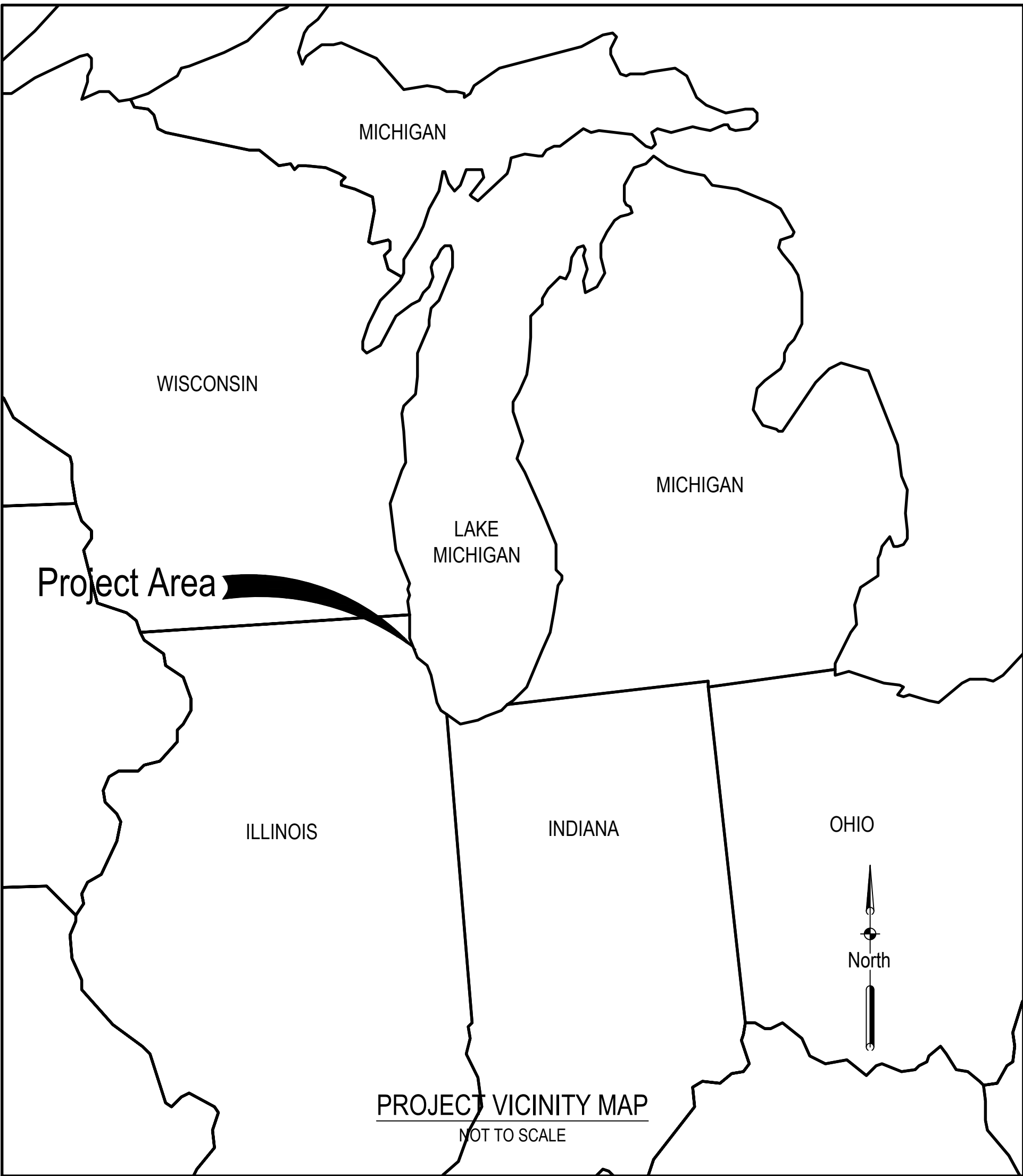
Sheet Number	Sheet Title
G-001	COVER SHEET
CV100	EXISTING CONDITIONS PLAN
CS100	SITE PLAN
CS300	SITE SECTIONS

Prepared for:  
Park District of Highland Park  
636 Ridge Road  
Highland Park, IL 60035



Prepared by:  
**SMITHGROUP**

35 EAST WACKER  
SUITE 900  
CHICAGO, IL 60601  
312.641.0770  
www.smithgroup.com



FILE:C:\Users\jmathrus\SmithGroup\Companies\nc\PRJ - 15403 - SmithGroup - SmithGroup\CAD\05 Civil\SAND DREDGING PERMIT\SHEET\15403-G-001.dwg USER:jmathrus DATE:Oct, 07 2024 TIME: 03:06 pm

FILE:C:\Users\lmothus\SmithGroup\Companies\inc\PRJ-15403-SAND DREDGING PERMIT\05 Civil\0100.dwg USER:lmothus DATE:Oct. 07 2024 TIME: 03:07 pm



**SHEET NOTES**

1. SURVEYED BY GSD PROFESSIONAL SERVICES INC. ON JUNE 23RD, 2021. VERTICAL DATUM IS IGLD85.
2. OHWM SURVEYED BASED OFF VISUAL OBSERVATION, APPROX. ELEVATION OF 582.0' IN 2021.
3. EOW SURVEYED BASED OFF VISUAL OBSERVATION, APPROX. ELEVATION OF 580.2' IN 2021.
4. RECENT SOUNDINGS FROM MAY 2024 SHOWN ARE RELATIVE TO AVG. MAY 2024 WATER ELEV. OF 579.5'.

Owner:  
**PARK DISTRICT OF HIGHLAND PARK**

**SMITHGROUP**

35 EAST WACKER  
SUITE 900  
CHICAGO, IL 60601  
312.641.0770  
www.smithgroup.com

**LEGEND**

- LIMITS OF WORK
- - - ORDINARY HIGH WATER MARK
- - - EDGE OF WATER
- - - EXISTING MAJOR CONTOUR
- - - EXISTING MINOR CONTOUR
- x 573.5 MAY 2024 SOUNDING (APPROX. LOCATION)

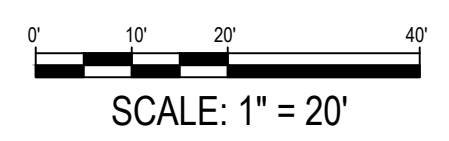
ISSUED FOR	REV	DATE
ISSUED FOR PERMIT		10/07/2024

SEALS AND SIGNATURES

KEY PLAN

PROJECT NORTH

DRAWING TITLE  
**EXISTING CONDITIONS**



SCALE: 15403.000

PROJECT NUMBER

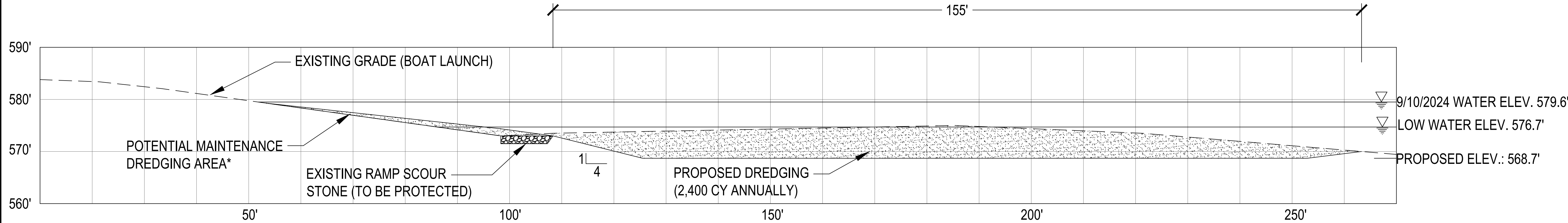
**CV100**

DRAWING NUMBER





FILE: C:\Users\lmothus\SmithGroup\Companies\Inc\PRJ - 15403 - SmithGroup - SmithGroup\CAD\05 Civil\_SAND DREDGING PERMIT\SHEET\15403-CS300.dwg USER: mothus DATE: Oct, 07 2024 TIME: 03:07 pm



\*NOTE: THIS AREA DOES NOT NEED TO BE DREDGED TODAY, HOWEVER, THERE IS A POTENTIAL THAT ACCUMULATED SAND WILL NEED TO BE REMOVED AS PART OF THE MAINTENANCE DREDGING ACTIVITIES.

① MAINTENANCE DREDGING SECTION

SCALE: 1" = 10'

**PARK AVENUE  
MAINTENANCE  
DREDGING**  
 31 PARK AVENUE  
 HIGHLAND PARK, IL 60035  
 Owner:  
 PARK DISTRICT  
 OF HIGHLAND PARK

**SMITHGROUP**

35 EAST WACKER  
 SUITE 900  
 CHICAGO, IL 60601  
 312.641.0770  
 www.smithgroup.com

ISSUED FOR	REV	DATE
ISSUED FOR PERMIT		10/07/2024

SEALS AND SIGNATURES

KEY PLAN

DRAWING TITLE **SECTIONS**

SCALE

PROJECT NUMBER 15403.000

DRAWING NUMBER **CS300**

**TAB 4**

**Site Photographs**



Photo 1: Boat launch area in July 2023 facing southwest



Photo 2: Boat launch facility in July 2023 facing southeast



**Photo 3: Adjacent beach area facing southwest**

**TAB 5**

**EcoCat Letter**

**Applicant:** Park District of Highland Park  
**Contact:** Brian Romes  
**Address:** 636 Ridge Rd  
Highland Park, IL 60035

**IDNR Project Number:** 2504603  
**Date:** 10/07/2024  
**Alternate Number:** LM2015005

**Project:** Park Avenue Boat Launch - Maintenance Dredging Project  
**Address:** 8 Park Avenue , Highland Park

**Description:** The project involves annually dredging approximately 2,400 CY of material from the entrance of the boat launch facility and placing material in Lake Michigan as shown on the plans.

### Natural Resource Review Results

#### Consultation for Endangered Species Protection and Natural Areas Preservation (Part 1075)

The Illinois Natural Heritage Database shows the following protected resources may be in the vicinity of the project location:

Northern Cranesbill (*Geranium bicknellii*)

**An IDNR staff member will evaluate this information and contact you to request additional information or to terminate consultation if adverse effects are unlikely.**

#### Location

The applicant is responsible for the accuracy of the location submitted for the project.

**County:** Lake

**Township, Range, Section:**  
43N, 12E, 24



**IL Department of Natural Resources  
Contact**  
Isabella Newingham  
217-785-5500  
Division of Ecosystems & Environment

**Government Jurisdiction**  
Park District of Highland Park  
Brian Romes  
636 Ridge Rd  
Highland Park, Illinois 60035

#### **Disclaimer**

The Illinois Natural Heritage Database cannot provide a conclusive statement on the presence, absence, or condition of natural resources in Illinois. This review reflects the information existing in the Database at the time of this inquiry, and should not be regarded as a final statement on the site being considered, nor should it be a substitute for detailed site surveys or field surveys required for environmental assessments. If additional protected resources are encountered during the project's implementation, compliance with applicable statutes and regulations is required.

#### **Terms of Use**

By using this website, you acknowledge that you have read and agree to these terms. These terms may be revised by IDNR as necessary. If you continue to use the EcoCAT application after we post changes to these terms, it will mean that you accept such changes. If at any time you do not accept the Terms of Use, you may not continue to use the website.

1. The IDNR EcoCAT website was developed so that units of local government, state agencies and the public could request information or begin natural resource consultations on-line for the Illinois Endangered Species Protection Act, Illinois Natural Areas Preservation Act, and Illinois Interagency Wetland Policy Act. EcoCAT uses databases, Geographic Information System mapping, and a set of programmed decision rules to determine if proposed actions are in the vicinity of protected natural resources. By indicating your agreement to the Terms of Use for this application, you warrant that you will not use this web site for any other purpose.

2. Unauthorized attempts to upload, download, or change information on this website are strictly prohibited and may be punishable under the Computer Fraud and Abuse Act of 1986 and/or the National Information Infrastructure Protection Act.

3. IDNR reserves the right to enhance, modify, alter, or suspend the website at any time without notice, or to terminate or restrict access.

### **Security**

EcoCAT operates on a state of Illinois computer system. We may use software to monitor traffic and to identify unauthorized attempts to upload, download, or change information, to cause harm or otherwise to damage this site. Unauthorized attempts to upload, download, or change information on this server is strictly prohibited by law.

Unauthorized use, tampering with or modification of this system, including supporting hardware or software, may subject the violator to criminal and civil penalties. In the event of unauthorized intrusion, all relevant information regarding possible violation of law may be provided to law enforcement officials.

### **Privacy**

EcoCAT generates a public record subject to disclosure under the Freedom of Information Act. Otherwise, IDNR uses the information submitted to EcoCAT solely for internal tracking purposes.

**TAB 6**

**2024 Sediment Sampling Results**



ENVIRONMENTAL SERVICES FIRM, INC.  
4035 PARK PLACE CIRCLE  
ELLENWOOD, GA. 30294

March 27, 2024

Mike Evans  
Park District of Highland Park  
Landscape Architect  
636 Ridge Road  
Highland Park, Illinois 60035

Dear Mr. Evans;

On March 14, 2024, Environmental Services Firm, Inc., collected sand and water samples from the Park Avenue Beach, (See attached map for collection locations).

Three (3) samples were collected for Particle Size Separation requiring < than 20% of material passing through a # 230 US sieve. All samples were in compliance, (see Malt Handling test results dated March 21, 2024).

Three (3) samples were analyzed for Asbestos by Polarized Light Microscopy and Transmission Electron Microscopy methods.

Eurofins Built Environmental Testing **Park Avenue Beach 03-14-24-01-HP** shows receipt of samples on 3/19/24. All samples were analyzed for Asbestos by Polarized Light Microscopy and found to have < than the required 1% Limit of Detection (see Eurofins ID: PLM-01-HP, PLM-02-HP & PLM-03-HP).

Eurofins Built Environmental Testing Project **Park Avenue Beach 03-14-24-01-HP** shows receipt of samples on 3/19/24. All samples were analyzed for Asbestos by Transmission Electron Microscopy and found free of Asbestos (non Detected), (see Eurofins ID: TEM 01 HP, TEM 02 HP & TEM 03 HP).

First Environmental Laboratories Chain of Custody and Case Narrative report lists three (3) Sediment and Water samples collected from three (3) locations and one (1) sample of background Water for Supernatant Testing.

**Please take notice of the large amount of results above the Reporting Limits**

**Supernatant Results Above Reporting Limits**

HP-A 0 Hour Settling	Zinc	0.031mg/L,	RL 0.010 mg/L
	Ammonia	1.25 mg/L,	RL 0.10 mg/L
	TSS	202 mg/L	RL 5 mg/L

		TVS	88 mg/L	RL 10 mg/L
		TDS	183 mg/L	RL 10 mg/L
		Phosphorus	0.12 mg/L	RL 0.2 mg/L
		Sulfate	23 mg/L	RL 5 mg/L
		Chloride	26 mg/L	RL 2 mg/L
<b>HP-A</b>	<b>4 Hour Settling</b>	Zinc	0.013 mg/L	RL 0.010 mg/L
		Ammonia	1.02 mg/L	RL 0.10 mg/L
		TSS	23 mg/L	RL 5 mg/L
		TVS	66 mg/L	RL 10 mg/L
		TDS	235 mg/L	RL 10 mg/L
		Phosphorus	0.04 mg/L	RL 0.02 mg/L
		Sulfate	23 mg/L	RL 5 mg/L
		Chloride	26 mg/L	RL 2 mg/L
<b>HP-B</b>	<b>0 Hour Settling</b>	Zinc	0.019 mg/L	RL 0.010 mg/L
		Ammonia	1.03 mg/L	RL 0.10 mg/L
		TSS	139 mg/L	RL 5 mg/L
		TVS	62 mg/L	RL 10 mg/L
		TDS	207 mg/L	RL 10 mg/L
		Phosphorus	0.09 mg/L	RL 0.02 mg/L
		Sulfate	27 mg/L	RL 5 mg/L
		Chloride	26 mg/L	RL 2 mg/L
<b>HP-B</b>	<b>4 Hour Settling</b>	Ammonia	1.58 mg/L	RL 0.10 mg/L
		TSS	47 mg/L	RL 5 mg/L
		TVS	52 mg/L	RL 10 mg/L
		TDS	231 mg/L	RL 10 mg/L
		Phosphorus	0.08 mg/L	RL 0.02 mg/L
		Sulfite	30 mg/L	RL 5 mg/L
		Chloride	26 mg/L	RL 2 mg/L
<b>HP-C</b>	<b>0 Hour Settling</b>	Zinc	0.026 mg/L	RL 0.010 mg/L
		Ammonia	1.26 mg/L	RL 0.10 mg/L
		TSS	229 mg/L	RL 5 mg/L
		TVS	62 mg/L	RL 10 mg/L
		TDS	158 mg/L	RL 10 mg/L
		Phosphorus	0.10 mg/L	RL 0.02 mg/L
		Sulfate	22 mg/L	RL 5 mg/L
		Chloride	26 mg/L	RL 2 mg/L
<b>HP-C</b>	<b>4 Hour Settling</b>	Ammonia	1.37 mg/L	RL 0.10 mg/L
		TSS	141 mg/L	RL 5 mg/L
		TVS	62 mg/L	RL 10 mg/L
		TDS	213 mg/L	RL 10 mg/L
		Phosphorus	0.05 mg/L	RL 0.02 mg/L
		Sulfite	23 mg/L	RL 5 mg/L
		Chloride	26 mg/L	RL 2 mg/L

HP-Background Water	Chloride	25 mg/L	RL 2	mg/L
	Phosphorus	0.05 mg/L	RL 0.02	mg/L
	Sulfate	26 mg/L	RL 5	mg/L
	TDS	205 mg/L	RL 10	mg/L
	TSS	276 mg/L	RL 5	mg/L
	TVS	48 mg/L	RL 10	mg/L
	Lead	0.007 mg/L	RL 0.005	mg/L
	Zinc	0.027 mg/L	RL 0.01	mg/L

**Test results must be submitted AS Soon AS Possible to Illinois Environmental Protection Agency for determination of further monitoring.**

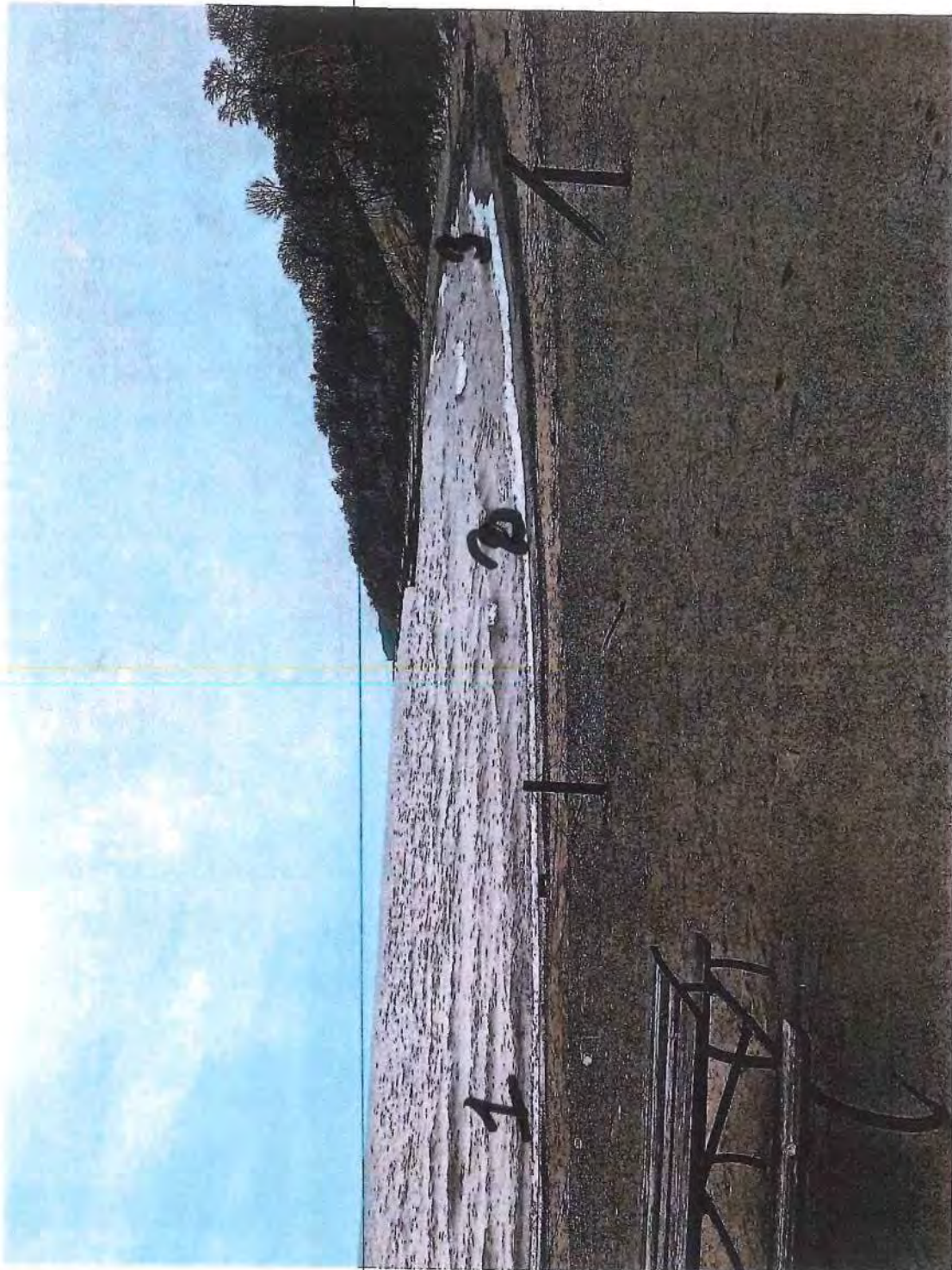
Thank you for your business. If you have question or I can be of further service, please contact me at

Respectfully, 

Ernest S. Foster  
Environmental Services Firm, Inc.

4/21/23, 5:49 PM

PXL\_20230404\_15494745.jpg



<https://mail.google.com/mail/u/0/?tab=km#inbox?projector=1>



Malthandling: PO Box 408079, Chicago, IL 60640, Office: 773-888-7718

March 26, 2024

**Environmental Services Firm**

Sample Sieve Testing

Screens # 60, #100, #230

Agitation duration: Three (3) minutes

Six (9) samples (3-Winnetka, 3-Evanston, 3- Highland Park)

**Highland Park # 1**

(Sample Size 7.2 oz)

Distribution

# 60 Screen = 1.1 oz (11.04%) held in screen (88.96% passed through)

#100 Screen = 1.35 oz (48.33%) held in screen (51.67% passed through)

#230 Screen = 2.3oz (98.4%) held in screen (1.6% passed through)

**Highland Park # 2**

(Sample Size 5.17 oz)

Distribution

# 60 Screen = 2.48 oz (9.89%) held in screen (90.11 % passed through)

#100 Screen = 1.27oz (51.3 % held in screen (48.7 % passed through)

#230 Screen = 1.42 oz (97.4%) in screen (2.6 % passed through)

**Highland Park # 3**

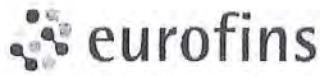
(Sample Size 3.9 oz)

Distribution

# 60 Screen = 1.6 oz (14%) held in screen (86% passed through)

# 100 Screen = 1 oz (63%) held in screen (37% passed through)

# 230 Screen = 1.3 oz (99.05%) held in screen (0.5% passed through)



CEI

# ASBESTOS CHAIN OF CUSTODY

2752 Pleasant Rd. Suite 100A Fort Mill, SC 29708  
Tel: 803-526-5146; Fax: 919-481-1442

ECEI Lab Code: SA240863  
ECEI Lab I.D. Range:

3

COMPANY INFORMATION		PROJECT INFORMATION	
ECEI CLIENT #:		Job Contact:	Ernie Foster
Company:	Environmental Services Firm, Inc.	Email / Tel:	
Address:	4035 Park Place Circle Ellenwood, Ga. 30294	Project Name:	Park Avenue Boat Dock
Billing Email:		Project ID#:	03-14-24-01 HP
Tel:		PC #:	
		State of sample origin:	Illinois

ECEI standard terms are Net 30 days

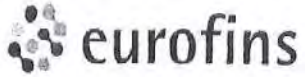
IF TAT IS NOT MARKED STANDARD 3 DAY TAT APPLIES.

ASBESTOS	METHOD	TURN AROUND TIME					
		4 HR	8 HR	1 DAY	2 DAY	3 DAY	5 DAY
PLM BULK	EPA 600/R-93/116	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
PLM POINT COUNT (400)	EPA 600/R-93/116	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PLM POINT COUNT (1000)	EPA 600/R-93/116	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PLM GRAV w POINT COUNT	EPA 600/R-93/116	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PLM BULK	CARB 435	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PCM AIR*	NIOSH 7400	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TEM AIR	EPA AHERA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TEM AIR	NIOSH 7402	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TEM AIR (PCME)	ISO 10312	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TEM AIR	ASTM 6281-15	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TEM BULK	CHATFIELD / EPA 600/R-93/116 Sec. 2.5.5.1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TEM DUST WIPE	ASTM D6480-12	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TEM DUST MICROVAC	ASTM D5755-09 (2014)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TEM SOIL	ASTM D7521-16	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TEM VERMICULITE	CINCINNATI METHOD	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TEM QUALITATIVE	IN-HOUSE METHOD	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
OTHER:		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

\*Blanks should be taken from the same sample lot as field samples.

REMARKS / SPECIAL INSTRUCTIONS:		<input checked="" type="checkbox"/> Accept Samples
		<input type="checkbox"/> Reject Samples
	Date/Time	Received By:
	3/18/24 10:00AM	RB
		Date/Time
		3/19 9:30AM

By submitting samples, you are agreeing to ECEI's Terms and Conditions.  
Samples will be disposed of 30 days after analysis



# SAMPLING FORM

CEI

COMPANY CONTACT INFORMATION	
Company: Environmental Services Firm, Inc.	Job Contact: Ernie Foster
Project Name: Park Avenue Boat Dock	
Project ID #: 03-14-24-01 HP	Tel: (773) 290-4086

SAMPLE ID#	DESCRIPTION / LOCATION	VOLUME/ AREA	TEST	
			PLM <input type="checkbox"/>	TEM <input type="checkbox"/>
PLM 01 HP	01	1X1	PLM <input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
PLM 02 HP	02	1X1	PLM <input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
PLM 03 HP	03	1X1	PLM <input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
			PLM <input type="checkbox"/>	TEM <input type="checkbox"/>
			PLM <input type="checkbox"/>	TEM <input type="checkbox"/>
			PLM <input type="checkbox"/>	TEM <input type="checkbox"/>
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			PLM <input type="checkbox"/>	TEM <input type="checkbox"/>
			PLM <input type="checkbox"/>	TEM <input type="checkbox"/>
			PLM <input type="checkbox"/>	TEM <input type="checkbox"/>

---

**ASBESTOS ANALYTICAL REPORT**  
**By: Polarized Light Microscopy**

Prepared for

**Environmental Services**

---

CLIENT PROJECT: Park Avenue Boat Dock, 03-14-24-01 HP

LAB CODE: SA240863

TEST METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

REPORT DATE: 03/22/24

TOTAL SAMPLES ANALYZED: 3

# SAMPLES >1% ASBESTOS:



**PROJECT:** Park Avenue Boat Dock, 03-14-24-01 HP    **LAB CODE:** SA240863

**METHOD:** EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

Client ID	Layer	Lab ID	Color	Sample Description	ASBESTOS %
PLM-01-HP		SA240863.01	Tan	Cementitious Material	None Detected
PLM-02-HP		SA240863.02	Tan	Cementitious Material	None Detected
PLM-03-HP		SA240863.03	Tan	Cementitious Material	None Detected

**Client:** Environmental Services  
4035 Park Place Circle  
Ellenwood, GA 30294

**Lab Code:** SA240863  
**Date Received:** 03-19-24  
**Date Analyzed:** 03-22-24  
**Date Reported:** 03-22-24

**Project:** Park Avenue Boat Dock, 03-14-24-01 HP

**ASBESTOS BULK PLM, EPA 600 METHOD**

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS		ASBESTOS %
			Fibrous	Non-Fibrous	
PLM-01-HP SA240863.01	Cementitious Material	Homogeneous	90%	Silicates	None Detected
		Tan	10%	Binder	
		Non-fibrous			
		Bound			
PLM-02-HP SA240863.02	Cementitious Material	Homogeneous	90%	Silicates	None Detected
		Tan	10%	Binder	
		Non-fibrous			
		Bound			
PLM-03-HP SA240863.03	Cementitious Material	Homogeneous	90%	Silicates	None Detected
		Tan	10%	Binder	
		Non-fibrous			
		Bound			

---

**LEGEND:** Non-Anth = Non-Asbestiform Anthophyllite  
Non-Trem = Non-Asbestiform Tremolite  
Calc Carb = Calcium Carbonate

---

**METHOD:** EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

---

**REPORTING LIMIT:** <1% by visual estimation

---

**REPORTING LIMIT FOR POINT COUNTS:** 0.25% by 400 Points or 0.1% by 1,000 Points

---

**REGULATORY LIMIT:** >1% by weight

---

Due to the limitations of the EPA 600 method, nonfriable organically bound materials (NOBs) such as vinyl floor tiles can be difficult to analyze via polarized light microscopy (PLM). EPA recommends that all NOBs analyzed by PLM, and found not to contain asbestos, be further analyzed by Transmission Electron Microscopy (TEM). Please note that PLM analysis of dust and soil samples for asbestos is not covered under NVLAP accreditation. *Estimated measurement of uncertainty is available on request.*

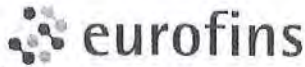
This report relates only to the samples tested or analyzed and may not be reproduced, except in full, without written approval by Eurofins CEI. Eurofins CEI makes no warranty representation regarding the accuracy of client submitted information in preparing and presenting analytical results. Interpretation of the analytical results is the sole responsibility of the client. Samples were received in acceptable condition unless otherwise noted. This report may not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. Government.

Information provided by customer includes customer sample ID and sample description.

**ANALYST:** \_\_\_\_\_  
Olivia Gardner

**APPROVED BY:** \_\_\_\_\_  
Tianbao Bai, Ph.D., CIH  
Laboratory Director





CEI

**ASBESTOS  
CHAIN OF CUSTODY**

2752 Pleasant Rd, Suite 100A Fort Mill, SC 29708  
Tel: 803-526-5146; Fax: 919-481-1442

ECEI Lab Code: ST240281  
ECEI Lab I.D. Range:

COMPANY INFORMATION	PROJECT INFORMATION
ECEI CLIENT #:	Job Contact: <u>Ernie Foster</u>
Company: <u>Environmental Services Firm, Inc.</u>	Email / Tel:
Address: <u>4035 Park Place Circle</u>	Project Name: <u>Park Avenue Boat Dock</u>
<u>Ellenwood, Ga. 30294</u>	Project ID#: <u>03-14-24-01 HP</u>
Billing Email:	PO #:
Tel:	State of sample origin <u>Illinois</u>

ECEI standard terms are Not 30 days

**IF TAT IS NOT MARKED STANDARD 3 DAY TAT APPLIES.**

ASBESTOS	METHOD	TURN AROUND TIME					
		4 HR	8 HR	1 DAY	2 DAY	3 DAY	5 DAY
PLM BULK	EPA 600/R-93/116	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PLM POINT COUNT (400)	EPA 600/R-93/116	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PLM POINT COUNT (1000)	EPA 600/R-93/116	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PLM GRAV w POINT COUNT	EPA 600/R-93/116	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PLM BULK	CARB 435	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PCM AIR*	NIOSH 7400	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TEM AIR	EPA AHERA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TEM AIR	NIOSH 7402	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TEM AIR (PCME)	ISO 10312	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TEM AIR	ASTM 6281-15	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TEM BULK	CHATFIELD / EPA 600/R-93/116 Sec. 2.5.5.1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
TEM DUST WIPE	ASTM D6480-19	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TEM DUST MICROVAC	ASTM D5755-09 (2014)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TEM SOIL	ASTM D7521-16	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TEM VERMICULITE	CINCINNATI METHOD	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TEM QUALITATIVE	IN-HOUSE METHOD	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
OTHER:		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

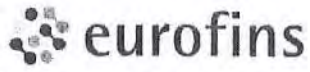
\*Blanks should be taken from the same sample lot as field samples.

REMARKS / SPECIAL INSTRUCTIONS:		<input checked="" type="checkbox"/> Accept Samples
		<input type="checkbox"/> Reject Samples
Relinquished By:	Date/Time	Received By: Date/Time
	<u>3/18/24 10:00AM</u>	<u>PH 3/19 9:30AM</u>

By submitting samples, you are agreeing to ECEI's Terms and Conditions.  
Samples will be disposed of 30 days after analysis

Page 1 of 2

Version: ACOC.02.24.1/2.LM



# SAMPLING FORM

CEI

COMPANY CONTACT INFORMATION	
Company: Environmental Services Firm, Inc.	Job Contact: Ernie Foster
Project Name: Park Avenue Boat Dock	
Project ID #: 03-14-24-01	Tel: (773) 290-4086

SAMPLE ID#	DESCRIPTION / LOCATION	VOLUME/ AREA	TEST	
			PLM <input type="checkbox"/>	TEM <input type="checkbox"/>
TEM 01 <i>HP</i>	01	1X1	PLM <input type="checkbox"/>	TEM <input checked="" type="checkbox"/>
TEM 02 <i>HP</i>	02	1X1	PLM <input type="checkbox"/>	TEM <input checked="" type="checkbox"/>
TEM 03 <i>HP</i>	03	1X1	PLM <input type="checkbox"/>	TEM <input checked="" type="checkbox"/>
			PLM <input type="checkbox"/>	TEM <input type="checkbox"/>
			PLM <input type="checkbox"/>	TEM <input type="checkbox"/>
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			PLM <input type="checkbox"/>	TEM <input type="checkbox"/>

---

**ASBESTOS ANALYTICAL REPORT**  
**By: Transmission Electron Microscopy**

Prepared for  
**Environmental Services**

---

CLIENT PROJECT: Park Avenue Boat Dock, 03-14-24-01 HP

LAB CODE: ST240281

TEST METHOD: Bulk Chatfield  
EPA 600 / R93 / 116 Sec. 2.5.5.1

REPORT DATE: 03/22/24

**ASBESTOS BULK ANALYSIS**

By: TRANSMISSION ELECTRON MICROSCOPY

**Client:** Environmental Services  
4035 Park Place Circle  
Ellenwood, GA 30294

**Lab Code:** ST240281  
**Date Received:** 03-19-24  
**Date Analyzed:** 03-22-24  
**Date Reported:** 03-22-24

**Project:** Park Avenue Boat Dock, 03-14-24-01 HP

**TEM BULK CHATFIELD / EPA 600 / R93 / 116 Sec. 2.5.5.1**

Client ID Lab ID	Material Description	Sample Weight (g)	Organic Material %	Acid Soluble Material %	Acid Insoluble Material %	Asbestos %
TEM 01 HP ST10714	01	0.3913	16.1	0	83.9	None Detected
TEM 02 HP ST10715	02	0.4789	7.5	7.6	84.9	None Detected
TEM 03 HP ST10716	03	0.6877	.2	47.6	52.2	None Detected

---

**LEGEND:** None

---

**METHOD:** CHATFIELD & EPA/600/R-93/116 Sec. 2.5.5.1

---

**LIMIT OF DETECTION:** Varies with the weight and constituents of the sample (<1%)

---

**REGULATORY LIMIT:** >1% by weight

---

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Information provided by customer includes customer sample ID, location, volume and area as well as date and time of sampling.

ECEI recommends between 0.20 and 0.50 grams of sample material for TEM bulk analysis.

*Any weight below 0.10 grams is considered below protocol guidelines.*

*\*\*Indicates sample weight below 0.05 grams and is considered insufficient for quantitative analysis.*

**ANALYST:** \_\_\_\_\_  
Sam Parker

**APPROVED BY:** \_\_\_\_\_  
Tianbao Bai, Ph.D., CIH  
Laboratory Director





1600 Shore Road, Suite D  
 Naperville, IL 60563  
 Phone: (630)778-1200 • Fax: (630)778-1233  
 E-Mail: firstinfo@firstenv.com  
 IEPA Accreditation #100292  
 www.firstenv.com

**CHAIN OF CUSTODY RECORD**

Company Name: ENVIRONMENTAL SERVICES FIRM  
 Street Address: 4035 Park Place Circle  
 City: Ellenwood State: GA Zip: 30294  
 Phone: e-Mail:  
 Send Report To: Ernest Foster Hardcopy:  PDF e-Mail:   
 Sampled By:

Project ID: Highland Park  
 PO #:

Date/Time Taken	Sample Description	Matrix*	Supernatant Test	N-Ammonia	Phosphorus Sulfate	Chloride	Lead, Zinc	HOLD-Do not analyze	Comments	Lab I.D.
3/14/24 11:31	HP-A Sediment 0 hr settling	S	✓	✓	✓	✓	✓			001
" 11:31	HP-A Sediment 4 hr settling	S	✓	✓	✓	✓	✓			002
" 11:35	HP-B Sediment 0 hr settling	S	✓	✓	✓	✓	✓			003
" 11:33	HP-B Sediment 4 hr settling	S	✓	✓	✓	✓	✓			004
" 11:34	HP-C Sediment 0 hr settling	S	✓	✓	✓	✓	✓			005
" 11:35	HP-C Sediment 4 hr settling	S	✓	✓	✓	✓	✓			006
" 11:40	HP Background Water	W	✓	✓	✓	✓	✓			007

Enter analyses required on the lines to the left.  
 Place an "X" in the box below to indicate which samples require what analysis.

24-2055

FOR LAB USE ONLY:  
 Cooler Temperature: 0-15°C Yes  No   
 Sample Refrigerator: Yes  No   
 Refrigerator Temperature: 1.2°C  
 Ice Present: Yes  No

Program:  TACOISRP  CCDD  NPDES  LUST  SDWA  
 Matrix Code Key: DW-drinking water GW-groundwater WW-wastewater  
 W-water (unspecified) S-soil SL-sludge WIPE-wipe O-other

Notes and Special Instructions

Relinquished By: [Signature] Date/Time: 3/14/24 14:12  
 Relinquished By: [Signature] Date/Time: 3/14/24 14:15  
 Received By: [Signature] Date/Time: 3/14/24 14:15  
 Received By: [Signature] Date/Time: 3/14/24 14:15



### Case Narrative

**ENVIRONMENTAL SERVICES FIRM**

Lab File ID: **24-2055**

Project ID: **Highland Park**

Date Received: **March 14, 2024**

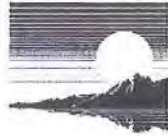
All quality control criteria, as outlined in the methods, have been met except as noted below or on the following analytical report.

The results in this report apply to the samples in the following table:

Laboratory Sample ID	Client Sample Identifier	Date/Time Collected	
24-2055-001	HP-A Sediment 0 Hr Settling	03/14/24	11:31
24-2055-002	HP-A Sediment 4 Hr Settling	03/14/24	11:31
24-2055-003	HP-B Sediment 0 Hr Settling	03/14/24	11:33
24-2055-004	HP-B Sediment 4 Hr Settling	03/14/24	11:33
24-2055-005	HP-C Sediment 0 Hr Settling	03/14/24	11:34
24-2055-006	HP-C Sediment 4 Hr Settling	03/14/24	11:35
24-2055-007	HP Background Water	03/14/24	11:40

**Sample Batch Comments:**

Sample acceptance criteria were met.



### Case Narrative

**ENVIRONMENTAL SERVICES FIRM**

Lab File ID: **24-2055**

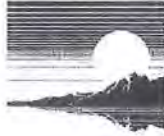
Project ID: **Highland Park**

Date Received: **March 14, 2024**

All quality control criteria, as outlined in the methods, have been met except as noted below or on the following analytical report.

The following is a definition of flags that may be used in this report:

Flag	Description	Flag	Description
A	Method holding time is 15 minutes from collection. Lab analysis was performed as soon as possible.		
B	Analyte was found in the method blank.	L	LCS recovery outside control limits.
<	Analyte not detected at or above the reporting limit.	M	MS recovery outside control limits; LCS acceptable.
C	Sample received in an improper container for this test.	P	Chemical preservation pH adjusted in lab.
D	Surrogates diluted out; recovery not available.	Q	Result was determined by a GC/MS database search.
E	Estimated result; concentration exceeds calibration range.	S	Analysis was subcontracted to another laboratory.
G	Surrogate recovery outside control limits.	T	Result is less than three times the MDL value.
H	Analysis or extraction holding time exceeded.	W	Reporting limit elevated due to sample matrix.
I	ICVS % rec outside 95-105% but within 90-110%		
J	Estimated result; concentration is less than routine RL but greater than MDL.	N	Analyte is not part of our NELAC accreditation or accreditation may not be available for this parameter.
RL	Routine Reporting Limit (Lowest amount that can be detected when routine weights/volumes are used without dilution.)	ND	Analyte was not detected using a library search routine; No calibration standard was analyzed.



**Analytical Report**

<b>Client:</b> ENVIRONMENTAL SERVICES FIRM	<b>Date Collected:</b> 03/14/24
<b>Project ID:</b> Highland Park	<b>Time Collected:</b> 11:31
<b>Sample ID:</b> HP-A Sediment 0 Hr Settling	<b>Date Received:</b> 03/14/24
<b>Sample No:</b> 24-2055-001	<b>Date Reported:</b> 03/26/24

Need 2 No Treat Ambers per sample for background water

Analyte	Result	R.L.	Units	Flags
<b>Metals, Supernatant Method 2540F Method: 6010C</b>				
Analysis Date: 03/19/24		Preparation Method 3010A		
Analyzed By: KJM		Preparation Date: 03/19/24		
		Prepped By: KJM		
Lead, supernatant	0.005	0.005	mg/L	
Zinc, supernatant	0.031	0.010	mg/L	
<b>Ammonia (as N), Supernatant 2540F Method: 350.1</b>				
Analysis Date: 03/22/24				
Analyzed By: EMS				
Ammonia (as N), Supernatant	1.25	0.10	mg/L	
<b>TSS, Supernatant Method 2540F Method: 2540D 2015</b>				
Analysis Date: 03/21/24				
Analyzed By: AAS				
TSS, Supernatant	202	5	mg/L	
<b>TVS, Supernatant Method 2540F Method: 2540E 2015</b>				
Analysis Date: 03/21/24				
Analyzed By: AAS				
TVS, Supernatant	88	10	mg/L	
<b>TDS, Supernatant Method 2540F Method: 2540C 2015</b>				
Analysis Date: 03/21/24				
Analyzed By: AAS				
TDS, Supernatant	183	10	mg/L	
<b>Phosphorus (as P), Supernatant 2540F Method: 4500P,E 1999</b>				
Analysis Date: 03/26/24				
Analyzed By: EMS				
Phosphorus (as P), Supernatant	0.12	0.02	mg/L	
<b>Sulfate, Supernatant Method 2540F Method: 4500SO4,E 1997</b>				
Analysis Date: 03/19/24				
Analyzed By: EMS				
Sulfate, Supernatant	23	5	mg/L	
<b>Chloride, Supernatant 2540F Method: 4500Cl, E 2011/23rd</b>				
Analysis Date: 03/19/24				
Analyzed By: EMS				
Chloride, Supernatant	26	2	mg/L	

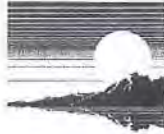


**Analytical Report**

<b>Client:</b> ENVIRONMENTAL SERVICES FIRM	<b>Date Collected:</b> 03/14/24
<b>Project ID:</b> Highland Park	<b>Time Collected:</b> 11:31
<b>Sample ID:</b> HP-A Sediment 4 Hr Settling	<b>Date Received:</b> 03/14/24
<b>Sample No:</b> 24-2055-002	<b>Date Reported:</b> 03/26/24

Need 2 No Treat Ambers per sample for background water

Analyte	Result	R.L.	Units	Flags
<b>Metals, Supernatant Method 2540F Method: 6010C</b>				
Analysis Date: 03/19/24				
Preparation Method 3010A				
Preparation Date: 03/19/24				
Analyzed By: KJM				
Prepped By: KJM				
Lead, supernatant	< 0.005	0.005	mg/L	
Zinc, supernatant	0.013	0.010	mg/L	
<b>Ammonia (as N), Supernatant 2540F Method: 350.1</b>				
Analysis Date: 03/22/24				
Analyzed By: EMS				
Ammonia (as N), Supernatant	1.02	0.10	mg/L	
<b>TSS, Supernatant Method 2540F Method: 2540D 2015</b>				
Analysis Date: 03/21/24				
Analyzed By: AAS				
TSS, Supernatant	23	5	mg/L	
<b>TVS, Supernatant Method 2540F Method: 2540E 2015</b>				
Analysis Date: 03/21/24				
Analyzed By: AAS				
TVS, Supernatant	66	10	mg/L	
<b>TDS, Supernatant Method 2540F Method: 2540C 2015</b>				
Analysis Date: 03/21/24				
Analyzed By: AAS				
TDS, Supernatant	235	10	mg/L	
<b>Phosphorus (as P), Supernatant 2540F Method: 4500P,E 1999</b>				
Analysis Date: 03/26/24				
Analyzed By: EMS				
Phosphorus (as P), Supernatant	0.04	0.02	mg/L	
<b>Sulfate, Supernatant Method 2540F Method: 4500SO4,E 1997</b>				
Analysis Date: 03/19/24				
Analyzed By: EMS				
Sulfate, Supernatant	23	5	mg/L	
<b>Chloride, Supernatant 2540F Method: 4500Cl, E 2011/23rd</b>				
Analysis Date: 03/19/24				
Analyzed By: EMS				
Chloride, Supernatant	26	2	mg/L	

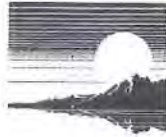


**Analytical Report**

<b>Client:</b> ENVIRONMENTAL SERVICES FIRM	<b>Date Collected:</b> 03/14/24
<b>Project ID:</b> Highland Park	<b>Time Collected:</b> 11:33
<b>Sample ID:</b> HP-B Sediment 0 Hr Settling	<b>Date Received:</b> 03/14/24
<b>Sample No:</b> 24-2055-003	<b>Date Reported:</b> 03/26/24

Need 2 No Treat Ambers per sample for background water

Analyte	Result	R.L.	Units	Flags
<b>Metals, Supernatant Method 2540F Method: 6010C Preparation Method 3010A</b>				
Analysis Date: 03/19/24		Preparation Date: 03/19/24		
Analyzed By: KJM		Prepped By: KJM		
Lead, supernatant	< 0.005	0.005	mg/L	
Zinc, supernatant	0.019	0.010	mg/L	
<b>Ammonia (as N), Supernatant 2540F Method: 350.1</b>				
Analysis Date: 03/22/24				
Analyzed By: EMS				
Ammonia (as N), Supernatant	1.03	0.10	mg/L	
<b>TSS, Supernatant Method 2540F Method: 2540D 2015</b>				
Analysis Date: 03/21/24				
Analyzed By: AAS				
TSS, Supernatant	139	5	mg/L	
<b>TVS, Supernatant Method 2540F Method: 2540E 2015</b>				
Analysis Date: 03/21/24				
Analyzed By: AAS				
TVS, Supernatant	62	10	mg/L	
<b>TDS, Supernatant Method 2540F Method: 2540C 2015</b>				
Analysis Date: 03/21/24				
Analyzed By: AAS				
TDS, Supernatant	207	10	mg/L	
<b>Phosphorus (as P), Supernatant 2540F Method: 4500P,E 1999</b>				
Analysis Date: 03/26/24				
Analyzed By: EMS				
Phosphorus (as P), Supernatant	0.09	0.02	mg/L	
<b>Sulfate, Supernatant Method 2540F Method: 4500SO4,E 1997</b>				
Analysis Date: 03/19/24				
Analyzed By: EMS				
Sulfate, Supernatant	27	5	mg/L	
<b>Chloride, Supernatant 2540F Method: 4500Cl, E 2011/23rd</b>				
Analysis Date: 03/19/24				
Analyzed By: EMS				
Chloride, Supernatant	26	2	mg/L	



**Analytical Report**

**Client:** ENVIRONMENTAL SERVICES FIRM  
**Project ID:** Highland Park  
**Sample ID:** HP-B Sediment 4 Hr Settling  
**Sample No:** 24-2055-004  
**Date Collected:** 03/14/24  
**Time Collected:** 11:33  
**Date Received:** 03/14/24  
**Date Reported:** 03/26/24

Need 2 No Treat Ambers per sample for background water

Analyte	Result	R.L.	Units	Flags
<b>Metals, Supernatant Method 2540F Method: 6010C</b>				
Analysis Date: 03/19/24				
Analyzed By: KJM				
Preparation Method 3010A				
Preparation Date: 03/19/24				
Prepped By: KJM				
Lead, supernatant	< 0.005	0.005	mg/L	
Zinc, supernatant	< 0.010	0.010	mg/L	
<b>Ammonia (as N), Supernatant 2540F Method: 350.1</b>				
Analysis Date: 03/22/24				
Analyzed By: EMS				
Ammonia (as N), Supernatant	1.58	0.10	mg/L	
<b>TSS, Supernatant Method 2540F Method: 2540D 2015</b>				
Analysis Date: 03/21/24				
Analyzed By: AAS				
TSS, Supernatant	47	5	mg/L	
<b>TVS, Supernatant Method 2540F Method: 2540E 2015</b>				
Analysis Date: 03/21/24				
Analyzed By: AAS				
TVS, Supernatant	52	10	mg/L	
<b>TDS, Supernatant Method 2540F Method: 2540C 2015</b>				
Analysis Date: 03/21/24				
Analyzed By: AAS				
TDS, Supernatant	231	10	mg/L	
<b>Phosphorus (as P), Supernatant 2540F Method: 4500P,E 1999</b>				
Analysis Date: 03/26/24				
Analyzed By: EMS				
Phosphorus (as P), Supernatant	0.08	0.02	mg/L	
<b>Sulfate, Supernatant Method 2540F Method: 4500SO4,E 1997</b>				
Analysis Date: 03/19/24				
Analyzed By: EMS				
Sulfate, Supernatant	30	5	mg/L	
<b>Chloride, Supernatant 2540F Method: 4500Cl, E 2011/23rd</b>				
Analysis Date: 03/19/24				
Analyzed By: EMS				
Chloride, Supernatant	26	2	mg/L	



**Analytical Report**

**Client:** ENVIRONMENTAL SERVICES FIRM  
**Project ID:** Highland Park  
**Sample ID:** HP-C Sediment 0 Hr Settling  
**Sample No:** 24-2055-005

**Date Collected:** 03/14/24  
**Time Collected:** 11:34  
**Date Received:** 03/14/24  
**Date Reported:** 03/26/24

Need 2 No Treat Ambers per sample for background water

Analyte	Result	R.L.	Units	Flags
<b>Metals, Supernatant Method 2540F Method: 6010C</b>				
Analysis Date: 03/19/24				
Analyzed By: KJM				
Preparation Method 3010A				
Preparation Date: 03/19/24				
Prepped By: KJM				
Lead, supernatant	< 0.005	0.005	mg/L	
Zinc, supernatant	0.023	0.010	mg/L	
<b>Ammonia (as N), Supernatant 2540F Method: 350.1</b>				
Analysis Date: 03/22/24				
Analyzed By: EMS				
Ammonia (as N), Supernatant	1.26	0.10	mg/L	
<b>TSS, Supernatant Method 2540F Method: 2540D 2015</b>				
Analysis Date: 03/21/24				
Analyzed By: AAS				
TSS, Supernatant	229	5	mg/L	
<b>TVS, Supernatant Method 2540F Method: 2540E 2015</b>				
Analysis Date: 03/21/24				
Analyzed By: AAS				
TVS, Supernatant	62	10	mg/L	
<b>TDS, Supernatant Method 2540F Method: 2540C 2015</b>				
Analysis Date: 03/21/24				
Analyzed By: AAS				
TDS, Supernatant	158	10	mg/L	
<b>Phosphorus (as P), Supernatant 2540F Method: 4500P,E 1999</b>				
Analysis Date: 03/26/24				
Analyzed By: EMS				
Phosphorus (as P), Supernatant	0.10	0.02	mg/L	
<b>Sulfate, Supernatant Method 2540F Method: 4500SO4,E 1997</b>				
Analysis Date: 03/19/24				
Analyzed By: EMS				
Sulfate, Supernatant	22	5	mg/L	
<b>Chloride, Supernatant 2540F Method: 4500Cl, E 2011/23rd</b>				
Analysis Date: 03/19/24				
Analyzed By: EMS				
Chloride, Supernatant	26	2	mg/L	



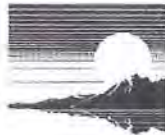


**Analytical Report**

**Client:** ENVIRONMENTAL SERVICES FIRM  
**Project ID:** Highland Park  
**Sample ID:** HP-C Sediment 4 Hr Settling  
**Sample No:** 24-2055-006  
**Date Collected:** 03/14/24  
**Time Collected:** 11:35  
**Date Received:** 03/14/24  
**Date Reported:** 03/26/24

Need 2 No Treat Ambers per sample for background water

Analyte	Result	R.L.	Units	Flags
<b>Metals, Supernatant Method 2540F Method: 6010C Preparation Method 3010A</b>				
Analysis Date: 03/19/24 Preparation Date: 03/19/24				
Analyzed By: KJM Prepped By: KJM				
Lead, supernatant	< 0.005	0.005	mg/L	
Zinc, supernatant	< 0.010	0.010	mg/L	
<b>Ammonia (as N), Supernatant 2540F Method: 350.1</b>				
Analysis Date: 03/22/24				
Analyzed By: EMS				
Ammonia (as N), Supernatant	1.37	0.10	mg/L	
<b>TSS, Supernatant Method 2540F Method: 2540D 2015</b>				
Analysis Date: 03/21/24				
Analyzed By: AAS				
TSS, Supernatant	141	5	mg/L	
<b>TVS, Supernatant Method 2540F Method: 2540E 2015</b>				
Analysis Date: 03/21/24				
Analyzed By: AAS				
TVS, Supernatant	62	10	mg/L	
<b>TDS, Supernatant Method 2540F Method: 2540C 2015</b>				
Analysis Date: 03/21/24				
Analyzed By: AAS				
TDS, Supernatant	213	10	mg/L	
<b>Phosphorus (as P), Supernatant 2540F Method: 4500P,E 1999</b>				
Analysis Date: 03/26/24				
Analyzed By: EMS				
Phosphorus (as P), Supernatant	0.05	0.02	mg/L	
<b>Sulfate, Supernatant Method 2540F Method: 4500SO4,E 1997</b>				
Analysis Date: 03/19/24				
Analyzed By: EMS				
Sulfate, Supernatant	23	5	mg/L	
<b>Chloride, Supernatant 2540F Method: 4500Cl, E 2011/23rd</b>				
Analysis Date: 03/19/24				
Analyzed By: EMS				
Chloride, Supernatant	26	2	mg/L	



**Analytical Report**

<b>Client:</b> ENVIRONMENTAL SERVICES FIRM	<b>Date Collected:</b> 03/14/24
<b>Project ID:</b> Highland Park	<b>Time Collected:</b> 11:40
<b>Sample ID:</b> HP Background Water	<b>Date Received:</b> 03/14/24
<b>Sample No:</b> 24-2055-007	<b>Date Reported:</b> 03/26/24

Analyte	Result	R.L.	Units	Flags
<b>Ammonia (as N)</b> Analysis Date: 03/22/24 Analyzed By: EMS Method: 350.1R2.0				
Ammonia (as N)	< 0.10	0.10	mg/L	
<b>Chloride</b> Analysis Date: 03/19/24 Analyzed By: EMS Method: 4500Cl, E 2011/23rd				
Chloride	25	2	mg/L	
<b>Phosphorus (as P)</b> Analysis Date: 03/26/24 Analyzed By: EMS Method: 4500P,E 1999				
Phosphorus (as P)	0.05	0.02	mg/L	
<b>Sulfate</b> Analysis Date: 03/19/24 Analyzed By: EMS Method: 4500SO4,E 1997				
Sulfate	26	5	mg/L	
<b>Total Dissolved Solids</b> Analysis Date: 03/21/24 Analyzed By: AAS Method: 2540C 1997				
Total Dissolved Solids	205	10	mg/L	
<b>Total Suspended Solids</b> Analysis Date: 03/21/24 Analyzed By: AAS Method: 2540D 2015				
Total Suspended Solids	276	5	mg/L	
<b>Total Volatile Solids @ 550°C</b> Analysis Date: 03/21/24 Analyzed By: AAS Method: 2540E 2015				
Total Volatile Solids @ 550°C	48	10	mg/L	
<b>Total Metals</b> Analysis Date: 03/19/24 Analyzed By: KJM Method: 6010C Preparation Method 3010A Preparation Date: 03/19/24 Prepped By: KJM				
Lead	0.007	0.005	mg/L	
Zinc	0.027	0.01	mg/L	

ENVIRONMENTAL SERVICES FIRM, INC.

4035 PARK PLACE CIRCLE

ELLENWOOD, GA. 30294

May 14, 2024

Mike Evans  
Park District of Highland Park  
Landscape Architect  
636 Ridge Road  
Highland Park, Illinois 60035

Dear Mr. Evans;

On May 6, 2024, Environmental Services Firm, Inc., collected water samples from the Park District of Highland Park's, Park Avenue Boat Launching Dock, during dredging.

Two (2) samples were collected as backgrounds prior to the start of dredging. Two (2) samples were taken one (1) hour after the start of dredging from four (4) locations. Another two (2) taken the fourth (4th) hour after the start of dredging from four (4) locations.

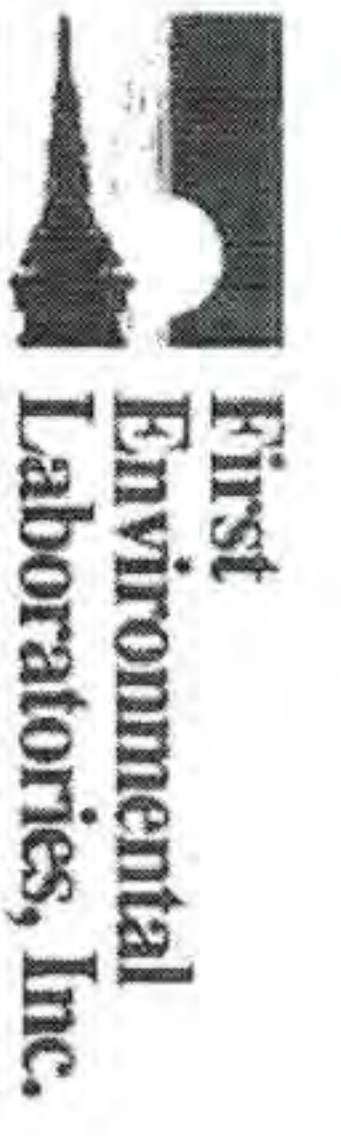
First Environmental Laboratories, Inc., Analytical Report reflects samples #, the analyte, Method of testing, Reporting Limit and test results.

**First Environmental Laboratories results must be submitted to: ILLINOIS ENVIRONMENTAL PROTECTION AGENCY.**

I thank you for the opportunity to be of service to you and look forward to working with you again in the future. Should you have any questions regarding any of the enclosed analytical data or need additional information, please contact me at (773) 290-4086 or [efoster46@gmail.com](mailto:efoster46@gmail.com).

Sincerely,

Ernest S. Foster  
Environmental Services Firm, Inc.



**First Environmental Laboratories, Inc.**  
 First Environmental Laboratories  
 1600 Shore Road, Suite D  
 Naperville, Illinois 60563  
 Phone: (630) 778-1200 • Fax: (630) 778-1233  
 E-mail: firstinfo@firstenv.com • www.firstenv.com  
 IEPA Certification #100292

**CHAIN OF CUSTODY RECORD**

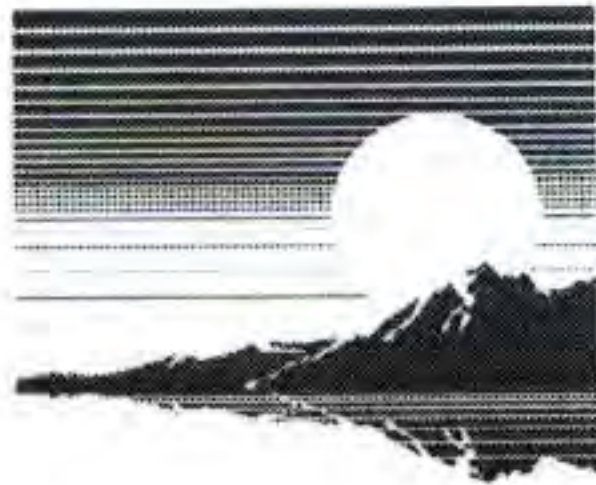
Company Name: ENVIRONMENTAL SERVICES FROM  
 Street Address: 4035 PARK PLACE LITTLE  
 City: ELKHORN State: GA Zip: 30294  
 Phone: \_\_\_\_\_ e-mail: \_\_\_\_\_  
 Send Report To: QUEST FORGE  
 Sampled By: \_\_\_\_\_

Date/Time Taken	Sample Description	Matrix	Parameter(s)							Comments	Lab ID.
			755	PHOS (AsP)	N-AMMONIA	CHLORIDE	HARDNESS	PH	Hold - Do Not Analyze		
5/6 10:20	Prior to Start SURFACE	W	✓	✓	✓	✓	✓	✓		24-3735-001	
" 10:20	" " 40-DEPTH	W	✓	✓	✓	✓	✓	✓		-002	
" 10:28	ROCKY 100' SURF	W	✓	✓	✓	✓	✓	✓		-003	
" 10:28	ROCKY 100' H-D	W	✓	✓	✓	✓	✓	✓		-004	
" 10:35	LOC 2 500' SURF	W	✓	✓	✓	✓	✓	✓		-005	
" 10:37	LOC 2 500' HD	W	✓	✓	✓	✓	✓	✓		-006	
" "	LOC 1 100' SURF	W	✓	✓	✓	✓	✓	✓		-007	
" "	LOC 1 100' HD	W	✓	✓	✓	✓	✓	✓		-008	
" "	LOC 2 500' SURF	W	✓	✓	✓	✓	✓	✓		-009	
" "	LOC 2 500' HD	W	✓	✓	✓	✓	✓	✓		-010	

**FOR LAB USE ONLY:**  
 Cooler Temperature: 0.1-6°C Yes  No   
 Received within 6 hrs. of collection:  No   
 Ice Present: Yes  No   
**LAB COURIER USE ONLY:**  
 Sample Refrigerated: Yes  No   
 Refrigerator Temperature: \_\_\_\_\_ °C  
 Program:  TACO/SRP  CCDD  NPDES  LUST  SDWA  
 \*Matrix Code Key: S-Soil SL-Sludge DW-Drinking Water  
 WW-Wastewater GW-Groundwater WIPE-Wipe O-Other

Notes and Special Instructions: \_\_\_\_\_

Relinquished By: \_\_\_\_\_ Date/Time 5/6/12  
 Received By: \_\_\_\_\_ Date/Time 5/6/12  
 Relinquished By: \_\_\_\_\_ Date/Time \_\_\_\_\_  
 Received By: \_\_\_\_\_ Date/Time 5/6/12



**Case Narrative**

**ENVIRONMENTAL SERVICES FIRM**

Lab File ID: **24-3735**

Project ID: **Highland Park Phase II**

Date Received: **May 06, 2024**

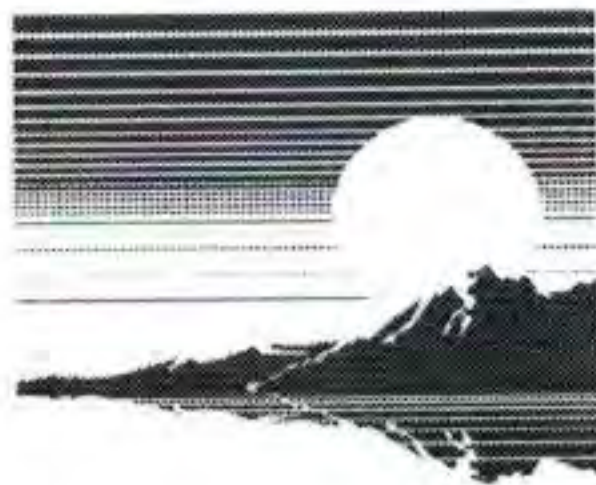
All quality control criteria, as outlined in the methods, have been met except as noted below or on the following analytical report.

The results in this report apply to the samples in the following table:

<b>Laboratory Sample ID</b>	<b>Client Sample Identifier</b>	<b>Date/Time Collected</b>
24-3735-001	Prior to Start - Surface	05/06/24 10:20
24-3735-002	Prior to Start - Mid Depth	05/06/24 10:20
24-3735-003	Location 1-100' Surface 1Hr	05/06/24 10:28
24-3735-004	Location 1-100' Mid-Depth 1Hr	05/06/24 10:28
24-3735-005	Location 2-500' Surface 1Hr	05/06/24 10:35
24-3735-006	Location 2-500' Mid-Depth 1Hr	05/06/24 10:35
24-3735-007	Location 1-100' Surface 4Hr	05/06/24
24-3735-008	Location 1-100' Mid-Depth 4Hr	05/06/24
24-3735-009	Location 2-500' Surface 4Hr	05/06/24
24-3735-010	Location 2-500' Mid-Depth 4Hr	05/06/24 10:35

**Sample Batch Comments:**

Sample acceptance criteria were met.



### Case Narrative

**ENVIRONMENTAL SERVICES FIRM**

Lab File ID: **24-3735**

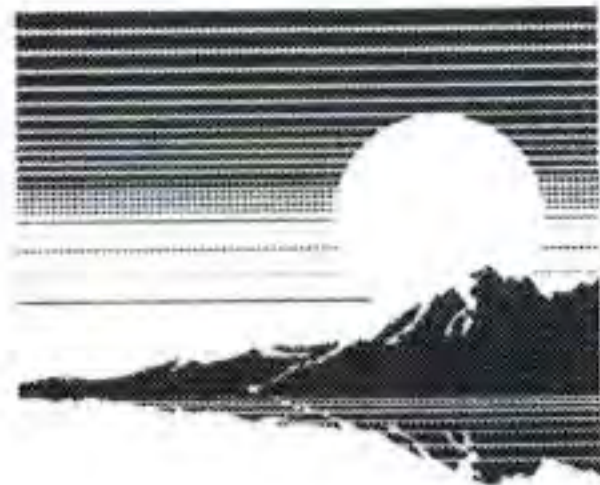
Project ID: **Highland Park Phase II**

Date Received: **May 06, 2024**

All quality control criteria, as outlined in the methods, have been met except as noted below or on the following analytical report.

The following is a definition of flags that may be used in this report:

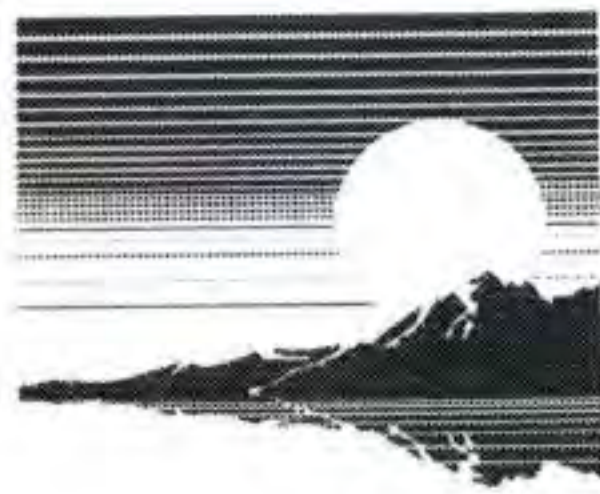
Flag	Description	Flag	Description
A	Method holding time is 15 minutes from collection. Lab analysis was performed as soon as possible.		
B	Analyte was found in the method blank.	L	LCS recovery outside control limits.
<	Analyte not detected at or above the reporting limit.	M	MS recovery outside control limits; LCS acceptable.
C	Sample received in an improper container for this test.	P	Chemical preservation pH adjusted in lab.
D	Surrogates diluted out; recovery not available.	Q	Result was determined by a GC/MS database search.
E	Estimated result; concentration exceeds calibration range.	S	Analysis was subcontracted to another laboratory.
G	Surrogate recovery outside control limits.	T	Result is less than three times the MDL value.
H	Analysis or extraction holding time exceeded.	W	Reporting limit elevated due to sample matrix.
I	ICVS % rec outside 95-105% but within 90-110%		
J	Estimated result; concentration is less than routine RL but greater than MDL.	N	Analyte is not part of our NELAC accreditation or accreditation may not be available for this parameter.
RL	Routine Reporting Limit (Lowest amount that can be detected when routine weights/volumes are used without dilution.)	ND	Analyte was not detected using a library search routine; No calibration standard was analyzed.



**Analytical Report**

<b>Client:</b>	ENVIRONMENTAL SERVICES FIRM	<b>Date Collected:</b>	05/06/24
<b>Project ID:</b>	Highland Park Phase II	<b>Time Collected:</b>	10:20
<b>Sample ID:</b>	Prior to Start - Surface	<b>Date Received:</b>	05/06/24
<b>Sample No:</b>	24-3735-001	<b>Date Reported:</b>	05/14/24

Analyte	Result	R.L.	Units	Flags
<b>Ammonia (as N)</b> Method: 350.1R2.0				
Analysis Date: 05/09/24				
Analyzed By: EMS				
Ammonia (as N)	0.12	0.10	mg/L	
<b>Chloride</b> Method: 4500Cl, E 2011/23rd				
Analysis Date: 05/08/24				
Analyzed By: NZ				
Chloride	16	2	mg/L	
<b>Hardness, Total (as CaCO3)</b> Method: 2340C 2011				
Analysis Date: 05/09/24				
Analyzed By: NH				
Hardness, Total (as CaCO3)	136	20	mg/L	
<b>pH @ 25°C</b> Method: 4500H+,B 2011				
Analysis Date: 05/08/24 10:30				
Analyzed By: NH				
pH @ 25°C	8.21		Units	A
<b>Phosphorus (as P)</b> Method: 4500P,E 1999				
Analysis Date: 05/14/24				
Analyzed By: JCG				
Phosphorus (as P)	< 0.02	0.02	mg/L	
<b>Total Suspended Solids</b> Method: 2540D 2015				
Analysis Date: 05/13/24				
Analyzed By: AAS				
Total Suspended Solids	< 5	5	mg/L	

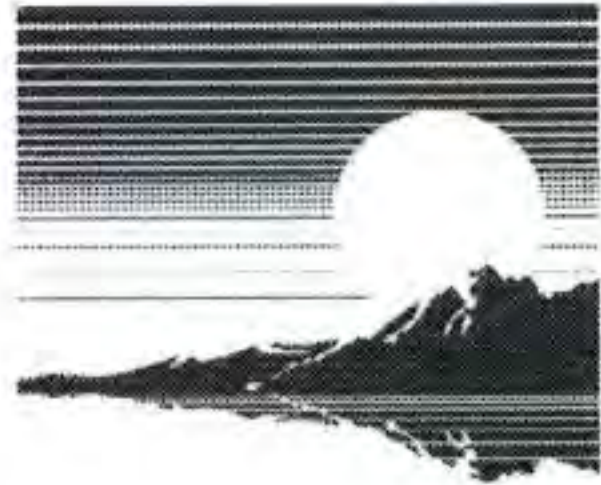


**Analytical Report**

<b>Client:</b>	ENVIRONMENTAL SERVICES FIRM	<b>Date Collected:</b>	05/06/24
<b>Project ID:</b>	Highland Park Phase II	<b>Time Collected:</b>	10:20
<b>Sample ID:</b>	Prior to Start - Mid Depth	<b>Date Received:</b>	05/06/24
<b>Sample No:</b>	24-3735-002	<b>Date Reported:</b>	05/14/24

Analyte	Result	R.L.	Units	Flags
<b>Ammonia (as N)</b> Analysis Date: 05/09/24 Analyzed By: EMS Ammonia (as N)	<b>Method: 350.1R2.0</b>  0.14	0.10	mg/L	
<b>Chloride</b> Analysis Date: 05/08/24 Analyzed By: NZ Chloride	<b>Method: 4500Cl, E 2011/23rd</b>  17	2	mg/L	
<b>Hardness, Total (as CaCO3)</b> Analysis Date: 05/09/24 Analyzed By: NH Hardness, Total (as CaCO3)	<b>Method: 2340C 2011</b>  136	20	mg/L	
<b>pH @ 25°C</b> Analysis Date: 05/08/24 10:30 Analyzed By: NH pH @ 25°C	<b>Method: 4500H+,B 2011</b>  8.07		Units	A
<b>Phosphorus (as P)</b> Analysis Date: 05/14/24 Analyzed By: JCG Phosphorus (as P)	<b>Method: 4500P,E 1999</b>  < 0.02	0.02	mg/L	
<b>Total Suspended Solids</b> Analysis Date: 05/13/24 Analyzed By: AAS Total Suspended Solids	<b>Method: 2540D 2015</b>  1,150	5	mg/L	

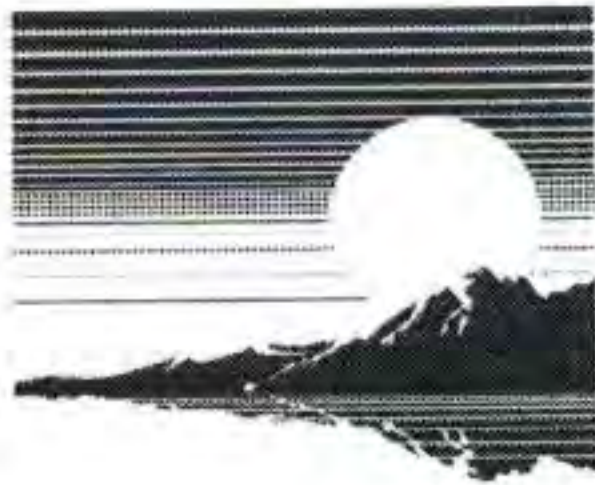




**Analytical Report**

<b>Client:</b>	ENVIRONMENTAL SERVICES FIRM	<b>Date Collected:</b>	05/06/24
<b>Project ID:</b>	Highland Park Phase II	<b>Time Collected:</b>	10:28
<b>Sample ID:</b>	Location 1-100' Surface 1Hr	<b>Date Received:</b>	05/06/24
<b>Sample No:</b>	24-3735-003	<b>Date Reported:</b>	05/14/24

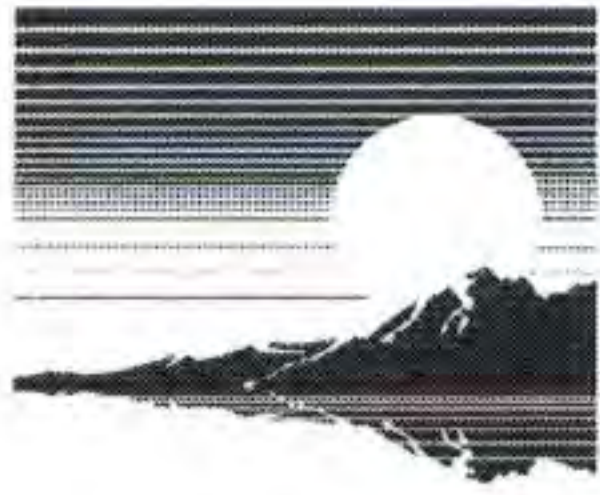
Analyte	Result	R.L.	Units	Flags
<b>Ammonia (as N) Method: 350.1R2.0</b>				
Analysis Date: 05/09/24				
Analyzed By: EMS				
Ammonia (as N)	< 0.10	0.10	mg/L	
<b>Chloride Method: 4500Cl, E 2011/23rd</b>				
Analysis Date: 05/08/24				
Analyzed By: NZ				
Chloride	17	2	mg/L	
<b>Phosphorus (as P) Method: 4500P,E 1999</b>				
Analysis Date: 05/14/24				
Analyzed By: JCG				
Phosphorus (as P)	< 0.02	0.02	mg/L	
<b>Total Suspended Solids Method: 2540D 2015</b>				
Analysis Date: 05/13/24				
Analyzed By: AAS				
Total Suspended Solids	< 5	5	mg/L	



**Analytical Report**

<b>Client:</b>	ENVIRONMENTAL SERVICES FIRM	<b>Date Collected:</b>	05/06/24
<b>Project ID:</b>	Highland Park Phase II	<b>Time Collected:</b>	10:28
<b>Sample ID:</b>	Location 1-100' Mid-Depth 1Hr	<b>Date Received:</b>	05/06/24
<b>Sample No:</b>	24-3735-004	<b>Date Reported:</b>	05/14/24

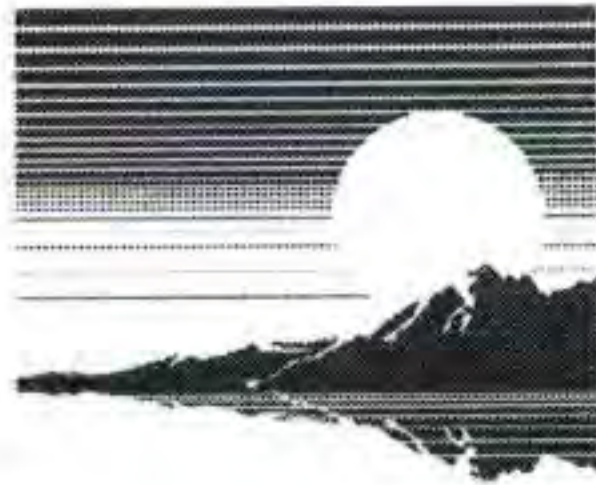
Analyte	Result	R.L.	Units	Flags
<b>Ammonia (as N) Method: 350.1R2.0</b>				
Analysis Date: 05/09/24				
Analyzed By: EMS				
Ammonia (as N)	< 0.10	0.10	mg/L	
<b>Chloride Method: 4500Cl, E 2011/23rd</b>				
Analysis Date: 05/08/24				
Analyzed By: NZ				
Chloride	17	2	mg/L	
<b>Phosphorus (as P) Method: 4500P,E 1999</b>				
Analysis Date: 05/14/24				
Analyzed By: JCG				
Phosphorus (as P)	0.03	0.02	mg/L	
<b>Total Suspended Solids Method: 2540D 2015</b>				
Analysis Date: 05/13/24				
Analyzed By: AAS				
Total Suspended Solids	3,730	5	mg/L	



**Analytical Report**

<b>Client:</b>	ENVIRONMENTAL SERVICES FIRM	<b>Date Collected:</b>	05/06/24
<b>Project ID:</b>	Highland Park Phase II	<b>Time Collected:</b>	10:35
<b>Sample ID:</b>	Location 2-500' Surface 1Hr	<b>Date Received:</b>	05/06/24
<b>Sample No:</b>	24-3735-005	<b>Date Reported:</b>	05/14/24

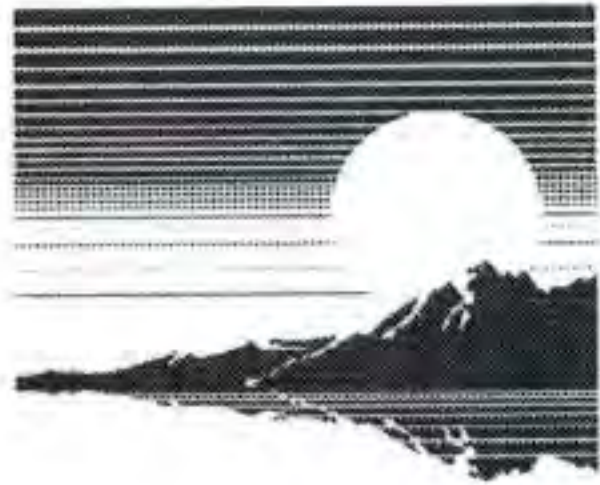
Analyte	Result	R.L.	Units	Flags
<b>Ammonia (as N)</b> Method: 350.1R2.0				
Analysis Date: 05/09/24				
Analyzed By: EMS				
Ammonia (as N)	< 0.10	0.10	mg/L	
<b>Chloride</b> Method: 4500Cl, E 2011/23rd				
Analysis Date: 05/08/24				
Analyzed By: NZ				
Chloride	16	2	mg/L	
<b>Phosphorus (as P)</b> Method: 4500P,E 1999				
Analysis Date: 05/14/24				
Analyzed By: JCG				
Phosphorus (as P)	0.08	0.02	mg/L	
<b>Total Suspended Solids</b> Method: 2540D 2015				
Analysis Date: 05/13/24				
Analyzed By: AAS				
Total Suspended Solids	51	5	mg/L	



**Analytical Report**

<b>Client:</b>	ENVIRONMENTAL SERVICES FIRM	<b>Date Collected:</b>	05/06/24
<b>Project ID:</b>	Highland Park Phase II	<b>Time Collected:</b>	10:35
<b>Sample ID:</b>	Location 2-500' Mid-Depth 1Hr	<b>Date Received:</b>	05/06/24
<b>Sample No:</b>	24-3735-006	<b>Date Reported:</b>	05/14/24

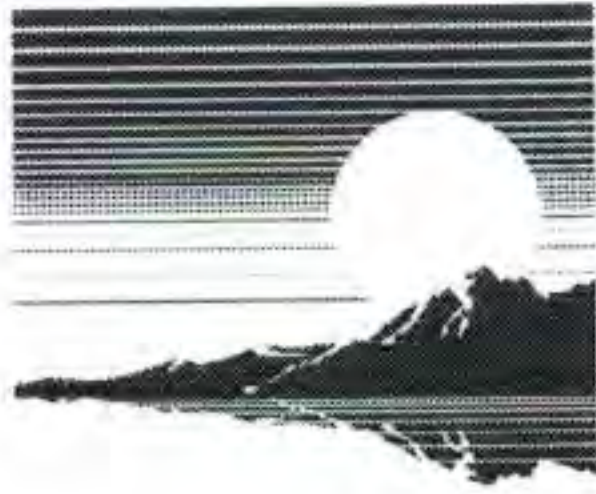
Analyte	Result	R.L.	Units	Flags
<b>Ammonia (as N) Method: 350.1R2.0</b>				
Analysis Date: 05/09/24				
Analyzed By: EMS				
Ammonia (as N)	< 0.10	0.10	mg/L	
<b>Chloride Method: 4500Cl, E 2011/23rd</b>				
Analysis Date: 05/08/24				
Analyzed By: NZ				
Chloride	17	2	mg/L	
<b>Phosphorus (as P) Method: 4500P,E 1999</b>				
Analysis Date: 05/14/24				
Analyzed By: JCG				
Phosphorus (as P)	< 0.02	0.02	mg/L	
<b>Total Suspended Solids Method: 2540D 2015</b>				
Analysis Date: 05/13/24				
Analyzed By: AAS				
Total Suspended Solids	262	5	mg/L	



**Analytical Report**

<b>Client:</b>	ENVIRONMENTAL SERVICES FIRM	<b>Date Collected:</b>	05/06/24
<b>Project ID:</b>	Highland Park Phase II	<b>Time Collected:</b>	
<b>Sample ID:</b>	Location 1-100' Surface 4Hr	<b>Date Received:</b>	05/06/24
<b>Sample No:</b>	24-3735-007	<b>Date Reported:</b>	05/14/24

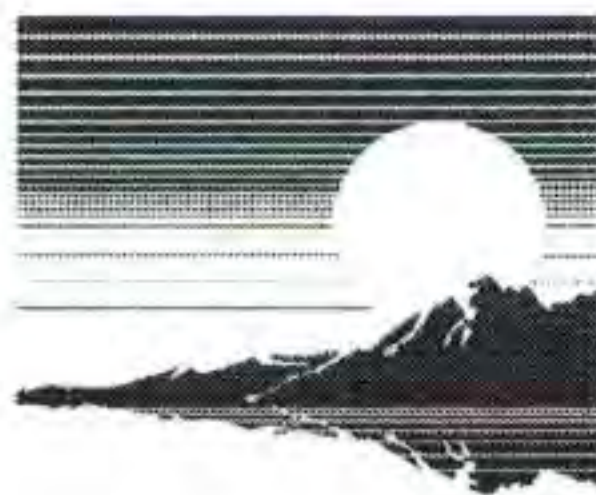
Analyte	Result	R.L.	Units	Flags
<b>Ammonia (as N) Method: 350.1R2.0</b>				
Analysis Date: 05/09/24				
Analyzed By: EMS				
Ammonia (as N)	< 0.10	0.10	mg/L	
<b>Chloride Method: 4500Cl, E 2011/23rd</b>				
Analysis Date: 05/08/24				
Analyzed By: NZ				
Chloride	16	2	mg/L	
<b>Phosphorus (as P) Method: 4500P,E 1999</b>				
Analysis Date: 05/14/24				
Analyzed By: JCG				
Phosphorus (as P)	< 0.02	0.02	mg/L	
<b>Total Suspended Solids Method: 2540D 2015</b>				
Analysis Date: 05/13/24				
Analyzed By: AAS				
Total Suspended Solids	9	5	mg/L	



**Analytical Report**

<b>Client:</b>	ENVIRONMENTAL SERVICES FIRM	<b>Date Collected:</b>	05/06/24
<b>Project ID:</b>	Highland Park Phase II	<b>Time Collected:</b>	
<b>Sample ID:</b>	Location 1-100' Mid-Depth 4Hr	<b>Date Received:</b>	05/06/24
<b>Sample No:</b>	24-3735-008	<b>Date Reported:</b>	05/14/24

Analyte	Result	R.L.	Units	Flags
<b>Ammonia (as N) Method: 350.1R2.0</b>				
Analysis Date: 05/09/24				
Analyzed By: EMS				
Ammonia (as N)	< 0.10	0.10	mg/L	
<b>Chloride Method: 4500Cl, E 2011/23rd</b>				
Analysis Date: 05/08/24				
Analyzed By: NZ				
Chloride	17	2	mg/L	
<b>Phosphorus (as P) Method: 4500P,E 1999</b>				
Analysis Date: 05/14/24				
Analyzed By: JCG				
Phosphorus (as P)	0.05	0.02	mg/L	
<b>Total Suspended Solids Method: 2540D 2015</b>				
Analysis Date: 05/13/24				
Analyzed By: AAS				
Total Suspended Solids	88	5	mg/L	



### Analytical Report

**Client:** ENVIRONMENTAL SERVICES FIRM  
**Project ID:** Highland Park Phase II  
**Sample ID:** Location 2-500' Surface 4Hr  
**Sample No:** 24-3735-009

**Date Collected:** 05/06/24  
**Time Collected:**  
**Date Received:** 05/06/24  
**Date Reported:** 05/14/24

Analyte	Result	R.L.	Units	Flags
<b>Ammonia (as N)</b> Analysis Date: 05/09/24 Analyzed By: EMS Ammonia (as N)	<b>Method: 350.1R2.0</b> 0.12	0.10	mg/L	
<b>Chloride</b> Analysis Date: 05/08/24 Analyzed By: NZ Chloride	<b>Method: 4500Cl, E 2011/23rd</b> 16	2	mg/L	
<b>Phosphorus (as P)</b> Analysis Date: 05/14/24 Analyzed By: JCG Phosphorus (as P)	<b>Method: 4500P,E 1999</b> < 0.02	0.02	mg/L	
<b>Total Suspended Solids</b> Analysis Date: 05/13/24 Analyzed By: AAS Total Suspended Solids	<b>Method: 2540D 2015</b> < 5	5	mg/L	



**Analytical Report**

<b>Client:</b> ENVIRONMENTAL SERVICES FIRM	<b>Date Collected:</b> 05/06/24
<b>Project ID:</b> Highland Park Phase II	<b>Time Collected:</b> 10:35
<b>Sample ID:</b> Location 2-500' Mid-Depth 4Hr	<b>Date Received:</b> 05/06/24
<b>Sample No:</b> 24-3735-010	<b>Date Reported:</b> 05/14/24

Analyte	Result	R.L.	Units	Flags
<b>Ammonia (as N)</b> Method: 350.1R2.0				
Analysis Date: 05/09/24				
Analyzed By: EMS				
Ammonia (as N)	0.10	0.10	mg/L	
<b>Chloride</b> Method: 4500Cl, E 2011/23rd				
Analysis Date: 05/08/24				
Analyzed By: NZ				
Chloride	17	2	mg/L	
<b>Phosphorus (as P)</b> Method: 4500P,E 1999				
Analysis Date: 05/14/24				
Analyzed By: JCG				
Phosphorus (as P)	0.02	0.02	mg/L	
<b>Total Suspended Solids</b> Method: 2540D 2015				
Analysis Date: 05/13/24				
Analyzed By: AAS				
Total Suspended Solids	46	5	mg/L	