

Protecting Our Water Environment



Metropolitan Water Reclamation District of Greater Chicago

***MONITORING AND RESEARCH
DEPARTMENT***

REPORT NO. 25-29

***RESULTS OF ACUTE TOXICITY TESTING WITH Ceriodaphnia dubia
AND Pimephales promelas ON AN JULY 2025 EFFLUENT SAMPLE
FROM THE HANOVER PARK WATER RECLAMATION PLANT OF THE
METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER
CHICAGO***

August 2025

Protecting Our Water Environment



Metropolitan Water Reclamation District of Greater Chicago

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Director of Monitoring and Research

August 25, 2025

Illinois Environmental Protection Agency
Compliance Assurance Section CAS #19
2520 W. Iles Ave.
P.O. Box 19276
Springfield, IL 62794-9276

Subject: Biomonitoring Report for 2025 – Acute Toxicity Test Results for the
Hanover Park Water Reclamation Plant, National Pollutant Discharge
Elimination System Permit Number IL0036137

The subject biomonitoring report including acute whole effluent toxicity test results for *Pimephales promelas* and *Ceriodaphnia dubia* is submitted in compliance with National Pollutant Discharge Elimination System Permit Number IL0036137, Special Condition 15. The report covers the monitoring done for samples collected in the ninth month before the expiration of the permit.

The subject report prepared by EnviroScience, Inc., includes copies of all bench sheets, chain-of-custody forms, sample receipt, preparation forms, a summary of final results and test information, quality assurance record, and water quality results.

If you have any questions concerning this report, please contact Mr. Thomas Minarik, Principal Environmental Scientist, at (708) 588-4223.

Very truly yours,

Albert Cox
Environmental Monitoring and Research
Manager
Monitoring and Research Department

AC:TM:NK:mb

Enclosure

cc: E. Podczerwinski/P. Desai

H. Zhang/T. Minarik/N. Kollias

Via electronic mail

Metropolitan Water Reclamation District of Greater Chicago
100 East Erie Street Chicago, Illinois 60611-2803 (312) 751-5600

**RESULTS OF ACUTE TOXICITY TESTING WITH *Ceriodaphnia dubia* AND *Pimephales promelas* ON A JULY 2025 EFFLUENT SAMPLE FROM THE HANOVER PARK
WATER RECLAMATION PLANT OF THE METROPOLITAN WATER
RECLAMATION DISTRICT OF GREATER CHICAGO**

By

**EnviroScience, Incorporated
5070 Stow Road
Stow, Ohio 44224**

**Monitoring and Research Department
Edward W. Podczewinski, Director**

August 2025

RESULTS OF ACUTE TOXICITY TESTS

48 Hour - *Ceriodaphnia dubia* (water flea)
96 Hour - *Pimephales promelas* (fathead minnow)

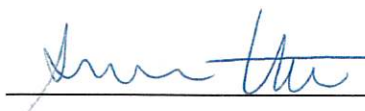
Testing period: July 16-20, 2025
Sample collection dates: July 14-15, 2025
Report date: July 24, 2025

Conducted For:
HANOVER PARK WRP
1200 Sycamore Avenue
Hanover Park, IL 60133

IL0036137

Conducted and Prepared By:
ENVIROSCIENCE, INCORPORATED
5070 Stow Rd.
Stow, OH 44224
330-688-0111



_____, Aquatic Biologist

July 24, 2025

Mr. Nicholas Kollias
Hanover Park WRP
1200 Sycamore Avenue
Hanover Park, IL 60133

Dear Mr. Kollias:

Enclosed is a copy of EnviroScience's report for the following whole effluent toxicity (WET) tests that were initiated on July 16, 2025 with effluent collected from outfall 001:

- (1) 48-hour static acute bioassay using *Ceriodaphnia dubia* (water flea) and
- (1) 96-hour static acute bioassay using *Pimephales promelas* (fathead minnow).

The effluent sample was not shown to be toxic to either species. Acute Toxicity Units (TU_a) are listed below.

WET test endpoints for Hanover Park WRP, 07/2025
sample collection period 07/14-15/25

Effluent:

<i>Ceriodaphnia dubia</i> (water flea)	48HR LC ₅₀ = >100% effluent;	TU _a = <1.0 (TU _a = 100/LC ₅₀)
<i>Pimephales promelas</i> (fathead minnow)	96HR LC ₅₀ = >100% effluent;	TU _a = <1.0 (TU _a = 100/LC ₅₀)

Please call me if you have any questions.

Sincerely,



Alexandria M. Tite, Aquatic Biologist

enclosures



5070 Stow Road
Stow, OH 44224

BIOMONITORING REPORT FORM FOR NPDES PERMIT REQUIREMENTS

Table 1. General Information

1. Facility: Hanover Park WRP
2. Address: 1200 Sycamore Ave., Hanover Park, IL, 60133
3. NPDES Permit No.: IL0036137
4. Facility Contact: Nicholas Kollias 5. Phone No.: 708-588-4074
6. Testing Lab: EnviroScience, Inc., 5070 Stow Rd., Stow, OH 44224
7. Laboratory Contact: Alex Tite 8. Phone No.: 330-688-0111
9. Receiving Water(s) of Discharge: West Branch DuPage River
10. Outfall(s) Tested: 001
11. Test Species/Type: #1 Ceriodaphnia dubia (water flea) 48-hour definitive, static, non-renewal EPA 2002.0
#2 Pimephales promelas (fathead minnow) 96-hour definitive, static, non-renewal EPA 2000.0
12. Dechlorination?: no Original Chlorine Conc.: <0.02 mg/l
13. Report Contents:

General information.....	Table 1
Sampling information	Table 2
Test dates and times.....	Table 3
Initial chemistry	Table 4
Test conditions.....	Table 5
Test results Plant Effluent.....	Table 6
Additional Information	Table 7
Attachments	
Chain-of-Custody, bench sheets/data analysis	
SRT control charts	


Signature of preparer

Alexandria M. Tite
Name (typed or printed)

07/24/25
Date

Aquatic Biologist
Title

Table 2. Sampling summary.

Outfall	Sample Type	Volume Collected	Sample Collection		Comments
			Begin MM/DD/YY- Time	End or Grab MM/DD/YY- Time	
001	composite	1 gallon	07/14/25-____	07/15/25-____	

Table 3. Testing periods.

<i>Ceriodaphnia dubia</i> (water flea)		<i>Pimephales promelas</i> (fathead minnow)	
Start Date: MM/DD/YY	07/16/25	Start Date: MM/DD/YY	07/16/25
Start Time:	1320 hrs	Start Time:	1400 hrs
End Date: MM/DD/YY	07/18/25	End Date: MM/DD/YY	07/20/25
End Time:	1230 hrs	End Time:	1420 hrs

Notes: Sample receipt: 07/16/25-1020; 4.7 °C.

Table 4. Initial chemistry. DO = dissolved oxygen. TRC = total residual chlorine.

sample # (Plant Effluent)	collection date	DO mg/L	pH s.u.	conductivity µmho/cm	alkalinity mg/L CaCO ₃	hardness mg/L CaCO ₃	TRC mg/L	Ammonia mg/L
001	07/14-15/25	8.6	6.8	1033	140	260	<0.02	0.59

Methods or Instrumentation used in chemical analysis:

Dissolved Oxygen: APHA (1998, 20th ed.) 4500-O G., OX 4100L

pH: APHA (1998, 20th ed.) 4500-H⁺ B., Orion Star A211

Conductivity: APHA (1998, 20th ed.) 2510 B., Orion Star A212

Total Alkalinity: APHA (1998, 20th ed.) 2320 B.

Total Hardness: APHA (1998, 20th ed.) 2340 C.

Total Residual Chlorine: APHA (1998, 20th ed.) 4500-Cl D., HACH TitraLab AT1000

Table 5. Summary of toxicity test conditions for testing with *Ceriodaphnia dubia* and *Pimephales promelas*.

	<i>Ceriodaphnia dubia</i>	<i>Pimephales promelas</i>
1. Test dates:	07/16/25-1320 to 07/18/25-1230	07/16/25-1400 to 07/20/25-1420
2. Test type and duration:	static, non-renewal, 48 hours	static, non-renewal, 96-hours
3. Age and source of organisms:	<24 hours, EnviroScience 07/15/25-1600	8 days, ES 07/07/25-1535
4. Photoperiod/ Light quality:	16 hours light / 8 hours dark fluorescent light, 50-100fc	16 hours light / 8 hours dark fluorescent light, 50-100fc
5. Test temperature:	25±1 °C	25±1 °C
6. Feeding regime:	fed alga <i>Selenastrum capricornutum</i> and YAT prior to test only	fed <500 brine shrimp/vessel at 48-hours
7. Size of test vessel:	30 ml plastic cup	600 ml glass beaker
8. Volume and depth of test solutions:	15 ml and 24 mm	250 ml and 42 mm
9. No. of test organisms per vessel:	5	10
10. No. of vessels per solution:	4	2
11. Total no. of organisms per test level:	20	20
12. Test concentrations as % effluent:	6.25, 12.5, 25, 50, and 100	6.25, 12.5, 25, 50, and 100
13. Dilution and primary control water:	moderately hard reconstituted water, MHRW	moderately hard reconstituted water, MHRW
14. Secondary control:	moderately hard dilute mineral water, DMW	moderately hard dilute mineral water, DMW
15. Aeration:	none	none
16. Endpoints:	mortality - no movement with gentle prodding (LC ₅₀); plus behavioral effects such as atypical swimming (EC ₅₀)	mortality - no movement with gentle prodding (LC ₅₀); plus behavioral effects such as atypical swimming (EC ₅₀)
17. No. of consecutive tests conducted with an <u>alternate</u> source of primary control water:	NA	NA

Table 6. Percent cumulative mortality, LC ₅₀ , EC ₅₀ , and 95% confidence intervals for acute toxicity tests using <i>Ceriodaphnia dubia</i> and <i>Pimephales promelas</i> using effluent collected from Outfall 001 .						
Concentration	<i>C. dubia</i> (water flea) <u>07/16/25 to 07/18/25</u>		<i>P. promelas</i> (fathead minnow) <u>07/16/25 to 07/20/25</u>			
	24-hours % mortality	48-hours % mortality	24-hours % mortality	48-hours % mortality	72-hours % mortality	96-hours % mortality
MHRW lab water, diluent	0	0	0	0	0	0
DMW, lab water	0	0	0	0	0	0
6.25% effluent	0	0	0	0	0	0
12.5% effluent	0	0	0	0	0	0
25% effluent	0	0	0	0	0	0
50% effluent	0	0	0	0	0	0
100% effluent	0	0	0	0	0	0
LC ₅₀	<u>>100%</u> effluent	<u>>100%</u> effluent	<u>>100%</u> effluent	<u>>100%</u> effluent	<u>>100%</u> effluent	<u>>100%</u> effluent
95% C.I.						
EC ₅₀	<u>>100%</u> effluent	<u>>100%</u> effluent	<u>>100%</u> effluent	<u>>100%</u> effluent	<u>>100%</u> effluent	<u>>100%</u> effluent
95% C.I.						
TUa (100÷LC ₅₀)		<1.0				<1.0
Methods:	Cetis 2.1.6.					

Table 7. Additional Information:

Indicate below any other relevant information that may aid in the evaluation of this report. Include any deviations from current SOP that were necessary. Attach additional pages as needed.

7.1 Deviations/relevant information.

7.2 Terms.

- LC_{50} = median lethal concentration. A mathematical estimate of the effluent concentration that would kill 50% of the exposed specimens during the specified exposure period.
- TU_a = Acute Toxicity Unit; $TU_a = 100 \div LC_{50}$ (usually 48-hour LC_{50} for water fleas and 96-hour LC_{50} for FHM)

ATTACHMENTS

Chain-of-Custody/Sample Submission
Bench sheets
Standard Reference Toxicant Control Charts



EnviroScience, Inc.
5070 Stow Road
Stow, OH 44224
Phone (330) 688-0111
Fax (330) 688-3858
1-800-940-4025

Client: Hanover Park WRP
Address: 1200 Sycamore Avenue
Hanover Park, IL 60133
Contact: Nicholas Kollias
Phone: 708-588-4074
Permit #: IL0036137

SAMPLE SUBMISSION AND CHAIN OF CUSTODY FORM

Test(s) to be performed:

- ☐ Chronic Definitive
☒ Acute Definitive
☐ 48 hr. Screening
☐ 24 hr. Stormwater
☐ Pass/Fail
- Test Species:
☒ P. promelas and C. dubia
☐ P. promelas
☐ C. dubia
☐ D. magna

Wastewater Type (Circle One)
Industrial Other
Municipal
Other

When listing a composite sample in the table below, please provide the start and end time of the composite period.

Start Date	Time	End Date	Station No.	Sample Site	Sample Type		Number of Cubitainers	Chemistry		Temp. °C
					Comp	Grab		TRC	Cond	
7/14/25		7/15/25	007	HP WRP Final Effluent	✓		1	0	966	8.84
7/14/25										7.41
										5.6

Comp. = Composite, D.O. = Dissolved Oxygen measured in mg/l, pH measured in s.u., Conductivity measured in uohm/cm

Sampling Collector's Information: please check all appropriate boxes

EnviroScience Personnel Only

✓	Effluent	Collectors Name: Paula Brinkman Low	Effluent	Collected By:	
	Upstream	Collectors Signature: Paula Brinkman	Upstream	Collectors Signature:	
	Near Field	M.G.D. =	Near Field		
	Far Field	Weather Conditions:	Far Field		
Plume Determined By What Method?					

Comments:

Received from:	Received by:	Date	Time	Shipping Information	EnviroScience Use Only	
MWRD GrC		7/15/25	11:30 am	Date Shipped	Client	Hanover Park
	Wendy J. Jones	07/16/25	1030	Time Shipped	Sample ID's	HPA071625 EFF
				Method Shipped	Cond. Of Container	Good
				ES Vehicle	Temp. °C	47.0

EnviroScience, Inc. Cooler Receipt Form (Form 7050-5 rev. 04/05/25)

Client Hanover Park

ES Sample ID HAPA-071625 EFF

Cooler Received by: MJ

Date Cooler Received and Opened 071625

Received from: FedEx ☒ UPS ☐ Client Drop Off ☐ ES Courier ☐

1. Were custody seals on the outside of cooler? Yes ☐ No ☒
Were custody seals signed, dated and intact? Yes ☐ No ☒
2. Did Chain of Custody (COC) accompany the samples? Yes ☒ No ☐
3. Were the COC's signed in the appropriate places? Yes ☒ No ☐
If No explain _____
4. Was the sample time and date filled in correctly? Yes ☒ No ☒
MJ
7-16
5. Sample Temperature upon receipt 4.7 °C
6. Did all sample container labels match the samples written on the COC? Yes ☒ No ☐
Were the sample containers in good condition? Yes ☒ No ☐
7. Was sufficient quantity received to perform indicated tests? Yes ☒ No ☐
8. Was this sample received within required holding time? Yes ☒ No ☐
9. Presence or Absence of headspace: Present ☐ Absent ☒
10. EPA method code: 1000.0: ☐ 1002.0: ☐ 2000.0: ☒ 2002.0: ☒

Explain any discrepancies or client notifications that occurred regarding this

sample: no sample times recorded



5070 Stow Road
Stow, Ohio 44224
Phone (330) 688-0111; 1-800-940-4025
Fax (330) 688-3858



Acute, 48-hour, non-renewal Bioassay:

Project: HAPA

No.: 120036137

Start Date: 071625 Time: 1320

End Date: 071825 Time: 1230

Organism: C. dubia

Source: BBC060250

Hatch/Age: 071525 1600/224hrs

Diluent: MHR

Sample #: HAPA 071625 EFF

test levels		Biological Parameters			Chemistry and Physical Parameters											
		n	Dead / Affected		Temperature (Celsius)			Dissolved Oxygen (mg/L)			pH (s.u.)			Conductivity (µmhos/cm)		
			24 hr	48 hr	0	24	48	0	24	48	0	24	48	0	24	48
MHR	Rep															
	A	5	0/0	0/0	24.0	24.9	24.0	8.3		8.4	7.1	7.3	7.3	291		312
	B	5	0/0	0/0	DA 7/18											
	C	5	0/0	0/0												
DMW	D	5	0/0	0/0												
	A	5	0/0	0/0	24.0	25.1	24.4	8.4		8.3	7.2		7.3	309		336
	B	5	0/0	0/0												
	C	5	0/0	0/0												
6.25%	D	5	0/0	0/0												
	A	5	0/0	0/0	24.0	25.0	24.4	8.6		8.3	7.2		7.3	316		343
	B	5	0/0	0/0												
	C	5	0/0	0/0												
12.5%	D	5	0/0	0/0												
	A	5	0/0	0/0	24.0	25.0	24.4	8.6		8.1	7.1		7.3	364		390
	B	5	0/0	0/0												
	C	5	0/0	0/0												
25%	D	5	0/0	0/0												
	A	5	0/0	0/0	24.0	24.9	24.4	8.6		8.0	7.0		7.2	454		479
	B	5	0/0	0/0												
	C	5	0/0	0/0												
50%	D	5	0/0	0/0												
	A	5	0/0	0/0	24.0	24.8	24.0	8.6		7.9	7.0		7.3	621		656
	B	5	0/0	0/0												
	C	5	0/0	0/0												
100%	D	5	0/0	0/0												
	A	5	0/0	0/0	24.0	24.6	24.0	8.6		7.8	6.9		7.3	991		1006
	B	5	0/0	0/0												
	C	5	0/0	0/0												
Time	1320		1220	1230	1320	1220	1230	1200		1315	1205		1315	1140		1310
	Tech	RL	WB	TM	RL	WB	TM	TM		DA	TM		DA	TM		DA
					4	4	10	OX 4100L			Orion Star A211 A			Orion Star A212		
					ID or √ instrument used			TM		DA	TM		DA	TM		DA
					Other:			Orion Star A211 B			Other:					

USEPA Method: 2002.0

Form 8010-5 rev. 01/09/25

JMS

CETIS Analytical Report

 Report Date: 24 Jul-25 07:55 (p 1 of 2)
 Test Code/ID: 7B5496ED / 20-6914-1229

Ceriodaphnia 48-h Acute Survival Test				EnviroScience			
Analysis ID:	16-4292-9504	Endpoint:	48h Survival Rate	CETIS Version:	CETIS v2.1.6		
Analyzed:	24 Jul-25 7:55	Analysis:	Linear Interpolation (ICPIN)	Status Level:	1		
Edit Date:	24 Jul-25 0:00	MD5 Hash:	68E117461239090AA7E1427F0F536296	Editor ID:	006-866-707-0		
Batch ID:	04-9002-8054	Test Type:	Survival (48h)	Analyst:			
Start Date:	16 Jul-25 13:20	Protocol:	EPA/821/R-02-012 (2002)	Diluent:	Upstream of Discharge		
Ending Date:	18 Jul-25 12:30	Species:	Ceriodaphnia dubia	Brine:			
Test Length:	47h	Taxon:	Branchiopoda	Source:	In-House Culture	Age:	
Sample ID:	08-2071-9656	Code:	30EB3028	Project:			
Sample Date:	15 Jul-25 07:00	Material:	POTW Effluent	Source:	Discharge Monitoring Report		
Receipt Date:	16 Jul-25 10:20	CAS (PC):		Station:	001		
Sample Age:	30h	Client:	Hanover Park, IL				

Linear Interpolation Options

X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Linear	Linear	1532319	1000	Yes	Two-Point Interpolation

Test Acceptability Criteria

TAC Limits

Attribute	Test Stat	Lower	Upper	Overlap	Decision
Control Resp	1	0.9	>>	Yes	Passes Criteria

Point Estimates

Level	%	95% LCL	95% UCL	Tox Units	95% LCL	95% UCL
LC50	>100	---	---	<1	---	---

48h Survival Rate Summary

Calculated Variate(A/B)

Isotonic Variate

Conc-%	Code	Count	Mean	Median	Min	Max	CV%	%Effect	ΣA/ΣB	Mean	%Effect
0	D	4	1.0000	1.0000	1.0000	1.0000	0.00%	0.00%	20/20	1.0000	0.00%
6.25		4	1.0000	1.0000	1.0000	1.0000	0.00%	0.00%	20/20	1.0000	0.00%
12.5		4	1.0000	1.0000	1.0000	1.0000	0.00%	0.00%	20/20	1.0000	0.00%
25		4	1.0000	1.0000	1.0000	1.0000	0.00%	0.00%	20/20	1.0000	0.00%
50		4	1.0000	1.0000	1.0000	1.0000	0.00%	0.00%	20/20	1.0000	0.00%
100		4	1.0000	1.0000	1.0000	1.0000	0.00%	0.00%	20/20	1.0000	0.00%

48h Survival Rate Detail

Conc-%	Code	Rep 1	Rep 2	Rep 3	Rep 4
0	D	1.0000	1.0000	1.0000	1.0000
6.25		1.0000	1.0000	1.0000	1.0000
12.5		1.0000	1.0000	1.0000	1.0000
25		1.0000	1.0000	1.0000	1.0000
50		1.0000	1.0000	1.0000	1.0000
100		1.0000	1.0000	1.0000	1.0000

48h Survival Rate Binomials

Conc-%	Code	Rep 1	Rep 2	Rep 3	Rep 4
0	D	5/5	5/5	5/5	5/5
6.25		5/5	5/5	5/5	5/5
12.5		5/5	5/5	5/5	5/5
25		5/5	5/5	5/5	5/5
50		5/5	5/5	5/5	5/5
100		5/5	5/5	5/5	5/5

CETIS Analytical Report

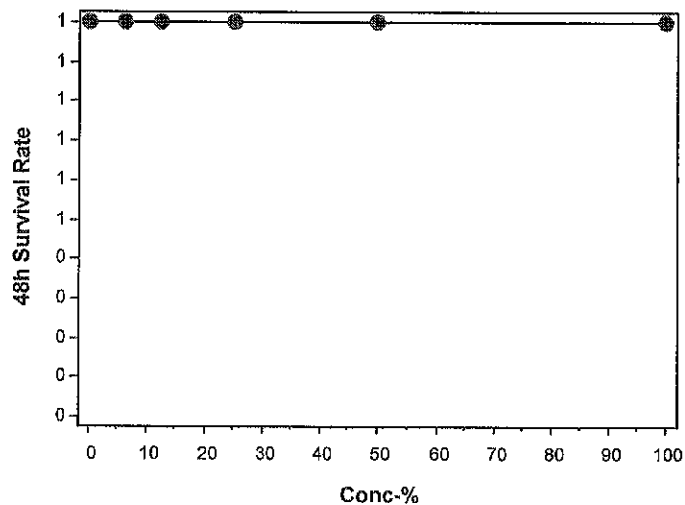
Report Date: 24 Jul-25 07:55 (p 2 of 2)
Test Code/ID: 7B5496ED / 20-6914-1229

Ceriodaphnia 48-h Acute Survival Test

EnviroScience

Analysis ID: 16-4292-9504	Endpoint: 48h Survival Rate	CETIS Version: CETIS v2.1.6
Analyzed: 24 Jul-25 7:55	Analysis: Linear Interpolation (ICPIN)	Status Level: 1
Edit Date: 24 Jul-25 0:00	MD5 Hash: 68E117461239090AA7E1427F0F536296	Editor ID: 006-866-707-0

Graphics





ACUTE, 96 HOUR, NON- RENEWAL BIOASSAY:

Project: HAPANo.: 1L0036137Start Date: 071625 Time: 1400End Date: 072025 Time: 1420Organism: Pimephales promelas (FHM)Source: ES culturesHatch/Age: 070725 1535 / 8 daysDiluent: MHRSample #: HAPA 071625 EFF

Biological Parameters: # Mortalities / # Affected

test levels →					MHR	DMW	6.25%	12.5%	25%	50%	100%
0 hours set-up	Tech	DA	n	A	10	10	10	10	10	10	10
	Time	1400		B	10	10	10	10	10	10	10
24 hours	Tech	MJ	A		0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0
	Time	1330		B	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0
48 hours	Tech	SV	A		0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0
	Time	1300		B	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0
72 hours	Tech	KM	A		0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0
	Time	1330		B	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0
96 hours	Tech	SV	A		0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0
	Time	1300		B	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0

Chemical and Physical Data

				Tech	Time	Instr.#	MHR	DMW	6.25%	12.5%	25%	50%	100%
Temp. °C	0 hr	DA	1400	11	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0
	24 hr	MJ	1330	10	24.1	24.3	24.4	24.4	24.3	24.4	24.3	24.3	24.3
	48 hr	SV	1300	3	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0
	72 hr	KM	1330	3	24.8	24.8	24.8	24.7	24.8	24.7	24.9	24.9	24.9
	96 hr	SV	1300	10	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0
cond. µmhos/cm	0 hr	TN	1140	A212	291	309	316	314	454	621	991	991	991
	24 hr	DA	1050	A212	292	318	335	372	472	641	997	997	997
	48 hr	DA	1015	A212	294	319	334	376	465	643	1004	1004	1004
	72 hr	DA	1030	A212	294	323	333	374	470	643	1008	1008	1008
	96 hr	HD	1315	A212	297	322	335	375	471	649	1013	1013	1013
DO mg/L	0 hr	TN	1145	OX 4100L	8.3	8.4	8.6	8.6	8.6	8.6	8.6	8.6	8.6
	24 hr	DA	1110	OX 4100L	8.3	8.1	8.1	8.1	8.3	8.4	8.2	8.2	8.2
	48 hr	DA	1050	OX 4100L	8.4	8.2	8.2	8.0	7.9	7.7	7.6	7.6	7.6
	72 hr	DA	1015	OX 4100L	8.5	8.5	8.4	8.4	8.4	8.4	8.4	8.4	8.4
	96 hr	HD	1315	OX 4100L	8.4	8.3	8.2	8.2	8.2	8.2	8.3	8.3	8.3
pH s.u.	0 hr	TN	1205	A211A	7.1	7.2	7.2	7.2	7.1	7.0	6.9	6.9	6.9
	24 hr	DA	1140	A211A	7.2	7.2	7.2	7.2	7.3	7.3	7.4	7.4	7.4
	48 hr	DA	1130	A211B	7.2	7.4	7.2	7.1	7.2	7.2	7.2	7.2	7.2
	72 hr	DA	1055	A211A	7.2	7.2	7.2	7.2	7.2	7.4	7.6	7.6	7.6
	96 hr	HD	1315	A211B	7.1	7.1	7.1	7.1	7.2	7.2	7.3	7.3	7.3

JMJ

CETIS Analytical Report

Report Date: 24 Jul-25 07:57 (p 1 of 2)
Test Code/ID: 75D5249D / 19-7690-2813

Fathead Minnow 96-h Acute Survival Test

EnviroScience

Analysis ID: 05-2739-7414 Endpoint: 96h Survival Rate CETIS Version: CETIS v2.1.6
Analyzed: 24 Jul-25 7:57 Analysis: Linear Interpolation (ICPIN) Status Level: 1
Edit Date: 24 Jul-25 0:00 MD5 Hash: 509FC2E8BA2BA32D9479C7B479A5A46A Editor ID: 006-866-707-0

Batch ID: 03-5567-0254 Test Type: Survival (96h) Analyst:
Start Date: 16 Jul-25 14:00 Protocol: EPA/821/R-02-012 (2002) Diluent: Upstream of Discharge
Ending Date: 20 Jul-25 14:20 Species: Pimephales promelas Brine:
Test Length: 4d 0h Taxon: Actinopterygii Source: In-House Culture Age:

Sample ID: 14-9381-2344 Code: 5909C478 Project:
Sample Date: 15 Jul-25 07:00 Material: POTW Effluent Source: Discharge Monitoring Report
Receipt Date: 16 Jul-25 10:20 CAS (PC): Station: 001
Sample Age: 31h Client: Hanover Park, IL

Linear Interpolation Options

X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Linear	Linear	1937295	1000	Yes	Two-Point Interpolation

Test Acceptability Criteria

TAC Limits

Attribute	Test Stat	Lower	Upper	Overlap	Decision
Control Resp	1	0.9	>>	Yes	Passes Criteria

Point Estimates

Level	%	95% LCL	95% UCL	Tox Units	95% LCL	95% UCL
LC50	>100	---	---	<1	---	---

96h Survival Rate Summary

Conc-%	Code	Count	Calculated Variate(A/B)							Isotonic Variate	
			Mean	Median	Min	Max	CV%	%Effect	ΣA/ΣB	Mean	%Effect
0	D	2	1.0000	1.0000	1.0000	1.0000	0.00%	0.00%	20/20	1.0000	0.00%
6.25		2	1.0000	1.0000	1.0000	1.0000	0.00%	0.00%	20/20	1.0000	0.00%
12.5		2	1.0000	1.0000	1.0000	1.0000	0.00%	0.00%	20/20	1.0000	0.00%
25		2	1.0000	1.0000	1.0000	1.0000	0.00%	0.00%	20/20	1.0000	0.00%
50		2	1.0000	1.0000	1.0000	1.0000	0.00%	0.00%	20/20	1.0000	0.00%
100		2	1.0000	1.0000	1.0000	1.0000	0.00%	0.00%	20/20	1.0000	0.00%

96h Survival Rate Detail

Conc-%	Code	Rep 1	Rep 2
0	D	1.0000	1.0000
6.25		1.0000	1.0000
12.5		1.0000	1.0000
25		1.0000	1.0000
50		1.0000	1.0000
100		1.0000	1.0000

96h Survival Rate Binomials

Conc-%	Code	Rep 1	Rep 2
0	D	10/10	10/10
6.25		10/10	10/10
12.5		10/10	10/10
25		10/10	10/10
50		10/10	10/10
100		10/10	10/10

CETIS Analytical Report

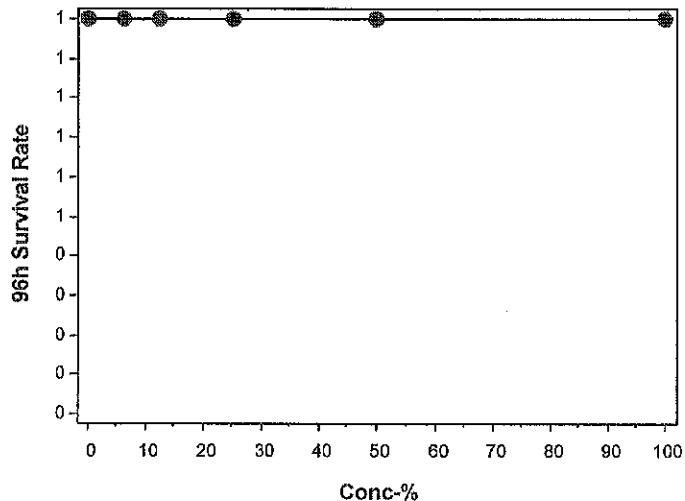
Report Date: 24 Jul-25 07:57 (p 2 of 2)
Test Code/ID: 75D5249D / 19-7690-2813

Fathead Minnow 96-h Acute Survival Test

EnviroScience

Analysis ID: 05-2739-7414	Endpoint: 96h Survival Rate	CETIS Version: CETIS v2.1.6
Analyzed: 24 Jul-25 7:57	Analysis: Linear Interpolation (ICPIN)	Status Level: 1
Edit Date: 24 Jul-25 0:00	MD5 Hash: 509FC2E8BA2BA32D9479C7B479A5A46A	Editor ID: 006-866-707-0

Graphics





Acute, Static Bioassay:

Initial Water Quality Checks (DO, pH, conductivity, chlorine, alkalinity, hardness) and Dilution Record

Client: HAPA

Permit No.: 1L0030137

Date: 07/16/25

Form 5000 rev. 01/09/25

Initial Water Quality Data:

Sample Id	D. Oxygen (mg/L-%sat) >4 & <100%?	pH (s.u) 6-9?	Conductivity (µmhos/cm)	TRC _i (mg/L) <0.02?	TRC _A (mg/L)	Alkalinity (mg/L CaCO ₃) MDL = 20 mg/l	Hardness-EDTA (mg/L CaCO ₃) MDL = 5 mg/l
MHRW batch# <u>071525</u>	<u>8.6</u>	<u>7.4</u> ☐ Star A211 A ☒ Star A211 B	<u>278</u> <u>10.0</u> <u>TM 116</u>	<u>21.02</u>	NA	<u>(3.5) 70</u>	<u>(2.4) 96</u>
HAPA <u>071625</u> EFF	<u>8.6</u>	<u>6.8</u> ☐ Star A211 A ☒ Star A211 B	<u>10.0</u> <u>TM 116</u> <u>10.0</u> <u>1033</u>	<u>21.02</u>	-	<u>(7.0) 140</u>	<u>(6.5) 260</u>
		☐ Star A211 A					
		☐ Star A211 B					
		☐ Star A211 A					
		☐ Star A211 B					
		☐ Star A211 A					
		☐ Star A211 B					
INITIALS →	<u>TM</u>	<u>TM</u>	<u>TM</u>	<u>TM</u>		<u>TM</u>	<u>TM</u>

Dilution Record: Ammonia: 0.59 mg/L

SAMPLE ID	Composited	60µm Filtered	% DILUTION	INITIATION		RENEWAL No	
	☐ Yes ☒ No	☐ Yes ☒ No		Effluent (mL)	Final (mL)	Effluent (mL)	Final (mL)
HAPPA 071625 EFF	☐ Yes ☒ No	☐ Yes ☒ No	6.25%	62.5	1000		
	☐ Yes ☒ No	☐ Yes ☒ No	12.5%	125	↓		
	☐ Yes ☒ No	☐ Yes ☒ No	25%	250	↓		
	☐ Yes ☒ No	☐ Yes ☒ No	50%	500	↓		
Comments:							
Methods/Instrumentation : DO: APHA (1998) 4500-O G, OX4100L pH: APHA (1998) 4500-H B, Star A211 Conductivity: APHA (1998) 2510-B, Orion Star A212 Hardness: APHA (1998) 2340-C Alkalinity: APHA (1998) 2320-B TRC: APHA (1998) 4500-Cl D, TitraLab AT 1000 USEPA Methods: 2000.0; 2002.0			Dilution Water:	☐ Upstream ☒ MHR		☐ Upstream ☐ MHR	
			MHR Batch:	071625			

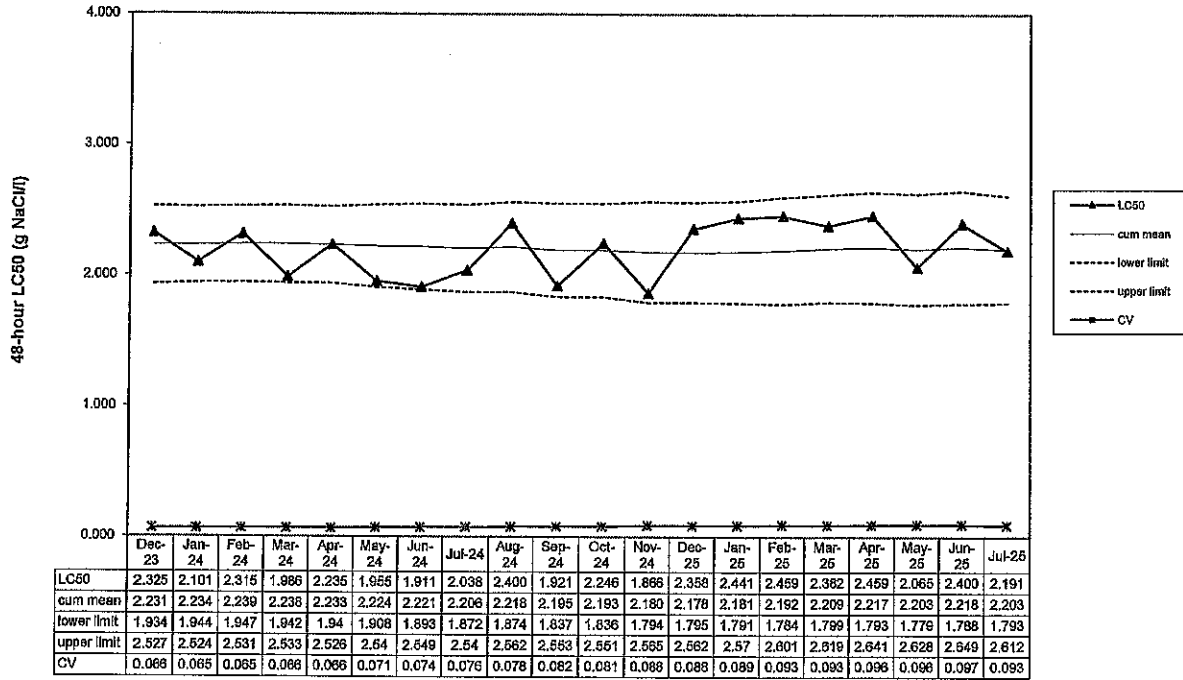
TRC_i = total residual chlorine, initial value

TRC_A = total residual chlorine, after dechlorination

Dechlorination procedure: Sodium thiosulfate is used to reduce Total Residual Chlorine by dosing with 6.7 mg Na₂S₂O₃ per mg TRC. A 6.7 mg/ml Na₂S₂O₃ solution is used; dose mL = X mg/L * liters in sample container being treated.

1/11/25

EnviroScience QC Chart - *Ceriodaphnia dubia*
Acute Toxicity endpoint - 25 C

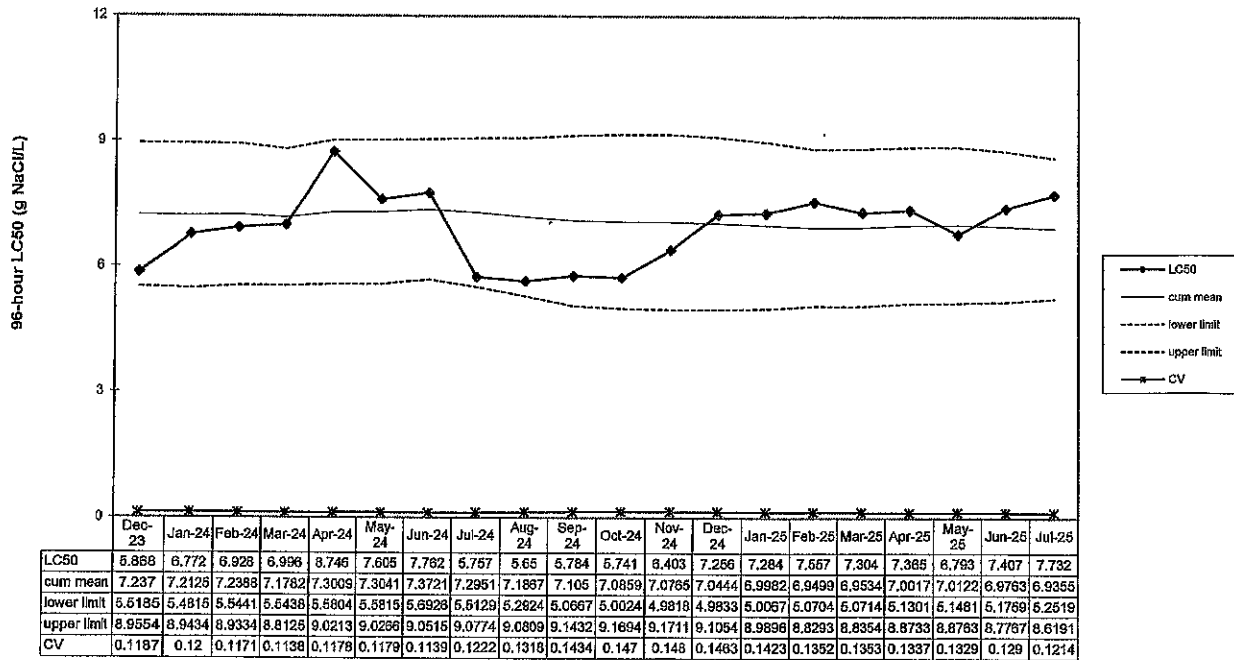


Test Date (MM.YY)

Tests conducted at Stow, OH facility

EnviroScience QC/SRT Chart rev. 07/29/25

EnviroScience QC Chart - *Pimephales promelas*
Acute Toxicity Endpoint - 25 C



Test Date (MM.YY)

Tests conducted at Stow, OH facility

EnviroScience QC/SRT Chart rev. 07/29/25

The WET Sample Chain-of-Custody

SAMPLE COLLECTION			SAMPLE TYPE	SAMPLE LOCATION	SAMPLE Temp °C	ON-SITE SAMPLE STORAGE (0.1-6 °C)	PRINT NAME & SIGNATURE
DATE	TIME	PERSONNEL INITIALS					
7/14/2025	0700	NSR	Grab	OUTFALL	20.8	☒ YES / ☐ NO	Norberto Snelc2 <i>[Signature]</i>
7/14/2025	1300	KK	Grab	Outfall	21.5	☒ YES / ☐ NO	Kevin Kaminski <i>[Signature]</i>
7/14/2025	1900	PK	Grab	Outfall	21.9	☒ YES / ☐ NO	Paul Kuzninski <i>[Signature]</i>
7/15/2025	0100	AK	Grab	OUTFALL	21.4	☒ YES / ☐ NO	Aidan Kelly <i>[Signature]</i>
7/15/2025	0700	KK	Grab	Outfall	21.2	☒ YES / ☐ NO	Kevin Kaminski <i>[Signature]</i>

Note: Sample container should be rinsed and should be filled completely leaving no air space between contents & lid. Preserve samples on ice or refrigerator (0.1-6°C) immediately after collection. Transport samples in ice-packed coolers to the WET Laboratory. The WET laboratory is located in Room LE-100, Lue-Hing R&D Complex.

Indicate if the final effluent was chlorinated/dechlorinated ☒ Yes / ☐ No / NA.

SAMPLES RELINQUISHED BY: Name Kevin Kaminski Signature: *[Signature]* Date/Time: 7/15/25 0707

SAMPLES TRANSPORTED TO WET LAB. BY Name Paula Brinkman Signature: *[Signature]* Date/Time: 7/15/25 0712

FOR WET LABORATORY USE ONLY:

Sample Received by: Name Paula Brinkman Signature: *[Signature]* Date/Time 7/15/25 0830

- Samples received with prescribed holding time (within 4 h of collection)? (Not Applicable, if chronic test)
 - Samples logged in by *[Signature]* Date 7/15/25 Time 0830
 - Each sample container labeled with a unique ID?
 - Were collection times for effluent and receiving water within 1 h of each other?
 - Did samples have sufficient volume for analysis?
 - Samples accepted
- Special Observations _____

- ☒ Yes / ☐ No / (NA)
- ☒ Yes / ☐ No
- ☒ Yes / ☐ No
- Yes / ☒ No (NA)
- ☒ Yes / ☐ No
- ☒ Yes / ☐ No

LIMS #	Sample Type/ID	Temp °C	pH	Residual Chlorine (mg/L) Initials	Sodium-thio-sulfate Added YES/NO	Sample Custodian Signature
9854493-A	BMOUT HP A	3.1	7.44	0 PBL	Indicate Total <u>0</u> ml of 5% Sodium-thio-sulfate added. Initial <u>PBL</u> . Final Residual Cl ₂ reading = <u>N/A</u> mg/l Initial <u>PBL</u>	<i>[Signature]</i>
9854493-B	BMOUT HP B	2.0	7.44	Total Ammonia (mg-L)ALD Results		
9854493-C	BMOUT HP C	1.5	7.44			
9854493-D	BMOUT HP D	1.5	7.39			
9854493-E	BMOUT HP E	3.7	7.35	0.392		

Note: Set aside one cubitainer for metals and chemical analyses

Sample Release for Disposal

Sample released for disposal following analysis on (Date) 7/17/25 by *[Signature]*

Samples Discarded by *[Signature]* Date/Time 7/17/25 10:00

\\hawk\M&R\120_EM&R_Division\126_Aquatic_Ecology\126_Biologists\WET Testing\2025\Hanover Park\ALD COCs

Metropolitan Water Reclamation District of Greater Chicago
Custody Transfer Record for Environmental Monitoring and Research Division Samples
 (STFORMSR)

Year: 2025

Collection Date: 7/15/2025
Collected By: Nick Kollias
Preparation Date: 7/15/2025

From: Nick Kollias
Project Number/Support Request#: 4652-126-1, SR 06-25
Sample Type (grab/composite): Composite

Prepared By: Nick Kollias

COC Prepared By: Nick Kollias

[illegible]

Chilling process of samples started immediately after collection **Y/N**

Relinquished By	Date	Time	Received By	Date	Time
<i>Paula Burt</i>	07/15/25	1037	<i>OK</i>	7/15/25	1030

The relinquisher has read and fully understands the M&R Departments-Environmental Monitoring and Research Division's "Ethical and Legal Responsibilities - Version 1, dated March 13, 2019"

Additional Comments

RECEIVED

JUL 15 2025

TEMP 6U
23007339

\\hawk\M&R\120_EM&R_Division\126_Aquatic_Ecology\126_Biologists\WET Testing\2025\Hanover Park\ALD COCs

Metropolitan Water Reclamation District of Greater Chicago
Custody Transfer Record for Environmental Monitoring and Research Division Samples
(STFORMSR)

To: EAL

Year: 2025

Collection Date: 7/15/2025
Collected By: Nick Kollias
Preparation Date: 7/15/2025

From: Nick Kollias
Project Number/Support Request#: 4652-126-1, SR 06-25
Sample Type (grab/composite): Composite

Prepared By: Nick Kollias

COC Prepared By: Nick Kollias

Collection Information			For Lab Use Only													
Collection Time	Sample Point	LIMS ID	Alkalinity	Chloride								Temperature °C	Proper Container	Proper Label	Adequate Volume	Comments
0938	BMOUT_HP	9854493	X	X												
ALD Specified Holding Time (in Days)																

Chilling process of samples started immediately after collection: ☒ Y / ☐ N

Relinquished By	Date	Time	Received By	Date	Time
<i>Pamela Brunk-R</i>	07/15/25	1008	cooler D	7/15/25	1008

The relinquisher has read and fully understands the M&R Departments-Environmental Monitoring and Research Division's "Ethical and Legal Responsibilities - Version 1, dated March 13, 2019"

Additional Comments:

**TABLE 8: WATER QUALITY RESULTS OF A HANOVER PARK WATER RECLAMATION PLANT FINAL EFFLUENT COMPOSITE
SAMPLE COLLECTED JULY 14 - JULY 15, 2025, USED FOR WHOLE EFFLUENT TOXICITY TESTING**

Sampling point	Analysis	Units	Result
BMOUTH	Ag	mg/L	<0.00400
BMOUTH	As	mg/L	<0.00200
BMOUTH	Ba	mg/L	0.03384
BMOUTH	Be	mg/L	<0.00200
BMOUTH	Cd	mg/L	<0.00200
BMOUTH	Co	mg/L	<0.00200
BMOUTH	Cr	mg/L	<0.00400
BMOUTH	Cu	mg/L	0.00617
BMOUTH	Fe	mg/L	0.04456
BMOUTH	Mn	mg/L	0.01049
BMOUTH	Mo	mg/L	0.00339
BMOUTH	Ni	mg/L	0.00204
BMOUTH	Pb	mg/L	<0.00200
BMOUTH	Sb	mg/L	<0.00200
BMOUTH	Se	mg/L	<0.00400
BMOUTH	Zn	mg/L	0.02761
BMOUTH	NH3_N	mg/L	0.392
BMOUTH	Al	mg/L	<1.00
BMOUTH	Ca	mg/L	64.5
BMOUTH	Hardness	mg/L	262
BMOUTH	Mg	mg/L	24.5
BMOUTH	CN	mg/L	0.005
BMOUTH	ALKALINITY	mg/L	163.3
BMOUTH	Cl	mg/L	128.846
BMOUTH	Final Hg	ug/L	<0.500
BMOUTH	1,1,1-Trichloroethane	ug/L	<5.00
BMOUTH	1,1,2,2-Tetrachloroethane	ug/L	<5.00
BMOUTH	1,1,2-Trichloroethane	ug/L	<5.00
BMOUTH	1,1-Dichloroethane	ug/L	<5.00
BMOUTH	1,1-Dichloroethylene	ug/L	<5.00
BMOUTH	1,2,4-Trichlorobenzene	ug/L	<5.00
BMOUTH	1,2-Dichlorobenzene	ug/L	<5.00
BMOUTH	1,2-Dichloroethane	ug/L	<5.00
BMOUTH	1,2-Dichloropropane	ug/L	<5.00
BMOUTH	1,2-Diphenylhydrazine	ug/L	<5.00
BMOUTH	1,3-Dichlorobenzene	ug/L	<5.00
BMOUTH	1,3-Dichloropropylene	ug/L	<5.00
BMOUTH	1,4-Dichlorobenzene	ug/L	<5.00
BMOUTH	2,4,6-Trichlorophenol	ug/L	<10.0
BMOUTH	2,4-Dichlorophenol	ug/L	<5.00
BMOUTH	2,4-Dimethylphenol	ug/L	<10.0
BMOUTH	2,4-Dinitrophenol	ug/L	<40.0
BMOUTH	2,4-Dinitrotoluene	ug/L	<10.0
BMOUTH	2,6-Dinitrotoluene	ug/L	<5.00
BMOUTH	2-Chloroethyl vinyl ether	ug/L	<5.00

**TABLE 8: WATER QUALITY RESULTS OF A HANOVER PARK WATER RECLAMATION PLANT FINAL EFFLUENT COMPOSITE
SAMPLE COLLECTED JULY 14 - JULY 15, 2025, USED FOR WHOLE EFFLUENT TOXICITY TESTING**

Sampling point	Analysis	Units	Result
BMOUTH	2-Chloronaphthalene	ug/L	<5.00
BMOUTH	2-Chlorophenol	ug/L	<10.0
BMOUTH	2-Nitrophenol	ug/L	<10.0
BMOUTH	3,3'-Dichlorobenzidine	ug/L	<15.0
BMOUTH	3,4-Benzofluoranthene	ug/L	<10.0
BMOUTH	4,4'-DDD	ug/L	<0.05
BMOUTH	4,4'-DDE	ug/L	<0.13
BMOUTH	4,4'-DDT	ug/L	<0.05
BMOUTH	4,6-Dinitro-o-cresol	ug/L	<25.0
BMOUTH	4-Bromophenyl phenyl ether	ug/L	<5.00
BMOUTH	4-Chlorophenyl phenyl ether	ug/L	<5.00
BMOUTH	4-Nitrophenol	ug/L	<20.0
BMOUTH	Acenaphthene	ug/L	<5.00
BMOUTH	Acenaphthylene	ug/L	<5.00
BMOUTH	Acrolein	ug/L	<50.0
BMOUTH	Acrylonitrile	ug/L	<10.0
BMOUTH	Aldrin	ug/L	<0.05
BMOUTH	Anthracene	ug/L	<5.00
BMOUTH	Benzene	ug/L	<2.00
BMOUTH	Benzo(a)anthracene	ug/L	<5.00
BMOUTH	Benzo(a)pyrene	ug/L	<10.0
BMOUTH	Benzo(g,h,i)perylene	ug/L	<10.0
BMOUTH	Benzo(k)fluoranthene	ug/L	<5.00
BMOUTH	Bis(2-chloro-iso-propyl)ether	ug/L	<10.0
BMOUTH	Bis(2-chloroethoxy)methane	ug/L	<10.0
BMOUTH	Bis(2-chloroethyl)ether	ug/L	<10.0
BMOUTH	Bis(2-ethylhexyl)phthalate	ug/L	<18.0
BMOUTH	Bromoform	ug/L	<5.00
BMOUTH	Butyl benzyl phthalate	ug/L	<10.0
BMOUTH	Carbon tetrachloride	ug/L	<5.00
BMOUTH	Chlorobenzene	ug/L	<5.00
BMOUTH	Chlorodibromomethane	ug/L	<2.00
BMOUTH	Chloroethane	ug/L	<5.00
BMOUTH	Chloroform	ug/L	7.44
BMOUTH	Chrysene	ug/L	<5.00
BMOUTH	Di-n-butyl phthalate	ug/L	<10.0
BMOUTH	Di-n-octyl phthalate	ug/L	<15.0
BMOUTH	Dibenzo(a,h)anthracene	ug/L	<15.0
BMOUTH	Dichlorobromomethane	ug/L	<2.00
BMOUTH	Dieldrin	ug/L	<0.05
BMOUTH	Diethyl phthalate	ug/L	<10.0
BMOUTH	Dimethyl phthalate	ug/L	<5.00
BMOUTH	Endosulfan I	ug/L	<0.05
BMOUTH	Endosulfan II	ug/L	<0.05
BMOUTH	Endosulfan sulfate	ug/L	<0.05

**TABLE 8: WATER QUALITY RESULTS OF A HANOVER PARK WATER RECLAMATION PLANT FINAL EFFLUENT COMPOSITE
SAMPLE COLLECTED JULY 14 - JULY 15, 2025, USED FOR WHOLE EFFLUENT TOXICITY TESTING**

Sampling point	Analysis	Units	Result
BMOUTH	Endrin	ug/L	<0.05
BMOUTH	Endrin aldehyde	ug/L	<0.05
BMOUTH	Ethylbenzene	ug/L	<2.00
BMOUTH	Fluoranthene	ug/L	<5.00
BMOUTH	Fluorene	ug/L	<5.00
BMOUTH	Heptachlor	ug/L	<0.07
BMOUTH	Heptachlor epoxide	ug/L	<0.05
BMOUTH	Hexachlorobenzene	ug/L	<5.00
BMOUTH	Hexachlorobutadiene	ug/L	<5.00
BMOUTH	Hexachlorocyclopentadiene	ug/L	<25.0
BMOUTH	Hexachloroethane	ug/L	<10.0
BMOUTH	Indeno(1,2,3-cd)pyrene	ug/L	<15.0
BMOUTH	Isophorone	ug/L	<10.0
BMOUTH	Methyl bromide	ug/L	<5.00
BMOUTH	Methyl chloride	ug/L	<5.00
BMOUTH	Methylene chloride	ug/L	<5.00
BMOUTH	N-Nitrosodi-n-propylamine	ug/L	<10.0
BMOUTH	N-Nitrosodimethylamine	ug/L	<5.00
BMOUTH	N-Nitrosodiphenylamine	ug/L	<5.00
BMOUTH	Naphthalene	ug/L	<5.00
BMOUTH	Nitrobenzene	ug/L	<10.0
BMOUTH	PCB-1016	ug/L	<0.80
BMOUTH	PCB-1221	ug/L	<0.80
BMOUTH	PCB-1232	ug/L	<0.80
BMOUTH	PCB-1242	ug/L	<0.80
BMOUTH	PCB-1248	ug/L	<0.80
BMOUTH	PCB-1254	ug/L	<0.80
BMOUTH	PCB-1260	ug/L	<1.16
BMOUTH	Pentachlorophenol	ug/L	<30.0
BMOUTH	Phenanthrene	ug/L	<5.00
BMOUTH	Phenol	ug/L	<5.00
BMOUTH	Pyrene	ug/L	<5.00
BMOUTH	Technical chlordane	ug/L	<0.50
BMOUTH	Tetrachloroethylene	ug/L	<5.00
BMOUTH	Toluene	ug/L	<2.00
BMOUTH	Toxaphene	ug/L	<1.00
BMOUTH	Trichloroethylene	ug/L	<5.00
BMOUTH	Trichlorofluoromethane	ug/L	<5.00
BMOUTH	Vinyl chloride	ug/L	<5.00
BMOUTH	alpha-BHC	ug/L	<0.05
BMOUTH	beta-BHC	ug/L	<0.07
BMOUTH	delta-BHC	ug/L	<0.05
BMOUTH	gamma-BHC (lindane)	ug/L	<0.05
BMOUTH	p-Chloro-m-cresol	ug/L	<5.00
BMOUTH	trans-1,2-Dichloroethylene	ug/L	<5.00