

Protecting Our Water Environment



Metropolitan Water Reclamation District of Greater Chicago

***MONITORING AND RESEARCH
DEPARTMENT***

REPORT NO. 25-30

***RESULTS OF ACUTE TOXICITY TESTING WITH Ceriodaphnia dubia
AND Pimephales promelas ON AN JULY 2025 EFFLUENT SAMPLE
FROM THE JAMES C. KIRIE 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

CECIL LUE-HING RESEARCH AND DEVELOPMENT COMPLEX
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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
James C. Kirie Water Reclamation Plant, National Pollutant Discharge
Elimination System Permit Number IL0047741

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 IL0047741, Special Condition 11. The report covers the monitoring done for samples collected in the twelfth 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. Podczewinski/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 AN JULY 2025 EFFLUENT SAMPLE FROM THE JAMES C. KIRIE
WATER RECLAMATION PLANT OF THE METROPOLITAN WATER
RECLAMATION DISTRICT OF GREATER CHICAGO**

By

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

RESULTS OF ACUTE TOXICITY TESTS

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

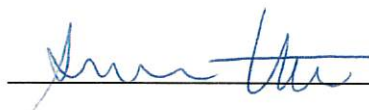
Testing period: July 23-27, 2025
Sample collection dates: July 21-22, 2025
Report date: August 6, 2025

Conducted For:
KIRIE WRP
701 Oakton Street
Des Plains, IL 60018

IL0047741

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



_____, Aquatic Biologist

August 6, 2025

Mr. Nicholas Kollias
Kirie WRP
701 Oakton Street
Des Plains, IL 60018

Dear Mr. Kollias:

Enclosed is a copy of EnviroScience's report for the following whole effluent toxicity (WET) tests that were initiated on July 23, 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 Kirie, 07/2025
sample collection period 07/21-22/25

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



EnviroScience

5070 Stow Road
Stow, OH 44224

BIOMONITORING REPORT FORM FOR NPDES PERMIT REQUIREMENTS

Table 1. General Information

1. Facility: Kirie WRP
2. Address: 701 Oakton Street, Des Plains, Illinois 60018
3. NPDES Permit No.: IL0047741
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: Higgins Creek
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 informationTable 2
 - Test dates and times.....Table 3
 - Initial chemistryTable 4
 - Test conditions.....Table 5
 - Test results Plant EffluentTable 6
 - Additional InformationTable 7
 - Attachments
 - Chain-of-Custody, bench sheets/data analysis
 - SRT control charts


 Signature of preparer

Alexandria M. Tite
 Name (typed or printed)

08/06/25
 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	07/21/25-0600	07/22/25-0600	

Table 3. Testing periods.

<i>Ceriodaphnia dubia</i> (water flea)		<i>Pimephales promelas</i> (fathead minnow)	
Start Date: MM/DD/YY	07/23/25	Start Date: MM/DD/YY	07/23/25
Start Time:	1550 hrs	Start Time:	1535 hrs
End Date: MM/DD/YY	07/25/25	End Date: MM/DD/YY	07/27/25
End Time:	1450 hrs	End Time:	1530 hrs

Notes: Sample receipt: 07/23/25-1005; 6.0 °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	07/21-22/25	8.6	6.8	911	150	220	<0.02	0.33

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:	07/23/25-1550 to 07/25/25-1450	07/23/25-1535 to 07/27/25-1530
2. Test type and duration:	static, non-renewal, 48 hours	static, non-renewal, 96-hours
3. Age and source of organisms:	<24 hours, EnviroScience 07/22/25-1600	3 days, ES 07/20/25-1305
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, LC₅₀, EC₅₀, and 95% confidence intervals for acute toxicity tests using *Ceriodaphnia dubia* and *Pimephales promelas* using effluent collected from **Outfall 001**.

Concentration	<i>C. dubia</i> (water flea) <u>07/23/25 to 07/25/25</u>		<i>P. promelas</i> (fathead minnow) <u>07/23/25 to 07/27/25</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	5	10	10	10
DMW, lab water	0	0	0	0	0	0
6.25% effluent	0	0	5	5	5	5
12.5% effluent	0	0	10	10	10	10
25% effluent	0	0	5	10	20	20
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
Excellence In Any Environment

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

Client: Kirie James C. Kirie Water Reclamation Plant
Address: 6001 West Pershing Road 701 W. Oakton St.
Cicero, IL 60804 Des Plaines, IL 60018
Contact: Nicholas Kollias
Phone: 708-588-4074
Permit #: IL0047741

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		End		Station No.	Sample Site	Sample Type		Number of Subcontainers	Chemistry				Temp. °C
Date	Time	Date	Time			Comp	Grab		TRC	Cond	D.O.	pH	
7/21/25	0600	7/22/25	0600	001	KIRIE WRP Final Effluent	✓		1	0	921	8.50	7.21	5.9

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-Lave	Effluent	Collected By:	
	Upstream	Collectors Signature:	Paula Brinkman-Lave	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
MWRDCL	Signature	07/22/25	1005	Date Shipped	Client
				Time Shipped	Sample ID's
				Method Shipped	Cond. Of Container
				ES Vehicle	Temp. °C

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

Client ^{James C.} KIRI-C water reclamation plant

ES Sample ID KIRI 072325 EFF

Cooler Received by: DA

Date Cooler Received and Opened 072325

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 ☐
5. Sample Temperature upon receipt 6.0 °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: _____



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: KIRI

No.: 1L0047741

Start Date: 072325 Time: 1550

End Date: 072525 Time: 1450

Organism: C. dubia

Source: BB071325 A

Hatch/Age: 072225 1600 / 424hrs

Diluent: MHR

Sample #: KIRI 072325 EFF

test levels		Biological Parameters			Chemistry and Physical Parameters											
		n	Dead / Affected		Temperature (Celsius)			Dissolved Oxygen (mg/L)			pH (s.u.)			Conductivity (µmhos/cm)		
			Rep	24 hr	48 hr	0	24	48	0	24	48	0	24	48	0	24
MHR	A	5	0 / 0	0 / 0	24.0	24.0	25.0	8.6			7.0		7.2	287		338
	B	5	0 / 0	0 / 0												
	C	5	0 / 0	0 / 0												
	D	5	0 / 0	0 / 0												
DMW	A	5	0 / 0	0 / 0	24.0	24.0	24.9	8.6			7.1		7.3	322		368
	B	5	0 / 0	0 / 0												
	C	5	0 / 0	0 / 0												
	D	5	0 / 0	0 / 0												
6.25%	A	5	0 / 0	0 / 0	24.0	24.2	25.0	8.4			7.4		7.4	339		379
	B	5	0 / 0	0 / 0												
	C	5	0 / 0	0 / 0												
	D	5	0 / 0	0 / 0												
12.5%	A	5	0 / 0	0 / 0	24.0	24.2	25.2	8.2			7.3		7.4	371		426
	B	5	0 / 0	0 / 0												
	C	5	0 / 0	0 / 0												
	D	5	0 / 0	0 / 0												
25%	A	5	0 / 0	0 / 0	24.0	24.0	25.2	8.2		8.5	7.3		7.4	444		473
	B	5	0 / 0	0 / 0												
	C	5	0 / 0	0 / 0												
	D	5	0 / 0	0 / 0												
50%	A	5	0 / 0	0 / 0	24.0	24.0	25.0	8.3		8.4	7.2		7.5	621		638
	B	5	0 / 0	0 / 0												
	C	5	0 / 0	0 / 0												
	D	5	0 / 0	0 / 0												
100%	A	5	0 / 0	0 / 0	24.0	24.1	24.6	8.6		8.4	7.3		7.7	1001		989
	B	5	0 / 0	0 / 0												
	C	5	0 / 0	0 / 0												
	D	5	0 / 0	0 / 0												
Time	1550		1430	1450	1550	1430	1450	1110		1545	1125		1545	1105		1545
Tech	DA		ms	TM	DA	ms	TM	TM		DA	TM		DA	TM		DA
					11	10	1	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

MS

CETIS Analytical Report

Report Date: 05 Aug-25 12:32 (p 1 of 2)
Test Code/ID: 65B8E775 / 17-0661-6693

Ceriodaphnia 48-h Acute Survival Test

EnviroScience

Analysis ID: 15-7015-6069	Endpoint: 48h Survival Rate	CETIS Version: CETIS v2.1.6
Analyzed: 05 Aug-25 12:32	Analysis: Linear Interpolation (ICPIN)	Status Level: 1
Edit Date: 05 Aug-25 0:00	MD5 Hash: 68E117461239090AA7E1427F0F536296	Editor ID: 006-866-707-0
Batch ID: 12-1573-3247	Test Type: Survival (48h)	Analyst:
Start Date: 23 Jul-25 15:50	Protocol: EPA/821/R-02-012 (2002)	Diluent: Upstream of Discharge
Ending Date: 25 Jul-25 14:50	Species: Ceriodaphnia dubia	Brine:
Test Length: 47h	Taxon: Branchiopoda	Source: In-House Culture Age:
Sample ID: 09-3514-3285	Code: 37BD2775	Project:
Sample Date: 22 Jul-25 06:00	Material: POTW Effluent	Source: Discharge Monitoring Report
Receipt Date: 23 Jul-25 10:05	CAS (PC):	Station: 001
Sample Age: 34h	Client: Kirie	

Linear Interpolation Options

X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Linear	Linear	1286403	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

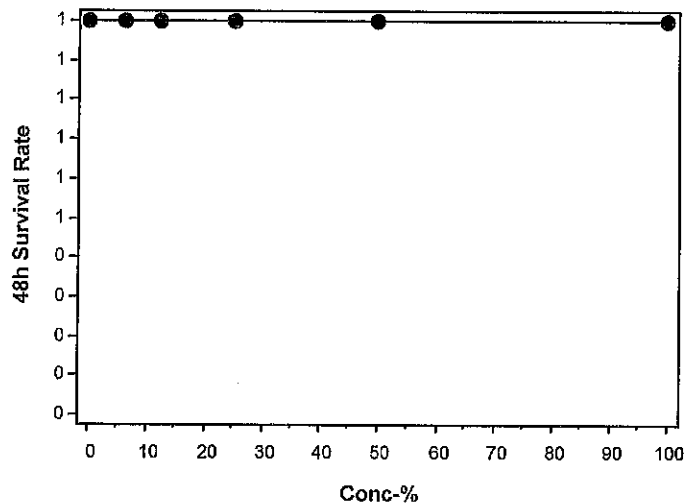
Report Date: 05 Aug-25 12:32 (p 2 of 2)
Test Code/ID: 65B8E775 / 17-0661-6693

Ceriodaphnia 48-h Acute Survival Test

EnviroScience

Analysis ID: 15-7015-6069	Endpoint: 48h Survival Rate	CETIS Version: CETIS v2.1.6
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Edit Date: 05 Aug-25 0:00	MD5 Hash: 68E117461239090AA7E1427F0F536296	Editor ID: 006-866-707-0

Graphics





ACUTE, 96 HOUR, NON- RENEWAL BIOASSAY:

Project: KIR1No.: 1L0047741Start Date: 072325 Time: 1535End Date: 072425 Time: 1530Organism: Pimephales promelas (FHM)Source: ES culturesHatch/Age: 072025/305/3.8 daysDiluent: MHRSample #: KIR1 072325 EHF

Biological Parameters: # Mortalities / # Affected

test levels →			MHR	DMW	6.25%	12.5%	25%	50%	100%
0 hours set-up	Tech	<u>WB</u>	n	A	10	10	10	10	10
	Time	<u>1535</u>	n	B	10	10	10	10	10
24 hours	Tech	<u>WB</u>							
	Time	<u>1440</u>	A		<u>1/1</u>	<u>0/0</u>	<u>0/0</u>	<u>1/1</u>	<u>0/0</u>
48 hours	Tech	<u>MS</u>	B		<u>0/0</u>	<u>0/0</u>	<u>1/1</u>	<u>0/0</u>	<u>0/0</u>
	Time	<u>1445</u>	A		<u>1/1</u>	<u>0/0</u>	<u>0/0</u>	<u>2/2</u>	<u>0/0</u>
72 hours	Tech	<u>KM</u>	B		<u>1/1</u>	<u>0/0</u>	<u>1/1</u>	<u>0/0</u>	<u>0/0</u>
	Time	<u>1335</u>	A		<u>1/1</u>	<u>0/0</u>	<u>0/0</u>	<u>3/3</u>	<u>0/0</u>
96 hours	Tech	<u>SV</u>	B		<u>1/1</u>	<u>0/0</u>	<u>1/1</u>	<u>0/0</u>	<u>0/0</u>
	Time	<u>1530</u>	A		<u>1/1</u>	<u>0/0</u>	<u>0/0</u>	<u>3/3</u>	<u>0/0</u>
			B		<u>1/1</u>	<u>0/0</u>	<u>1/1</u>	<u>0/0</u>	<u>0/0</u>

Chemical and Physical Data

	Tech	Time	Instr.#	MHR	DMW	6.25%	12.5%	25%	50%	100%
Temp. °C	0 hr	<u>WB</u>	<u>1535</u>	<u>1</u>	<u>24.0</u>	<u>24.0</u>	<u>24.0</u>	<u>24.0</u>	<u>24.0</u>	<u>24.0</u>
	24 hr	<u>WB</u>	<u>1440</u>	<u>10</u>	<u>24.0</u>	<u>24.0</u>	<u>24.0</u>	<u>24.0</u>	<u>24.0</u>	<u>24.0</u>
	48 hr	<u>MS</u>	<u>1445</u>	<u>10</u>	<u>24.0</u>	<u>24.1</u>	<u>24.3</u>	<u>24.3</u>	<u>24.0</u>	<u>24.3</u>
	72 hr	<u>KM</u>	<u>1335</u>	<u>6</u>	<u>24.2</u>	<u>24.1</u>	<u>24.2</u>	<u>24.1</u>	<u>24.1</u>	<u>24.0</u>
	96 hr	<u>SV</u>	<u>1530</u>	<u>10</u>	<u>24.0</u>	<u>24.0</u>	<u>24.0</u>	<u>24.0</u>	<u>24.0</u>	<u>24.0</u>
cond. µmhos/cm	0 hr	<u>TM</u>	<u>1105</u>	<u>A212</u>	<u>287</u>	<u>322</u>	<u>339</u>	<u>371</u>	<u>444</u>	<u>1001</u>
	24 hr	<u>DA</u>	<u>1135</u>	<u>A212</u>	<u>304</u>	<u>340</u>	<u>370</u>	<u>349³⁹⁶</u>	<u>479</u>	<u>989</u>
	48 hr	<u>DA</u>	<u>1020</u>	<u>A212</u>	<u>302</u>	<u>324</u>	<u>352</u>	<u>391</u>	<u>453</u>	<u>631</u>
	72 hr	<u>AL</u>	<u>1000</u>	<u>A212</u>	<u>341</u>	<u>330</u>	<u>376</u>	<u>384</u>	<u>482</u>	<u>643</u>
	96 hr	<u>AL</u>	<u>1100</u>	<u>A212</u>	<u>320</u>	<u>330</u>	<u>377</u>	<u>381</u>	<u>473</u>	<u>627</u>
DO mg/L	0 hr	<u>TM</u>	<u>1110</u>	<u>OX 4100L</u>	<u>8.6</u>	<u>8.6</u>	<u>8.4</u>	<u>8.2</u>	<u>8.2</u>	<u>8.3</u>
	24 hr	<u>DA</u>	<u>1145</u>	<u>OX 4100L</u>	<u>8.6</u>	<u>8.6</u>	<u>8.6</u>	<u>8.4</u>	<u>8.6</u>	<u>8.6</u>
	48 hr	<u>DA</u>	<u>1025</u>	<u>OX 4100L</u>	<u>8.6</u>	<u>8.6</u>	<u>8.6</u>	<u>8.6</u>	<u>8.5</u>	<u>8.6</u>
	72 hr	<u>AL</u>	<u>1000</u>	<u>OX 4100L</u>	<u>8.6</u>	<u>8.6</u>	<u>8.6</u>	<u>8.6</u>	<u>8.6</u>	<u>8.6</u>
	96 hr	<u>AL</u>	<u>1100</u>	<u>OX 4100L</u>	<u>8.6</u>	<u>8.6</u>	<u>8.6</u>	<u>8.6</u>	<u>8.6</u>	<u>8.6</u>
pH s.u.	0 hr	<u>TM</u>	<u>1125</u>	<u>A211A</u>	<u>7.0</u>	<u>7.1</u>	<u>7.4</u>	<u>7.3</u>	<u>7.3</u>	<u>7.2</u>
	24 hr	<u>DA</u>	<u>1145</u>	<u>A211A</u>	<u>7.3</u>	<u>7.3</u>	<u>7.3</u>	<u>7.3</u>	<u>7.3</u>	<u>7.5</u>
	48 hr	<u>DA</u>	<u>1040</u>	<u>A211B</u>	<u>7.0</u>	<u>7.3</u>	<u>7.2</u>	<u>7.1</u>	<u>7.3</u>	<u>7.4</u>
	72 hr	<u>AL</u>	<u>1000</u>	<u>A211A</u>	<u>7.2</u>	<u>7.4</u>	<u>7.4</u>	<u>7.4</u>	<u>7.4</u>	<u>7.5</u>
	96 hr	<u>AL</u>	<u>1100</u>	<u>A211A</u>	<u>7.6</u>	<u>7.5</u>	<u>7.5</u>	<u>7.5</u>	<u>7.4</u>	<u>7.5</u>

USEPA method 2000.0

Form 8040-6 rev. 01/09/2025

JMS

CETIS Analytical Report

Report Date: 05 Aug-25 12:48 (p 1 of 2)
Test Code/ID: 5ACEE58 / 00-9521-9288

Fathead Minnow 96-h Acute Survival Test

EnviroScience

Analysis ID: 02-1395-8825 Endpoint: 96h Survival Rate
Analyzed: 05 Aug-25 12:48 Analysis: Linear Interpolation (ICPIN)
Edit Date: 05 Aug-25 0:00 MD5 Hash: 9482CA29D506362DF5E9B0B7A7792028
CETIS Version: CETIS v2.1.6
Status Level: 1
Editor ID: 006-866-707-0

Batch ID: 08-0771-9685 Test Type: Survival (96h)
Start Date: 23 Jul-25 15:35 Protocol: EPA/821/R-02-012 (2002)
Ending Date: 24 Jul-25 15:30 Species: Pimephales promelas
Test Length: 24h Taxon: Actinopterygii
Analyst:
Diluent: Upstream of Discharge
Brine:
Source: In-House Culture Age:

Sample ID: 12-2688-6351 Code: 4920CCCCF
Sample Date: 22 Jul-25 06:00 Material: POTW Effluent
Receipt Date: 23 Jul-25 10:05 CAS (PC):
Sample Age: 34h Client: Kirie
Project:
Source: Discharge Monitoring Report
Station: 001

Linear Interpolation Options

X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Linear	Linear	1275091	1000	Yes	Two-Point Interpolation

Test Acceptability Criteria

Attribute	Test Stat	TAC Limits		Overlap	Decision
		Lower	Upper		
Control Resp	0.9	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	0.9000	0.9000	0.9000	0.9000	0.00%	0.00%	18/20	0.9250	0.00%
6.25		2	0.9500	0.9500	0.9000	1.0000	7.44%	-5.56%	19/20	0.9250	0.00%
12.5		2	0.9000	0.9000	0.9000	0.9000	0.00%	0.00%	18/20	0.9250	0.00%
25		2	0.8000	0.8000	0.7000	0.9000	17.68%	11.11%	16/20	0.9250	0.00%
50		2	1.0000	1.0000	1.0000	1.0000	0.00%	-11.11%	20/20	0.9250	0.00%
100		2	1.0000	1.0000	1.0000	1.0000	0.00%	-11.11%	20/20	0.9250	0.00%

96h Survival Rate Detail

Conc-%	Code	Rep 1	Rep 2
0	D	0.9000	0.9000
6.25		1.0000	0.9000
12.5		0.9000	0.9000
25		0.7000	0.9000
50		1.0000	1.0000
100		1.0000	1.0000

96h Survival Rate Binomials

Conc-%	Code	Rep 1	Rep 2
0	D	9/10	9/10
6.25		10/10	9/10
12.5		9/10	9/10
25		7/10	9/10
50		10/10	10/10
100		10/10	10/10

CETIS Analytical Report

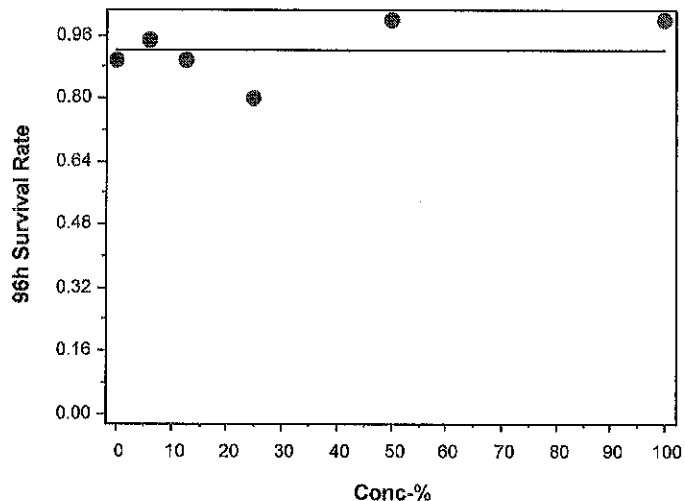
Report Date: 05 Aug-25 12:48 (p 2 of 2)
Test Code/ID: 5ACEE58 / 00-9521-9288

Fathead Minnow 96-h Acute Survival Test

EnviroScience

Analysis ID: 02-1395-8825	Endpoint: 96h Survival Rate	CETIS Version: CETIS v2.1.6
Analyzed: 05 Aug-25 12:48	Analysis: Linear Interpolation (ICPIN)	Status Level: 1
Edit Date: 05 Aug-25 0:00	MD5 Hash: 9482CA29D506362DF5E9B0B7A7792028	Editor ID: 006-866-707-0

Graphics





Acute, Static Bioassay:

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

Client: KIRI

Permit No.: 1L0047741

Date: 072305

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>072225A</u>	<u>8.6</u>	<u>7.4</u> ☐ Star A211 A ☒ Star A211 B	<u>283</u>	<u><0.02</u>	<u>NA</u>	<u>(35) 70</u>	<u>(2.5) 100</u>
<u>KIRI 072305 EFF</u>	<u>8.6</u>	<u>6.8</u> ☐ Star A211 A ☒ Star A211 B	<u>911</u>	<u><0.02</u>		<u>(75) 150</u>	<u>(55) 220</u>
		☐ Star A211 A ☐ Star A211 B					
		☐ 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: 0.33

SAMPLE ID	Composited ☐ Yes ☐ No	60µm Filtered ☐ Yes ☒ No	% DILUTION	INITIATION		RENEWAL ☐ No	
				Effluent (mL)	Final (mL)	Effluent (mL)	Final (mL)
<u>KIRI 072305 EFF</u>	☐ Yes ☐ No	☐ Yes ☒ No					
	☐ Yes ☐ No	☐ Yes ☐ No	<u>6.25%</u>	<u>62.5</u>	<u>1000</u>		
	☐ Yes ☐ No	☐ Yes ☐ No	<u>12.5%</u>	<u>125</u>	<u>↓</u>		
Comments:			<u>25%</u>	<u>250</u>	<u>↓</u>		
			<u>50%</u>	<u>500</u>	<u>↓</u>		
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:	<u>072225A</u>			

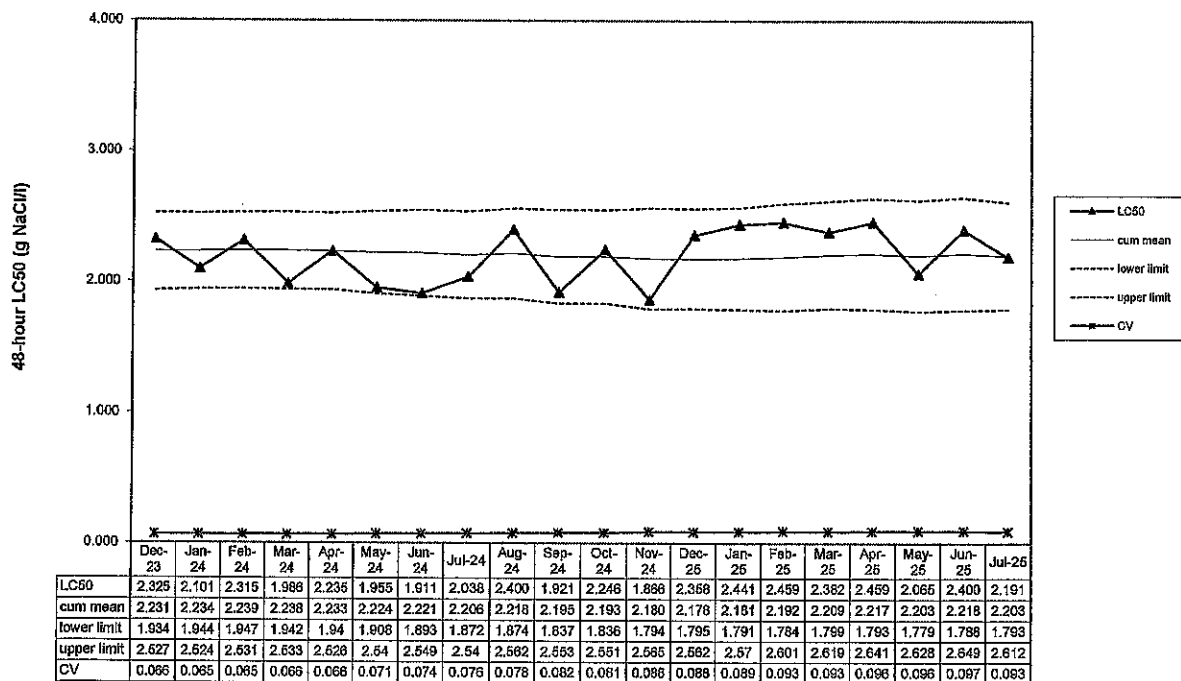
TRC_i = total residual chlorine, initial value

TRC_A = total residual chlorine, after dechlorination

JMS

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.

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

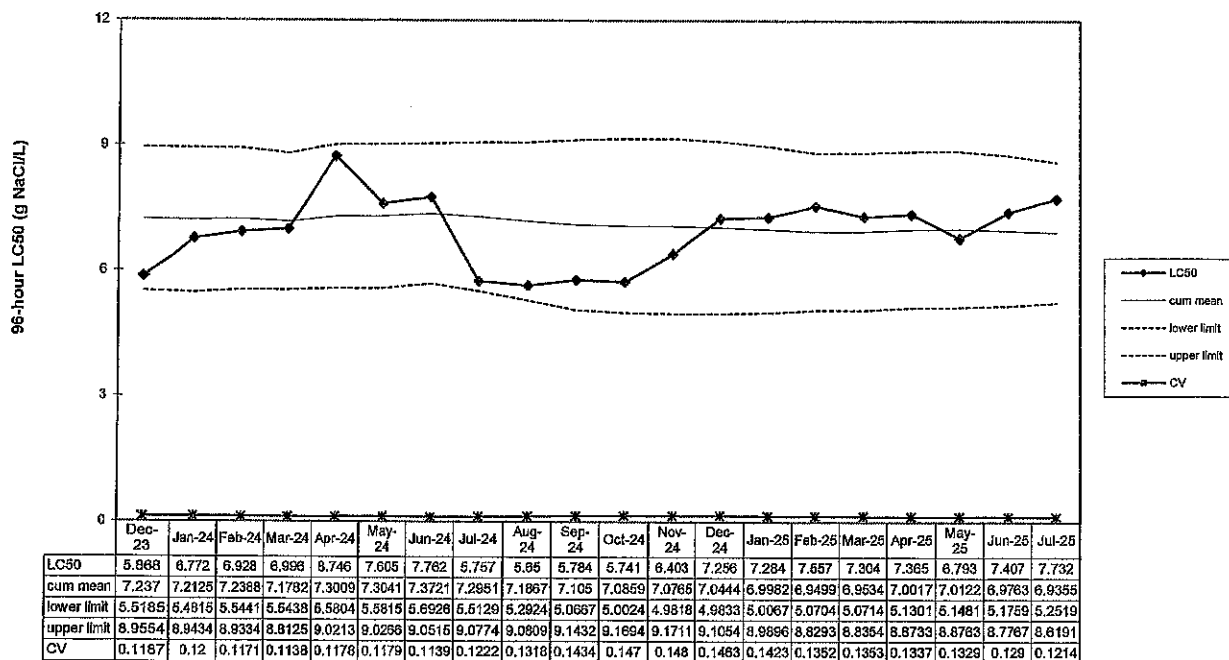


Test Date (MM.YY)

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					
7/21/2025	0600	JB	Grab	1 KWRP Final Eff	21	YES/NO	Joseph Brown
7/21/2025	1200	BG	Grab	KWRP Final Eff	22	YES/NO	Joseph Brown
7/21/2025	1800	SK	Grab	KWRP Final Eff	22°C	YES/NO 4°C	BERT GISEMAN
7/22/2025	0000	CB	Grab	KWRP Final Eff.	21.5°C	YES/NO	S. DEBEAUBIEN
7/22/2025	0600	JB	Grab	12 WRP Final Eff	21.5°	YES/NO	Joseph Brown

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 Dan Erickson

Signature: [Signature]

Date/Time: 7/22/25 0735

SAMPLES TRANSPORTED TO WET LAB. BY Name Cameron McCoy

Signature: [Signature]

Date/Time: 7/22/25 0735

FOR WET LABORATORY USE ONLY:

Sample Received by: Name Paula Brinkman

Signature: [Signature]

Date/Time: 7/22/25 0850

1. Samples received with prescribed holding time (within 4 h of collection)? (Not Applicable, if chronic test)
 2. Samples logged in by Paula Brinkman Date 7/22/25 Time 0850
 3. Each sample container labeled with a unique ID?
 4. Were collection times for effluent and receiving water within 1 h of each other?
 5. Did samples have sufficient volume for analysis?
 6. Samples accepted
- Special Observations _____

1. ☒ Yes / No / (NA)
2. ☒ Yes / No
3. ☒ Yes / No
4. ☒ Yes / No (NA)
5. ☒ Yes / No
6. ☒ Yes / No

LIMS #	Sample Type/ID	Temp °C	pH	Residual Chlorine (mg/L) Initials	Sodium-thio-sulfate Added YES/NO	Sample Custodian Signature
9854508-A	BMOUT KR A	1.5	7.23	0 PBL	Indicate Total ml of 5% Sodium-thio-sulfate added. Initial PBL. Final Residual Cl ₂ reading = NA mg/l Initial PBL	<u>[Signature]</u>
9854508-B	BMOUT KR B	1.6	7.39	Total Ammonia (mg-L) ALD Results		
9854508-C	BMOUT KR C	2.7	7.47			
9854508-D	BMOUT KR D	2.1	7.52			
9854508-E	BMOUT KR E	4.0	7.49	< 0.3		

Note: Set aside one cubitainer for metals and chemical analyses

Sample Release for Disposal

Sample released for disposal following analysis on (Date) 7/23/25 by [Signature]

Samples Discarded by [Signature]

Date/Time 7/23/25 11:00

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

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

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

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

**TABLE 8: WATER QUALITY RESULTS OF A JAMES C.KIRIE WATER RECLAMATION PLANT FINAL EFFLUENT COMPOSITE
SAMPLE COLLECTED JULY 21 - JULY 22, 2025, USED FOR WHOLE EFFLUENT TOXICITY TESTING**

Sampling point	Analysis	Units	Result
BMOUTKR	Ag	mg/L	<0.00400
BMOUTKR	As	mg/L	<0.00200
BMOUTKR	Ba	mg/L	0.02248
BMOUTKR	Be	mg/L	<0.00200
BMOUTKR	Cd	mg/L	<0.00200
BMOUTKR	Co	mg/L	<0.00200
BMOUTKR	Cr	mg/L	<0.00400
BMOUTKR	Cu	mg/L	0.00264
BMOUTKR	Fe	mg/L	0.07629
BMOUTKR	Mn	mg/L	0.0185
BMOUTKR	Mo	mg/L	0.00395
BMOUTKR	Ni	mg/L	0.00946
BMOUTKR	Pb	mg/L	<0.00200
BMOUTKR	Sb	mg/L	<0.00200
BMOUTKR	Se	mg/L	<0.00400
BMOUTKR	Zn	mg/L	0.02378
BMOUTKR	NH3_N	mg/L	<0.300
BMOUTKR	Al	mg/L	<1.00
BMOUTKR	Ca	mg/L	57.21
BMOUTKR	Hardness	mg/L	228
BMOUTKR	Mg	mg/L	20.68
BMOUTKR	CN	mg/L	<0.005
BMOUTKR	ALKALINITY	mg/L	157.1
BMOUTKR	Cl	mg/L	133.238
BMOUTKR	Final Hg	ug/L	<0.500
BMOUTKR	1,1,1-Trichloroethane	ug/L	<5.00
BMOUTKR	1,1,2,2-Tetrachloroethane	ug/L	<5.00
BMOUTKR	1,1,2-Trichloroethane	ug/L	<5.00
BMOUTKR	1,1-Dichloroethane	ug/L	<5.00
BMOUTKR	1,1-Dichloroethylene	ug/L	<5.00
BMOUTKR	1,2,4-Trichlorobenzene	ug/L	<5.00
BMOUTKR	1,2-Dichlorobenzene	ug/L	<5.00
BMOUTKR	1,2-Dichloroethane	ug/L	<5.00
BMOUTKR	1,2-Dichloropropane	ug/L	<5.00
BMOUTKR	1,2-Diphenylhydrazine	ug/L	<5.00
BMOUTKR	1,3-Dichlorobenzene	ug/L	<5.00
BMOUTKR	1,3-Dichloropropylene	ug/L	<5.00
BMOUTKR	1,4-Dichlorobenzene	ug/L	<5.00
BMOUTKR	2,4,6-Trichlorophenol	ug/L	<10.0
BMOUTKR	2,4-Dichlorophenol	ug/L	<5.00
BMOUTKR	2,4-Dimethylphenol	ug/L	<10.0
BMOUTKR	2,4-Dinitrophenol	ug/L	<40.0
BMOUTKR	2,4-Dinitrotoluene	ug/L	<10.0
BMOUTKR	2,6-Dinitrotoluene	ug/L	<5.00
BMOUTKR	2-Chloroethyl vinyl ether	ug/L	<5.00

**TABLE 8: WATER QUALITY RESULTS OF A JAMES C. KIRIE WATER RECLAMATION PLANT FINAL EFFLUENT COMPOSITE
SAMPLE COLLECTED JULY 21 - JULY 22, 2025, USED FOR WHOLE EFFLUENT TOXICITY TESTING**

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

**TABLE 8: WATER QUALITY RESULTS OF A JAMES C.KIRIE WATER RECLAMATION PLANT FINAL EFFLUENT COMPOSITE
SAMPLE COLLECTED JULY 21 - JULY 22, 2025, USED FOR WHOLE EFFLUENT TOXICITY TESTING**

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