CH2MHILL • BWXT West Valley, LLC
West Valley Demonstration Project

Ms. Jennifer Splitt, Contracting Officer
U.S. Department of Energy
550 Main St., Room 7-010
Cincinnati, OH 45202

AC-PRES
WD:2024:0491
July 17, 2024

Attention: Jennifer M. Dundas

SUBJECT: Contract No. DE-EM0001529, Section J-3, Item 127, State Pollutant Discharge Elimination System (SPDES) Discharge Monitoring Report (DMR) for the Period June 1 through June 30, 2024, SPDES Permit No. NY-0000973, West Valley Demonstration Project (WVDP) and Storm Water Monitoring Results for January 1, 2024 through June 30, 2024

REFERENCE: 1) Letter WR:2013:0033, John Rendall to Mark Jackson, "Notification of Changes to the West Valley Demonstration Project (WVDP) Wastewater Generation Activities in Accordance with 6 NYCRR 750-2.6(c); State Pollutant Discharge Elimination System (SPDES) Permit No. NY-0000973, U.S. Department of Energy (DOE), West Valley Demonstration Project (WVDP)," dated August 13, 2013

Dear Ms. Splitt:

This letter is submitted for Contracting Officer Representative's approval to inform you that the SPDES DMR for the reporting period June 1 through June 30, 2024 including the Net Iron calculation sheet has been submitted electronically. Please note that semi-annual sampling results for outfall 001 and the Whole Effluent Toxicity (WET) sampling results for the second quarter are also included. A copy of this submittal is attached as well as a copy of the email confirmation from the New York State Department of Environmental Conservation (NYSDEC).

Also attached are the storm water monitoring results for the period of January 1 through June 30, 2024.

If you have any questions, please contact William Kean at (716) 942-4865 or Elizabeth Lowes at (716) 481-0429.

Sincerely,

JASON CASPER (Affiliate)
Digitally signed by JASON CASPER (Affiliate)
Date: 2024.07.17 07:35:02 -04'00'

Jason L. Casper
President & General Manager

JLC:WNK:mlv

Attachments:
A) SPDES DMR for June 1 through June 30, 2024 Monitoring Period, including Semi-Annual Results and Whole Effluent Toxicity
B) Storm Water Discharge Monitoring Results for January 1 through June 30, 2024 Monitoring Period
C) Whole Effluent Toxicity (WET) Testing Final Report for the May 2024 Discharge
D) CHBWV Environmental Certification
E) Email Confirmation from NYSDEC

cc: Wet@dec.ny.gov
B. C. Bower, DOE-WVDP
J. T. DesMarais, DOE-WVDP
W. T. Frederick, DOE-WVDP
A.V. Carr, CHBWV
S. A. Cherry, CHBWV
C. Chun, CHBWV
L. K. Hollfelder, CHBWV
W. N. Kean, CHBWV
E. A. Lowes, CHBWV
J. K. Mantione, CHBWV
D. M. Martinet, CHBWV
M. P. Pendl, CHBWV
J. T. Pillittere, CHBWV (Public Reading Room)
R. E. Steiner, CHBWV
K. A. Wooley, CHBWV
Letter Log (M. Varner), CHBWV
CHBWV OITS #2330380

Attachment A

SPDES DMR for June 1 through June 30, 2024 Monitoring Period, including Semi-Annual Results and Whole Effluent Toxicity Report

SYNOPSIS

State Pollutant Discharge Elimination System (SPDES) Discharge Monitoring Report (DMR) for the Period June 1 through June 30, 2024, SPDES Permit No. NY-0000973, West Valley Demonstration Project (WVDP) and Storm Water Monitoring Results for January 1 through June 30, 2024

The SPDES DMR for June 1 through June 30, 2024 Monitoring Period is provided as Attachment A. There were no discharges at outfalls 001-M, 007-M, 007-W, 116-M, Sum-N or internal outfall 01B-M during the monitoring period of June 1 through June 30, 2024. Please note that semi-annual sampling results for outfall 001-S, 001-V and the second quarter Whole Effluent Toxicity (WET) sampling results 001-W are also included within this DMR.

CHBWV is also submitting the analytical results and data for the semi-annual storm water monitoring for the monitoring period of January 1 through June 30, 2024 as Attachment B. All storm water sampling results were within applicable limits specified on page 14 of 31 of the SPDES permit for oil & grease.

Storm water samples were collected on April 2, April 11, April 24, May 15, and May 22, 2024. The on-site pH measured near the site's rain gauge on each of these dates was: 7.0 SU; 7.8 SU; 7.3 SU; 6.7 SU and 7.1 SU respectively.

Storm water sampling at outfall S04 and S34 was completed on April 2, 2024, although the number of hours between storm events of 60 hours was less than the required 72 hours. There was base flow at the outfalls upon arrival.

Storm water sampling at outfall S09 was completed on April 11, 2024, although the number of hours between storm events of 14 hours was less than the normally required 72 hours. There was flow at the outfall upon arrival.

Storm water sampling at outfalls S27 and S28 was completed on April 24, 2024, although the number of hours between storm events of 6 hours was less than the normally required 72 hours. There was flow at the outfalls upon arrival. In addition, sampling at outfall S43 for total recoverable lead at the Live Fire Range was completed on April 24, 2024 with a reported result of 0.001 mg/L with an action level of 0.006 mg/L.

Storm water sampling at outfalls S20 and S38 was completed on May 15, 2024, although the number of hours between storm events of 21 hours was less than the normally required 72 hours. There was flow at the outfalls upon arrival.

Storm water sampling at outfall S06 was completed on May 22, 2024. The outfall was at base flow conditions at the time of sampling.

SPDES DISCHARGE MONITORING REPORT – JUNE 1 THROUGH JUNE 30, 2024
NET IRON EFFLUENT CONCENTRATION CALCULATION
WEST VALLEY DEMONSTRATION PROJECT, SPDES PERMIT NO. NY-0000973

OUTFALL 001 = $M1 = \frac{(X1 + X2)\ V1}{2}$ = 0.00 mg/month

X1 = 0.000 mg/L

X2 = 0.000 mg/L

V1 = 0.000 L/month

*Note: There was no discharge at outfall 001 during this monitoring period.

OUTFALL 007 = $M7 = \frac{(X1 + X2)\ V7}{2}$ = 0.00 mg/month

X1 = 0.000 mg/L

X2 = 0.000 mg/L

V7 = 0.00 L/month

*Note: There was no discharge at outfall 007 during this monitoring period.

RAW WATER = $MRW = \frac{(X1 + X2 + X3 + X4)\ VRW}{4}$ = 0.00 mg/month

X1 = 0.000 mg/L

X2 = 0.000 mg/L

X3 = 0.000 mg/L

X4 = 0.000 mg/L

VRW = 0.00 L/month

IRON DISCHARGE CONCENTRATION = $\frac{M1 + M7 - MRW}{V1 + V7}$ = 0.00 mg/L

DMR Copy of Record

Form Approved OMB No. 2040-0004 expires on 07/31/2026

EPA may make all the information submitted through this form (including all attachments) available to the public without further notice to you. Do not use this online form to submit personal information (e.g., non-business cell phone number or non-business email address), confidential business information (CBI), or if you intend to assert a CBI claim on any of the submitted information. Pursuant to 40 CFR 2.203(a), EPA is providing you with notice that all CBI claims must be asserted at the time of submission. EPA cannot accommodate a late CBI claim to cover previously submitted information because efforts to protect the information are not administratively practicable since it may already be disclosed to the public. Although we do not foresee a need for persons to assert a claim of CBI based on the types of information requested in this form, if persons wish to assert a CBI claim we direct submitters to contact the NPDES eReporting Help Desk for further guidance. Please note that EPA may contact you after you submit this report for more information.

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Permit

Permit #:	**NY0000973**	**Permittee:**	U.S. DEPT OF ENERGY	**Facility:**	WEST VALLEY DEMONSTRATION PROJ
Major:	Yes	**Permittee Address:**	1000 INDEPENDENCE AVE SW WASHINGTON, DC 20585	**Facility Location:**	10282 ROCK SPRINGS ROAD WEST VALLEY, NY 14171-9799
Permitted Feature:	001 External Outfall	**Discharge:**	**001-M** OUTFALL 001 MONTHLY PROC WW, GW, STORM		

Report Dates & Status

Monitoring Period:	**From 06/01/24 to 06/30/24**	**DMR Due Date:**	**07/28/24**	**Status:**	**NetDMR Validated**

Considerations for Form Completion

Principal Executive Officer

First Name:	Bryan C.	**Title:**	Director, USDOE-WVDP	**Telephone:**	716-942-4368
Last Name:	Bower				

No Data Indicator (NODI)

Form NODI: --

Parameter		Monitoring Location	Season #	Param. NODI		Quantity or Loading					Quality or Concentration						# of Ex.	Frequency of Analysis	Sample Type
Code	Name					Qualifier 1	Value 1	Qualifier 2	Value 2	Units	Qualifier 1	Value 1	Qualifier 2	Value 2	Qualifier 3	Value 3	Units			
00154	Sulfate [as S]	1 - Effluent Gross	0	--	Sample															
					Permit Req.									Req Mon MO AVG		Req Mon DAILY MX	19 - mg/L		01/BA - Once Per Batch	24 - COMP24
					Value NODI									C - No Discharge		C - No Discharge				
00181	Oxygen demand, ultimate	1 - Effluent Gross	0	--	Sample															
					Permit Req.									Req Mon MO AVG	<=	22.0 DAILY MX	19 - mg/L		02/BA - Twice Per Batch	CA - CALCTD
					Value NODI									C - No Discharge		C - No Discharge				
00300	Oxygen, dissolved [DO]	1 - Effluent Gross	0	--	Sample															
					Permit Req.						>=	3.0 MINIMUM				Req Mon MAXIMUM	19 - mg/L		02/BA - Twice Per Batch	GR - GRAB
					Value NODI							C - No Discharge				C - No Discharge				
00310	BOD, 5-day, 20 deg. C	1 - Effluent Gross	0	--	Sample															
					Permit Req.									Req Mon MO AVG	<=	10.0 DAILY MX	19 - mg/L		02/BA - Twice Per Batch	24 - COMP24
					Value NODI									C - No Discharge		C - No Discharge				
00400	pH	1 - Effluent Gross	0	--	Sample															
					Permit Req.						>=	6.5 MINIMUM			<=	8.5 MAXIMUM	12 - SU		01/BA - Once Per Batch	GR - GRAB
					Value NODI							C - No Discharge				C - No Discharge				
00530	Solids, total suspended	1 - Effluent Gross	0	--	Sample															
					Permit Req.								<=	30.0 MO AVG	<=	45.0 DAILY MX	19 - mg/L		02/BA - Twice Per Batch	24 - COMP24
					Value NODI									C - No Discharge		C - No Discharge				
00545	Solids, settleable	1 - Effluent Gross	0	--	Sample															
					Permit Req.									Req Mon MO AVG	<=	0.3 DAILY MX	25 - mL/L		02/BA - Twice Per Batch	GR - GRAB
					Value NODI									C - No Discharge		C - No Discharge				
00556	Oil & Grease	1 - Effluent Gross	0	--	Sample															
					Permit Req.									Req Mon MO AVG	<=	15.0 DAILY MX	19 - mg/L		01/BA - Once Per Batch	GR - GRAB
					Value NODI									C - No Discharge		C - No Discharge				
00615	Nitrogen, nitrite total [as N]	1 - Effluent Gross	0	--	Sample															
					Permit Req.									Req Mon MO AVG	<=	0.1 DAILY MX	19 - mg/L		01/BA - Once Per Batch	24 - COMP24
					Value NODI									C - No Discharge		C - No Discharge				
00620	Nitrogen, nitrate total [as N]	1 - Effluent Gross	0	--	Sample															
					Permit Req.									Req Mon MO AVG		Req Mon DAILY MX	19 - mg/L		01/BA - Once Per Batch	24 - COMP24

					Value NODI										C - No Discharge		C - No Discharge						
00625	Nitrogen, Kjeldahl, total [as N]	1 - Effluent Gross	0	--	Sample																		
					Permit Req.										Req Mon MO AVG		Req Mon DAILY MX	19 - mg/L		02/BA - Twice Per Batch	24 - COMP24		
					Value NODI										C - No Discharge		C - No Discharge						
00746	Sulfide, dissolved, [as S]	1 - Effluent Gross	0	--	Sample																		
					Permit Req.										Req Mon MO AVG	<=	0.4 DAILY MX	19 - mg/L		01/BA - Once Per Batch	24 - COMP24		
					Value NODI										C - No Discharge		C - No Discharge						
00978	Arsenic, total recoverable	1 - Effluent Gross	0	--	Sample																		
					Permit Req.										Req Mon MO AVG	<=	0.15 DAILY MX	19 - mg/L		01/BA - Once Per Batch	24 - COMP24		
					Value NODI										C - No Discharge		C - No Discharge						
00979	Cobalt, total recoverable	1 - Effluent Gross	0	--	Sample																		
					Permit Req.										Req Mon MO AVG	<=	0.005 DAILY MX	19 - mg/L		01/BA - Once Per Batch	GR - GRAB		
					Value NODI										C - No Discharge		C - No Discharge						
00981	Selenium, total recoverable	1 - Effluent Gross	0	--	Sample																		
					Permit Req.										Req Mon MO AVG	<=	0.004 DAILY MX	19 - mg/L		01/BA - Once Per Batch	GR - GRAB		
					Value NODI										C - No Discharge		C - No Discharge						
01045	Iron, total [as Fe]	1 - Effluent Gross	0	--	Sample																		
					Permit Req.										Req Mon MO AVG		Req Mon DAILY MX	19 - mg/L		02/BA - Twice Per Batch	24 - COMP24		
					Value NODI										C - No Discharge		C - No Discharge						
01105	Aluminum, total [as Al]	1 - Effluent Gross	0	--	Sample																		
					Permit Req.									<=	2.0 MO AVG	<=	4.0 DAILY MX	19 - mg/L		01/BA - Once Per Batch	24 - COMP24		
					Value NODI										C - No Discharge		C - No Discharge						
01128	Vanadium, total recoverable	1 - Effluent Gross	0	--	Sample																		
					Permit Req.										Req Mon MO AVG	<=	0.014 DAILY MX	19 - mg/L		01/BA - Once Per Batch	GR - GRAB		
					Value NODI										C - No Discharge		C - No Discharge						
34726	Nitrogen, ammonia, total [as NH3]	1 - Effluent Gross	0	--	Sample																		
					Permit Req.									<=	1.5 MO AVG	<=	2.1 DAILY MX	19 - mg/L		02/BA - Twice Per Batch	24 - COMP24		
					Value NODI										C - No Discharge		C - No Discharge						
50050	Flow, in conduit or thru treatment plant	1 - Effluent Gross	0	--	Sample																		
					Permit Req.	Req Mon MO AVG		Req Mon DAILY MX	03 - MGD											02/BA - Twice Per Batch	CN - CONTIN		
					Value NODI	C - No Discharge		C - No Discharge															
50060	Chlorine, total residual	1 - Effluent Gross	0	--	Sample																		
					Permit Req.										Req Mon MO AVG	<=	0.1 DAILY MX	19 - mg/L		01/BA - Once Per Batch	GR - GRAB		
					Value NODI										C - No Discharge		C - No Discharge						
70295	Solids, total dissolved	1 - Effluent Gross	0	--	Sample																		
					Permit Req.										Req Mon MO AVG		Req Mon DAILY MX	19 - mg/L		02/BA - Twice Per Batch	GR - GRAB		
					Value NODI										C - No Discharge		C - No Discharge						
71900	Mercury, total [as Hg]	1 - Effluent Gross	0	--	Sample																		
					Permit Req.									<=	50.0 MO AVG		Req Mon DAILY MX	3M - ng/L		01/BA - Once Per Batch	GR - GRAB		
					Value NODI										C - No Discharge		C - No Discharge						
81646	Surfactants [linear alkylate sulfonate]	1 - Effluent Gross	0	--	Sample																		
					Permit Req.										Req Mon MO AVG	<=	0.04 DAILY MX	19 - mg/L		01/BA - Once Per Batch	GR - GRAB		
					Value NODI										C - No Discharge		C - No Discharge						

Submission Note

If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

Edit Check Errors

No errors.

Comments

Attachments

Name	Type	Size
WVDP_June_2024_Synopsis.pdf	pdf	450974.0
WVDP_January_2024_June_2024_Storm_Water_Data.pdf	pdf	6192619.0

Report Last Saved By

U.S. DEPT OF ENERGY

User: william.kean@chbwv.com

Name: William Kean

E-Mail:	william.kean@chbwv.com
Date/Time:	2024-07-16 10:26 (Time Zone: -04:00)
Report Last Signed By	
User:	ELIZABETH.LOWES@CHBWV.COM
Name:	Elizabeth Lowes
E-Mail:	elizabeth.lowes@chbwv.com
Date/Time:	2024-07-16 10:58 (Time Zone: -04:00)

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Form Approved OMB No. 2040-0004 expires on 07/31/2026

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Permit

Permit #:	**NY0000973**	**Permittee:**	U.S. DEPT OF ENERGY	**Facility:**	WEST VALLEY DEMONSTRATION PROJ
Major:	Yes	**Permittee Address:**	1000 INDEPENDENCE AVE SW WASHINGTON, DC 20585	**Facility Location:**	10282 ROCK SPRINGS ROAD WEST VALLEY, NY 14171-9799
Permitted Feature:	001 External Outfall	**Discharge:**	**001-S** OUTFALL 001 SEMI-ANNUAL		

Report Dates & Status

Monitoring Period:	**From 01/01/24 to 06/30/24**	**DMR Due Date:**	**07/28/24**	**Status:**	**NetDMR Validated**

Considerations for Form Completion

Principal Executive Officer

First Name:	Bryan C.	**Title:**	Director, USDOE-WVDP	**Telephone:**	716-942-4368
Last Name:	Bower				

No Data Indicator (NODI)

Form NODI: --

Parameter		Monitoring Location	Season #	Param. NODI		Quantity or Loading					Quality or Concentration							# of Ex.	Frequency of Analysis	Sample Type
Code	Name					Qualifier 1	Value 1	Qualifier 2	Value 2	Units	Qualifier 1	Value 1	Qualifier 2	Value 2	Qualifier 3	Value 3	Units			
00722	Cyanide, free [amenable to chlorination]	1 - Effluent Gross	0	--	Sample								<	0.005	<	0.005	19 - mg/L		02/YR - Twice Per Year	GR - GRAB
					Permit Req.									Req Mon MO AVG	<=	0.005 DAILY MX	19 - mg/L	0	02/YR - Twice Per Year	GR - GRAB
					Value NODI															
01055	Manganese, total [as Mn]	1 - Effluent Gross	0	--	Sample								=	0.071	=	0.071	19 - mg/L		02/YR - Twice Per Year	24 - COMP24
					Permit Req.									Req Mon MO AVG	<=	2.0 DAILY MX	19 - mg/L	0	02/YR - Twice Per Year	24 - COMP24
					Value NODI															
01067	Nickel, total [as Ni]	1 - Effluent Gross	0	--	Sample								<	0.0036	<	0.0036	19 - mg/L		02/YR - Twice Per Year	24 - COMP24
					Permit Req.									Req Mon MO AVG	<=	0.079 DAILY MX	19 - mg/L	0	02/YR - Twice Per Year	24 - COMP24
					Value NODI															
01094	Zinc, total recoverable	1 - Effluent Gross	0	--	Sample								=	0.0052	=	0.0052	19 - mg/L		02/YR - Twice Per Year	24 - COMP24
					Permit Req.									Req Mon MO AVG	<=	0.13 DAILY MX	19 - mg/L	0	02/YR - Twice Per Year	24 - COMP24
					Value NODI															
01114	Lead, total recoverable	1 - Effluent Gross	0	--	Sample								<	0.0002	<	0.0002	19 - mg/L		02/YR - Twice Per Year	24 - COMP24
					Permit Req.									Req Mon MO AVG	<=	0.006 DAILY MX	19 - mg/L	0	02/YR - Twice Per Year	24 - COMP24
					Value NODI															
01118	Chromium, total recoverable	1 - Effluent Gross	0	--	Sample								=	0.0006	=	0.0006	19 - mg/L		02/YR - Twice Per Year	24 - COMP24
					Permit Req.									Req Mon MO AVG	<=	0.11 DAILY MX	19 - mg/L	0	02/YR - Twice Per Year	24 - COMP24
					Value NODI															
01119	Copper, total recoverable	1 - Effluent Gross	0	--	Sample								=	0.0016	=	0.0016	19 - mg/L		02/YR - Twice Per Year	24 - COMP24
					Permit Req.									Req Mon MO AVG	<=	0.014 DAILY MX	19 - mg/L	0	02/YR - Twice Per Year	24 - COMP24
					Value NODI															
39410	Heptachlor	1 - Effluent Gross	0	--	Sample								<	0.007	<	0.007	28 - ug/L		02/YR - Twice Per Year	GR - GRAB
					Permit Req.								<=	0.01 MO AVG		Req Mon DAILY MX	28 - ug/L	0	02/YR - Twice Per Year	GR - GRAB
					Value NODI															

Submission Note

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Edit Check Errors

No errors.

Comments

As required in Title 6 of the New York State Codes, Rules, and Regulations 6NYCRR, Part 750-2(e)(3), the New York Environmental Laboratory Accreditation Program (NYELAP) identification numbers for Laboratories performing analysis for the WVDP DMR's are as follows: 1) Eurofins: NY Lab No. 10026; 2) General Engineering Laboratory: NY Lab No. 11501, and New England Bioassay (NEB): NY Lab No. 12157. Also, NYCRR Part 750-2(e)(3) requires reporting of Method Detection Limits (MDLs) where monitoring is not performed under ELAP. To that end, the MDL for Total Residual Chlorine analysis, performed by CHBWV Environmental Services is 0.02 mg/L.

Attachments

No attachments.

Report Last Saved By

U.S. DEPT OF ENERGY

User:	william.kean@chbwv.com
Name:	William Kean
E-Mail:	william.kean@chbwv.com
Date/Time:	2024-07-16 10:30 (Time Zone: -04:00)

Report Last Signed By

User:	ELIZABETH.LOWES@CHBWV.COM
Name:	Elizabeth Lowes
E-Mail:	elizabeth.lowes@chbwv.com
Date/Time:	2024-07-16 10:58 (Time Zone: -04:00)

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Form Approved OMB No. 2040-0004 expires on 07/31/2026

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Permit

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Permitted Feature:	001 External Outfall	**Discharge:**	**001-V** OUTFALL 001 ACTION LEVELS SEMI-ANNUAL		

Report Dates & Status

Monitoring Period:	**From 01/01/24 to 06/30/24**	**DMR Due Date:**	**07/28/24**	**Status:**	**NetDMR Validated**

Considerations for Form Completion

SEE PERMIT FOR REPORTING REQUIREMENTS

Principal Executive Officer

First Name:	Bryan C.	**Title:**	Director, USDOE-WVDP	**Telephone:**	716-942-4368
Last Name:	Bower				

No Data Indicator (NODI)

Form NODI: --

Parameter		Monitoring Location	Season #	Param. NODI		Quantity or Loading					Quality or Concentration							# of Ex.	Frequency of Analysis	Sample Type
Code	Name					Qualifier 1	Value 1	Qualifier 2	Value 2	Units	Qualifier 1	Value 1	Qualifier 2	Value 2	Qualifier 3	Value 3	Units			
01022	Boron, total [as B]	V - See Comments	0	--	Sample										=	0.071	19 - mg/L		02/YR - Twice Per Year	24 - COMP24
					Permit Req.										<=	2.0 DAILY MX	19 - mg/L	0	02/YR - Twice Per Year	24 - COMP24
					Value NODI															
01152	Titanium, total [as Ti]	V - See Comments	0	--	Sample										<	0.0011	19 - mg/L		02/YR - Twice Per Year	24 - COMP24
					Permit Req.										<=	0.65 DAILY MX	19 - mg/L	0	02/YR - Twice Per Year	24 - COMP24
					Value NODI															
71870	Bromide [as Br]	V - See Comments	0	--	Sample										<	0.37	19 - mg/L		02/YR - Twice Per Year	24 - COMP24
					Permit Req.										<=	5.0 DAILY MX	19 - mg/L	0	02/YR - Twice Per Year	24 - COMP24
					Value NODI															

Submission Note

If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

Edit Check Errors

No errors.

Comments

As required in Title 6 of the New York State Codes, Rules, and Regulations 6NYCRR, Part 750-2(e)(3), the New York Environmental Laboratory Accreditation Program (NYELAP) identification numbers for Laboratories performing analysis for the WVDP DMR's are as follows: 1) Eurofins: NY Lab No. 10026; 2) General Engineering Laboratory: NY Lab No. 11501, and New England Bioassay (NEB): NY Lab No. 12157. Also, NYCRR Part 750-2(e)(3) requires reporting of Method Detection Limits (MDLs) where monitoring is not performed under ELAP. To that end, the MDL for Total Residual Chlorine analysis, performed by CHBWV Environmental Services is 0.02 mg/L.

Attachments

No attachments.

Report Last Saved By

U.S. DEPT OF ENERGY

User:	william.kean@chbwv.com
Name:	William Kean
E-Mail:	william.kean@chbwv.com
Date/Time:	2024-07-16 10:27 (Time Zone: -04:00)

Report Last Signed By

User:	ELIZABETH.LOWES@CHBWV.COM
Name:	Elizabeth Lowes

E-Mail:	elizabeth.lowes@chbwv.com
Date/Time:	2024-07-16 10:58 (Time Zone: -04:00)

DMR Copy of Record

Form Approved OMB No. 2040-0004 expires on 07/31/2026

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Permit

Permit #:	**NY0000973**	**Permittee:**	U.S. DEPT OF ENERGY	**Facility:**	WEST VALLEY DEMONSTRATION PROJ
Major:	Yes	**Permittee Address:**	1000 INDEPENDENCE AVE SW WASHINGTON, DC 20585	**Facility Location:**	10282 ROCK SPRINGS ROAD WEST VALLEY, NY 14171-9799
Permitted Feature:	001 External Outfall	**Discharge:**	**001-W** OUTFALL 001 WET TESTING QUARTERLY		

Report Dates & Status

Monitoring Period:	**From 04/01/24 to 06/30/24**	**DMR Due Date:**	**08/28/24**	**Status:**	**NetDMR Validated**

Considerations for Form Completion

SEE PERMIT FOOTNOTES FOR WET TESTING REQUIREMENTS

Principal Executive Officer

First Name:	Bryan C.	**Title:**	Director, USDOE-WVDP	**Telephone:**	716-942-4368
Last Name:	Bower				

No Data Indicator (NODI)

Form NODI: --

Parameter		Monitoring Location	Season #	Param. NODI		Quantity or Loading						Quality or Concentration						# of Ex.	Frequency of Analysis	Sample Type
Code	Name					Qualifier 1	Value 1	Qualifier 2	Value 2	Units		Qualifier 1	Value 1	Qualifier 2	Value 2	Qualifier 3	Value 3	Units			
61425	**Toxicity [acute], Ceriodaphnia dubia**	V - See Comments	0	--	Sample											=	0.3	2F - tox acute		01/90 - Quarterly	24 - COMP24
					Permit Req.											<=	0.3 MAXIMUM	2F - tox acute	0	01/90 - Quarterly	24 - COMP24
					Value NODI																
61426	**Toxicity [chronic], Ceriodaphnia dubia**	V - See Comments	0	--	Sample											=	1.0	2G - tox chronic		01/90 - Quarterly	24 - COMP24
					Permit Req.											<=	1.0 MAXIMUM	2G - tox chronic	0	01/90 - Quarterly	24 - COMP24
					Value NODI																
61427	**Toxicity [acute], Pimephales promelas [Fathead Minnow]**	V - See Comments	0	--	Sample																
					Permit Req.											<=	0.3 MAXIMUM	2F - tox acute		01/90 - Quarterly	24 - COMP24
					Value NODI												9 - Conditional Monitoring - Not Required This Period				
61428	**Toxicity [chronic], Pimephales promelas [Fathead Minnow]**	V - See Comments	0	--	Sample																
					Permit Req.											<=	1.0 MAXIMUM	2G - tox chronic		01/90 - Quarterly	24 - COMP24
					Value NODI												9 - Conditional Monitoring - Not Required This Period				

Submission Note

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Edit Check Errors

No errors.

Comments

As required in Title 6 of the New York State Codes, Rules, and Regulations 6NYCRR, Part 750-2(e)(3), the New York Environmental Laboratory Accreditation Program (NYELAP) identification numbers for Laboratories performing analysis for the WVDP DMR's are as follows: 1) Eurofins: NY Lab No. 10026; 2) General Engineering Laboratory: NY Lab No. 11501, and New England Bioassay (NEB): NY Lab No. 12157. Also, NYCRR Part 750-2(e)(3) requires reporting of Method Detection Limits (MDLs) where monitoring is not performed under ELAP. To that end, the MDL for Total Residual Chlorine analysis, performed by CHBWV Environmental Services is 0.02 mg/L.

Attachments

Name	Type	Size
WVDP_May_20_24_WET_Final_Report.pdf	pdf	2297070.0

Report Last Saved By

U.S. DEPT OF ENERGY

User:	william.kean@chbwv.com
Name:	William Kean
E-Mail:	william.kean@chbwv.com

Date/Time:	2024-07-16 10:28 (Time Zone: -04:00)
Report Last Signed By	
User:	ELIZABETH.LOWES@CHBWV.COM
Name:	Elizabeth Lowes
E-Mail:	elizabeth.lowes@chbwv.com
Date/Time:	2024-07-16 10:58 (Time Zone: -04:00)

DMR Copy of Record

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Permit

Permit #:	**NY0000973**	**Permittee:**	U.S. DEPT OF ENERGY	**Facility:**	WEST VALLEY DEMONSTRATION PROJ
Major:	Yes	**Permittee Address:**	1000 INDEPENDENCE AVE SW WASHINGTON, DC 20585	**Facility Location:**	10282 ROCK SPRINGS ROAD WEST VALLEY, NY 14171-9799
Permitted Feature:	007 External Outfall	**Discharge:**	**007-M** SANITARY, NC COOLING WATER, UTILITY WASTEWATER, STORMWATER		

Report Dates & Status

Monitoring Period:	**From 06/01/24 to 06/30/24**	**DMR Due Date:**	**07/28/24**	**Status:**	**NetDMR Validated**

Considerations for Form Completion

Principal Executive Officer

First Name:	Bryan C.	**Title:**	Director, USDOE-WVDP	**Telephone:**	716-942-4368
Last Name:	Bower				

No Data Indicator (NODI)

Form NODI: --

Parameter		Monitoring Location	Season #	Param. NODI		Quantity or Loading					Quality or Concentration							# of Ex.	Frequency of Analysis	Sample Type
Code	Name					Qualifier 1	Value 1	Qualifier 2	Value 2	Units	Qualifier 1	Value 1	Qualifier 2	Value 2	Qualifier 3	Value 3	Units			
00181	Oxygen demand, ultimate	1 - Effluent Gross	0	--	Sample															
					Permit Req.									Req Mon MO AVG	<=	22.0 DAILY MX	19 - mg/L		01/30 - Monthly	CA - CALCTD
					Value NODI									C - No Discharge		C - No Discharge				
00300	Oxygen, dissolved [DO]	1 - Effluent Gross	0	--	Sample															
					Permit Req.						>=	3.0 MINIMUM				Req Mon MAXIMUM	19 - mg/L		02/30 - Twice Per Month	GR - GRAB
					Value NODI							C - No Discharge				C - No Discharge				
00310	BOD, 5-day, 20 deg. C	1 - Effluent Gross	0	--	Sample															
					Permit Req.									Req Mon MO AVG	<=	10.0 DAILY MX	19 - mg/L		02/30 - Twice Per Month	24 - COMP24
					Value NODI									C - No Discharge		C - No Discharge				
00400	pH	1 - Effluent Gross	0	--	Sample															
					Permit Req.						>=	6.5 MINIMUM			<=	8.5 MAXIMUM	12 - SU		02/30 - Twice Per Month	GR - GRAB
					Value NODI							C - No Discharge				C - No Discharge				
00530	Solids, total suspended	1 - Effluent Gross	0	--	Sample															
					Permit Req.								<=	30.0 MO AVG	<=	45.0 DAILY MX	19 - mg/L		02/30 - Twice Per Month	24 - COMP24
					Value NODI									C - No Discharge		C - No Discharge				
00545	Solids, settleable	1 - Effluent Gross	0	--	Sample															
					Permit Req.									Req Mon MO AVG	<=	0.3 DAILY MX	25 - mL/L		02/30 - Twice Per Month	GR - GRAB
					Value NODI									C - No Discharge		C - No Discharge				
00556	Oil & Grease	1 - Effluent Gross	0	--	Sample															
					Permit Req.									Req Mon MO AVG	<=	15.0 DAILY MX	19 - mg/L		02/30 - Twice Per Month	GR - GRAB
					Value NODI									C - No Discharge		C - No Discharge				
00615	Nitrogen, nitrite total [as N]	1 - Effluent Gross	0	--	Sample															
					Permit Req.									Req Mon MO AVG	<=	0.1 DAILY MX	19 - mg/L		01/30 - Monthly	24 - COMP24
					Value NODI									C - No Discharge		C - No Discharge				
00625	Nitrogen, Kjeldahl, total [as N]	1 - Effluent Gross	0	--	Sample															
					Permit Req.									Req Mon MO AVG		Req Mon DAILY MX	19 - mg/L		01/30 - Monthly	24 - COMP24
					Value NODI									C - No Discharge		C - No Discharge				
01045	Iron, total [as Fe]	1 - Effluent Gross	0	--	Sample															
					Permit Req.									Req Mon MO AVG		Req Mon DAILY MX	19 - mg/L		02/30 - Twice Per Month	24 - COMP24

					Value NODI									C - No Discharge		C - No Discharge				
34726	Nitrogen, ammonia, total [as NH3]	1 - Effluent Gross	0	--	Sample															
					Permit Req.								<=	1.49 MO AVG	<=	2.1 DAILY MX	19 - mg/L		02/30 - Twice Per Month	24 - COMP24
					Value NODI									C - No Discharge		C - No Discharge				
50050	Flow, in conduit or thru treatment plant	1 - Effluent Gross	0	--	Sample															
					Permit Req.		Req Mon MO AVG		Req Mon DAILY MX	03 - MGD									01/30 - Monthly	CN - CONTIN
					Value NODI		C - No Discharge		C - No Discharge											
50060	Chlorine, total residual	1 - Effluent Gross	0	--	Sample															
					Permit Req.									Req Mon MO AVG	<=	0.1 DAILY MX	19 - mg/L		01/30 - Monthly	GR - GRAB
					Value NODI									C - No Discharge		C - No Discharge				
70295	Solids, total dissolved	1 - Effluent Gross	0	--	Sample															
					Permit Req.									Req Mon MO AVG		Req Mon DAILY MX	19 - mg/L		02/30 - Twice Per Month	GR - GRAB
					Value NODI									C - No Discharge		C - No Discharge				
71900	Mercury, total [as Hg]	1 - Effluent Gross	0	--	Sample															
					Permit Req.									Req Mon MO AVG	<=	50.0 DAILY MX	3M - ng/L		01/30 - Monthly	GR - GRAB
					Value NODI									C - No Discharge		C - No Discharge				

Submission Note

If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

Edit Check Errors

No errors.

Comments

Attachments

No attachments.

Report Last Saved By

U.S. DEPT OF ENERGY

User:	william.kean@chbwv.com
Name:	William Kean
E-Mail:	william.kean@chbwv.com
Date/Time:	2024-07-16 10:28 (Time Zone: -04:00)

Report Last Signed By

User:	ELIZABETH.LOWES@CHBWV.COM
Name:	Elizabeth Lowes
E-Mail:	elizabeth.lowes@chbwv.com
Date/Time:	2024-07-16 10:58 (Time Zone: -04:00)

DMR Copy of Record

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Permit

Permit #:	**NY0000973**	**Permittee:**	U.S. DEPT OF ENERGY	**Facility:**	WEST VALLEY DEMONSTRATION PROJ
Major:	Yes	**Permittee Address:**	1000 INDEPENDENCE AVE SW WASHINGTON, DC 20585	**Facility Location:**	10282 ROCK SPRINGS ROAD WEST VALLEY, NY 14171-9799
Permitted Feature:	007 External Outfall	**Discharge:**	**007-W** OUTFALL 007 WET TESTING QUARTERLY		

Report Dates & Status

Monitoring Period:	**From 04/01/24 to 06/30/24**	**DMR Due Date:**	**08/28/24**	**Status:**	**NetDMR Validated**

Considerations for Form Completion

SEE PERMIT FOOTNOTES FOR WET TESTING REQUIREMENTS

Principal Executive Officer

First Name:	Bryan C.	**Title:**	Director, USDOE-WVDP	**Telephone:**	716-942-4368
Last Name:	Bower				

No Data Indicator (NODI)

Form NODI: --

Parameter		Monitoring Location	Season #	Param. NODI		Quantity or Loading					Quality or Concentration							# of Ex.	Frequency of Analysis	Sample Type
Code	Name					Qualifier 1	Value 1	Qualifier 2	Value 2	Units	Qualifier 1	Value 1	Qualifier 2	Value 2	Qualifier 3	Value 3	Units			
61425	**Toxicity [acute], Ceriodaphnia dubia**	V - See Comments	0	--	Sample															
					Permit Req.										<=	0.3 MAXIMUM	2F - tox acute		01/90 - Quarterly	24 - COMP24
					Value NODI											C - No Discharge				
61426	**Toxicity [chronic], Ceriodaphnia dubia**	V - See Comments	0	--	Sample															
					Permit Req.										<=	1.0 MAXIMUM	2G - tox chronic		01/90 - Quarterly	24 - COMP24
					Value NODI											C - No Discharge				
61427	**Toxicity [acute], Pimephales promelas [Fathead Minnow]**	V - See Comments	0	--	Sample															
					Permit Req.										<=	0.3 MAXIMUM	2F - tox acute		01/90 - Quarterly	24 - COMP24
					Value NODI											C - No Discharge				
61428	**Toxicity [chronic], Pimephales promelas [Fathead Minnow]**	V - See Comments	0	--	Sample															
					Permit Req.										<=	1.0 MAXIMUM	2G - tox chronic		01/90 - Quarterly	24 - COMP24
					Value NODI											C - No Discharge				

Submission Note

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Edit Check Errors

No errors.

Comments

Attachments

No attachments.

Report Last Saved By

U.S. DEPT OF ENERGY

User:	william.kean@chbwv.com
Name:	William Kean
E-Mail:	william.kean@chbwv.com
Date/Time:	2024-07-16 10:28 (Time Zone: -04:00)

Report Last Signed By

User: ELIZABETH.LOWES@CHBWV.COM

Name:	Elizabeth Lowes
E-Mail:	elizabeth.lowes@chbwv.com
Date/Time:	2024-07-16 10:58 (Time Zone: -04:00)

DMR Copy of Record

Form Approved OMB No. 2040-0004 expires on 07/31/2026

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Permit

Permit #:	**NY0000973**	**Permittee:**	U.S. DEPT OF ENERGY	**Facility:**	WEST VALLEY DEMONSTRATION PROJ
Major:	Yes	**Permittee Address:**	1000 INDEPENDENCE AVE SW WASHINGTON, DC 20585	**Facility Location:**	10282 ROCK SPRINGS ROAD WEST VALLEY, NY 14171-9799
Permitted Feature:	01B Internal Outfall	**Discharge:**	**01B-M** MERCURY PRETREATMENT		

Report Dates & Status

Monitoring Period:	**From 06/01/24 to 06/30/24**	**DMR Due Date:**	**07/28/24**	**Status:**	**NetDMR Validated**

Considerations for Form Completion

Principal Executive Officer

First Name:	Bryan C.	**Title:**	Director, USDOE-WVDP	**Telephone:**	716-942-4368
Last Name:	Bower				

No Data Indicator (NODI)

Form NODI: --

Parameter		Monitoring Location	Season #	Param. NODI		Quantity or Loading					Quality or Concentration							# of Ex.	Frequency of Analysis	Sample Type
Code	Name					Qualifier 1	Value 1	Qualifier 2	Value 2	Units	Qualifier 1	Value 1	Qualifier 2	Value 2	Qualifier 3	Value 3	Units			
00056	Flow rate	1 - Effluent Gross	0	--	Sample															
					Permit Req.		Req Mon MO AVG		Req Mon DAILY MX	07 - gal/d									01/07 - Weekly	CN - CONTIN
					Value NODI		C - No Discharge		C - No Discharge											
71900	Mercury, total [as Hg]	1 - Effluent Gross	0	--	Sample															
					Permit Req.									Req Mon MO AVG	<=	50.0 DAILY MX	3M - ng/L		02/BA - Twice Per Batch	GR - GRAB
					Value NODI									C - No Discharge		C - No Discharge				

Submission Note

If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

Edit Check Errors

No errors.

Comments

Attachments

No attachments.

Report Last Saved By

U.S. DEPT OF ENERGY

User:	william.kean@chbwv.com
Name:	William Kean
E-Mail:	william.kean@chbwv.com
Date/Time:	2024-07-16 10:28 (Time Zone: -04:00)

Report Last Signed By

User:	ELIZABETH.LOWES@CHBWV.COM
Name:	Elizabeth Lowes
E-Mail:	elizabeth.lowes@chbwv.com
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Form Approved OMB No. 2040-0004 expires on 07/31/2026

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This collection of information is approved by OMB under the Paperwork Reduction Act, 44 U.S.C. 3501 et seq. (OMB Control No. 2040-0004). Responses to this collection of information are mandatory in accordance with this permit and EPA NPDES regulations 40 CFR 122.41(l)(4)(i). An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB control number. The public reporting and recordkeeping burden for this collection of information are estimated to average 2 hours per outfall. Send comments on the Agency's need for this information, the accuracy of the provided burden estimates and any suggested methods for minimizing respondent burden to the Regulatory Support Division Director, U.S. Environmental Protection Agency (2821T), 1200 Pennsylvania Ave., NW, Washington, D.C. 20460. Include the OMB control number in any correspondence. Do not send the completed form to this address.

Permit

Permit #:	**NY0000973**	**Permittee:**	U.S. DEPT OF ENERGY	**Facility:**	WEST VALLEY DEMONSTRATION PROJ
Major:	Yes	**Permittee Address:**	1000 INDEPENDENCE AVE SW WASHINGTON, DC 20585	**Facility Location:**	10282 ROCK SPRINGS ROAD WEST VALLEY, NY 14171-9799
Permitted Feature:	116 Internal Outfall	**Discharge:**	**116-M** PSEUDO MON. POINT @FRANKS CRK		

Report Dates & Status

Monitoring Period:	**From 06/01/24 to 06/30/24**	**DMR Due Date:**	**07/28/24**	**Status:**	**NetDMR Validated**

Considerations for Form Completion

IF PSUEDO MONITORING POINT REPORT IS NOT REQUIRED DURING THE MONITORING PERIOD, EITHER CHECK THENO DISCHARGE BOX OR ENTER 'NODI' IN PLACE OF A MEASUREMENT TO INDICATE A GENERAL PERMIT EXEMPTION.

Principal Executive Officer

First Name:	Bryan C.	**Title:**	Director, USDOE-WVDP	**Telephone:**	716-942-4368
Last Name:	Bower				

No Data Indicator (NODI)

Form NODI: --

Parameter		Monitoring Location	Season #	Param. NODI		Quantity or Loading					Quality or Concentration							# of Ex.	Frequency of Analysis	Sample Type
Code	Name					Qualifier 1	Value 1	Qualifier 2	Value 2	Units	Qualifier 1	Value 1	Qualifier 2	Value 2	Qualifier 3	Value 3	Units			
70295	Solids, total dissolved	Z - Instream Monitoring	0	--	Sample															
					Permit Req.									Req Mon MO AVG	<=	500.0 DAILY MX	19 - mg/L		02/DS - Twice Per Discharge	CA - CALCTD
					Value NODI									C - No Discharge		C - No Discharge				

Submission Note

If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

Edit Check Errors

No errors.

Comments

Attachments

No attachments.

Report Last Saved By

U.S. DEPT OF ENERGY

User:	william.kean@chbwv.com
Name:	William Kean
E-Mail:	william.kean@chbwv.com
Date/Time:	2024-07-16 10:28 (Time Zone: -04:00)

Report Last Signed By

User:	ELIZABETH.LOWES@CHBWV.COM
Name:	Elizabeth Lowes
E-Mail:	elizabeth.lowes@chbwv.com
Date/Time:	2024-07-16 10:58 (Time Zone: -04:00)

DMR Copy of Record

Form Approved OMB No. 2040-0004 expires on 07/31/2026

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Permit

Permit #:	**NY0000973**	**Permittee:**	U.S. DEPT OF ENERGY	**Facility:**	WEST VALLEY DEMONSTRATION PROJ
Major:	Yes	**Permittee Address:**	1000 INDEPENDENCE AVE SW WASHINGTON, DC 20585	**Facility Location:**	10282 ROCK SPRINGS ROAD WEST VALLEY, NY 14171-9799
Permitted Feature:	SUM Internal Outfall	**Discharge:**	**SUM-N** SUM OF OUTFALLS 1 & 7		

Report Dates & Status

Monitoring Period:	**From 06/01/24 to 06/30/24**	**DMR Due Date:**	**07/28/24**	**Status:**	**NetDMR Validated**

Considerations for Form Completion

Principal Executive Officer

First Name:	Bryan C.	**Title:**	Director, USDOE-WVDP	**Telephone:**	716-942-4368
Last Name:	Bower				

No Data Indicator (NODI)

Form NODI: --

Parameter		Monitoring Location	Season #	Param. NODI		Quantity or Loading					Quality or Concentration							# of Ex.	Frequency of Analysis	Sample Type
Code	Name					Qualifier 1	Value 1	Qualifier 2	Value 2	Units	Qualifier 1	Value 1	Qualifier 2	Value 2	Qualifier 3	Value 3	Units			
01045	Iron, total [as Fe]	2 - Effluent Net	0	--	Sample															
					Permit Req.									Req Mon MO AVG	<=	1.0 DAILY MX	19 - mg/L		01/30 - Monthly	CA - CALCTD
					Value NODI									C - No Discharge		C - No Discharge				

Submission Note

If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

Edit Check Errors

No errors.

Comments

Attachments

Name	Type	Size
WVDP_June_2024_Net_Iron_Calcualtion.pdf	pdf	285426.0

Report Last Saved By

U.S. DEPT OF ENERGY

User:	william.kean@chbwv.com
Name:	William Kean
E-Mail:	william.kean@chbwv.com
Date/Time:	2024-07-16 10:29 (Time Zone: -04:00)

Report Last Signed By

User:	ELIZABETH.LOWES@CHBWV.COM
Name:	Elizabeth Lowes
E-Mail:	elizabeth.lowes@chbwv.com
Date/Time:	2024-07-16 10:58 (Time Zone: -04:00)

Attachment B

Storm Water Discharge Monitoring Results for January 1 through June 30, 2024 Monitoring Period

STORM WATER DISCHARGE MONITORING DATA
FOR OUTFALL GROUP 1, OUTFALL S04
Monitoring Period: January 1 through June 30, 2024

Parameter Group	Parameter	Results in mg/L		Permit No. NY-0000973 Compliance Limit
		First Flush Grab	Flow-Weighted Composite	
Group A Parameters	pH	7.9 S.U.	N.R.	Not Specified in Permit.
	Oil and Grease	1.6	N.R.	15 mg/L
	BOD-5	< 12	< 3.0	Not specified in permit. N.R. = Not Required. Data was flagged "R" unreliable during the data validation process.
	Total Suspended Solids (TSS)	18	14	
	Total Dissolved Solids (TDS)	1600	1400	
	Phosphorus, Total	0.12	0.062	
Group B Parameters	Aluminum	4.2	2.6	
	Iron	4.3	2.8	
	Copper, Total Recoverable (TR)	0.0060	0.0044	
	Lead (TR)	0.0036	0.0024	
	Zinc (TR)	0.028	0.019	
Group C Parameters	Total Nitrogen (as N)	< 0.79	< 0.53	
	TKN	0.46	0.25	
	Nitrate Nitrogen (as N)	0.31	0.26	
	Nitrite Nitrogen (as N)	< 0.020	< 0.020	
	Ammonia Nitrogen (as NH3)	0.032	0.042	
	Cadmium, TR	0.000084	< 0.000071	
	Chromium, TR	0.0062	0.0039	
	Hexavalent Chromium, TR	0.015 "R"	0.020 "R"	
	Selenium, TR	< 0.00044	< 0.00044	
	Vanadium, TR	0.0071	0.0049	
	Surfactant (as LAS)	N.R.	N.R.	
	Alpha BHC	N.R.	N.R.	
	Settleable Solids	N.R.	N.R.	
	Sulfide	N.R.	N.R.	
	Paraquat Dichloride	N.R.	N.R.	
Flow	Total Flow, gallons	N.R.	200,000	
	Maximum Flow rate, gallons per minute	1,800	N.R.	
	Method of flow measurement	Staff Gauge		
Rainfall Event and Monitoring Summary	Date(s) of event monitored	04/02/24	04/02/24	
	Duration of storm event, in minutes	N.R.	240	Rain started at 0800 EST on 4/02/24 and ended at 1200 EST on 4/02/24.
	Date and Time of sample collection	04/02/24 1255	04/02/24 1540	
	Sampling Duration (Minutes)	Instantaneous	180	
	Total rainfall during sampling event, in inches	N.R.	0.16	
	Number of hours between event sampled and previous measurable (> 0.1 inch) event	N.R.	60	0.26 inches was recorded on 3/30/24 at 2015 EST. The outfall was at base flow conditions upon arrival.

STORM WATER DISCHARGE MONITORING DATA
FOR OUTFALL GROUP 2, OUTFALL S06/Duplicate
Monitoring Period: January 1 through June 30, 2024

Parameter Group	Parameter	Results in mg/L		Permit No. NY-0000973 Compliance Limit
		First Flush Grab / Duplicate	Flow-weighted Composite	
Group A Parameters	pH	7.6 / 7.6 S.U.	N.R.	Not Specified in Permit.
	Oil and Grease	< 1.6 / < 1.6	N.R.	15 mg/L
	BOD-5	5.1 / 5.3	1.7	Not specified in permit. N.R. = Not Required.
	Total Suspended Solids (TSS)	22 / 19	6.4	
	Total Dissolved Solids (TDS)	770 / 760	820	
	Phosphorus, Total	0.077 / 0.023	< 0.020	
Group B Parameters	Aluminum	0.051 / 0.067	< 0.019	
	Iron	2.9 / 2.5	0.80	
	Copper, Total Recoverable (TR)	< 0.00064 / < 0.00072	0.00040	
	Lead (TR)	< 0.00050 / < 0.00050	< 0.00050	
	Zinc (TR)	0.0081 / 0.0082	< 0.0033	
Group C Parameters	Total Nitrogen (as N)	N.R.	N.R.	
	TKN	N.R.	N.R.	
	Nitrate Nitrogen (as N)	N.R.	N.R.	
	Nitrite Nitrogen (as N)	N.R.	N.R.	
	Ammonia Nitrogen (as NH3)	N.R.	N.R.	
	Cadmium, TR	N.R.	N.R.	
	Chromium, TR	N.R.	N.R.	
	Hexavalent Chromium, TR	N.R.	N.R.	
	Selenium, TR	N.R.	N.R.	
	Vanadium, TR	N.R.	N.R.	
	Surfactant (as LAS)	0.035 / 0.021	0.015	
	Alpha BHC	N.R.	N.R.	
	Settleable Solids	N.R.	N.R.	
	Sulfide	N.R.	N.R.	
	Paraquat Dichloride	N. R.	N.R.	
Flow	Total Flow, gallons	N.R.	2,500	
	Maximum Flow rate, gallons per minute	17	N.R.	
	Method of flow measurement	Flow Meter		
Rainfall Event and Monitoring Summary	Date(s) of event monitored	05/22/24	05/22/24	
	Duration of storm event, in minutes	N.R.	135	Rain started at 1315 EST on 05/22/24 and ended at 1530 EST on 05/22/24.
	Date and Time of sample collection	05/22/24 1510	05/22/24 1755	
	Sampling Duration (Minutes)	Instantaneous	180	
	Total rainfall during sampling event, in inches	N.R.	0.16	
	Number of hours between event sampled and previous measurable (> 0.1 inch) event	N.R.	162	Precipitation of 0.49 inches was recorded on 05/15/24 at 1930 EST. There was base flow at the outfall upon arrival.

STORM WATER DISCHARGE MONITORING DATA
FOR OUTFALL GROUP 3, OUTFALL S09
Monitoring Period: January 1 through June 30, 2024

Parameter Group	Parameter	Results in mg/L, Mercury, total in ng/L via method 1631		Permit No. NY-0000973 Compliance Limit
		First Flush Grab	Flow-Weighted Composite	
Group A Parameters	pH	7.9 S.U.	N.R.	Not specified in permit.
	Oil and Grease	< 1.6	N.R.	15 mg/L
	BOD-5	4.9	5.4	Not specified in permit. N.R. = Not Required.
	Total Suspended Solids (TSS)	160	120	
	Total Dissolved Solids (TDS)	320	360	
	Phosphorus, Total	0.28	0.20	
Group B Parameters	Aluminum	0.65	0.63	
	Iron	1.1	1.0	
	Copper, Total Recoverable (TR)	0.016	0.012	
	Lead (TR)	0.011	0.0077	
	Zinc (TR)	0.076	0.055	
Group C Parameters	Total Nitrogen (as N)	< 1.3	< 1.0	
	TKN	1.1	0.82	
	Nitrate Nitrogen (as N)	0.18	0.18	
	Nitrite Nitrogen (as N)	< 0.020	< 0.020	
	Ammonia Nitrogen (as NH3)	0.045	0.034	
	Cadmium, TR	N.R.	N.R.	
	Chromium, TR	N.R.	N.R.	
	Hexavalent Chromium, TR	N.R.	N.R.	
	Selenium, TR	N.R.	N.R.	
	Vanadium, TR	N.R.	N.R.	
	Surfactant (as LAS)	N.R.	N.R.	
	Alpha BHC	< 0.0000067	< 0.0000063	
	Settleable Solids	N.R.	N.R.	
	Sulfide	N.R.	N.R.	
	Mercury, Total (ng/L)	12	N.R.	
	Paraquat Dichloride	N.R.	N.R.	
Flow	Total Flow, gallons	N.R.	9,400	
	Maximum Flow rate, gallons per minute	120	N.R.	
	Method of flow measurement	Staff Gauge		
Rainfall Event and Monitoring Summary	Date(s) of event monitored	4/11/24	4/11/24	
	Duration of storm event, in minutes	N.R.	1320	Rain started at 0145 EST on 4/11/24 and ended at 2345 EST on 4/11/24.
	Date and Time of sample collection	4/11/24 0630	4/11/24 0915	
	Sampling Duration (Minutes)	Instantaneous	180	
	Total rainfall during sampling event, in inches	N.R.	0.22	An Additional 0.50 inches was recorded after sampling was completed for a storm total of 0.72 inches.
	Number of hours between event sampled and previous measurable (> 0.1 inch) event	N.R.	14	Precipitation of 0.17 inches was recorded on 4/10/24 at 1130 EST. There was flow at the outfall upon arrival.

STORM WATER DISCHARGE MONITORING DATA
FOR OUTFALL GROUP 4, OUTFALL S34
Monitoring Period: January 1 through June 30, 2024

Parameter Group	Parameter	Results in mg/L		Permit No. NY-0000973 Compliance Limit
		First Flush Grab / Duplicate	Flow-Weighted Composite	
Group A Parameters	pH	7.8 S.U.	N.R.	Not specified in permit.
	Oil and Grease	1.6	N.R.	15 mg/L
	BOD-5	< 2.0	< 2.0	Not specified in permit. N.R. = Not Required.
	Total Suspended Solids (TSS)	140	53	
	Total Dissolved Solids (TDS)	820	610	
	Phosphorus, Total	0.17	0.12	
Group B Parameters	Aluminum	7.3	4.8	
	Iron	8.4	4.5	
	Copper, Total Recoverable (TR)	0.012	0.0066	
	Lead (TR)	0.0077	0.0036	
	Zinc (TR)	0.073	0.047	
Group C Parameters	Total Nitrogen (as N)	N.R.	N.R.	
	TKN	N.R.	N.R.	
	Nitrate Nitrogen (as N)	N.R.	N.R.	
	Nitrite Nitrogen (as N)	N.R.	N.R.	
	Ammonia Nitrogen (as NH3)	N.R.	N.R.	
	Cadmium, TR	N.R.	N.R.	
	Chromium, TR	N.R.	N.R.	
	Hexavalent Chromium, TR	N.R.	N.R.	
	Selenium, TR	N.R.	N.R.	
	Vanadium, TR	N.R.	N.R.	
	Surfactant (as LAS)	< 0.013	0.026	
	Alpha BHC	N.R.	N.R.	
	Settleable Solids	N.R.	N.R.	
	Sulfide	N.R.	N.R.	
	Paraquat Dichloride	N.R.	N.R.	
Flow	Total Flow, gallons	N.R.	460,000	
	Maximum Flow rate, gallons per minute	2,800	N.R.	
	Method of flow measurement	Staff Gauge		
Rainfall Event and Monitoring Summary	Date(s) of event monitored	04/02/24	04/02/24	
	Duration of storm event, in minutes	N.R.	240	Rain started at 0800 EST on 04/02/24 and ended at 1200 EST on 04/02/24.
	Date and Time of sample collection	04/02/24 1255	04/02/24 1545	
	Sampling Duration (Minutes)	Instantaneous	180	
	Total rainfall during event, in inches	N.R.	0.16	
	Number of hours between event sampled and previous measurable (> 0.1 inch) event	N.R.	60	Precipitation of 0.26 inches was recorded on 03/30/24 at 2015 EST. The Outfall was at base flow conditions.

STORM WATER DISCHARGE MONITORING DATA
FOR OUTFALL GROUP 5, OUTFALL S28
Monitoring Period: January 1 through June 30, 2024

Parameter Group	Parameter	Results in mg/L, mL/L for Settleable Solids		Permit No. NY-0000973 Compliance Limit
		First Flush Grab	Flow-Weighted Composite	
Group A Parameters	pH	7.6 S.U.	N.R.	Not specified in permit.
	Oil and Grease	< 1.6	N.R.	15 mg/L
	BOD-5	6.8	5.1	Not specified in permit. N.R. = Not required.
	Total Suspended Solids (TSS)	2500	1500	
	Total Dissolved Solids (TDS)	590	440	
	Phosphorus, Total	0.61	0.60	
Group B Parameters	Aluminum	34	16	
	Iron	56	23	
	Copper, Total Recoverable (TR)	0.081	0.039	
	Lead (TR)	0.21	0.094	
	Zinc (TR)	0.49	0.22	
Group C Parameters	Total Nitrogen (as N)	< 5.8	< 2.8	
	TKN	5.6	2.7	
	Nitrate Nitrogen (as N)	0.21	0.092	
	Nitrite Nitrogen (as N)	< 0.020	< 0.020	
	Ammonia Nitrogen (as NH3)	0.063	0.061	
	Cadmium, TR	N.R.	N.R.	
	Chromium, TR	N.R.	N.R.	
	Hexavalent Chromium, TR	N.R.	N.R.	
	Selenium, TR	N.R.	N.R.	
	Vanadium, TR	0.059	0.028	
	Surfactant (as LAS)	< 0.013	0.026	
	Alpha BHC	N.R.	N.R.	
	Settleable Solids	< 0.1	< 0.1	
	Sulfide	< 0.033	< 0.033	
	Paraquat Dichloride	N.R.	N. R.	
Flow	Total Flow, gallons	N.R.	54,000	
	Maximum Flow rate, gallons per minute	320	N.R.	
	Method of flow measurement	Staff Gauge		
Rainfall Event and Monitoring Summary	Date(s) of event monitored	4/24/24	4/24/24	
	Duration of storm event, in minutes	N.R.	555	Rain started at 0645 EST on 4/24/24 and ended at 1600 EST on 4/24/24.
	Date and Time of sample collection	4/24/24 0830	4/24/24 1120	
	Sampling Duration (Minutes)	Instantaneous	180	
	Total rainfall during sampling event, in inches	N.R.	0.26	An additional 0.05 inches was recorded after sampling was completed for a storm Total of 0.31 inches.
	Number of hours between event sampled and previous measurable (> 0.1 inch) event	N.R.	6	Precipitation of 0.22 inches was recorded on 4/24/24 at 0100 EST. There was flow at the outfall upon arrival.

STORM WATER DISCHARGE MONITORING DATA
FOR OUTFALL GROUP 6, OUTFALL S38
Monitoring Period: January 1 through June 30, 2024

Parameter Group	Parameter	Results in mg/L, mL/L for Settleable Solids		Permit No. NY-0000973 Compliance Limit
		First Flush Grab	Flow-weighted Composite	
Group A Parameters	pH	7.8 S.U.	N.R.	Not specified in permit.
	Oil and Grease	< 1.5	N.R.	15 mg/L
	BOD-5	4.8	4.2	Not specified in permit. N.R. = Not required.
	Total Suspended Solids (TSS)	190	74	
	Total Dissolved Solids (TDS)	310	340	
	Phosphorus, Total	0.33	0.21	
Group B Parameters	Aluminum	1.2	1.8	
	Iron	2.1	2.5	
	Copper, Total Recoverable (TR)	0.0065	0.0053	
	Lead (TR)	0.0049	0.0026	
	Zinc (TR)	0.46	0.19	
Group C Parameters	Total Nitrogen (as N)	1.3	0.95	
	TKN	1.2	0.89	
	Nitrate Nitrogen (as N)	0.031	0.021	
	Nitrite Nitrogen (as N)	0.037	0.035	
	Ammonia Nitrogen (as NH3)	0.042	0.050	
	Cadmium, TR	N.R.	N.R.	
	Chromium, TR	N.R.	N.R.	
	Hexavalent Chromium, TR	N.R.	N.R.	
	Selenium, TR	N.R.	N.R.	
	Vanadium, TR	0.0025	0.0029	
	Surfactant (as LAS)	< 0.013	< 0.013	
	Alpha BHC	N.R.	N.R.	
	Settleable Solids	< 0.1	< 0.1	
	Sulfide	< 0.033	< 0.033	
	Paraquat Dichloride	N.R.	N.R.	
Flow	Total Flow, gallons	N.R.	29,000	
	Maximum Flow rate, gallons per minute	470	N.R.	
	Method of flow measurement	Staff Gauge		
Rainfall Event and Monitoring Summary	Date(s) of event monitored	05/15/24	05/15/24	
	Duration of storm event, in minutes	N.R.	420	Rain started at 1230 EST on 05/15/24 and ended at 1930 EST on 05/15/24.
	Date and Time of sample collection	05/15/24 1425	05/15/24 1555	
	Sampling Duration (Minutes)	Instantaneous	100	
	Total rainfall during sampling event, in inches	N.R.	0.10	An additional 0.39 inches was recorded after sampling was completed for a storm total of 0.49 inches.
	Number of hours between event sampled and previous measurable (> 0.1 inch) event	N.R.	21	Precipitation of 0.29 inches was recorded on 05/14/24 at 1515 EST. There was no flow at the outfall upon arrival.

STORM WATER DISCHARGE MONITORING DATA
FOR OUTFALL GROUP 7, OUTFALL S20
Monitoring Period: January 1 through June 30, 2024

Parameter Group	Parameter	Results in mg/L		Permit No. NY-0000973 Compliance Limit
		First Flush Grab/Duplicate	Flow-weighted Composite	
Group A Parameters	pH	7.9 S.U.	N.R.	Not specified in permit.
	Oil and Grease	< 1.6	N.R.	15 mg/L
	BOD-5	5.2	4.9	Not specified in permit. N.R. = Not required.
	Total Suspended Solids (TSS)	< 4.0	6.4	
	Total Dissolved Solids (TDS)	11	< 2.4	
	Phosphorus, Total	0.067	0.067	
Group B Parameters	Aluminum	0.17	0.065	
	Iron	0.27	< 0.083	
	Copper, Total Recoverable (TR)	< 0.0017	< 0.0017	
	Lead (TR)	0.00071	< 0.00045	
	Zinc (TR)	< 0.015	< 0.015	
Group C Parameters	Total Nitrogen (as N)	1.2	1.4	
	TKN	0.83	1.1	
	Nitrate Nitrogen (as N)	0.28	0.26	
	Nitrite Nitrogen (as N)	0.035	0.024	
	Ammonia Nitrogen (as NH3)	0.77	1.1	
	Cadmium, TR	N.R.	N.R.	
	Chromium, TR	N.R.	N.R.	
	Hexavalent Chromium, TR	N.R.	N.R.	
	Selenium, TR	N.R.	N.R.	
	Vanadium, TR	N.R.	N.R.	
	Surfactant (as LAS)	< 0.013	< 0.013	
	Alpha BHC	N.R.	N.R.	
	Settleable Solids	N.R.	N.R.	
	Sulfide	< 0.033	< 0.0033	
	Paraquat Dichloride	N.R.	N.R.	
Flow	Total Flow, gallons	N.R.	74,000	
	Maximum Flow rate, gallons per minute	1,600	N.R.	
	Method of flow measurement	Staff Gauge		
Rainfall Event and Monitoring Summary	Date(s) of event monitored	5/15/24	5/15/24	
	Duration of storm event, in minutes	N.R.	420	Rain started at 1230 EST on 5/15/24 and ended at 1930 EST on 5/15/24.
	Date and Time (EDT) of sample collection	5/15/24 1425	5/15/24 1710	
	Sampling Duration (Minutes)	Instantaneous	180	
	Total rainfall during sampling event in inches	N.R.	0.26	An additional 0.13 inches was recorded after sampling was completed for a storm total of 0.49 inches.
	Number of hours between event sampled and previous measurable (> 0.1 inch) event	N.R.	21	Precipitation of 0.29 inches was recorded on 5/14/24 at 1515 EST. There was no flow at the outfall upon arrival.

STORM WATER DISCHARGE MONITORING DATA
FOR OUTFALL GROUP 8, OUTFALL S27
Monitoring Period: January 1 through June 30, 2024

Parameter Group	Parameter	Results, in mg/L		Permit No. NY-0000973 Compliance Limit
		First Flush Grab	Flow-Weighted Composite	
Group A Parameters	pH	7.6 S.U.	N.R.	Not specified in permit.
	Oil and Grease	< 1.5	N.R.	15 mg/L
	BOD-5	2.5	< 2.0	Not specified in permit. N.R. = Not Required.
	Total Suspended Solids (TSS)	63	28	
	Total Dissolved Solids (TDS)	200	280	
	Phosphorus, Total	0.054	0.12	
Group B Parameters	Aluminum	1.4	0.68	
	Iron	1.5	0.69	
	Copper, Total Recoverable (TR)	0.0030	0.0031	
	Lead (TR)	0.0022	0.0023	
	Zinc (TR)	< 0.015	< 0.015	
Group C Parameters	Total Nitrogen (as N)	< 1.0	< 0.80	
	TKN	0.95	0.64	
	Nitrate Nitrogen (as N)	0.028	0.14	
	Nitrite Nitrogen (as N)	< 0.020	< 0.020	
	Ammonia Nitrogen (as NH3)	0.032	0.037	
	Cadmium, TR	N.R.	N.R.	
	Chromium, TR	N.R.	N.R.	
	Hexavalent Chromium, TR	N.R.	N.R.	
	Selenium, TR	N.R.	N.R.	
	Vanadium, TR	N.R.	N.R.	
	Surfactant (as LAS)	0.021	0.027	
	Alpha BHC	N.R.	N.R.	
	Settleable Solids	N.R.	N.R.	
	Sulfide	N.R.	N.R.	
	Paraquat Dichloride	N.R.	N.R.	
Flow	Total Flow, gallons	N.R.	58,000	
	Maximum Flow rate, gallons per minute	360	N.R.	
	Method of flow measurement	Staff Gauge		
Rainfall Event and Monitoring Summary	Date(s) of event monitored	4/24/24	4/24/24	
	Duration of storm event, in minutes	N.R.	555	Rain started at 0645 EST on 4/24/24 and ended at 1600 EDT on 4/24/24.
	Date and Time of sample collection	4/24/24 0840	4/24/24 1130	
	Sampling Duration (Minutes)	Instantaneous	180	
	Total rainfall during event, in inches	N.R.	0.26	An additional 0.05 inches was recorded after sampling was completed for a storm total of 0.31 inches.
	Number of hours between event sampled and previous measurable (> 0.1 inch) event	N.R.	6	Precipitation of 0.22 inches was recorded on 4/24/24 at 0100 EST. There was a slight flow at the outfall upon arrival.

Attachment C

Whole Effluent Toxicity (WET) Testing Final Report for the May 2024 Discharge

eurofins | Environment Testing

1 2 3 4 5

ANALYTICAL REPORT

PREPARED FOR

Attn: Chester Wrotniak
CH2M Hill BWXT West Valley (CHBWV)
10282 Rock Springs Road
MS-ACC-22
West Valley, New York 14171-9799

Generated 6/13/2024 4:26:23 PM Revision 1

JOB DESCRIPTION

SPDES
1457

JOB NUMBER

480-220418-1

Eurofins Buffalo
10 Hazelwood Drive
Amherst NY 14228-2298

See page two for job notes and contact information.

my EOL

Eurofins Buffalo

Job Notes

The test results in this report meet all NELAP requirements for analytes for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. All questions regarding this test report should be directed to the TestAmerica Project Manager who has signed this report. TestAmerica Buffalo NELAC Certifications: CADPH 01169CA, FLDOH E87672, ILEPA 200003, KSDOH E-10187, LADEQ 30708, MDH 036-999-337, NHELAP 2973, NJDEP NY455, NHDOH 10026, ORELAP NY200003, PADEP 68-00281, TXCEQ T-104704412-10-1

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Northeast, LLC Project Manager.

Authorization

Generated
6/13/2024 4:26:23 PM
Revision 1

Authorized for release by
John Schove, Project Manager II
John.Schove@et.eurofinsus.com
(716)504-9838

Table of Contents

Case Narrative

Client: CH2M Hill BWXT West Valley (CHBWV) Job ID: 480-220418-1
Project: SPDES

Job ID: 480-220418-1 Eurofins Buffalo

Job Narrative
480-220418-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Revision
This report has been revised to correct the subcontract laboratories name.

Receipt
The sample was received on 5/3/2024 8:26 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice.

Subcontract Work
Method Whole Effluent Toxicity (WET) Testing - C. Dubia: This method was subcontracted to New England Bioassay. The subcontract laboratory certification is different from that of the facility issuing the final report. The subcontract report is appended in its entirety.

Sample Summary

Client: CH2M Hill BWXT West Valley (CHBWV)
Project/Site: SPDES

Job ID: 480-220418-1
SDG: 1457

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-220418-1	2024-03160 WNSP001	Water	05/02/24 12:00	05/03/24 08:26

New England Bioassay Inc.
Aquatic Toxicity Testing Services
77 Batson Drive
Manchester, CT 06042
(860)-643-9560
www.nebio.com

CHRONIC AQUATIC TOXICITY TEST REPORT

Permitee: West Valley Demonstration Project NPDES # NY0000973
Report submitted to: Test America
10 Hazelwood Dr, Amherst NY
Sample ID: Outfall 001
Test Month/Year: May 2024
NEB Proj # 44240

Test Type / Method: *Ceriodaphnia dubia* Modified Chronic Static-Renewal Freshwater Test Method 1002.0; EPA 821-R-02-013

Effluent Sample Dates: #1 5/1-2/24 #2 5/5-6/24

Test Start Date: 5/3/24

Results Summary

Your results were as follows:

Passed all permit limits

Acute Test Results

Species	LC50	TUa	Permit Limit	Pass / Fail
Ceriodaphnia dubia	>100%	0.3	TUa ≤ 0.3	Pass

Chronic Test Results

Species	C-NOEC	TUc	IC25	Permit Limit	Pass/Fail
Ceriodaphnia dubia	100%	1.0	>100%	TUc ≤ 1.0	Pass

Data Qualifiers affecting this test:

Certifications & Approvals: NH ELAP (2071), NJ DEP (CT405)

Test Report Certification

Permittee name: West Valley Demonstration Project Permit number: NY0000973

Client sample ID: Outfall 001 Test Start Date: 5/3/24

Whole Effluent Toxicity Test Report Certification (Permittee)

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Executed on: _____ (Date)

_____ Authorized Signature

_____ Print or Type Name and Title

_____ Print or Type the Permittee's Name

NY0000973 Print or Type the NPDES Permit Number

Whole Effluent Toxicity Test Report Certification (Bioassay Laboratory)

The results reported relate only to the samples submitted as received

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Executed on: 6/3/24 (Date)

Kimberly Wills

Kimberly Wills
Laboratory Director
New England Bioassay Inc.

General Test Conditions

Permittee name: West Valley Demonstration Project Permit number: NY0000973

Client sample ID: Outfall 001 Test Start Date: 5/3/24

Sample Collection Information

Effluent #1 Dates/Times: 5/1-2/24 @ 1200-1200 Receiving Water #1 Date/Time: 5/2/24 @ 1115

Effluent #2 Dates/Times: 5/5-6/24 @ 0730-0730 Receiving Water #2 Date/Time: 5/6/24 @ 0700

Were a minimum of three samples collected? Yes ☐ No ☑ *(see note below)

Were samples used within the first 36 hours of collection? Yes ☑ No ☐ * (see note below)

* sample collection note: NYSDEC has approved West Valley Demonstration Project to use only two sets of samples for their chronic testing due to the batch nature of their discharge.

Test Conditions

Permittee's Receiving Water: Erdman Brook

- Dilution water: Receiving water collected at a point immediately upstream of or away from the discharge
- Control water: Laboratory synthetic moderately hard water (hardness 80 - 100 mg/L CaCO3)

Effluent concentrations tested: 0%, 6.25%, 12.5%, 25%, 50%, 100%

Was effluent salinity adjusted? No ☑ Yes ☐ with Instant Ocean sea salts to N/A ppt

Dechlorination procedures: Chlorine is measured using 4500 CL-G DPD Colorimetric Method

- Dechlorination was not required

TRC results and further information about aeration of samples can be found attached in "sample receipt chemistry"

Reference Toxicant Data

Ceriodaphnia dubia

Date:	5/6/24
Toxicant:	Sodium chloride
Dilution Water:	NEB CTRMH
Organism Source:	NEB
Reproduction IC25:	0.83 g/L
Results within range	Yes ☑ No ☐

Ceriodaphnia dubia Test Results

Permittee name: West Valley Demonstration Project Permit number: NY0000973

Client sample ID: Outfall 001 Test Dates: 5/3/24 - 5/10/24

Test Acceptability Criteria

Lab Control Survival:	100	%	Mean Lab Control Reproduction:	43.7	young per female
Diluent Control Survival:	100	%	Mean Diluent Control Reproduction:	48.4	young per female
Thiosulfate Control Survival:	N/A	%	Mean Thiosulfate Control Reproduction:	N/A	young per female

Presence of an asterisk (*) indicates EPA criteria was not met, see explanation in the "Results Discussion" section at the bottom of the following page.

Test Results

		Permit Limit	Test Result	Pass/Fail Status
Acute Data	48 hr LC50		>100%	
	48 hr NOEC		100%	
	TUa	≤ 0.3	0.3	Pass
Chronic Data	Chronic LC50		>100%	
	Survival C-NOEC		100%	
	Survival C-LOEC		>100%	
	Reproduction C-NOEC		100%	
	Reproduction C-LOEC		>100%	
	Reproduction IC25		>100%	
	Reproduction IC50		>100%	
	Reportable C-NOEC		100%	
	Reportable C-LOEC		>100%	
	MATC		>100%	
	TUc	≤ 1.0	1.0	Pass

Presence of an asterisk (*) indicates qualified data, see explanation in the "Results Discussion" section at the bottom of the following page.

Test Variability

Reproduction PMSD: 8.75% Upper & Lower EPA bounds: 13 - 47% ☑ Low ☐ Within bounds ☐ High

☐ PMSD exceeds upper bounds. Test results are highly variable and may not be sensitive enough to determine the presence of toxicity at the permit limit concentration (PLC)

☐ The PMSD falls within the upper (47%) and lower (13%) bounds. Results are reportable.

☑ PMSD falls below the lower bound test variability criterion. The test is very sensitive. The relative percent difference (RPD) between the control and each treatment was calculated and compared to the lower bound.

- ☐ The RPD values for all concentrations fall below the lower bound. Any differences observed in this test are considered statistically insignificant.
- ☐ Some of the concentrations that were flagged as statistically significant have RPD values that fall below the lower bound. Any differences observed in these concentrations will not be considered statistically significantly decreased from the control.
- ☑ No statistically significant reductions were observed in this test.

Ceriodaphnia dubia Test Results

Permittee name: West Valley Demonstration Project Permit number: NY0000973

Client sample ID: Outfall 001 Test Dates: 5/3/24 - 5/10/24

Concentration - Response Evaluation

Survival: #12 No significant effects at any test concentration with a flat concentration-response curve. Test concentrations performed very similarly to dilution control.

Reproduction: #12 No significant effects at any test concentration with a relatively flat concentration-response curve. Test concentrations performed both above and below (but similarly to) the dilution control.

The concentration - response relationship was reviewed and the following determination was made:

Survival	Reproduction	
X	X	Results are reliable and reportable
		Results are anomalous (see explanation below)
		Results are inconclusive - retest (see explanation below)

Results Discussion (if applicable):

TEST METHODS

Ceriodaphnia dubia

Test type:	Modified Chronic Static Renewal Freshwater Test
Test Reference Manual:	EPA-821-R-02-013 "Short-Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Water to Freshwater Organisms"
Test Method:	*Ceriodaphnia dubia* Survival and Reproduction Test - EPA 1002.0
Temperature:	25 ˚C ± 1˚C (Temperatures should not deviate by more than 3˚C during the test) (required)
Light Quality:	Ambient Laboratory Illumination (recommended)
Light Intensity:	10-20 µE/m2/s, or 50-100 ft-c (recommended)
Photoperiod:	16 hours light, 8 hours dark (recommended)
Test chamber size:	30 mL (recommended minimum)
Test solution volume:	15 mL (recommended minimum)
Renewal of Test Solutions:	Daily (required)
Age of Test Organisms:	Less than 24 hours; and all released within a 8-h period (required)
Number of Neonates Per Test Chamber:	1 Assigned using blocking by known parentage (required)
Number of Replicate Test Chambers Per Treatment:	10 (required minimum)
Number of Neonates Per Test Concentration:	10 (required minimum)
Feeding Regime:	Fed 0.1 mL each of YCT and algal suspension per exposure chamber daily. (recommended)
Cleaning:	Use new plastic cups daily (recommended)
Aeration:	None (recommended)
Test Duration:	Until 60% or more of control females have three broods (maximum test duration 8 days) (required)
Endpoints:	Survival and reproduction (required)
Test Acceptability:	80% or greater survival of all control organisms and an average of 15 or more young per surviving female in the control solutions. 60% of surviving control females must produce three broods. (required)
Sampling Requirements:	See note on General Test Conditions page of report
Sample volume required:	1 L/Day (recommended)

CERIODAPHNIA DUBIA
DATASHEETS & STATISTICAL ANALYSIS

NEW ENGLAND BIOASSAY TOXICITY DATA FORM
CHRONIC COVER SHEET

CLIENT:	Test America	*C.dubia* TEST ID #	24-771
ADDRESS:	10 Hazelwood Drive	CHAIN OF CUSTODY #	C44-2575/76
	Amherst, NY 14228	NEB PROJECT #	44240
PERMITTEE:	West Valley Demonstration Project	SAMPLE ID:	Outfall 001
PERMIT NUMBER:	NY0000973		
DILUTION WATER:	Erdman Brook		

INVERTEBRATES

TEST SET-UP TECHNICIAN:	KO
TEST SPECIES:	*Ceriodaphnia dubia*
NEB LOT #	Cd24(RMH 115)
AGE:	< 24 hours
TEST SOLUTION VOLUME (mls):	15
ORGANISMS PER TEST CHAMBER:	1
ORGANISMS PER CONCENTRATION:	10

LABORATORY CONTROL WATER (MHRCF)

Lot Number	Hardness mg/L $CaCO_3$	Alkalinity mg/L $CaCO_3$
C44-MH012	90	61

	DATE	TIME
TEST START:	5/3/24	1239
TEST END:	5/10/24	1302

COMMENTS:

FILTRATION: The following were filtered prior to use through a 55 µm mesh filter due to the presence of organisms:

Sample:			
Date/Tech:			

REVIEWED BY: Kimberly Wills DATE: 6/3/24

NEW ENGLAND BIOASSAY - CHRONIC TOXICITY TEST BROOD DATA SHEET

FACILITY NAME & ADDRESS:	West Valley Demonstration Project WSNP001, 10282 Rock Springs Rd West Valley NY		
NEB PROJECT NUMBER: 44240	NEB TEST NUMBER: 24-771		COC # C44-2575/76
TEST ORGANISM: *Ceriodaphnia dubia*	AGE: <24 hours		Lot # Cd24(RMH 115)
START DATE: 5/3/24	TIME: 1239	END DATE: 5/10/24	TIME: 1302

Effluent Concentration	Day Number	Culture Lot# Cd24(RMH 115) Cup # A2	A3	A5	A6	A7	A9	A11	A15	A16	A17	Total Live Young	# Live Adults	Analyst-Transfer	Analyst-Counts
		Replicate A	B	C	D	E	F	G	H	I	J				
NEB Lab Control	0	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	0	10	KO	
	1	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	0	10	KO	
	2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	0	10	KO	
	3	✓	✓	✓	✓	✓	6	6	✓	✓	7	19	10	GP	GP
	4	7	7	7	8	6	✓	✓	5	9	✓	49	10	DB	DB
	5	11	14	16	15	16	16	14	14	13	15	144	10	JG	JG
	6	19	19	26	22	19	28	24	24	22	22	225	10	SK/DB	SK/DB
	7	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	0	10	PD	PD
	totals	37	40	49	45	41	50	44	43	44	44	437	10		MC
Erdman Brook Diluent		A	B	C	D	E	F	G	H	I	J				
	0	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	0	10		
	1	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	0	10		
	2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	0	10		
	3	7	7	8	✓	✓	6	7	✓	✓	3	38	10		
	4	✓	✓	✓	7	7	1	✓	8	6	✓	29	10		
	5	16	20	19	16	16	20	15	17	18	15	172	10		
	6	24	25	21	26	22	29	22	24	27	25	245	10		
	7	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	0	10		
	totals	47	52	48	49	45	56	44	49	51	43	484	10		
6.25%		A	B	C	D	E	F	G	H	I	J				
	0	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	0	10		
	1	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	0	10		
	2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	0	10		
	3	✓	7	7	7	✓	8	✓	✓	✓	8	37	10		
	4	8	✓	✓	✓	8	✓	8	6	8	✓	38	10		
	5	20	21	18	17	19	16	11	18	19	19	178	10		
	6	26	25	27	25	22	26	29	21	23	27	251	10		
	7	✓	✓	✓	✓	✓	✓	✓/x	✓	✓	✓	0	9		
	totals	54	53	52	49	49	50	48	45	50	54	504	9		

Notes: _____

NEW ENGLAND BIOASSAY - CHRONIC TOXICITY TEST BROOD DATA SHEET

FACILITY NAME & ADDRESS:	West Valley Demonstration Project WSNP001, 10282 Rock Springs Rd West Valley NY		
NEB PROJECT NUMBER:	44240	ORGANISM: *Ceriodaphnia dubia*	START DATE: 5/3/24

Effluent Concentration	Day Number	Replicate A	B	C	D	E	F	G	H	I	J	Total Live Young	# Live Adults		
12.5%	0	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	0	10		
	1	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	0	10		
	2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	0	10		
	3	✓	8	7	✓	✓	8	8	8	7	9	55	10		
	4	7	✓	✓	6	5	✓	✓	✓	✓	✓	18	10		
	5	22	17	16	16	18	18	20	16	18	17	178	10		
	6	18	24	25	26	24	25	25	23	23	24	237	10		
	7	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	0	10		
	totals	47	49	48	48	47	51	53	47	48	50	488	10		
25%		A	B	C	D	E	F	G	H	I	J				
	0	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	0	10		
	1	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	0	10		
	2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	0	10		
	3	✓	7	✓	✓	✓	7	8	✓	✓	6	28	10		
	4	6	✓	7	7	7	✓	✓	6	8	✓	41	10		
	5	18	20	18	18	16	16	12	17	17	16	168	10		
	6	20	24	21	24	20	22	28	21	22	25	227	10		
	7	✓	✓	✓	✓	✓	✓	✓	✓	1	✓	1	10		
	totals	44	51	46	49	43	45	48	44	48	47	465	10		
50%		A	B	C	D	E	F	G	H	I	J				
	0	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	0	10		
	1	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	0	10		
	2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	0	10		
	3	✓	7	7	✓	✓	10	7	✓	✓	8	39	10		
	4	3	✓	✓	7	6	✓	✓	8	6	✓	30	10		
	5	4	17	16	16	17	16	18	13	18	8	143	10		
	6	23	9	21	22	19	26	22	24	22	16	204	10		
	7	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	0	10		
	totals	30	33	44	45	42	52	47	45	46	32	416	10		
100%		A	B	C	D	E	F	G	H	I	J				
	0	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	0	10		
	1	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	0	10		
	2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	0	10		
	3	✓	8	8	6	✓	7	7	✓	✓	7	43	10		
	4	6	✓	✓	✓	9	✓	✓	6	5	✓	26	10		
	5	19	18	19	14	20	23	16	18	20	17	184	10		
	6	24	18	24	23	21	26	25	24	26	22	233	10		
	7	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	0	10		
	totals	49	44	51	43	50	56	48	48	51	46	486	10		

CETIS Analytical Report

Ceriodaphnia 7-d Survival and Reproduction Test — **New England Bioassay**

Analysis ID:	05-3125-2950	**Endpoint:**	2d Survival Rate	**CETIS Version:**	CETISv2.1.4
Analyzed:	16 May-24 8:31	**Analysis:**	Linear Interpolation (ICPIN)	**Status Level:**	1
Edit Date:	16 May-24 8:30	**MD5 Hash:**	521A0DF2AE1E59D72392DBABE0C7AEF	**Editor ID:**	008-848-998-5
Batch ID:	19-8017-2143	**Test Type:**	Reproduction-Survival (7d)	**Analyst:**	
Start Date:	03 May-24 12:39	**Protocol:**	EPA/821/R-02-013 (2002)	**Diluent:**	Receiving Water
Ending Date:	10 May-24 13:02	**Species:**	Ceriodaphnia dubia	**Brine:**	Not Applicable
Test Length:	7d 0h	**Taxon:**	Branchiopoda	**Source:**	In-House Culture **Age:** <24
Sample ID:	15-5819-8449	**Code:**	5CE038B1	**Project:**	
Sample Date:	02 May-24 12:00	**Material:**	Not Applicable	**Source:**	West Valley Demonstration Project (N
Receipt Date:	03 May-24 08:26	**CAS (PC):**		**Station:**	
Sample Age:	25h	**Client:**	Eurofins		

Linear Interpolation Options

X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Log(X)	Linear	1510128	200	Yes	Two-Point Interpolation

Point Estimates

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

2d Survival Rate Summary

			Calculated Variate(A/B)							Isotonic Variate	
Conc-%	Code	Count	Mean	Median	Min	Max	CV%	%Effect	ΣA/ΣB	Mean	%Effect
0	D	10	1.0000	1.0000	1.0000	1.0000	0.00%	0.00%	10/10	1.0000	0.00%
6.25		10	1.0000	1.0000	1.0000	1.0000	0.00%	0.00%	10/10	1.0000	0.00%
12.5		10	1.0000	1.0000	1.0000	1.0000	0.00%	0.00%	10/10	1.0000	0.00%
25		10	1.0000	1.0000	1.0000	1.0000	0.00%	0.00%	10/10	1.0000	0.00%
50		10	1.0000	1.0000	1.0000	1.0000	0.00%	0.00%	10/10	1.0000	0.00%
100		10	1.0000	1.0000	1.0000	1.0000	0.00%	0.00%	10/10	1.0000	0.00%

2d Survival Rate Detail

Conc-%	Code	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	D	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
6.25		1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
12.5		1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
25		1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
50		1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
100		1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000

2d Survival Rate Binomials

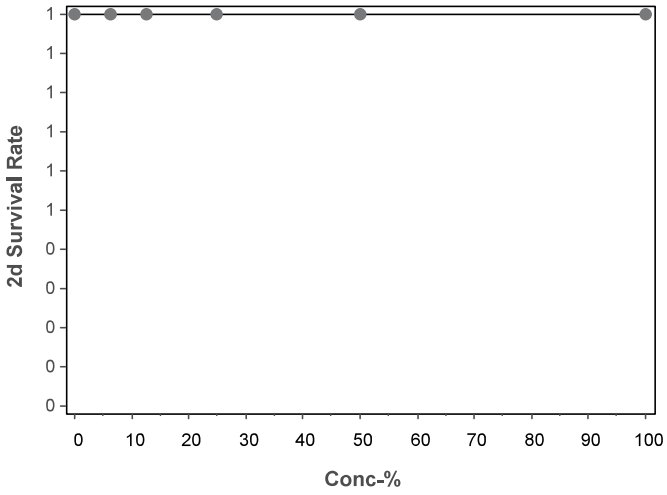
Conc-%	Code	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	D	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
6.25		1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
12.5		1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
25		1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
50		1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
100		1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1

CETIS Analytical Report

Ceriodaphnia 7-d Survival and Reproduction Test **New England Bioassay**

Analysis ID:	05-3125-2950	**Endpoint:**	2d Survival Rate	**CETIS Version:**	CETISv2.1.4
Analyzed:	16 May-24 8:31	**Analysis:**	Linear Interpolation (ICPIN)	**Status Level:**	1
Edit Date:	16 May-24 8:30	**MD5 Hash:**	521A0DF2AE1E59D72392DBABE0C7AEF	**Editor ID:**	008-848-998-5

Graphics



CETIS Analytical Report

Ceriodaphnia 7-d Survival and Reproduction Test — **New England Bioassay**

Analysis ID:	16-7396-8263	**Endpoint:**	2d Survival Rate	**CETIS Version:**	CETISv2.1.4
Analyzed:	16 May-24 8:31	**Analysis:**	STP 2xK Contingency Tables	**Status Level:**	1
Edit Date:	16 May-24 8:30	**MD5 Hash:**	521A0DF2AE1E59D72392DBABE0C7AEF	**Editor ID:**	008-848-998-5
Batch ID:	19-8017-2143	**Test Type:**	Reproduction-Survival (7d)	**Analyst:**	
Start Date:	03 May-24 12:39	**Protocol:**	EPA/821/R-02-013 (2002)	**Diluent:**	Receiving Water
Ending Date:	10 May-24 13:02	**Species:**	Ceriodaphnia dubia	**Brine:**	Not Applicable
Test Length:	7d 0h	**Taxon:**	Branchiopoda	**Source:**	In-House Culture **Age:** <24
Sample ID:	15-5819-8449	**Code:**	5CE038B1	**Project:**	
Sample Date:	02 May-24 12:00	**Material:**	Not Applicable	**Source:**	West Valley Demonstration Project (N
Receipt Date:	03 May-24 08:26	**CAS (PC):**		**Station:**	
Sample Age:	25h	**Client:**	Eurofins		

Data Transform	Alt Hyp	NOEL	LOEL	TOEL	Tox Units
Untransformed	C > T	100	>100	---	1

Fisher Exact/Bonferroni-Holm Test

Control	vs	Conc-%	Test Stat	P-Type	P-Value	Decision(α:5%)
Dilution Water		6.25	1.0000	Exact	1.0000	Non-Significant Effect
		12.5	1.0000	Exact	1.0000	Non-Significant Effect
		25	1.0000	Exact	1.0000	Non-Significant Effect
		50	1.0000	Exact	1.0000	Non-Significant Effect
		100	1.0000	Exact	1.0000	Non-Significant Effect

2d Survival Rate Frequencies

Conc-%	Code	NR	R	NR + R	Prop NR	Prop R	%Effect
0	D	10	0	10	1.0000	0.0000	0.00%
6.25		10	0	10	1.0000	0.0000	0.00%
12.5		10	0	10	1.0000	0.0000	0.00%
25		10	0	10	1.0000	0.0000	0.00%
50		10	0	10	1.0000	0.0000	0.00%
100		10	0	10	1.0000	0.0000	0.00%

2d Survival Rate Summary

Conc-%	Code	Count	Mean	95% LCL	95% UCL	Median	Min	Max	Std Err	CV%	%Effect
0	D	10	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000	0.00%	0.00%
6.25		10	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000	0.00%	0.00%
12.5		10	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000	0.00%	0.00%
25		10	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000	0.00%	0.00%
50		10	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000	0.00%	0.00%
100		10	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000	0.00%	0.00%

2d Survival Rate Detail

Conc-%	Code	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	D	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
6.25		1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
12.5		1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
25		1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
50		1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
100		1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000

CETIS Analytical Report

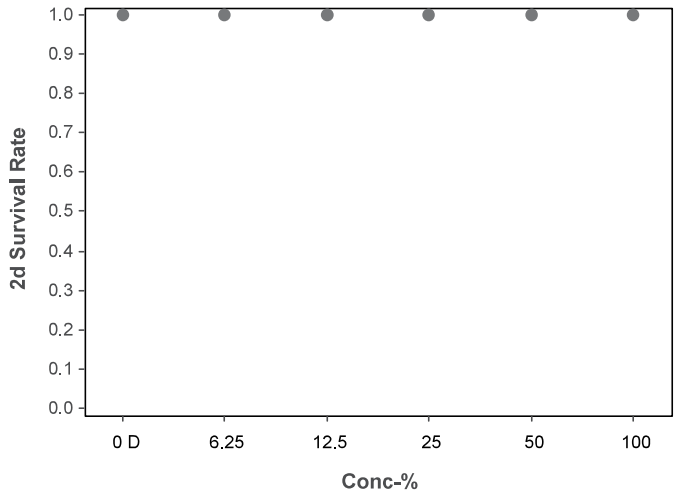
Ceriodaphnia 7-d Survival and Reproduction Test **New England Bioassay**

Analysis ID:	16-7396-8263	**Endpoint:**	2d Survival Rate	**CETIS Version:**	CETISv2.1.4
Analyzed:	16 May-24 8:31	**Analysis:**	STP 2xK Contingency Tables	**Status Level:**	1
Edit Date:	16 May-24 8:30	**MD5 Hash:**	521A0DF2AE1E59D72392DBABE0C7AEF	**Editor ID:**	008-848-998-5

2d Survival Rate Binomials

Conc-%	Code	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	D	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
6.25		1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
12.5		1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
25		1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
50		1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
100		1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1

Graphics



CETIS Analytical Report

Ceriodaphnia 7-d Survival and Reproduction Test — **New England Bioassay**

Analysis ID:	06-8153-2060	**Endpoint:**	7d Survival Rate	**CETIS Version:**	CETISv2.1.4
Analyzed:	16 May-24 8:31	**Analysis:**	Linear Interpolation (ICPIN)	**Status Level:**	1
Edit Date:	16 May-24 8:30	**MD5 Hash:**	6E152646E9EC44CF78580B7DF946776F	**Editor ID:**	008-848-998-5
Batch ID:	19-8017-2143	**Test Type:**	Reproduction-Survival (7d)	**Analyst:**	
Start Date:	03 May-24 12:39	**Protocol:**	EPA/821/R-02-013 (2002)	**Diluent:**	Receiving Water
Ending Date:	10 May-24 13:02	**Species:**	Ceriodaphnia dubia	**Brine:**	Not Applicable
Test Length:	7d 0h	**Taxon:**	Branchiopoda	**Source:**	In-House Culture **Age:** <24
Sample ID:	15-5819-8449	**Code:**	5CE038B1	**Project:**	
Sample Date:	02 May-24 12:00	**Material:**	Not Applicable	**Source:**	West Valley Demonstration Project (N
Receipt Date:	03 May-24 08:26	**CAS (PC):**		**Station:**	
Sample Age:	25h	**Client:**	Eurofins		

Linear Interpolation Options

X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Log(X)	Linear	1270724	200	Yes	Two-Point Interpolation

Test Acceptability Criteria

		TAC Limits			
Attribute	**Test Stat**	**Lower**	**Upper**	**Overlap**	**Decision**
Control Resp	1	0.8	<<	Yes	Passes Criteria

Point Estimates

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

7d Survival Rate Summary

			Calculated Variate(A/B)							Isotonic Variate	
Conc-%	**Code**	**Count**	**Mean**	**Median**	**Min**	**Max**	**CV%**	**%Effect**	**ΣA/ΣB**	**Mean**	**%Effect**
0	D	10	1.0000	1.0000	1.0000	1.0000	0.00%	0.00%	10/10	1.0000	0.00%
6.25		10	0.9000	1.0000	0.0000	1.0000	35.14%	10.00%	9/10	0.9800	2.00%
12.5		10	1.0000	1.0000	1.0000	1.0000	0.00%	0.00%	10/10	0.9800	2.00%
25		10	1.0000	1.0000	1.0000	1.0000	0.00%	0.00%	10/10	0.9800	2.00%
50		10	1.0000	1.0000	1.0000	1.0000	0.00%	0.00%	10/10	0.9800	2.00%
100		10	1.0000	1.0000	1.0000	1.0000	0.00%	0.00%	10/10	0.9800	2.00%

7d Survival Rate Detail

Conc-%	Code	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	D	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
6.25		1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000	1.0000	1.0000	1.0000
12.5		1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
25		1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
50		1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
100		1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000

7d Survival Rate Binomials

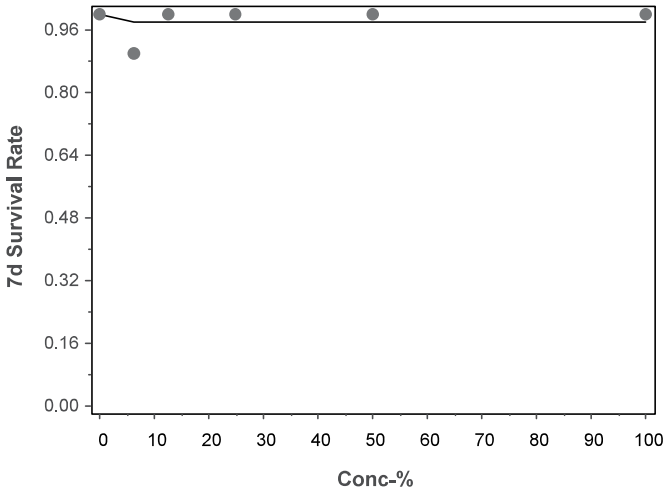
Conc-%	Code	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	D	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
6.25		1/1	1/1	1/1	1/1	1/1	1/1	0/1	1/1	1/1	1/1
12.5		1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
25		1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
50		1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
100		1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1

CETIS Analytical Report

Ceriodaphnia 7-d Survival and Reproduction Test **New England Bioassay**

Analysis ID:	06-8153-2060	**Endpoint:**	7d Survival Rate	**CETIS Version:**	CETISv2.1.4
Analyzed:	16 May-24 8:31	**Analysis:**	Linear Interpolation (ICPIN)	**Status Level:**	1
Edit Date:	16 May-24 8:30	**MD5 Hash:**	6E152646E9EC44CF78580B7DF946776F	**Editor ID:**	008-848-998-5

Graphics



CETIS Analytical Report

Ceriodaphnia 7-d Survival and Reproduction Test — **New England Bioassay**

Analysis ID:	00-6184-0369	**Endpoint:**	7d Survival Rate	**CETIS Version:**	CETISv2.1.4
Analyzed:	16 May-24 8:31	**Analysis:**	STP 2xK Contingency Tables	**Status Level:**	1
Edit Date:	16 May-24 8:30	**MD5 Hash:**	6E152646E9EC44CF78580B7DF946776F	**Editor ID:**	008-848-998-5
Batch ID:	19-8017-2143	**Test Type:**	Reproduction-Survival (7d)	**Analyst:**	
Start Date:	03 May-24 12:39	**Protocol:**	EPA/821/R-02-013 (2002)	**Diluent:**	Receiving Water
Ending Date:	10 May-24 13:02	**Species:**	Ceriodaphnia dubia	**Brine:**	Not Applicable
Test Length:	7d 0h	**Taxon:**	Branchiopoda	**Source:**	In-House Culture **Age:** <24
Sample ID:	15-5819-8449	**Code:**	5CE038B1	**Project:**	
Sample Date:	02 May-24 12:00	**Material:**	Not Applicable	**Source:**	West Valley Demonstration Project (N
Receipt Date:	03 May-24 08:26	**CAS (PC):**		**Station:**	
Sample Age:	25h	**Client:**	Eurofins		

Data Transform	Alt Hyp	NOEL	LOEL	TOEL	Tox Units
Untransformed	C > T	100	>100	---	1

Fisher Exact/Bonferroni-Holm Test

Control	vs	Conc-%	Test Stat	P-Type	P-Value	Decision(α:5%)
Dilution Water		6.25	0.5000	Exact	1.0000	Non-Significant Effect
		12.5	1.0000	Exact	1.0000	Non-Significant Effect
		25	1.0000	Exact	1.0000	Non-Significant Effect
		50	1.0000	Exact	1.0000	Non-Significant Effect
		100	1.0000	Exact	1.0000	Non-Significant Effect

Test Acceptability Criteria

		TAC Limits			
Attribute	Test Stat	Lower	Upper	Overlap	Decision
Control Resp	1	0.8	<<	Yes	Passes Criteria

7d Survival Rate Frequencies

Conc-%	Code	NR	R	NR + R	Prop NR	Prop R	%Effect
0	D	10	0	10	1.0000	0.0000	0.00%
6.25		9	1	10	0.9000	0.1000	10.00%
12.5		10	0	10	1.0000	0.0000	0.00%
25		10	0	10	1.0000	0.0000	0.00%
50		10	0	10	1.0000	0.0000	0.00%
100		10	0	10	1.0000	0.0000	0.00%

7d Survival Rate Summary

Conc-%	Code	Count	Mean	95% LCL	95% UCL	Median	Min	Max	Std Err	CV%	%Effect
0	D	10	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000	0.00%	0.00%
6.25		10	0.9000	0.6738	1.0000	1.0000	0.0000	1.0000	0.1000	35.14%	10.00%
12.5		10	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000	0.00%	0.00%
25		10	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000	0.00%	0.00%
50		10	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000	0.00%	0.00%
100		10	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000	0.00%	0.00%

7d Survival Rate Detail

Conc-%	Code	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	D	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
6.25		1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000	1.0000	1.0000	1.0000
12.5		1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
25		1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
50		1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
100		1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000

CETIS Analytical Report

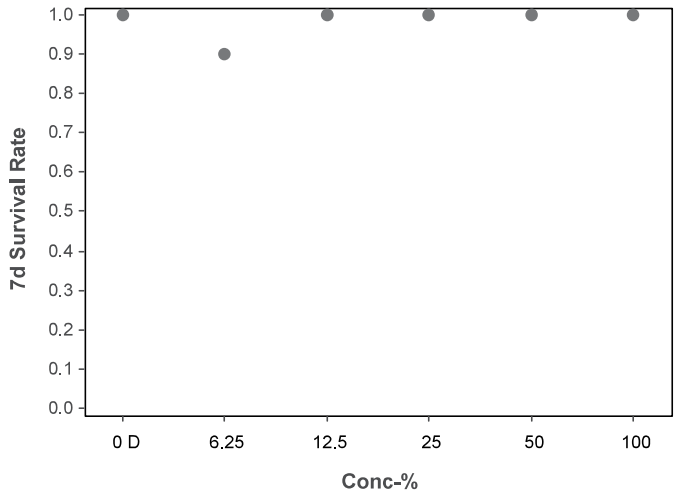
Ceriodaphnia 7-d Survival and Reproduction Test **New England Bioassay**

Analysis ID:	00-6184-0369	**Endpoint:**	7d Survival Rate	**CETIS Version:**	CETISv2.1.4
Analyzed:	16 May-24 8:31	**Analysis:**	STP 2xK Contingency Tables	**Status Level:**	1
Edit Date:	16 May-24 8:30	**MD5 Hash:**	6E152646E9EC44CF78580B7DF946776F	**Editor ID:**	008-848-998-5

7d Survival Rate Binomials

Conc-%	Code	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	D	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
6.25		1/1	1/1	1/1	1/1	1/1	1/1	0/1	1/1	1/1	1/1
12.5		1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
25		1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
50		1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
100		1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1

Graphics



CETIS Analytical Report

Ceriodaphnia 7-d Survival and Reproduction Test — **New England Bioassay**

Analysis ID:	14-0804-1919	**Endpoint:**	7d Survival Rate	**CETIS Version:**	CETISv2.1.4
Analyzed:	16 May-24 8:31	**Analysis:**	Linear Interpolation (ICPIN)	**Status Level:**	1
Edit Date:	16 May-24 8:30	**MD5 Hash:**	6E152646E9EC44CF78580B7DF946776F	**Editor ID:**	008-848-998-5
Batch ID:	19-8017-2143	**Test Type:**	Reproduction-Survival (7d)	**Analyst:**	
Start Date:	03 May-24 12:39	**Protocol:**	EPA/821/R-02-013 (2002)	**Diluent:**	Receiving Water
Ending Date:	10 May-24 13:02	**Species:**	Ceriodaphnia dubia	**Brine:**	Not Applicable
Test Length:	7d 0h	**Taxon:**	Branchiopoda	**Source:**	In-House Culture **Age:** <24
Sample ID:	15-5819-8449	**Code:**	5CE038B1	**Project:**	
Sample Date:	02 May-24 12:00	**Material:**	Not Applicable	**Source:**	West Valley Demonstration Project (N
Receipt Date:	03 May-24 08:26	**CAS (PC):**		**Station:**	
Sample Age:	25h	**Client:**	Eurofins		

Linear Interpolation Options

X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Linear	Linear	345357	200	Yes	Two-Point Interpolation

Test Acceptability Criteria

		TAC Limits			
Attribute	**Test Stat**	**Lower**	**Upper**	**Overlap**	**Decision**
Control Resp	1	0.8	<<	Yes	Passes Criteria

Point Estimates

Level	%	95% LCL	95% UCL	Tox Units	95% LCL	95% UCL
LC25	>100	---	---	<1	---	---

7d Survival Rate Summary

			Calculated Variate(A/B)							Isotonic Variate	
Conc-%	**Code**	**Count**	**Mean**	**Median**	**Min**	**Max**	**CV%**	**%Effect**	**ΣA/ΣB**	**Mean**	**%Effect**
0	D	10	1.0000	1.0000	1.0000	1.0000	0.00%	0.00%	10/10	1.0000	0.00%
6.25		10	0.9000	1.0000	0.0000	1.0000	35.14%	10.00%	9/10	0.9800	2.00%
12.5		10	1.0000	1.0000	1.0000	1.0000	0.00%	0.00%	10/10	0.9800	2.00%
25		10	1.0000	1.0000	1.0000	1.0000	0.00%	0.00%	10/10	0.9800	2.00%
50		10	1.0000	1.0000	1.0000	1.0000	0.00%	0.00%	10/10	0.9800	2.00%
100		10	1.0000	1.0000	1.0000	1.0000	0.00%	0.00%	10/10	0.9800	2.00%

7d Survival Rate Detail

Conc-%	Code	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	D	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
6.25		1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000	1.0000	1.0000	1.0000
12.5		1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
25		1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
50		1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
100		1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000

7d Survival Rate Binomials

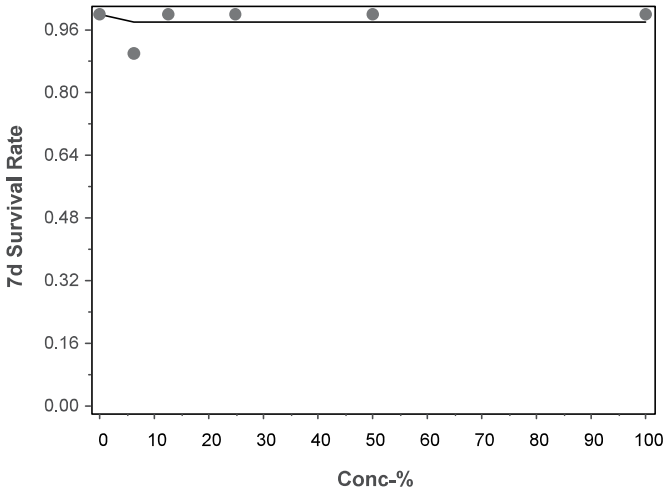
Conc-%	Code	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	D	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
6.25		1/1	1/1	1/1	1/1	1/1	1/1	0/1	1/1	1/1	1/1
12.5		1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
25		1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
50		1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
100		1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1

CETIS Analytical Report

Ceriodaphnia 7-d Survival and Reproduction Test **New England Bioassay**

Analysis ID:	14-0804-1919	**Endpoint:**	7d Survival Rate	**CETIS Version:**	CETISv2.1.4
Analyzed:	16 May-24 8:31	**Analysis:**	Linear Interpolation (ICPIN)	**Status Level:**	1
Edit Date:	16 May-24 8:30	**MD5 Hash:**	6E152646E9EC44CF78580B7DF946776F	**Editor ID:**	008-848-998-5

Graphics



CETIS Analytical Report

Ceriodaphnia 7-d Survival and Reproduction Test — **New England Bioassay**

Analysis ID:	18-2051-4494	**Endpoint:**	Reproduction	**CETIS Version:**	CETISv2.1.4
Analyzed:	16 May-24 8:32	**Analysis:**	Nonparametric-Control vs Treatments	**Status Level:**	1
Edit Date:	16 May-24 8:30	**MD5 Hash:**	7D44A54489328390A426B5AB11F5717B	**Editor ID:**	008-848-998-5
Batch ID:	19-8017-2143	**Test Type:**	Reproduction-Survival (7d)	**Analyst:**	
Start Date:	03 May-24 12:39	**Protocol:**	EPA/821/R-02-013 (2002)	**Diluent:**	Receiving Water
Ending Date:	10 May-24 13:02	**Species:**	Ceriodaphnia dubia	**Brine:**	Not Applicable
Test Length:	7d 0h	**Taxon:**	Branchiopoda	**Source:**	In-House Culture **Age:** <24
Sample ID:	15-5819-8449	**Code:**	5CE038B1	**Project:**	
Sample Date:	02 May-24 12:00	**Material:**	Not Applicable	**Source:**	West Valley Demonstration Project (N
Receipt Date:	03 May-24 08:26	**CAS (PC):**		**Station:**	
Sample Age:	25h	**Client:**	Eurofins		

Data Transform	Alt Hyp	NOEL	LOEL	TOEL	Tox Units	MSDu	PMSD
Untransformed	C > T	100	>100	---	1	4.234	8.75%

Steel Many-One Rank Sum Test

Control	vs	Conc-%	df	Test Stat	Critical	Ties	P-Type	P-Value	Decision(α:5%)
Dilution Water		6.25	18	123.5	75	4	CDF	0.9960	Non-Significant Effect
		12.5	18	108.5	75	4	CDF	0.9005	Non-Significant Effect
		25	18	90	75	7	CDF	0.3541	Non-Significant Effect
		50	18	76.5	75	4	CDF	0.0601	Non-Significant Effect
		100	18	106.5	75	6	CDF	0.8650	Non-Significant Effect

Test Acceptability Criteria

		TAC Limits			
Attribute	**Test Stat**	**Lower**	**Upper**	**Overlap**	**Decision**
Control Resp	48.4	15	<<	Yes	Passes Criteria
PMSD	0.08748	0.13	0.47	Yes	Below Criteria

ANOVA Table

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(α:5%)
Between	478.483	95.6967	5	5.594	0.0003	Significant Effect
Error	923.7	17.1056	54			
Total	1402.18		59			

ANOVA Assumptions Tests

Attribute	Test	Test Stat	Critical	P-Value	Decision(α:1%)
Variance	Bartlett Equality of Variance Test	19.69	15.09	0.0014	Unequal Variances
Distribution	Shapiro-Wilk W Normality Test	0.9754	0.9459	0.2645	Normal Distribution

Reproduction Summary

Conc-%	Code	Count	Mean	95% LCL	95% UCL	Median	Min	Max	Std Err	CV%	%Effect
0	D	10	48.4	45.57	51.23	48.67	43	56	1.249	8.16%	0.00%
6.25		10	50.4	48.34	52.46	50	45	54	0.9092	5.70%	-4.13%
12.5		10	48.8	47.38	50.22	48	47	53	0.6289	4.08%	-0.83%
25		10	46.5	44.68	48.32	46.5	43	51	0.8062	5.48%	3.93%
50		10	41.6	36.34	46.86	44.67	30	52	2.325	17.67%	14.05%
100		10	48.6	45.9	51.3	48.33	43	56	1.194	7.77%	-0.41%

Reproduction Detail

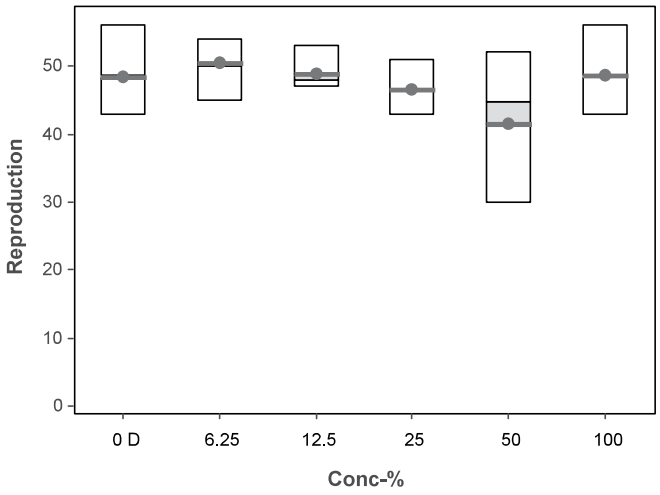
Conc-%	Code	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	D	47	52	48	49	45	56	44	49	51	43
6.25		54	53	52	49	49	50	48	45	50	54
12.5		47	49	48	48	47	51	53	47	48	50
25		44	51	46	49	43	45	48	44	48	47
50		30	33	44	45	42	52	47	45	46	32
100		49	44	51	43	50	56	48	48	51	46

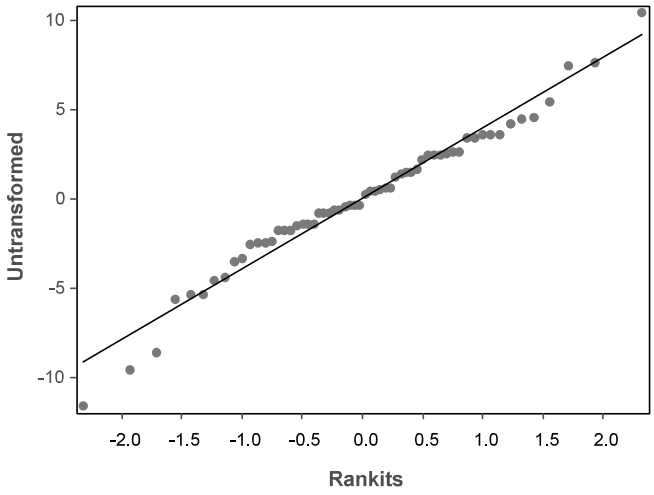
CETIS Analytical Report

Ceriodaphnia 7-d Survival and Reproduction Test **New England Bioassay**

Analysis ID:	18-2051-4494	**Endpoint:**	Reproduction	**CETIS Version:**	CETISv2.1.4
Analyzed:	16 May-24 8:32	**Analysis:**	Nonparametric-Control vs Treatments	**Status Level:**	1
Edit Date:	16 May-24 8:30	**MD5 Hash:**	7D44A54489328390A426B5AB11F5717B	**Editor ID:**	008-848-998-5

Graphics





CETIS Analytical Report

Ceriodaphnia 7-d Survival and Reproduction Test — **New England Bioassay**

Analysis ID:	07-3487-3319	**Endpoint:**	Reproduction	**CETIS Version:**	CETISv2.1.4
Analyzed:	16 May-24 8:32	**Analysis:**	Linear Interpolation (ICPIN)	**Status Level:**	1
Edit Date:	16 May-24 8:30	**MD5 Hash:**	7D44A54489328390A426B5AB11F5717B	**Editor ID:**	008-848-998-5
Batch ID:	19-8017-2143	**Test Type:**	Reproduction-Survival (7d)	**Analyst:**	
Start Date:	03 May-24 12:39	**Protocol:**	EPA/821/R-02-013 (2002)	**Diluent:**	Receiving Water
Ending Date:	10 May-24 13:02	**Species:**	Ceriodaphnia dubia	**Brine:**	Not Applicable
Test Length:	7d 0h	**Taxon:**	Branchiopoda	**Source:**	In-House Culture **Age:** <24
Sample ID:	15-5819-8449	**Code:**	5CE038B1	**Project:**	
Sample Date:	02 May-24 12:00	**Material:**	Not Applicable	**Source:**	West Valley Demonstration Project (N
Receipt Date:	03 May-24 08:26	**CAS (PC):**		**Station:**	
Sample Age:	25h	**Client:**	Eurofins		

Linear Interpolation Options

X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Linear	Linear	1251009	200	Yes	Two-Point Interpolation

Test Acceptability Criteria

		TAC Limits			
Attribute	**Test Stat**	**Lower**	**Upper**	**Overlap**	**Decision**
Control Resp	48.4	15	<<	Yes	Passes Criteria

Point Estimates

Level	%	95% LCL	95% UCL	Tox Units	95% LCL	95% UCL
IC25	>100	---	---	<1	---	---
IC50	>100	---	---	<1	---	---

Reproduction Summary			Calculated Variate						Isotonic Variate	
Conc-%	**Code**	**Count**	**Mean**	**Median**	**Min**	**Max**	**CV%**	**%Effect**	**Mean**	**%Effect**
0	D	10	48.4	48.67	43	56	8.16%	0.00%	49.4	0.00%
6.25		10	50.4	50	45	54	5.70%	-4.13%	49.4	0.00%
12.5		10	48.8	48	47	53	4.08%	-0.83%	48.8	1.21%
25		10	46.5	46.5	43	51	5.48%	3.93%	46.5	5.87%
50		10	41.6	44.67	30	52	17.67%	14.05%	45.1	8.70%
100		10	48.6	48.33	43	56	7.77%	-0.41%	45.1	8.70%

Reproduction Detail

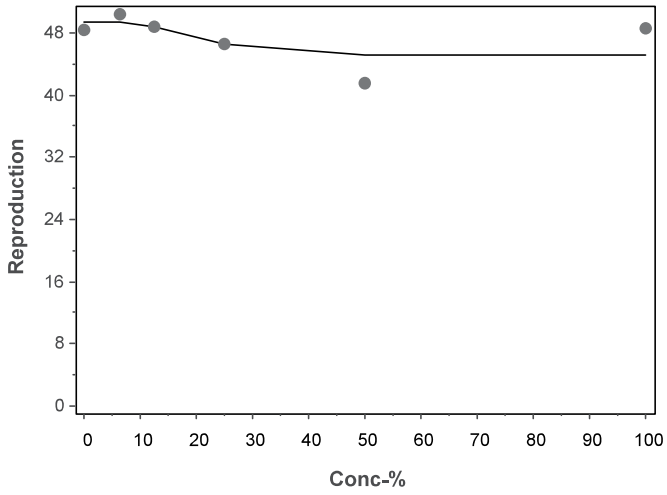
Conc-%	Code	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	D	47	52	48	49	45	56	44	49	51	43
6.25		54	53	52	49	49	50	48	45	50	54
12.5		47	49	48	48	47	51	53	47	48	50
25		44	51	46	49	43	45	48	44	48	47
50		30	33	44	45	42	52	47	45	46	32
100		49	44	51	43	50	56	48	48	51	46

CETIS Analytical Report

Ceriodaphnia 7-d Survival and Reproduction Test **New England Bioassay**

Analysis ID:	07-3487-3319	**Endpoint:**	Reproduction	**CETIS Version:**	CETISv2.1.4
Analyzed:	16 May-24 8:32	**Analysis:**	Linear Interpolation (ICPIN)	**Status Level:**	1
Edit Date:	16 May-24 8:30	**MD5 Hash:**	7D44A54489328390A426B5AB11F5717B	**Editor ID:**	008-848-998-5

Graphics



NEB'S DATA SHEET FOR ROUTINE CHEMICAL AND PHYSICAL DETERMINATIONS

FACILITY NAME & ADDRESS:	West Valley Demonstration Project WSNP001, 10282 Rock Springs Rd West Valley NY							
NEB PROJECT NUMBER:	44240			TEST ORGANISM			*Ceriodaphnia dubia*	
DILUTION WATER SOURCE:	Erdman Brook			START DATE:			5/3/24 TIME:	1239
NEB Lab Control	1	2	3	4	5	6	7	Remarks
Tech Initials Initial	SM	SK	SK	SM	GP	SK	SK	
Temp °C Initial	24.8	25.2	24.8	25.0	24.7	25.2	25.2	
D.O. mg/L Initial	8.1	8.3	7.2	8.2	8.2	8.1	8.1	
pH s.u. Initial	7.8	7.7	7.7	7.6	7.6	7.6	7.8	
Conductivity µS Initial	316	312	318	324	321	318	314	
Tech Initials Final	KO	KO	SK	AG	SK	DMB	ME	
Temp °C Final	24.7	24.9	24.0	24.3	25.6	24.7	25.3	
D.O. mg/L Final	8.3	8.2	8.2	8.1	7.6	8.0	8.1	
pH s.u. Final	7.4	7.8	7.6	7.4	7.7	7.8	7.5	
Conductivity µS Final	345	339	350	349	353	365	350	
Erdman Brook Diluent	1	2	3	4	5	6	7	Remarks
Tech Initials Initial	SM	SK	SK	SM	GP	SK	SK	
Temp °C Initial	24.6	24.7	25.0	25.0	25.2	24.6	25.0	
D.O. mg/L Initial	9.0	8.9	7.7	8.2	9.1	9.0	8.9	
pH s.u. Initial	7.6	7.6	7.5	7.6	7.5	7.3	7.5	
Conductivity µS Initial	269	268	271	276	286	283	253	
Tech Initials Final	KO	KO	SK	AG	SK	DMB	ME	
Temp °C Final	24.7	24.9	24.0	24.3	25.7	24.7	25.3	
D.O. mg/L Final	8.3	8.2	8.2	8.0	7.6	8.1	7.9	
pH s.u. Final	7.5	7.8	7.6	7.6	7.8	8.0	7.7	
Conductivity µS Final	291	289	295	300	310	319	310	
6.25%	1	2	3	4	5	6	7	Remarks
Tech Initials Initial	SM	SK	SK	SM	GP	SK	SK	
Temp °C Initial	24.4	24.6	25.0	25.0	25.2	24.4	24.9	
D.O. mg/L Initial	9.2	8.9	7.7	8.6	9.1	9.0	8.8	
pH s.u. Initial	7.5	7.5	7.5	7.7	7.5	7.4	7.6	
Conductivity µS Initial	331	332	340	339	348	349	344	
Tech Initials Final	KO	KO	SK	AG	SK	DMB	ME	
Temp °C Final	25.0	24.9	24.0	24.2	25.8	24.8	25.4	
D.O. mg/L Final	8.3	8.3	8.3	8.0	7.5	8.2	7.8	
pH s.u. Final	7.6	7.9	7.7	7.7	7.9	8.1	7.8	
Conductivity µS Final	371	361	374	377	384	413	385	

NEB'S DATA SHEET FOR ROUTINE CHEMICAL AND PHYSICAL DETERMINATIONS

FACILITY NAME & ADDRESS:	West Valley Demonstration Project WSNP001, 10282 Rock Springs Rd West Valley NY							
NEB PROJECT NUMBER:	44240			TEST ORGANISM			*Ceriodaphnia dubia*	
DILUTION WATER SOURCE:	Erdman Brook			START DATE:			5/3/24 TIME:	1239
12.5%	1	2	3	4	5	6	7	Remarks
Tech Initials Initial	SM	SK	SK	SM	GP	SK	SK	
Temp °C Initial	24.3	24.6	25.0	25.0	25.2	24.5	24.8	
D.O. mg/L Initial	9.3	8.9	7.7	8.6	9.1	9.1	8.8	
pH s.u. Initial	7.5	7.6	7.5	7.6	7.5	7.4	7.6	
Conductivity µS Initial	419	406	409	414	429	427	423	
Tech Initials Final	KO	KO	SK	AG	SK	DMB	ME	
Temp °C Final	25.0	24.9	24.0	24.4	25.8	24.6	25.3	
D.O. mg/L Final	8.1	8.3	8.3	8.0	7.4	8.2	7.9	
pH s.u. Final	7.7	8.0	7.7	7.8	7.9	8.1	7.8	
Conductivity µS Final	486	452	460	479	483	524	481	
25%	1	2	3	4	5	6	7	Remarks
Tech Initials Initial	SM	SK	SK	SM	GP	SK	SK	
Temp °C Initial	24.3	24.6	25.0	24.9	25.2	24.4	24.8	
D.O. mg/L Initial	9.3	8.9	7.7	8.6	9.1	9.1	8.8	
pH s.u. Initial	7.6	7.6	7.6	7.7	7.6	7.4	7.6	
Conductivity µS Initial	573	559	553	578	572	572	563	
Tech Initials Final	KO	KO	SK	AG	SK	DMB	ME	
Temp °C Final	25.1	24.9	24.0	24.3	25.7	24.7	25.4	
D.O. mg/L Final	8.2	8.3	8.4	8.0	7.6	8.3	7.9	
pH s.u. Final	7.7	8.0	7.8	7.9	8.0	8.2	7.9	
Conductivity µS Final	607	596	600	633	620	637	616	
50%	1	2	3	4	5	6	7	Remarks
Tech Initials Initial	SM	SK	SK	SM	GP	SK	SK	25
Temp °C Initial	24.3	24.6	25.0	24.9	25.2	24.4	24.8	
D.O. mg/L Initial	9.4	9.0	7.7	8.7	9.2	9.1	8.8	
pH s.u. Initial	7.6	7.7	7.6	7.7	7.6	7.5	7.7	
Conductivity µS Initial	834	834	843	857	865	858	837	
Tech Initials Final	KO	KO	SK	AG	SK	DMB	ME	
Temp °C Final	25.2	24.0	24.0	24.2	25.8	24.7	25.3	
D.O. mg/L Final	8.2	8.3	8.3	8.1	7.7	8.3	8.0	
pH s.u. Final	7.8	8.1	7.9	8.0	8.0	8.2	8.0	
Conductivity µS Final	874	890	914	939	941	956	911	

NEB'S DATA SHEET FOR ROUTINE CHEMICAL AND PHYSICAL DETERMINATIONS

FACILITY NAME & ADDRESS:	West Valley Demonstration Project WSNP001, 10282 Rock Springs Rd West Valley NY							
NEB PROJECT NUMBER:	44240			TEST ORGANISM			*Ceriodaphnia dubia*	
DILUTION WATER SOURCE:	Erdman Brook			START DATE:			5/3/24 TIME:	1239
100%	1	2	3	4	5	6	7	Remarks
Tech Initials Initial	SM	SK	SK	SM	GP	SK	SK	
Temp °C Initial	24.3	24.6	25.0	24.9	25.2	24.4	24.9	
D.O. mg/L Initial	9.5	9.1	7.8	8.7	9.7	9.4	8.9	
pH s.u. Initial	7.7	7.8	7.7	7.8	7.7	7.6	7.7	
Conductivity µS Initial	1,399	1,385	1,402	1,412	1,421	1,415	1,412	
Tech Initials Final	KO	KO	SK	AG	SK	DMB	ME	
Temp °C Final	25.2	24.9	24.0	24.2	25.8	24.7	25.4	
D.O. mg/L Final	8.2	8.3	8.5	8.1	7.7	8.4	7.9	
pH s.u. Final	8.0	8.3	8.1	8.1	8.2	8.3	8.1	
Conductivity µS Final	1,497	1,481	1,515	1,539	1,533	1,600	1,545	
	1	2	3	4	5	6	7	Remarks
Tech Initials Initial								
Temp °C Initial								
D.O. mg/L Initial								
pH s.u. Initial								
Conductivity µS Initial								
Tech Initials Final								
Temp °C Final								
D.O. mg/L Final								
pH s.u. Final								
Conductivity µS Final								

Table of Random Permutations of 16 **C.dubia Test ID#** 24-771

7	12	15	15	1	2	7	16	10	2	14	15	7	13	13	10	6	1	8	10
13	3	8	16	7	10	11	10	13	5	11	7	13	16	7	7	5	13	2	14
3	1	4	5	14	13	3	14	9	13	13	2	9	15	6	2	8	4	5	8
11	8	16	14	15	6	2	6	2	16	8	5	12	3	9	13	4	3	10	4
14	9	1	6	3	9	14	13	8	6	5	8	14	7	3	15	13	11	4	7
2	16	10	13	5	5	13	2	11	7	3	12	5	14	12	16	2	2	9	15
4	6	13	7	2	15	1	9	1	4	7	10	6	9	11	9	7	6	16	11
6	14	6	10	4	14	4	15	3	3	4	16	2	6	5	1	12	10	6	9
10	15	2	1	13	12	16	3	4	8	10	1	15	5	14	12	14	12	3	2
12	10	7	12	9	11	9	8	12	14	15	4	11	8	16	8	9	14	14	1
15	7	5	2	10	7	8	12	6	15	6	13	16	12	15	4	11	8	12	6
16	2	11	8	8	8	15	5	16	1	1	9	8	1	8	14	16	5	13	5
9	13	14	3	6	4	10	11	5	12	9	3	10	4	4	3	10	9	1	3
8	11	9	4	11	3	12	7	7	10	12	14	3	10	1	6	15	16	15	12
1	5	12	11	16	16	5	4	14	9	16	11	1	2	10	5	1	15	7	13
5	4	3	9	12	1	6	1	15	11	2	6	4	11	2	11	3	7	11	16
11	8	16	5	5	13	1	13	2	16	14	12	9	8	7	5	13	3	13	3
2	2	8	8	14	16	4	3	8	11	10	14	15	1	2	11	4	5	15	9
6	13	2	13	6	5	9	15	11	10	12	6	16	15	16	9	10	12	16	15
14	12	4	16	16	11	14	10	5	12	3	3	12	14	15	13	6	4	1	16
8	6	3	9	4	10	6	4	16	2	2	9	8	16	4	6	5	15	7	8
9	15	12	10	3	2	12	6	1	15	4	13	7	7	9	12	14	8	8	11
3	10	11	12	13	12	5	11	7	8	9	5	14	11	10	1	3	13	3	5
16	1	13	14	8	14	15	5	3	7	11	15	6	12	5	7	11	1	14	4
1	14	14	2	9	15	16	14	6	14	7	8	3	13	11	8	7	7	12	7
4	4	6	4	12	3	11	8	15	9	8	1	13	6	3	3	15	9	9	12
15	5	1	11	10	6	3	7	10	5	5	11	10	10	12	15	16	14	5	2
5	3	5	6	7	7	13	2	14	3	16	4	5	5	13	4	9	16	2	6
12	7	15	15	15	9	8	12	12	13	15	10	1	4	6	16	2	6	11	1
10	11	10	3	2	4	2	1	4	6	6	7	11	9	14	10	8	11	4	13
7	9	7	7	11	1	7	16	13	1	13	2	4	2	1	2	12	2	10	14
13	16	9	1	1	8	10	9	9	4	1	16	2	3	8	14	1	10	6	10
														CONC					
1	6	7	4	8	6	5	2	8	15	4	6	6	1	4	5	7	13	2	10
9	15	11	3	11	15	9	10	1	3	8	2	15	7	9	8	16	1	14	3
10	16	4	5	12	9	16	11	7	1	7	16	11	8	3	3	12	2	3	4
4	14	1	9	5	5	4	13	6	8	15	5	12	5	7	16	5	11	8	1
7	3	13	14	15	2	1	14	16	5	14	9	2	16	1	12	6	14	4	13
16	11	2	1	14	16	6	9	3	4	16	14	3	15	11	11	3	9	12	5
3	10	16	16	13	7	13	1	11	14	9	10	16	2	10	2	10	7	10	16
11	13	9	13	4	13	8	3	5	13	10	12	5	12	5	14	13	16	5	6
15	2	3	12	9	12	2	4	13	10	3	13	14	4	2	1	14	8	6	12
14	1	14	6	10	1	3	12	4	2	2	4	13	3	16	9	9	3	7	14
13	12	5	11	3	11	15	8	2	7	11	7	8	14	6	4	4	4	15	11
12	5	10	7	2	14	7	15	14	16	13	1	9	10	12	10	11	10	9	8
8	9	8	10	6	4	11	7	10	11	6	8	4	9	8	15	8	6	11	9
2	7	6	2	1	8	10	6	15	12	1	11	7	11	13	6	1	15	13	15
6	4	15	8	16	10	14	16	9	6	12	3	10	6	14	7	2	12	16	7
5	8	12	15	7	3	12	5	12	9	5	15	1	13	15	13	15	5	1	2
																			REP
13	4	10	4	16	13	16	13	5	3	6	14	1	16	8	7	2	3	3	12
5	14	4	6	8	2	15	1	13	14	16	4	15	4	3	12	12	1	4	7
2	2	2	15	14	16	9	12	16	6	10	15	14	9	10	1	14	8	8	16
7	12	15	8	12	3	5	14	7	12	5	13	16	1	7	5	11	2	9	3
6	9	7	14	9	14	10	11	15	11	12	1	12	12	14	16	3	11	11	8
14	5	16	7	10	8	11	8	14	13	7	11	6	3	11	4	4	6	6	9
15	11	8	9	7	12	8	7	1	15	9	3	3	7	13	11	10	4	5	1
11	6	6	1	4	1	3	16	12	5	4	9	13	13	6	8	15	9	1	14
4	10	3	16	2	11	7	9	6	9	1	8	4	11	5	2	16	10	12	4
1	8	1	13	1	15	4	4	11	4	2	16	5	8	1	9	5	12	16	6
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12	1	9	10	15	5	2	15	10	2	14	2	8	2	4	13	8	5	15	5
3	3	12	11	5	9	6	6	3	10	13	12	9	6	2	15	7	15	7	13
10	15	11	5	13	7	12	5	2	7	11	5	10	15	12	3	1	13	13	10
8	13	13	3	3	10	13	2	4	1	8	6	11	14	15	6	9	16	2	2
16	16	5	12	11	6	1	3	8	16	3	7	2	5	16	14	13	7	14	15

Ceriodaphnia dubia Culture Chart

Lot # Cd24 (MMH 115) A

Brood mother source: 1065 B-1 Source's brood size: 21 (Qty.) West Valley 5.3.24

Tech	IR	SD	SM	JG	IR	SAT	IR	JG
Date	4-22	4-23	4-24	4-25	4-26		4-28	4-29
Day	0	1	2	3	4	5	6	7

Tech	IR	JG	DB	IR			
Date	4-30	5-1	5-2	5-3			
Day	8	9	10	11	12	13	14

Cup #	Beaker		Tray														
1	N	N	N	N	8		2Y	N	1	T9 Y 21	Y	N	Y				
2	N	N	N	N	7			N	2	T10 Y 27	Y	N	T1 Y 29				
3	N	N	N	N	6			N	3	T1 Y 23	Y	N	T2 Y 24				
4	N	N	N	N	7			N	4	T2 Y 24	Y	N	Y				
5	N	N	N	N	7			N	5	T3 Y 25	Y	N	T3 Y 25				
6	N	N	N	N	7			N	6	Y	Y	N	T4 Y 28				
7	N	N	N	N	7		15	Y	7	T4 Y 23	N	Y	T5 Y 27				
8	N	N	N	N	6		2Y	N	8	T5 Y 20	Y	N	Y				
9	N	N	N	N	7			N	9	T6 Y 25	Y	N	T6 Y 26				
10	N	N	N	N	8			N	10	T7 Y 24	Y	N	Y				
11	N	N	N	N	8			N	11	Y	Y	N	T7 Y 29				
12	N	N	N	N	7			N	12	T8 Y 27	Y	N	Y				
13	N	N	N	N	7			Y	13	Y	N	Y	Y				
14	N	N	N	N	6			N	14	T9 Y 26	Y	N	Y				
15	N	N	N	N	8			N	15	T10 Y 24	Y	N	T8 Y 28				
16	N	N	N	N	6			N	16	Y	Y	N	T9 Y 23				
17	N	N	N	N	8			N	17	Y	Y	N	T10 Y 24				
18	N	N	N	N	7			N	18	Y	Y	N	Y				

Y = neonates present, and EPA *criterion has been met* **N** = no neonates **P** = Neonates present in P.M. on previous day

2B = two broods present. 2Y = two broods and criterion met: ≥ 20 neos. by 3rd brood. T# = neonates used in test replicate, #=neonates in brood.

Test organism collection:

Project #	Symbol	P	Tray diagram?	Time period, neonates released	Collection date / time
46041	T		Y	4-29-24/1530 → 4-29-24/1815	4-30-24/1101
899396	T		Y	4-29-24/1625 → 4-29-24/1815	4-30-24/1139
44240	T		Y	5-2-24/1505 → 5-2-24/1800	5-3-24/0958
	T				
	T				

SAMPLE RECEIPT CHEMISTRY
&
CHAIN OF CUSTODY DOCUMENTS

NEW ENGLAND BIOASSAY - INITIAL CHEMISTRY DATA

PERMITTEE: West Valley Demonstration Project

NEB JOB # 44240

DATE RECEIVED	5/3/24		5/7/24			
SAMPLE TYPE:	EFF #1	BROOK #1	EFF #2	BROOK #2		
COC #	C44-2575	C44-2576	C44-2621	C44-2622		
pH (SU)	7.2	7.1	7.5	7.4		
Temperature (^{o}C)	1.8	0.6	0.8	0.9		
Dissolved Oxygen (mg/L)	11.7	10.8	11.5	10.4		
Conductivity (µmhos)	1,439	268	1,433	283		
Salinity (ppt)	<1	<1	<1	<1		
TRC - DPD (mg/L)	0.013	0.024	0.014	0.018		
TRC - Amperometric (mg/L)	N/A	N/A	N/A	N/A		
Hardness (mg/L as $CaCO_3$)	144	96	144	96		
Alkalinity (mg/l as $CaCO_3$)	163	82	163	85		
Tech Initials	AG	AG	MOR/DB	MOR/DB		

NOTE: NA = NOT APPLICABLE

Data Reviewed By: Kimberly Wills Date Reviewed: 6/3/24

NEW ENGLAND BIOASSAY - CHAIN-OF-CUSTODY

Sample set# 1

EFFLUENT

Sampler: MPR

Title: Environmental Scientist

Facility: West Valley

Sampling Method: X **Composite**

Sample ID: Outfall 001

Start Date: 5-1-24 Time: 1200

End Date: 5-2-24 Time: 1200

Sample Type:

_____ Prechlorinated

_____ Dechlorinated

X Unchlorinated

_____ Chlorinated

RECEIVING WATER

Sampler: JJZ

Title: Environmental Scientist

Facility: West Valley

Sampling Method: X Grab

Sample ID: Erdman Brook

Date Collected: 5-1-24 → 5/2/24 on chain of AC

Time Collected: 1115

Effluent Sampling Location and Procedures: WNSP001 EM-2 Composite Sampling

Receiving Water Sampling Location and Procedures: WNER353 (Erdman Brook) EM-2 Grab Sampling

Requested Analysis: X Chronic and modified acute

Sample Shipment

Method of Shipment: UPS Next Day Air Early

Relinquished By:	_____	Date: _____	Time: _____
Received By:	_____	Date: _____	Time: _____
Relinquished By:	_____	Date: _____	Time: _____
Received By:	_____	Date: _____	Time: _____
Relinquished By:	_____	Date: _____	Time: _____
Received By:	_____	Date: _____	Time: _____

FOR NEB USE ONLY

Temperature of Effluent Upon Receipt at Lab: _____ °C

Temperature of Receiving Water Upon Receipt at Lab: _____ °C

Effluent COC# _____

Receiving Water COC# _____

IF THIS COOLER IS MISPLACED OR THE LABEL IS LOST, PLEASE SHIP TO:
KIM WILLS, NEW ENGLAND BIOASSAY, 77 BATSON DRIVE, MANCHESTER CT 06042

CH2M Hill B&W West Valley LLC (CHBWV) 10282 Rock Springs Rd. West Valley, NY 14171

CHAIN-OF-CUSTODY / REQUEST-FOR-ANALYSIS / PACKING SHEET

Sample Type: SPDES

Electronic Disk - YES

External Lab Destination	Purchase Order Number	Charge Number	Release Number	Report Format Level	Priority	OrderID: 240423-05 Work Order: SP-Discharge
Eurofins	CH-007532	WV03.IN.01.01.01.02.01	1457	1	10 Days	

Custodian Signature: _____ C-O-C Reviewed By: _____

Report Data To: Bob Steiner (716) 481-5793
Chet Wrotniak (716) 982-6403

Location Code	Sample ID	Date	Time	# Cont	Preservative	Tests		Sample Notes
WNSP001	2024-03160	05/02/24	12:00	1	Cool	wet_du_a,	wet_du_c,	Receiving water for dilution for water flea. NEB water for control.

Project Notes: Initial Samples, ERDMAN BROOK Water Included in shipment.

West Valley
EFF #1 C44-2575
Riv #1 C44-2576

Received ON ICE

Signature Rel: Date/Time 5/2/24 1240	Signature Rel: Date/Time
Signature Rec: Date/Time NCB 5/3/24 0826	Signature Rec: Date/Time
Signature Rel: Date/Time	Signature Rel: Date/Time
Signature Rec: Date/Time	Signature Rec: Date/Time
Signature Rel: Date/Time	Sample Receipt at Lab: Cool? YES NO Temp: C
Signature Rec: Date/Time	Signature Rec: Date/Time YES NO

5/2/2024 @ 12:27

5 4 3 2 1

NEW ENGLAND BIOASSAY - CHAIN-OF-CUSTODY

#2

EFFLUENT

Sampler: M. Regan
Title: Environmental Scientist
Facility: West Valley

RECEIVING WATER

Sampler: T. Zeytek
Title: Environmental Scientist
Facility: West Valley

Sampling Method: X **Composite**
Sample ID: Outfall 001
Start Date: 5-5-24 Time: 0730
End Date: 5-6-24 Time: 0730

Sampling Method: X Grab
Sample ID: Erdman Brook
Date Collected: 5-6-24
Time Collected: 0700

Sampling Method: _____ **Grab** (for pH and TRC only _____)
Date Collected: _____
Time Collected: _____

Received
ON ICE

Sample Type:
_____ Prechlorinated
_____ Dechlorinated
X Unchlorinated
_____ Chlorinated

Effluent Sampling Location and Procedures: WNSP001 EM-2 Composite Sampling

Receiving Water Sampling Location and Procedures: WNERB53 EM-2 Grab Sampling

Requested Analysis: X Chronic and modified acute

Sample Shipment

Method of Shipment: UPS Next Day Air Early

Relinquished By:		Date: 5-6-24	Time: 0800
Received By:	Dan Burke NEB	Date: 5-7-24	Time: 0816
Relinquished By:		Date:	Time:
Received By:		Date:	Time:
Relinquished By:		Date:	Time:
Received By:		Date:	Time:

FOR NEB USE ONLY

Temperature of Effluent Upon Receipt at Lab: 0.9 °C
Temperature of Receiving Water Upon Receipt at Lab: 0.9 °C

Effluent COC# C44-2621
Receiving Water COC# C44-2622

IF THIS COOLER IS MISPLACED OR THE LABEL IS LOST, PLEASE SHIP TO:
KIM WILLS, NEW ENGLAND BIOASSAY, 77 BATSON DRIVE, MANCHESTER CT 06042

1 2 3 4 5

CH2M Hill B&W West Valley LLC (CHBWV) 10282 Rock Springs Rd. West Valley, NY 14171

CHAIN-OF-CUSTODY / REQUEST-FOR-ANALYSIS / PACKING SHEET

Sample Type: SPDES

Electronic Disk - YES

External Lab Destination	Purchase Order Number	Charge Number	Release Number	Report Format Level	Priority
Eurofins	CH-007532	WV03.IN.01.01.01.02.01	1457	1	10 Days

OrderID: **240423-05**
Work Order: **SP-Discharge**

Custodian Signature: _____ C-O-C Reviewed By: _____

Report Data To: Bob Steiner (716) 481-5793
Chet Wrotniak (716) 982-6403

Location Code	Sample ID	Date	Time	# Cont	Preservative	Tests		Sample Notes
WNSP001	2024-03161	05/06/24	07:30	1	Cool	wet_du_a	wet_du_c	Receiving water for dilution for water flea. NEB water for control.

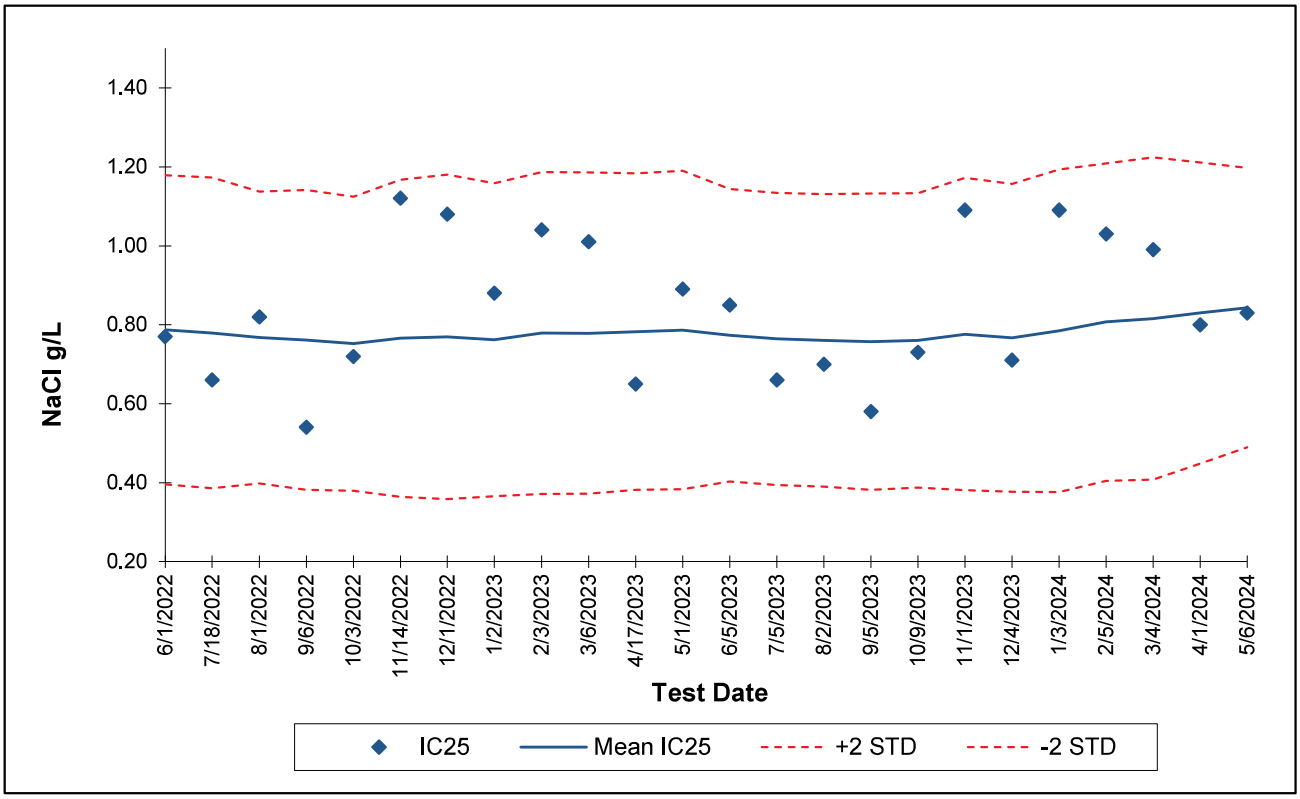
Project Notes: Re-freshing Samples, ERDMAN BROOK Water Included in shipment.

Signature Rel: Date/Time 0815	Signature Rel: Date/Time
Signature Rec: Date/Time Dein Brue NEB 5-7-24 0816	Signature Rec: Date/Time
Signature Rel: Date/Time	Signature Rel: Date/Time
Signature Rec: Date/Time	Signature Rec: Date/Time
Signature Rel: Date/Time	Sample Receipt at Lab: Cool? YES NO Temp: C
Signature Rec: Date/Time	Signature Rec: Date/Time YES NO

REFERENCE TOXICANT CHARTS

New England Bioassay

Reference Toxicant Data: Sodium chloride (NaCl) *Ceriodaphnia dubia* Chronic Reproduction IC_{25}



Test ID	Date	IC_{25}	Mean IC_{25}	STD	-2STD	+2STD	Avg. CV	Repro PMSD (%)	Avg. PMSD (%)
22-871	6/1/2022	0.77	0.79	0.20	0.40	1.18	0.25	13.26	17.30
22-1212	7/18/2022	0.66	0.78	0.20	0.39	1.17	0.25	21.83	17.18
22-1326	8/1/2022	0.82	0.77	0.18	0.40	1.14	0.24	15.61	16.19
22-1589	9/6/2022	0.54	0.76	0.19	0.38	1.14	0.25	17.78	15.71
22-1835	10/3/2022	0.72	0.75	0.19	0.38	1.12	0.25	22.88	16.14
22-2141	11/14/2022	1.12	0.77	0.20	0.36	1.17	0.26	10.74	16.10
22-2223	12/1/2022	1.08	0.77	0.21	0.36	1.18	0.27	12.08	16.21
23-2	1/2/2023	0.88	0.76	0.20	0.37	1.16	0.26	8.95	15.97
23-164	2/3/2023	1.04	0.78	0.20	0.37	1.19	0.26	8.50	15.71
23-371	3/6/2023	1.01	0.78	0.20	0.37	1.19	0.26	27.48	16.37
23-655	4/17/2023	0.65	0.78	0.20	0.38	1.18	0.26	9.74	16.37
23-731	5/1/2023	0.89	0.79	0.20	0.38	1.19	0.26	21.31	16.67
23-973	6/5/2023	0.85	0.77	0.19	0.40	1.14	0.24	22.80	17.16
23-1143	7/5/2023	0.66	0.76	0.18	0.39	1.13	0.24	10.17	16.98
23-1365	8/2/2023	0.70	0.76	0.19	0.39	1.13	0.24	23.03	17.64
23-1691	9/5/2023	0.58	0.76	0.19	0.38	1.13	0.25	7.64	17.28
23-2024	10/9/2023	0.73	0.76	0.19	0.39	1.13	0.25	13.34	17.09
23-2176	11/1/2023	1.09	0.78	0.20	0.38	1.17	0.25	12.89	16.26
23-2356	12/4/2023	0.71	0.77	0.20	0.38	1.16	0.25	11.47	15.64
24-10	1/3/2024	1.09	0.78	0.20	0.38	1.19	0.26	15.69	15.70
24-192	2/5/2024	1.03	0.81	0.20	0.40	1.21	0.25	16.44	15.46
24-364	3/4/2024	0.99	0.82	0.20	0.41	1.22	0.25	18.00	15.76
24-551	4/1/2024	0.80	0.83	0.19	0.45	1.21	0.23	16.01	15.83
24-789	5/6/2024	0.83	0.84	0.18	0.49	1.20	0.21	9.77	15.31

National 75th Percentile and 90th Percentile CV Averages for Ceriodaphnia Reproduction IC25 (EPA 833-R-00-003): 0.45 - 0.62
PMSD Upper and Lower Bounds for Ceriodaphnia Reproduction (EPA-821-R-02-013): 13% - 47%

NYELAP
ACCREDITATION ANALYTE LIST

NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER

Expires 12:01 AM April 01, 2025
Issued April 01, 2024

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

Issued in accordance with and pursuant to section 502 Public Health Law of New York State

MS. KIMBERLY WILLS
NEW ENGLAND BIOASSAY INC.
77 BATSON DRIVE
MANCHESTER, CT 06042

NY Lab Id No: 12157

is hereby APPROVED as an Environmental Laboratory in conformance with the National Environmental Laboratory Accreditation Conference Standards (2016) for the category ENVIRONMENTAL ANALYSES NON POTABLE WATER
All approved analytes are listed below:

Aquatic Toxicity

Fathead minnow-Pimephales promelas	EPA 1000.0
	EPA 2000.0
Opossum shrimp-Americamysis bahia	EPA 1007.0
	EPA 2007.0
Sheephead minnow-Cyprinodon varie	EPA 1004.0
	EPA 2004.0
Water flea-Ceriodaphnia dubia	EPA 1002.0
	EPA 2002.0

Serial No.: 69202

Attachment D

CHBWV Environmental Certification

CHBWV ENVIRONMENTAL CERTIFICATION

1. To be signed by a CHBWV Officer

I certify under penalty of law that I have reviewed the environmental submittal, including all attached documents, and that based on my inquiry of those individuals responsible for obtaining the information, I believe that the document has been prepared in accordance with all applicable requirements and the information is, to the best of my knowledge and belief, true, accurate, and complete.

E. A. Lowes/V.P. Regulatory Strategy — Robert E. Steiner for E.A.L. — 7/16/2024

Name/Title (type or print) — Signature — Date signed

Attachment E

Email Confirmation from NYSDEC

From:	netdmr-notification@epa.gov
To:	Anna Carr; Robert Steiner; Matia Varner; William Frederick; rwring@cattco.org; Elizabeth Lowes; Jamie Prowse; Jennifer Dundas; Joshua Desmarais; R9.NetDMR@dec.ny.gov; William Kean; Michael Pendl
Subject:	NetDMR DMR(s) Submittal Passed for: NY0000973
Date:	Tuesday, July 16, 2024 12:32:27 PM

The following signed 9 DMR(s) were submitted to EPA and were successfully processed:

CDX Transaction ID: _af7dcdc8-abc9-4834-9c54-e3a5aef7e930
User ID: ELIZABETH.LOWES@CHBWV.COM
Timestamp: 07/16/2024 10:58:49

Permitted Facility Name: WEST VALLEY DEMONSTRATION PROJ
Permit ID: NY0000973
Permitted Feature: 001
Discharge: M - OUTFALL 001 MONTHLY PROC WW, GW, STORM
Monitoring Period End Date: 06/30/24

Permitted Facility Name: WEST VALLEY DEMONSTRATION PROJ
Permit ID: NY0000973
Permitted Feature: 001
Discharge: S - OUTFALL 001 SEMI-ANNUAL
Monitoring Period End Date: 06/30/24

Permitted Facility Name: WEST VALLEY DEMONSTRATION PROJ
Permit ID: NY0000973
Permitted Feature: 001
Discharge: V - OUTFALL 001 ACTION LEVELS SEMI-ANNUAL
Monitoring Period End Date: 06/30/24

Permitted Facility Name: WEST VALLEY DEMONSTRATION PROJ
Permit ID: NY0000973
Permitted Feature: 001
Discharge: W - OUTFALL 001 WET TESTING QUARTERLY
Monitoring Period End Date: 06/30/24

Permitted Facility Name: WEST VALLEY DEMONSTRATION PROJ
Permit ID: NY0000973
Permitted Feature: 007
Discharge: M - SANITARY, NC COOLING WATER, UTILITY WASTEWATER, STORMWATER
Monitoring Period End Date: 06/30/24

Permitted Facility Name: WEST VALLEY DEMONSTRATION PROJ
Permit ID: NY0000973
Permitted Feature: 007
Discharge: W - OUTFALL 007 WET TESTING QUARTERLY
Monitoring Period End Date: 06/30/24

Permitted Facility Name: WEST VALLEY DEMONSTRATION PROJ
Permit ID: NY0000973
Permitted Feature: 01B
Discharge: M - MERCURY PRETREATMENT
Monitoring Period End Date: 06/30/24

Permitted Facility Name: WEST VALLEY DEMONSTRATION PROJ

Permit ID: NY0000973
Permitted Feature: 116
Discharge: M - PSEUDO MON. POINT @FRANKS CRK
Monitoring Period End Date: 06/30/24

Permitted Facility Name: WEST VALLEY DEMONSTRATION PROJ
Permit ID: NY0000973
Permitted Feature: SUM
Discharge: N - SUM OF OUTFALLS 1 & 7
Monitoring Period End Date: 06/30/24

Thank you.

This is a submission from the LIVE (Production) site.