#### 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 CASPER (Affiliate)
(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

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R. E. Steiner, CHBWV

K. A. Wooley, CHBWV

Letter Log (M. Varner), CHBWV

**CHBWV OITS #2330380** 

Attachment A	Α	tta	ch	m	en	t	Α
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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   
  $X1 = 0.000 \text{ mg/L}$    
  $X2 = 0.000 \text{ mg/L}$    
  $V1 = 0.000 \text{ L/month}$ 

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

OUTFALL 007 = 
$$M7 = \frac{(X1 + X2) V7}{2} = 0.00 \text{ mg/month}$$
  
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 = 
$$\frac{(X1 + X2 + X3 + X4) \text{ VRW}}{4}$$
 = 0.00 mg/month   
  $X1 = 0.000 \text{ mg/L}$    
  $X2 = 0.000 \text{ mg/L}$    
  $X3 = 0.000 \text{ mg/L}$    
  $X4 = 0.000 \text{ mg/L}$    
  $X4 = 0.000 \text{ mg/L}$ 

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

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 exeporting Help Desk for further guidance. Please note that EPA may contact you after you submit this report for more information.

This collection of information is approved by OMB under the Papenwork 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(j)(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 recordiseeping 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. 20480. Include the OMB control number in any correspondence. Do not send the completed form to this address.

Permit Permit #: NY0000973 U.S. DEPT OF ENERGY Facility: WEST VALLEY DEMONSTRATION PROJ Major: Permittee Address: 1000 INDEPENDENCE AVE SW WASHINGTON, DC 20585 Facility Location: 10282 ROCK SPRINGS ROAD WEST VALLEY, NY 14171-9799 Permitted Feature: Discharge 001 External Outfall 001-M OUTFALL 001 MONTHLY PROC WW, GW, STORM Report Dates & Status From 06/01/24 to 06/30/24 DMR Due Date: 07/28/24 Status: NetDMR Validated Monitoring Period: Considerations for Form Completion Principal Executive Officer Bryan C. Title: Director, USDOE-WVDP Telephone: First Name: Last Name: No Data Indicator (NODI) Form NODI: Monitoring Location Season # Param. NODI Quality or Concentration # of Ex. Frequency of Analysis Sample Type Quantity or Loading Value 1 Qualifier 2 Code tualifier 1 Value 2 Units Qualifier 1 Value 1 Qualifier 3 Value 3 Units Sample Permit Re Req Mon DAILY MX 19 - mg/L Reg Mon MO AVG 01/BA - Once Per Batch 24 - COMP24 00154 Sulfate [as S] 1 - Effluent Gross 0 C - No Discharge Sample Permit Rec Rea Mon MO AVG <= 22.0 DAILY MX 02/BA - Twice Per Batch CA - CALCTD 00181 Oxygen demand, ultimate 1 - Effluent Gross 0 C - No Discharge C - No Discharge 3.0 MINIMUM Req Mon MAXIMUM 19 - mg/L 02/BA - Twice Per Batch GR - GRAB 00300 Oxygen, dissolved [DO] 1 - Effluent Gross 0 C - No Discharge C - No Discharge Sample Permit Rec 02/BA - Twice Per Batch 24 - COMP24 19 - mg/L 00310 BOD, 5-day, 20 deg. C 1 - Effluent Gross 0 C - No Discharge C - No Discharge Sample Permit Rec 8.5 MAXIMUM 12 - SU 01/BA - Once Per Batch GR - GRAB 6.5 MINIMUM 00400 pH 1 - Effluent Gross 0 Sample ermit Re 30 0 MO AVG 45 0 DAILY MX 19 - mg/L 02/BA - Twice Per Batch 24 - COMP24 1 - Effluent Gross 0 00530 Solids, total suspended alue NOD C - No Discharge C - No Discharge Sample Permit Req 02/BA - Twice Per Batch GR - GRAB 00545 Solids, settleable 1 - Effluent Gross 0 alue NOD C - No Discharge C - No Discharge Sample Permit Rec Req Mon MO AVG <= 15,0 DAILY MX 00556 Oil & Grease 1 - Effluent Gross 0 19 - mg/L 01/BA - Once Per Batch GR - GRAB Sample Permit Rec 1 - Effluent Gross 0 Reg Mon MO AVG <= 0.1 DAILY MX 19 - mg/L 01/BA - Once Per Batch 24 - COMP24 00615 Nitrogen, nitrite total [as N] C - No Discharge C - No Discharge Req Mon MO AVG Req Mon DAILY MX 19 - mg/L 01/BA - Once Per Batch 24 - COMP24 00620 Nitrogen, nitrate total [as N] 1 - Effluent Gross 0

					Yaha NODI					2. No Disabassa		A No Diseberra			
					Value NODI					C - No Discharge		C - No Discharge			
00005	No Kalanda ada na	4 571			Sample Permit Req.					Reg Mon MO AVG		Reg Mon DAILY MX	19 - ma/L	02/BA - Twice Per Batch	24 - COMP24
00625	Nitrogen, Kjeldahl, total [as N]	1 - Effluent Gross	0	-	Value NODI					C - No Discharge		C - No Discharge	10g.u		
_			-	_	Sample					0 110 0 110 0	-	- 110 D			-
00746	Sulfide, dissolved, [as S]	1 - Effluent Gross	0	4.	Permit Req.					Req Mon MO AVG	<=	0.4 DAILY MX	19 - mg/L	01/BA - Once Per Batch	24 - COMP24
00140	Suride, dissolved, [as 5]	1 - Emain Gross	· ·	1	Value NODI					C - No Discharge		C - No Discharge			
			$\overline{}$	-	Sample			$\overline{}$			-				
00978	Arsenic, total recoverable	1 - Effluent Gross	0	_	Permit Req.					Req Mon MO AVG	<=	0.15 DAILY MX	19 - mg/L	01/BA - Once Per Batch	24 - COMP24
	1				Value NODI					C - No Discharge		C - No Discharge			
			-		Sample										
00979	Cobalt, total recoverable	1 - Effluent Gross	0	/ - /	Permit Req.						<=	0.005 DAJLY MX	19 - mg/L	01/BA - Once Per Batch	GR - GRAB
			4		Value NODI					C - No Discharge		C - No Discharge			
					Sample										
00981	Selenium, total recoverable	1 - Effluent Gross	0	-	Permit Req.						<=		19 - mg/L	01/BA - Once Per Batch	GR - GRAB
					Value NODI			$\longrightarrow$		C - No Discharge		C - No Discharge	$\perp$		
					Sample Permit Reg.					Reg Mon MO AVG		Reg Mon DAJLY MX	19. mail	02/BA - Twice Per Batch	24 COMP24
01045	Iron, total [as Fe]	1 - Effluent Gross	0	/   -	Value NODI					C - No Discharge		C - No Discharge	19 - mgr.	UZ/BA - TWILE FEI DAILIT	24 - OUMF24
								-		C - NO Discharge	—	C - NO DISCHAIGE			
04405		4 571 10			Sample Permit Reg.				<=	2.0 MO AVG	<=	4.0 DAILY MX	19 - mg/L	01/BA - Once Per Batch	24 - COMP24
01105	Aluminum, total [as Al]	1 - Effluent Gross	0	-	Value NODI					C - No Discharge		C - No Discharge	10 110		
_			-		Sample			-		O NO DIODILI-9-	_	0 - 110 01001111.9-	-		
01128	Vanadium, total recoverable	1 - Effluent Gross	0	4_	Permit Req.					Req Mon MO AVG	<=	0.014 DAILY MX	19 - mg/L	01/BA - Once Per Batch	GR - GRAB
01120	variationi, total recoverable	1 - Elijuetik Gross	Ů		Value NODI					C - No Discharge		C - No Discharge			
_			$\overline{}$	-	Sample			$\overline{}$			_				_
34726	Nitrogen, ammonia, total [as NH3]	1 - Effluent Gross	0	-	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			
					Sample										
50050	Flow, in conduit or thru treatment plant	1 - Effluent Gross	0	-	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								
				T	Sample										
50060	Chlorine, total residual	1 - Effluent Gross	0	-	Permit Req.						<=	0.1 DAILY MX	19 - mg/L	01/BA - Once Per Batch	GR - GRAB
					Value NODI					C - No Discharge		C - No Discharge	$\perp$		
					Sample Permit Reg.					Rea Mon MO AVG		Rea Mon DAILY MX	10 mail	02/BA - Twice Per Batch	CD CDAD
70295	Solids, total dissolved	1 - Effluent Gross	0	/ - /	Value NODI					C - No Discharge		C - No Discharge	19 - IIIGic	UZ/BA - TWICE FEI DAIGH	GK - GKAD
			—					-		C • NO Discharge	-	C - NO Discharge	-		-
74000			0		Sample Permit Reg.				<=	50.0 MO AVG		Reg Mon DAILY MX	3M - ng/L	01/BA - Once Per Batch	GR - GRAB
71900	Mercury, total [as Hg]	1 - Effluent Gross	U	-	Value NODI					C - No Discharge		C - No Discharge			
_			-	_	Sample						-				-
81646	Surfactants [linear alkylate sulfonate]	1 - Effluent Gross	0	4_ 7	Permit Req.					Req Mon MO AVG	<=	0.04 DAILY MX	19 - mg/L	01/BA - Once Per Batch	GR - GRAB
01040	Surfactants [intear allayance surromate]	1 - Elliderik Gross	Ů		Value NODI					C - No Discharge		C - No Discharge			
2 selected	ssion 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	Туре	Size
WDP_June_2024_Synopsis.pdf	pdf	450974,0
WVDP_January_2024_June_2024_Storm_Water_Data.pdf	pdf	6192619.0

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william.kean@chbwv.com William Kean

william.kean@chbwv.com 2024-07-16 10:26 (Time Zone: -04:00)

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

Form Approved OMB No. 2040-0004 expires on 07/31/2026 **DMR Copy of Record** 

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Permit													-							
Permit #:	:	NY0000973		Pe	ermittee:		U.	S. DEPT	OF ENER	3Y			Faci	ility:		WEST VALLEY DE			ROJ	
Major:		Yes		Pe	ermittee Addre	ss:		000 INDEP ASHINGT		E AVE SW 0585			Faci	ility Location:		10282 ROCK SPRI WEST VALLEY, N				
Permitte	d Feature:	001 External Outfall		Di	scharge:			01-S UTFALL 0	01 SEMI-A	NNUAL										
Report D	Dates & Status																			
Monitori	ng Period:	From 01/01/24 to 06/	30/24	DN	MR Due Date:		07	7/28/24					Stat	us:		NetDMR Validated	i			
Conside	rations for Form Completi	ion																		
Principa	I Executive Officer																			
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Code	Parameter Name	0	Monitoring Location	Season #	Param. NODI		Qualifier 1		or Loading	Value 2 Unit	s Qualifier 1	Value 1	Qualifier 2	Quality or Con-	Centration Qualifier	3 Value 3	Units	# of Ex	Frequency of Analysis	Sample Type
Jour	TWIN-	•				Sample		Turne 1	activation in	TOTAL CITY	o deciment			0.005	<	0.005	19 - mg/L		02/YR - Twice Per Year	GR - GRAB
00722	Cyanide, free [amenable to	chlorination1	1 - Effluent Gross	0		Permit Req.								Req Mon MO AVG	<=	0.005 DAILY MX	19 - mg/L	0	02/YR - Twice Per Year	GR - GRAB
	*	•				Value NODI														
						Sample								0.071		0.071	19 - mg/L		02/YR - Twice Per Year	24 - COMP24
01055	Manganese, total [as Mn]		1 - Effluent Gross	0		Permit Req.								Req Mon MO AVG	<=	2.0 DAILY MX	19 - mg/L	0	02/YR - Twice Per Year	24 - COMP24
						Value NODI														
						Sample								0.0036	<	D.0036	19 - mg/L		02/YR - Twice Per Year	24 - COMP24
01067	Nickel, total [as Ni]		1 - Effluent Gross	0	-	Permit Req.								Req Mon MO AVG	<=	0.079 DAILY MX	19 - mg/L	0	02/YR - Twice Per Year	24 - COMP24
						Value NODI														
						Sample								0.0052	-	0.0052	19 - mg/L		02/YR - Twice Per Year	24 - COMP24
01094	Zinc, total recoverable		1 - Effluent Gross	0	-	Permit Req.								Req Mon MO AVG	<=	0.13 DAILY MX	19 - mg/L	0	02/YR - Twice Per Year	24 - COMP24
						Value NODI														
						Sample							<	0.0002	<	0.0002	19 - mg/L		02/YR - Twice Per Year	24 - COMP24
01114	Lead, total recoverable		1 - Effluent Gross	0	-	Permit Req.								Req Mon MO AVG	<=	0.006 DAILY MX	19 - mg/L	0	02/YR - Twice Per Year	24 - COMP24
						Value NODI														
						Sample								0.0006	-	0.0006	19 - mg/L		02/YR - Twice Per Year	24 - COMP24
01118	Chromium, total recoverab	le	1 - Effluent Gross	0	-	Permit Req.								Req Mon MO AVG	<=	0.11 DAILY MX	19 - mg/L	0	02/YR - Twice Per Year	24 - COMP24
						Value NODI														
						Sample							-	0.0016	=	0.0016	19 - mg/L		02/YR - Twice Per Year	24 - COMP24
01119	Copper, total recoverable		1 - Effluent Gross	0		Permit Req.								Req Mon MO AVG	<=	0.014 DAILY MX	19 - mg/L	0	02/YR - Twice Per Year	24 - COMP24
						Value NODI														
						Sample							<	0.007	<	0.007	28 - ug/L		02/YR - Twice Per Year	GR - GRAB
														0.01 MO AVG		Reg Mon DAJLY MX	00			GR - GRAB
39410	Heptachlor		1 - Effluent Gross	0	-	Permit Req.							CIII	U.UT MU AVG		Red Mon DAILY MA	28 <b>-</b> ug/L	0	02/YR - Twice Per Year	OK - OKAB

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

#### 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. 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

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

Date/Time:

Report Last Signed By

ELIZABETH.LOWES@CHBWV.COM

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

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 #:	NY	0000973		Permittee:		U.S. DE	PT OF EN	IERGY						Facility	r:	W	EST VALLEY (	DEMONS.	TRATION PROJ	
Major:	Υe	s		Permittee Add	ress:		DEPENDE NGTON, D	ENCE AVE SV OC 20585	v					Facility	Location:		282 ROCK SP EST VALLEY,			
Permitted		1 terna <b>l</b> Outfall		Discharge:		001-V OUTFAL	_L 001 AC	TION LEVELS	S SEMI-	ANNUA	L									
Report Da	ates & Status			•																
Monitorin	g Period: Fr	om 01/01/24 to 06/30/24		DMR Due Date	:	07/28/24	ı							Status:		N	etDMR Validat	ed		
Consider	ations for Form Completic	n		•																
SEE PER	MIT FOR REPORTING REG	QUIREMENTS																		
Principal	Executive Officer																			
First Nam	ne: Br	yan C.		Title:		Director,	USDOE-	WVDP						Teleph	one:	71	6-942-4368			
Last Nam	e: Bo	wer																		
No Data I	ndicator (NODI)			•																
Form NOI	DI: -																			
	Parameter	Monitoring Location	Season #	Param. NODI			Quantit	y or Loading					Qı	ality or Co	ncentration			# of Ex.	Frequency of Analysis	Sample Typ
Code	Name					Qualifier 1	Value 1	Qualifier 2	/alue 2	Units	Qualifier 1	Value 1	Qualifier 2	Value 2	Qualifier 3	Value 3	Units			
					Sample										-	0.071	19 - mg/L		02/YR - Twice Per Year	24 - COMP24
01022	Boron, total [as B]	V - See Comments	0	-	Permit Req.	-									<=	2.0 DAILY MX	19 - mg/L	0	02/YR - Twice Per Year	24 - COMP24
					Value NODI															
					Sample										<	0.0011	19 - mg/L		02/YR - Twice Per Year	24 - COMP24
01152	Titanium, total [as Ti]	V - See Comments	0		Permit Req.										<=	0.65 DAILY MX	19 - mg/L	0	02/YR - Twice Per Year	24 - COMP24
			-		Value NODI													1		
					Sample										<	0,37	19 - mg/L		02/YR - Twice Per Year	24 - COMP24
71870	Bromide [as Br]	V - See Comments	0		Permit Req.										c=	5.0 DAILY MX	19 - mg/L	0	02/YR - Twice Per Year	24 - COMP24
			1-		Value NODI													1		

#### 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.

No errors.

Comments

Permit

Attachments

As required in Title 6 of the New York State Codes, Rules, and Regulations SNYCRR, 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. 1101, 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 CHBWY environmental Services is 0.02 mg/sinces is 0.02 mg/sinc

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

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Permit																						
Permit	#:	NY0000973	F	ermi	ttee:			U.S. DE	PT OF	ENERGY	(						Facility:	WEST VALLEY D	EMONSTRATIO	ON PR	OJ	
Major:		Yes	F	Permi	ttee A	ddress:				IDENCE I, DC 205		'					Facility Location:	10282 ROCK SPR WEST VALLEY, N				
Permit	ted Feature:	001 Externa <b>l</b> Outfall	0	Disch	arge:			001-W OUTFAI	LL 001	WET TE	ST <b>I</b> NG Q	UARTE	ERLY									
Report	t Dates & Status																					
Monito	oring Period:	From 04/01/24 to 06/30/24		OMR	Due Da	ite:		08/28/24	4								Status:	NetDMR Validate	d			
Consid	derations for Form Comp.	letion	·																			
SEE PE	ERMIT FOOTNOTES FOR	WET TESTING REQUIREMENTS	3																			
Princip	oal Executive Officer																					
First N	ame:	Bryan C.	1	Title:				Director	, USDC	E-WVDF	•						Telephone:	716-942-4368				
Last Na	ame:	Bower	İ														1 .					
No Dat	ta Indicator (NODI)																					
Form N	NODI:	_																				
		meter	Monitoring Locat	tion S	Season #	Param. NOD	1		Quanti	ity or Load	ing						Quality or Concentrat	ion		# of Ex	Frequency of Analys	is Sample Tyr
Code		Name						Qualifier 1	1 Value 1	Qualifier	2 Value 2 V	Units Qu	alifier 1 Va	lue 1 Q	ualifier 2 \	/alue 2 Qual		Value 3	Units			
							Sample Permit Req	-								= <=	0.3 0.3 MAXIMUM		2F - tox acute 2F - tox acute		01/90 - Quarterly 01/90 - Quarterly	24 - COMP2 24 - COMP2
61425	Toxicity [acute], Ceriodap	hnia dubia	V - See Comme	nts	0	-	Value NOD										D.O MAXIMOM		zi - tox acute	0	01/80 - Guarterly	24-00MF2
				-			Sample		_			_		_		-	1.0		2G - tox chronic		01/90 - Quarterly	24 - COMP2
01400	Toxicity [chronic], Ceriod	autoria doloia	V - See Comme		0		Permit Req									<=	1.0 MAXIMUM		2G - tox chronic		01/90 - Quarterly	24 - COMP2
61426	Toxicity [chronic], Ceriod	apnnia dubia	v - See Comme	nts	U	_	Value NOD													U		
				_			Sample							_								
61427	Toxicity [acute], Pimepha	les promelas [Fathead Minnow]	V - See Comme	nts	0	_	Permit Req									<=	0.3 MAXIMUM		2F - tox acute		01/90 - Quarterly	24 - COMP2
		,					Value NOD										9 - Conditional Monit	oring - Not Required This Period				
							Sample															
61428	Toxicity [chronic], Pimepl	nales promelas [Fathead Minnow]	V - See Comme	nts	0	-	Permit Req									<=	1.0 MAXIMUM		2G - tox chronic		01/90 - Quarterly	24 - COMP2
							Value NOD										9 - Conditional Monit	oring - Not Required This Period				
Submi	ssion Note																					
If a par	ameter row does not conta	in any values for the Sample nor E	ffluent Trading, th	hen n	one of	the following	g fie <b>l</b> ds will	be submi	itted for	that row:	Units, N	lumber	of Excurs	sions, F	requenc	y of Analy	sis, and Sample Type.					
Edit Cl	heck Errors																					
No erro	ors.																					
Comm	ents																					
		ork State Codes, Rules, and Regu	lations 6NYCRR	. Part	750-2	e)(3), the N	ew York Fr	vironmer	ntal Lah	oratory A	ccreditat	tion Pro	ogram (N	YELAP	) identific	ation num	bers for Laboratories ner	forming analysis for the WV/DF	DMR's are as	follows	s: 1) Eurofins: NY La	ib No.
10026;	2) General Engineering La	boratory: NY Lab No. 11501, and I invironmental Services is 0.02 mg/l	New England Bio																			
Attach	ments																					

Attachments

W/DP\_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)

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

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Permitted   Perm	iis Sample Typy
Major   Pemilited Feature   Pemilited Featur	sis Sample Тург
Permitted Feature:	is Sample Турс
SANITARY, NC COOLING WATER, UTILITY WASTEWATER, STORMWATER, STOR	sis Sample Турс
Man   David   Period   Perio	sis Sample Type
Principal Executive Office   Principal Exec	sis Sample Type
## Parm Reg.   Director, USDGE-WVDP   Telephone   Tel	sis Sample Type
First Name   Bryan C.   Last Name   Bryan C	sis Sample Type
Control   Cont	sis Sample Type
No Data   Indicator (NODI)   Form NODI:	sis Sample Type
Parameter   Para	sis Sample Type
Parameter   Montoring Location   Parameter   Montoring Location   Param. NOD   Pa	sis Sample Type
Code   Name   Code   Name   Code   Name   Code   Name   Code	sis Sample Type
Outside   Outs	
Oxygen demand, ultimate	
Name	CA - CALCTD
Oxygen, dissolved [DO]	
Value NOD    C - No Discharge	u on on-
00310   BOD, 5-day, 20 deg. C	tn GR-GRAB
00310   0050	
Value NOD    C - No Discharge	th 24-COMP24
00400 pH 1 - Efflient Gross 0 - Permit Req. 0	
Value NOD    C - No Discharge	
Sample     Sample       Sample	th GR-GRAB
O0530         Solids, total suspended         1 - Effluent Gross         0	
Value NODI C - No Discharge C - No Discharge	th 24 - COMP24
Sample	
00545 Solids, settleable 1 - Efficient Gross 0 - Permit Req. Req Mon MO AVG <= 0.3 DAILY MX 25 - mU/L 02790 - Twice Per Mc	th GR-GRAB
Value NODI C - No Discharge C - No Discharge	
Sample	
00556 Oil & Grease 1 - Effluent Gross 0 - Permit Req. 1 - Effluent Gross 0 - Permit Re	tn GR-GRAB
Value NODI C - No Discharge C - No Discharge	
Sample   Sample     Sample     O0615   Nitrogen, nitrite total [as N]	24 - COMP24
Value NODI C - No Discharge C - No Discharge	
Sample	
00625 Nitrogen, Kjeldahi, total [as N] 1 - Effuent Gross 0 - Permit Req. 10100 - Monthly 10100	24 - COMP24
Value NODI C - No Discharge C - Ne Discharge	Joint E !
Sample  Brailles MO MV Des Mac PARTY MY 40 and 2000 Tales For Mac	
01045   Iron, total [as Fe]	
	th 24 - COMP24

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

Submission Note
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Edit Check Errors

Comments

Report Last Saved By
U.S. DEPT OF ENERGY

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

william.kean@chbwv.com

Report Last Signed By
User:
Name:
E-Mail: ELIZABETH.LOWES@CHBWV.COM Elizabeth Lowes elizabeth.lowes@chbwv.com 2024-07-16 10.58 (Time Zone: -04:00) Date/Time:

Form Approved OMB No. 2040-0004 expires on 07/31/2026 **DMR Copy of Record** 

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Permit																		
Permit #:	NY0000973	Permittee:		l	J.S. DEPT O	F ENERGY					Facility			WEST VAL	LEY DEMONST	RATION	PROJ	
Major:	Yes	Permittee Add	ress:			NDENCE AVE N, DC 20585	SW				Facility	Location	n:		K SPRINGS RO LEY, NY 14171			
Permitted Feature:	007 External Outfall	Discharge:			007-W DUTFALL 00	7 WET TEST <b>I</b> NG	QUARTER	LY										
Report Dates & Status		·																
Monitoring Period:	From 04/01/24 to 06/30/24	DMR Due Date	:	(	8/28/24						Status:			NetDMR Va	alidated			
Considerations for Form Com	pletion	·									·							
SEE PERMIT FOOTNOTES FO	R WET TESTING REQUIREMENTS																	
Principal Executive Officer																		
First Name:	Bryan C.	Title:			Director, USE	OE-WVDP					Telepho	one:		716-942-43	68			
Last Name:	Bower										·							
No Data Indicator (NODI)																		
Form NODI:	-																	
	Parameter	Monitoring Location	Season #	Param. NOD	1		ntity or Loadi						or Concent			# of Ex	Frequency of Analysis	Sample Type
Code	Name				Sample	Qualifier 1 Valu	1 Qualifier	Value 2 U	its Qualifier	1 Value 1	Qualifier 2	Value 2	Qualifier 3	Value 3	Units			
61425 Toxicity [acute], Cerioc	tanhnia dubia	V - See Comments	0	_	Permit Req.							<	= 1	0.3 MAXIMUM	2F - tox acute		01/90 - Quarterly	24 - COMP24
Toxiony [addic], derior	aprilla dabia	000 0011110110			Value NODI									C - No Discharge				
					Sample													
61426 Toxicity [chronic], Ceri	iodaphnia dubia	V - See Comments	0	-	Permit Req.							<		1.0 MAXIMUM	2G - tox chronic		01/90 - Quarterly	24 - COMP24
					Value NODI									C - No Discharge				
					Sample Permit Req.				-				-	0.3 MAXIMUM	2F - tox acute		01/90 - Quarterly	24 - COMP24
61427 Toxicity [acute], Pimen	hales promelas [Fathead Minnow]	V - See Comments	0	-	Value NODI									C - No Discharge	21 - IDA BUILE		0 1790 - Qualitetry	24 - COMF 24
					value HODI									C - No Discharge				
71.					Sample													
	ephales promelas [Fathead Minnow]	V - See Comments	0	_	Sample Permit Req.							<		1.0 MAXIMUM	2G - tox chronic	-	01/90 - Quarterly	24 - COMP24

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Edit Check Errors

Comments

Report Last Saved By U.S. DEPT OF ENERGY

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

Date/Time 2024-07-16 10:28 (Time Zone: -04:00)

Report Last Signed By

ELIZABETH.LOWES@CHBWV.COM

 Name:
 Elizabeth Lowes

 E-Mait
 elizabeth.lowes@chbwv.com

 Date/Time:
 2024-07-16 10.58 (Time Zone: -04.00)

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remm																				
Permit #	:	NY0000973			Pe	rmittee:		U.S. [	EPT OF ENERGY				Facil	ity:	٧	VEST VALLEY DEM	ONSTRAT	ON PR	DJ	
Major:		Yes			Pe	rmittee Ad	dress:		NDEPENDENCE AV INGTON, DC 20585				Facil	ity Location:		0282 ROCK SPR <b>I</b> N VEST VALLEY, NY 1		9		
Permitte	d Feature:	01B Internal Outfall			Di	scharge:		01B-N MERO	I CURY PRETREATME	:NT										
Report D	Dates & Status																			
Monitori	ng Period:	From 06/01/24 to	06/30/24		DN	//R Due Dat	te:	07/28	24				Statu	is:	N	letDMR Validated				
Conside	rations for Form Comple	tion											· ·							
Principa	l Executive Officer																			
First Na	me:	Bryan C.			Tit	le:		Direct	or, USDOE-WVDP				Tele	ohone:	7	16-942-4368				
Last Nar	me:	Bower											·							
No Data	Indicator (NODI)																			
Form NC	DDI:																			
	Parameter	Monitoring Location	Season #	Param. NODI			Qua	intity or Loa	ding					Quality or Conce	entration			# of Ex.	Frequency of Analysis	Sample Typ
Code	Name					Qualifier 1	Value 1	Qualifier 2	Value 2	Units	Qualifier 1	Value 1	Qualifier 2	Value 2	Qualifier 3	Value 3	Units			
					Sample Permit Req.		Reg Mon MO AVG		Reg Mon DAILY MX	07 - gal/d									01/07 - Weekly	CN - CONTIN
00056	Flow rate	1 - Effluent Gross	0	-	Value NODI		C - No Discharge		C - No Discharge	or - gaid									O IIO7 - Weekly	CN - CONTIN
					Sample															
71900	Mercury, total [as Hg]	1 - Effluent Gross	0	_	Permit Req.									Req Mon MO AVG	c=	50.0 DAILY MX	3M - ng/L		02/BA - Twice Per Batch	GR - GRAB
					Value NODI									C - No Discharge		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

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Permit #:		NY0000973		Permitt	ee:		U.S	DEPT OF	ENERGY	(				Facility:		WEST V	ALLEY DEN	IONSTR.	AT <b>I</b> ON PROJ	
Major:		Yes		Permitt	ee Address:			0 INDEPEN SHINGTON			/			Facility L	ocation:		OCK SPR <b>I</b> N ALLEY, NY			
Permittee		116 Internal Outfall		Dischar	rge:		116 PSI	i-M EUDO MON	N. POINT	@FRAN	IKS CRK									
Report D	ates & Status																			
Monitorin	ng Period:	From 06/01/24 to 06/30/24		DMR D	ue Date:		07/	28/24						Status:		NetDMR	Validated			
Consider	rations for Form Complet	on																		
IF PSUE	DO MONITORING POINT I	REPORT IS NOT REQUIRED D	URING THE	MONITORIN	G PERIOD, E	THER CH	ECK THE	ENO DISCH	HARGE B	OX OR E	ENTER 'N	IODI A'I	N PLACE (	OF A MEASUREMEN	TO INDICA	ATE A GENERAL PE	RMIT EXEM	PTION.		
Principal	Executive Officer																			
First Nan	ne:	Bryan C.		Title:			Dire	ector, USDO	DE-WVDP	•				Telephor	ne:	716-942	4368			
Last Nan	ne:	Bower												•						
No Data	Indicator (NODI)																			
Form NO	DI:	-																		
	Parameter	Monitoring Location	Season #	Param. NODI				ity or Loading						Quality or Conc				# of Ex.	Frequency of Analysis	Sample Type
Code	Name					Qualifier 1	Value 1	Qualifier 2	Value 2	Units Qu	ualifier 1	Value 1	Qualifier 2	Value 2	Qualifier 3	Value 3	Units			
					Sample Permit Req.									Reg Mon MO AVG	c=	500.0 DAILY MX	19 - mg/L		02/DS - Twice Per Discharge	CA - CALCTD
70295	Solids, total dissolved	Z - Instream Monitoring	0	-	Value NODI									C - No Discharge	i i	C - No Discharge	io ligit		obbo ( moc ) el bischarge	DIT GALGID
					value MODI									O - NO Discharge		O - No Discharge				

Submission Note

Permit

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:
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 Date/Time:
 2024-07-16 10:28 (Time Zone: -04:00)

Report Last Signed By

 User:
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 Name:
 Elizabeth Lowes

 E-Mail:
 elizabeth.lowes@chbwv.com

 Date/Time:
 2024-07-16 10:58 (Time Zone: -04:00)

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Permit																				
Permit #:		NY0000973			Permitte	e:		U.S	DEPT C	FENE	RGY			Facility:		WEST VALL	EY DEMONS	TRATIO	N PROJ	
Major:		Yes			Permitte	e Address:			INDEPE SHINGTO		ICE AVE SI 20585	N		Facility Loc	ation:	10282 ROCI WEST VALL	K SPRINGS F .EY, NY 1417			
Permitted	d Feature:	SUM Internal Outfall			Discharg	je:		SU!	<b>I-N</b> I OF OU	TFALL	S1&7									
Report D	ates & Status																			
Monitorin	ng Period:	From 06/01/24 to 0	6/30/24		DMR Du	e Date:		07/2	8/24					Status:		NetDMR Val	lidated			
Consider	rations for Form Com	pletion												•						
Principal	Executive Officer																			
First Nan	ne:	Bryan C.			Title:			Dire	ctor, USE	DOE-W	NDP			Telephone:		716-942-436	38			
Last Nam	ne:	Bower												·						
No Data I	Indicator (NODI)																			
Form NO	DI:	-																		
	Parameter	Monitoring Location	Season #	Param. NODI				ity or Loading						Quality or Con-				# of Ex.	Frequency of Analysis	Sample Typ
Code	Name					Qualifier 1	Value 1	Qualifier 2	Value 2	Units	Qualifier 1	Value 1	Qualifier 2	Value 2	Qualifier 3	Value 3	Units			
					Sample									Rea Mon MO AVG	<=	4.0.048.1/140/	10 11		01/30 - Monthly	CA - CALCTD
01045	Iron, total [as Fe]	2 - Effluent Net	0	-	Permit Req.									-	e=	1.0 DAILY MX	19 - mg/L		U1/3U - Montnly	CA - CALCID
					Value NODI									C - No Discharge		C - No Discharge				
Submissi	ion Note																			
If a param	neter row does not con	tain any values for the San	nple nor Eff	luent Trading, th	en none of th	e following fi	elds will b	e submitted	for that ro	w: Uni	ts, Number	of Excurs	sions, Frequ	ency of Analysis, and	Sample Type.					
Edit Che	ck Errors																			

Туре

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Edit Check Errors

No errors.

Attachments

WVDP_June	2024_N	et_Iron_Ca	cualtion pdf

Report Last Saved By
U.S. DEPT OF ENERGY
User: william.kean@chbwv.com

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

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 User:
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 Elizabeth Lowes

 E-Mail:
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 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

Parameter	D	Results in mg/L		Permit No. NY-0000973
Group	Parameter	First Flush	Flow-Weighted	Compliance Limit
		Grab	Composite	
Group A	рН	7.9 S.U.	N.R.	Not Specified in Permit.
Parameters	Oil and Grease	1.6	N.R.	15 mg/L
	BOD-5	< 12	< 3.0	Not specified in permit.
	Total Suspended Solids (TSS)	18	14	N.R. = Not Required.
	Total Dissolved Solids (TDS)	1600	1400	]
	Phosphorus, Total	0.12	0.062	Data was flagged "R"
Group B	Aluminum	4.2	2.6	unreliable during the data
Parameters	Iron	4.3	2.8	validation process.
	Copper, Total Recoverable (TR)	0.0060	0.0044	
	Lead (TR)	0.0036	0.0024	
	Zinc (TR)	0.028	0.019	
Group C	Total Nitrogen (as N)	< 0.79	< 0.53	
Parameters	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	Date(s) of event monitored	04/02/24	04/02/24	
Event and Monitoring Summary	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	04/02/24	04/02/24	
	collection	1255	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

Parameter		Results in mg/I	L	Permit No. NY-0000973
Group	Parameter	First Flush	Flow-weighted	Compliance Limit
		Grab /	Composite	
		Duplicate	Composite	
Group A	pH	7.6 / 7.6 S.U.	N.R.	Not Specified in Permit.
Parameters	Oil and Grease	< 1.6 / < 1.6	N.R.	15 mg/L
	BOD-5	5.1 / 5.3	1.7	Not specified in permit.
	Total Suspended Solids (TSS)	22 / 19	6.4	N.R. = Not Required.
	Total Dissolved Solids (TDS)	770 / 760	820	7
	Phosphorus, Total	0.077 / 0.023	< 0.020	1
Group B	Aluminum	0.051 / 0.067	< 0.019	1
Parameters	Iron	2.9 / 2.5	0.80	7
	Copper, Total Recoverable	< 0.00064 /	0.00040	1
	(TR)	< 0.00072		
	Lead (TR)	< 0.00050 /	< 0.00050	1
		< 0.00050		
	Zinc (TR)	0.0081 /	< 0.0033	1
		0.0082		
Group C	Total Nitrogen (as N)	N.R.	N.R.	
Parameters	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	Date(s) of event monitored	05/22/24	05/22/24	
Event and Monitoring	Duration of storm event, in minutes	N.R.	135	Rain started at 1315 EST on 05/22/24 and ended at 1530
Summary	Data and Time of a 1	05/22/24	05/22/24	EST on 05/22/24.
	Date and Time of sample	05/22/24	05/22/24	
	collection  Sampling Duration (Minutes)	1510	1755	
	Sampling Duration (Minutes)  Total rainfall during sampling	Instantaneous N.R.	180	+
	event, in inches	1N.IX.	0.16	
	Number of hours between event	N.R.	162	Precipitation of 0.49 inches
	sampled and previous measurable (> 0.1 inch) event	11.10.	102	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

Parameter		Results in mg/L, Mercury, total		Permit No. NY-0000973
Group	Parameter	in ng/L via method 1631		Compliance Limit
•		First Flush	Flow-Weighted	7
		Grab	Composite	
Group A	рН	7.9 S.U.	N.R.	Not specified in permit.
Parameters	Oil and Grease	< 1.6	N.R.	15 mg/L
	BOD-5	4.9	5.4	Not specified in permit.
	Total Suspended Solids (TSS)	160	120	N.R. = Not Required.
	Total Dissolved Solids (TDS)	320	360	7
	Phosphorus, Total	0.28	0.20	
Group B	Aluminum	0.65	0.63	
Parameters	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	Total Nitrogen (as N)	< 1.3	< 1.0	
Parameters	TKN	1.1	0.82	7
	Nitrate Nitrogen (as N)	0.18	0.18	
	Nitrite Nitrogen (as N)	< 0.020	< 0.020	
	Ammonia Nitrogen (as NH3)	0.045	0.034	7
	Cadmium, TR	N.R.	N.R.	
	Chromium, TR	N.R.	N.R.	1
	Hexavalent Chromium, TR	N.R.	N.R.	_
	Selenium, TR	N.R.	N.R.	
	Vanadium, TR	N.R.	N.R.	1
	Surfactant (as LAS)	N.R.	N.R.	_
	Alpha BHC	< 0.0000067	< 0.0000063	
	Settleable Solids	N.R.	N.R.	
	Sulfide	N.R.	N.R.	7
	Mercury, Total (ng/L)	12	N.R.	1
	Paraquat Dichloride	N.R.	N.R.	1
Flow	Total Flow, gallons	N.R.	9,400	
	Maximum Flow rate, gallons	120	N.R.	
	per minute			
	Method of flow measurement	Staff Gauge		
Rainfall	Date(s) of event monitored	4/11/24	4/11/24	
Event and Monitoring Summary	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	4/11/24	4/11/24	
	collection	0630	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

Parameter	D	Results in mg/L	<u>g</u>	Permit No. NY-0000973
Group	Parameter	First Flush Grab / Duplicate	Flow-Weighted Composite	Compliance Limit
Group A	рН	7.8 S.U.	N.R.	Not specified in permit.
Parameters	Oil and Grease	1.6	N.R.	15 mg/L
	BOD-5	< 2.0	< 2.0	Not specified in permit.
	Total Suspended Solids (TSS)	140	53	N.R. = Not Required.
	Total Dissolved Solids (TDS)	820	610	
	Phosphorus, Total	0.17	0.12	
Group B	Aluminum	7.3	4.8	
Parameters	Iron	8.4	4.5	7
	Copper, Total Recoverable (TR)	0.012	0.0066	
	Lead (TR)	0.0077	0.0036	
	Zinc (TR)	0.073	0.047	7
Group C	Total Nitrogen (as N)	N.R.	N.R.	
Parameters	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		<del>_</del>
Rainfall	Date(s) of event monitored	04/02/24	04/02/24	
Event and Monitoring Summary	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	04/02/24	04/02/24	
	collection	1255	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

Parameter		Results in mg/L, mL/L for		Permit No. NY-0000973	
Group	Parameter	Settleable Solids		Compliance Limit	
		First Flush	Flow-Weighted		
		Grab	Composite		
Group A	рН	7.6 S.U.	N.R.	Not specified in permit.	
Parameters	Oil and Grease	< 1.6	N.R.	15 mg/L	
	BOD-5	6.8	5.1	Not specified in permit.	
	Total Suspended Solids (TSS)	2500	1500	N.R. = Not required.	
	Total Dissolved Solids (TDS)	590	440		
	Phosphorus, Total	0.61	0.60		
Group B	Aluminum	34	16		
Parameters	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	Total Nitrogen (as N)	< 5.8	< 2.8		
Parameters	TKN	5.6	2.7	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	7	
	Cadmium, TR	N.R.	N.R.		
	Chromium, TR	N.R.	N.R.		
	Hexavalent Chromium, TR	N.R.	N.R.	7	
	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	320	N.R.		
	per minute	Ct CC C			
D - ! C-11	Method of flow measurement	Staff Gauge	1/24/24	T	
Rainfall	Date(s) of event monitored	4/24/24	4/24/24	D: 4 4 1 4 0645 FGT	
Event and Monitoring Summary	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	4/24/24	4/24/24		
	collection	0830	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		Results in mg/L, mL/L for		Permit No. NY-0000973
Group	Parameter	Settleable Solid	ds	Compliance Limit
		First Flush	Flow-weighted	1
		Grab	Composite	
Group A	рН	7.8 S.U.	N.R.	Not specified in permit.
Parameters	Oil and Grease	< 1.5	N.R.	15 mg/L
	BOD-5	4.8	4.2	Not specified in permit.
	Total Suspended Solids (TSS)	190	74	N.R. = Not required.
	Total Dissolved Solids (TDS)	310	340	1
	Phosphorus, Total	0.33	0.21	1
Group B	Aluminum	1.2	1.8	1
Parameters	Iron	2.1	2.5	1
	Copper, Total Recoverable (TR)	0.0065	0.0053	
	Lead (TR)	0.0049	0.0026	1
	Zinc (TR)	0.46	0.19	1
Group C	Total Nitrogen (as N)	1.3	0.95	1
Parameters	TKN	1.2	0.89	1
	Nitrate Nitrogen (as N)	0.031	0.021	1
	Nitrite Nitrogen (as N)	0.037	0.035	1
	Ammonia Nitrogen (as NH3)	0.042	0.050	1
	Cadmium, TR	N.R.	N.R.	1
	Chromium, TR	N.R.	N.R.	1
	Hexavalent Chromium, TR	N.R.	N.R.	1
	Selenium, TR	N.R.	N.R.	1
	Vanadium, TR	0.0025	0.0029	1
	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	
1 10 W	Maximum Flow rate, gallons	470	N.R.	
	per minute		14.14.	
Rainfall	Method of flow measurement	Staff Gauge	05/15/24	I
	Date(s) of event monitored	05/15/24		Dain started at 1220 EST an
Event and Monitoring Summary	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	05/15/24	05/15/24	
	collection	1425	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

Parameter	Withing I criod.	Results in mg/L	<b>g</b>	Permit No. NY-0000973
Group	Parameter		T	Compliance Limit
		First Flush	Flow-weighted	
~ .		Grab/Duplicate	Composite	
Group A	pH	7.9 S.U.	N.R.	Not specified in permit.
Parameters	Oil and Grease	< 1.6	N.R.	15 mg/L
	BOD-5	5.2	4.9	Not specified in permit.
	Total Suspended Solids (TSS)	< 4.0	6.4	N.R. = Not required.
	Total Dissolved Solids (TDS)	11	< 2.4	
	Phosphorus, Total	0.067	0.067	
Group B	Aluminum	0.17	0.065	
Parameters	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	Total Nitrogen (as N)	1.2	1.4	
Parameters	TKN	0.83	1.1	_
	Nitrate Nitrogen (as N)	0.28	0.26	7
	Nitrite Nitrogen (as N)	0.035	0.024	
	Ammonia Nitrogen (as NH3)	0.77	1.1	1
	Cadmium, TR	N.R.	N.R.	1
	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	
FIOW		1,600		
	Maximum Flow rate, gallons per minute	Í	N.R.	
D 1 0 11	Method of flow measurement	Staff Gauge	1 - 1 - 1 - 1	T
Rainfall	Date(s) of event monitored	5/15/24	5/15/24	
Event and Monitoring Summary	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	5/15/24	5/15/24	
	sample collection	1425	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

Parameter		Results, in mg/L		Permit No. NY-0000973 Compliance Limit	
Group	Parameter	First Flush Flow-Weighted			
		Grab	Composite		
Group A	pH	7.6 S.U.	N.R.	Not specified in permit.	
Parameters	Oil and Grease	< 1.5	N.R.	15 mg/L	
1 drameters	BOD-5	2.5	< 2.0	Not specified in permit.	
	Total Suspended Solids (TSS)	63	28	N.R. = Not Required.	
	Total Dissolved Solids (TDS)	200	280	11.11. Hot Required.	
	Phosphorus, Total	0.054	0.12	†	
Group B	Aluminum	1.4	0.68	†	
Parameters	Iron	1.5	0.69	†	
1 drumeters	Copper, Total Recoverable (TR)	0.0030	0.0031	-	
	Lead (TR)	0.0022	0.0023	1	
	Zinc (TR)	< 0.015	< 0.015	1	
Group C	Total Nitrogen (as N)	< 1.0	< 0.80	1	
Parameters	TKN	0.95	0.64	1	
	Nitrate Nitrogen (as N)	0.028	0.14	1	
	Nitrite Nitrogen (as N)	< 0.020	< 0.020	1	
	Ammonia Nitrogen (as NH3)	0.032	0.037	1	
	Cadmium, TR	N.R.	N.R.	7	
	Chromium, TR	N.R.	N.R.	7	
	Hexavalent Chromium, TR	N.R.	N.R.	7	
	Selenium, TR	N.R.	N.R.	1	
	Vanadium, TR	N.R.	N.R.	7	
	Surfactant (as LAS)	0.021	0.027	7	
	Alpha BHC	N.R.	N.R.	7	
	Settleable Solids	N.R.	N.R.		
	Sulfide	N.R.	N.R.		
	Paraquat Dichloride	N.R.	N.R.	1	
Flow	Total Flow, gallons	N.R.	58,000		
	Maximum Flow rate, gallons per minute	360	N.R.		
	Method of flow measurement	Staff Gauge			
Rainfall	Date(s) of event monitored	4/24/24	4/24/24		
Event and Monitoring Summary	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	4/24/24	4/24/24		
	collection	0840	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

### **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



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

Laboratory Job ID: 480-220418-1 SDG: 1457

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#### **Case Narrative**

Client: CH2M Hill BWXT West Valley (CHBWV)

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.

Job ID: 480-220418-1

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### **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

77 Batson Drive Manchester, CT 06042 (860)-643-9560 www.nebio.com

## **Aquatic Toxicity Testing Services**

#### **CHRONIC AQUATIC TOXICITY TEST REPORT**

New England Bioassay Inc.

Permitee:	West Valley	Demonstration	n Proje	ect	NPDES #	NY0	000973
Report submitted to:	Т	Test America					
	10 Hazelv	vood Dr, Amh	erst NY	,			
Sample ID:		Outfall 001					
Test Month/Year:		May 2024					
NEB Proj #		44240			-		
Test Type / Method:	Test Type / Method: <i>Ceriodaphnia dubia</i> Modified Chronic Static-Renewal Freshwater Test Method 1002.0; EPA 821-R-02-013					ater	
Effluent Sample Dates:	#15/1-2/	<u>/</u> 24 #2	5/5	5-6/24			
Test Start	Date:	5/	3/24				
Results Summary							
Your results were as fol	lows:						
Passed all permit limits							
	ļ.	Acute Test Res	ults				
Species	LC50	TUa		Perr	nit Limit	l	Pass / Fail
Ceriodaphnia dubia	>100% 0.3 TUa ≤ 0.3 Pass						
	Cl	hronic Test Re	sults				
Species	C-NOEC	TUc	IC	25	Permit l	.imit	Pass/Fail
Ceriodaphnia dubia	100%	1.0	>10	00%	TUc≤	1.0	Pass
Data Qualifiers affecting this test:							

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

This report shall not be reproduced, except in its entirety, without approval of NEB. NEB is the sole authority for authorizing edits or modifications to the data contained in this report. NEB holds no responsibility for results and/or data that are not consistent with the original. Please contact the Lab Director, Kimberly Wills, at 860-643-9560 or kimberly.wills@nebio.com if you have questions concerning these results.

### 

## 

# 

# **Test Report Certification**

Permittee name: _	west valley Demonstrat	tion Project	Permit number:	NY0000973
Client sample ID:	Outfall 001		Test Start Date:	5/3/24
	1 -60			
Wh	ole Effluent Toxicity Te	st Report Ce	ertification (Permit	tee)
supervision in acc evaluate the informa those persons direc knowledge and	ealty of law that this document cordance with a system design ation submitted. Based on my i ctly responsible for gathering ir belief, true, accurate, and com information, including the pos	ed to assure th inquiry of the p nformation, the plete. I am awa	at qualified personnel person or persons who me information submitted are that there are significated.	roperly gather and nanage the system, or is, to the best of my cant penalties for
_	(Date)	Authoriz	ed Signature	
		Print or	Type Name and Title	
			Type traine and train	
		Print or	Type the Permittee's Na	me
			NIV.000077	
		Drint or	NY0000973	
		Print Of	Type the NPDES Permit	Number
Whole E	ffluent Toxicity Test Rep	port Certific	ation (Bioassay La	boratory)
I certify under pen supervision in acc evaluate the informa those persons direc knowledge and	The results reported relate on alty of law that this document cordance with a system designation submitted. Based on my interly responsible for gathering in belief, true, accurate, and cominformation, including the pos	and all attachr ed to assure th inquiry of the p nformation, the plete. I am awa	ments were prepared un at qualified personnel p erson or persons who m e information submitted are that there are signifi	der my direction or roperly gather and nanage the system, or is, to the best of my cant penalties for
Executed on: _	6/3/24		<i>Kimberly W</i> Kimberly Wi	Vills
	(Date)		.55%	
			Laboratory Dire New England Bioa:	
			New Eligiana bloa.	July IIIC.

### 1

## **General Test Conditions**

Permittee name:	West Valley Demonstration P	roject	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 @ 111	.5		
Effluent #2 Dates/Times:	5/5-6/24 @ 0730-0730	_Receiving Water	#2 Date/Time:	5/6/24 @ 070	0		
Were a minimum of three sa	amples collected? Yes	No ✓ *(see n	ote below)				
Were samples used within t	he first 36 hours of collection?	Yes 🗸	No □ * (see no	te below)			
* sample collection note:	NYSDEC has approved West Vall for their chronic testing due to t	•	-	y two sets of samples			
	Test Cor	nditions					
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)  Iffluent concentrations tested: 0%, 6.25%, 12.5%, 25%, 50%, 100%  Was effluent salinity adjusted? No							
	Reference To	oxicant Data					
	Ceriodaph	nia dubia					
	Date:	5/6/24					
	Toxicant:	Sodium chlorid	<u>e</u>				
	Dilution Water:	NEB CTRMH					
	Organism Source:	NEB					
	Reproduction IC25: _ Results within range	0.83 g	<u>/L</u>				

Permit number: NY0000973

# 5/10/24

-	Test Accent	ability C	uit a vi a

Permittee name: West Valley Demonstration Project

Client sample ID: Outfall 001

reserves present				_
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**

Ceriodaphnia dubia Test Results

Test Dates: <u>5/3/24</u>

		Permit Limit	Test Result	Pass/Fail Status
Asuta	48 hr LC50		>100%	
Acute Data	48 hr NOEC		100%	
Data	TUa	≤ 0.3	0.3	Pass
	Chronic LC50		>100%	
	Survival C-NOEC		100%	
	Survival C-LOEC		>100%	
	Reproduction C-NOEC		100%	
Chuania	Reproduction C-LOEC		>100%	
Chronic Data	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	
$\square$ 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)	
$\square$ 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 nam	e: <u>\</u>	West Valley Demonstration Project			Permit number:		
Client sample ID:		Outfall 001	Test Da	ites:	5/3/24	5/10/24	
		Concentration -	Response Evaluation	on			
		t effects at any test concer erformed very similarly to		ncentrat	tion-response cu	urve. Test	
•	_	t effects at any test concer ons performed both above				•	
The concentratic	on - response rela Reproduction	itionship was reviewed and	d the following detern	nination	was made:		
X	X	Results are reliable and re	eportable				
		Results are anomalous	(see explanation bel	low)			
		Results are inconclusive -	retest (see explanation	on below	v)		
		Results Discus	ssion (if applicable):	•			

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# **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)

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# CERIODAPHNIA DUBIA DATASHEETS & STATISTICAL ANALYSIS

24-771

## **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**

#### LABORATORY CONTROL WATER (MHRCF)

Lot Number	Hardness mg/L CaCO₃	Alkalinity mg/L CaCO <sub>3</sub>
C44-MH012	90	61

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

COMMENTS:								
FILTRATION:	The following	were filtered p	rior to use tl	hrough a 55 μ	m mesh filte	r due to the pre	esence of organi	isms:
	Sample:							
	Date/Tech:							
REVIEWED B	Y:	Kin	rberly U	Vills		DATE:	6/3/24	

#### NEW ENGLAND BIOASSAY - CHRONIC TOXICITY TEST BROOD DATA SHEET

FACILITY NAME & ADD	RESS: West	/alley Demon	stration	Project WSNP001,	10282 Rock Springs	s Rd Wes	t Valley NY
NEB PROJECT NUMBER	R: 44	240	NEB T	EST NUMBER:	24-771	COC#	C44-2575/76
TEST ORGANISM:	Ceriodaphnia du	bia	AGE:	<24 hours		Lot #	Cd24(RMH 115)
START DATE:	5/3/24	TIME: 12	239	END DATE:	5/10/24	TIME:	1302

			Cultur	e Lot#		(	Cd24(R	MH 11	L5)						
	Cup#	A2	А3	A5	A6	Α7	A9	A11	A15	A16	A17	Total Live	# Live	Analyst-	Analyst-
Effluent	Day					Rep	licate					Young	Adults	Transfer	Counts
Concentration	Number	Α	В	С	D	Е	F	G	Н	ı	J				
	0	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	0	10	ко	
	1	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	0	10	ко	
	2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	0	10	ко	
	3	✓	✓	✓	<b>√</b>	✓	6	6	✓	✓	7	19	10	GP	GP
NEB Lab	4	7	7	7	8	6	✓	✓	5	9	✓	49	10	DB	DB
Control	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		МС
		Α	В	С	D	E	F	G	Н	ı	J				
	0	✓	✓	<b>√</b>	✓	✓	✓	✓	✓	✓	✓	0	10		
	1	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	0	10		
	2	✓	✓	✓	<b>√</b>	✓	✓	✓	✓	✓	✓	0	10		
Erdman	3	7	7	8	<b>√</b>	✓	6	7	✓	✓	3	38	10		
Brook	4	✓	✓	<b>√</b>	7	7	1	✓	8	6	✓	29	10		
Diluent	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	✓	✓	<b>√</b>	✓	✓	✓	✓	✓	✓	✓	0	10		
	totals	47	52	48	49	45	56	44	49	51	43	484	10		
		Α	В	С	D	E	F	G	Н		J				
	0	✓	✓	✓	✓	✓	√	✓	✓	✓	✓	0	10		
	1	✓	✓	<b>√</b>	✓	✓	✓	✓	✓	✓	✓	0	10		
	2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	0	10		
	3	✓	7	7	7	✓	8	✓	✓	✓	8	37	10		
6.25%	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		

otes:				
_		-		
_				

#### 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

												Total			
Effluent	Day					Rep	licate					Live	# Live Adults		
Concentration	Number	Α	В	С	D	E	F	G	Н	_	J	Young			
	0	<b>\</b>	<b>\</b>	>	✓	<b>\</b>	<b>\</b>	<b>√</b>	<b>\</b>	✓	✓	0	10		
	1	<b>✓</b>	<b>✓</b>	<b>\</b>	✓	<b>√</b>	<b>√</b>	<b>√</b>	<b>✓</b>	✓	✓	0	10		
	2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	0	10		
	3	✓	8	7	✓	✓	8	8	8	7	9	55	10		
12.5%	4	7	✓	✓	6	5	✓	✓	✓	✓	✓	18	10		
12.570	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	✓	✓	✓	✓	✓	✓	<b>√</b>	✓	✓	✓	0	10		
	totals	47	49	48	48	47	51	53	47	48	50	488	10		
		Α	В	С	D	E	F	G	Н	ı	J				
	0	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	0	10		
	1	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	0	10		
	2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	0	10		
	3	✓	7	✓	✓	✓	7	8	✓	✓	6	28	10		
25%	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	<b>√</b>	✓	<b>√</b>	✓	<b>√</b>	√	<b>✓</b>	✓	1	✓	1	10		
	totals	44	51	46	49	43	45	48	44	48	47	465	10		
		A	В	С	D	E	F	G	Н		J	_			
	0	<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>	0	10		
	1	<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>	0	10		
	2	<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>	√ 10	<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>	0	10		
F00/	3	√ 2	7	7	√ -	<b>√</b>	10	7	<b>√</b>	√	8	39	10		
50%	4	3	√ 17	√ 16	7	6	√ 16	√ 10	8	6	√ 0	30	10		
	5	4	17	16	16	17	16	18	13	18	8	143	10		
	6 7	23 ✓	9	21 ✓	22 ✓	19	26	22	24	22 √	16 ✓	204	10		
	<u> </u>		✓			✓	✓	✓	√		<u> </u>	0	10		
	totals	30	33	44	45	42	52	47	45	46	32	416	10		
	totais		B	C	D D	E	F		H		J	410	10	<u> </u>	
	0	A	<b>b</b>	✓	<i>√</i>		<b>F</b> ✓	G ✓		   √	√ 	0	10		
	1	<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>	0	10		
	2	<b>√</b>	<b>√</b>	√ √	<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>	0	10		
	3	<b>✓</b>	8	8	6	✓ ✓	7	7	<b>✓</b>	<b>✓</b>	7	43	10		
100%	4	6	<u> </u>	<u>⋄</u>	√ -√	9	<i>✓</i>	<i>✓</i>	6	5	<i>/</i>	26	10		
100/0	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			∠4 ✓			√			√		0	10		
	<del></del>	<u> </u>	_ v	<b>V</b>			V	<b>'</b>	<b>V</b>	<u>'</u>	<del>                                     </del>		10		
	totals	49	44	51	43	50	56	48	48	51	46	486	10		
	ioidis	43	44	JΙ	L 43	ال ا	טכ	40	40	Ι	l 40	HOD	I TO		

Report Date: Test Code/ID: 16 May-24 08:33 (p 1 of 8) 24-771 / 17-8132-5935

										rest Code/ID:			7-0132-3933
Ceriodaph	nia 7-	d Survival and	d Reproduc	tion Tes	st						N	New Englan	d Bioassay
Analysis II Analyzed: Edit Date:	16	i-3125-2950 i May-24 8:31 i May-24 8:30	Anal	ysis: l	2d Survival Rat Linear Interpola 521A0DF2AE1I	tion (ICPIN	,	C7AEF	CETIS V Status L Editor II	.evel:	CET <b>I</b> Sv 1 008-848		
Batch ID: Start Date: Ending Da Test Lengt	: 03 te: 10	9-8017-2143 3 May-24 12:39 9 May-24 13:02 1 Oh	Prote	ocol: (	Reproduction-S EPA/821/R-02- Ceriodaphnia d Branchiopoda	013 (2002)	,		Analyst: Diluent: Brine: Source:	Rec Not	eiving Wat Applicable louse Cultu	:	<b>Age:</b> <24
•	ate: 02 ate: 03	i-5819-8449 ! May-24 12:00 ! May-24 08:26 ih		rial: I	5CE038B1 Not Applicable Eurofins				Project: Source: Station:	Wes	st Valley D	emonstration	n Project (N
Linear Inte	rpolat	tion Options											
X Transfor	m	Y Transform	Seed	l	Resamples	Exp 95%	CL M	ethod					
Log(X)		Linear	1510	128	200	Yes	Tv	vo-Point	Interpolati	ion			
Point Estir		95% LCL	95% UCL	Tox Un	nits 95% LCL	95% UCL	_						
LC50 >	100			<1									
2d Surviva	I Rate	Summary				Calculate	d Variate	(A/B)				Isotor	nic Variate
Conc-%		Code	Count	Mean	Median	Min	Max	CV	% %	Effect	ΣΑ/ΣΒ	Mean	%Effect
0		D	10	1.0000	1.0000	1.0000	1.0000	0.0	0.	00%	10/10	1.0000	0.00%
6.25			10	1.0000	1.0000	1.0000	1.0000	0.0	0.	00%	10/10	1.0000	0.00%
12.5			10	1.0000	1.0000	1.0000	1.0000	0.0	0.	00%	10/10	1.0000	0.00%

2d Survival R	ate Summary				Calculate		_	Isotor	nic Variate		
Conc-%	Code	Count	Mean	Median	Min	Max	CV%	%Effect	ΣΑ/ΣΒ	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 R	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 R	d 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			

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**Report Date:** 16 May-24 08:33 (p 2 of 8) **Test Code/ID:** 24-771 / 17-8132-5935

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New England Bioassay

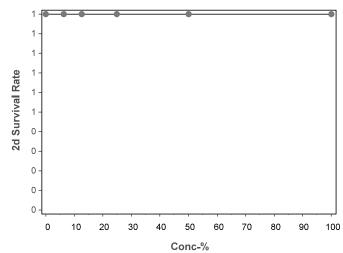
Ceriodaphnia 7-d Survival and Reproduction Test

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:

**Edit Date:** 16 May-24 8:30 **MD5 Hash:** 521A0DF2AE1E59D72392DBABE0C7AEF **Editor ID:** 008-848-998-5

#### Graphics



Report Date: Test Code/ID: 16 May-24 08:34 (p 1 of 4) 24-771 / 17-8132-5935

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Ceriodaphnia	7-d	Survival and	l Rep	roduction Te	est							N	ew Englar	nd Bioassay
Analysis ID: Analyzed: Edit Date:	16 N	7396-8263 Лау-24 8:31 Лау-24 8:30		Endpoint: Analysis: MD5 Hash:	STF	2xK Contir	ngency Tabl			CETIS V Status I Editor II	_evel:	1 CETISv2 1 008-848-		
Batch ID:	19-8	3017-2143		Test Type:	Rep	roduction-S	urviva <b>l</b> (7d)			Analyst				
Start Date:	03 N	/lay-24 12:39		Protocol:	EP/	4/821/R-02-0	013 (2002)			Diluent:	Re	ceiving Wate	er	
Ending Date:	10 N	Лау-24 13:02		Species:	Ceri	iodaphnia d	ubia			Brine:	No	t Applicable		
Test Length:	7d	0h		Taxon:	Brai	nchiopoda				Source:	In-	House Cu <b>l</b> tui	re e	Age: <24
Sample ID:	15-5	5819-8449		Code:	5CE	E038B1				Project:				
Sample Date:	02 N	Лау-24 12:00		Material:	Not	Applicable				Source:		est Valley De	monstratio	n Project (N
Receipt Date:		•		CAS (PC):						Station:		,		, `
Sample Age:	25h	-		Client:	Euro	ofins								
Data Transfor	rm		Alt I	Нур				NOEL	LOEI	_ T	OEL	Tox Units	<del></del>	
Untransformed	d		C > -	Γ				100	>100		-	1		
Fisher Exact/	sher Exact/Bonferroni-Holm Test													
Control	vs	Conc-%		Test S	Stat	P-Type	P-Value	Decision	ι(α:5%)					
Dilution Water		6.25		1.000	)	Exact	1.0000	Non-Sign	ificant E	ffect				
		12.5		1.000	0	Exact	1.0000	Non-Sign	ificant E	ffect				
		25		1.000	C	Exact	1.0000	Non-Sign	ificant E	ffect				
		50		1.000	0	Exact	1.0000	Non-Sign						
		100		1.000	0	Exact	1.0000	Non-Sign	ificant E	ffect				
2d Survival R	ate F	requencies												
Conc-%		Code	NR	R		NR + R	Prop NR	Prop R	%Eff	ect				
0		D	10	0		10	1.0000	0.0000	0.009	6				
6.25			10	0		10	1.0000	0.0000	0.009	6				
12.5			10	0		10	1.0000	0.0000	0.009	6				
25			10	0		10	1.0000	0.0000	0.009	6				
50			10	0		10	1.0000	0.0000	0.009	6				
100			10	0		10	1.0000	0.0000	0.009	6				
2d Survival R	ate S	Summary												
Conc-%		Code	Cou	nt Mean		95% LCL	95% UCL	Median	Min	M	lax	Std Err	CV%	%Effect
0		D	10	1.000	0	1.0000	1.0000	1.0000	1.000	00 1.	.0000	0.0000	0.00%	0.00%
6.25			10	1.000	0	1.0000	1.0000	1.0000	1.000	00 1.	.0000	0.0000	0.00%	0.00%

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

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New England Bioassay

#### Ceriodaphnia 7-d Survival and Reproduction Test

**Analysis ID:** 16-7396-8263

Endpoint: 2d Survival Rate

**CETIS Version:** 

CETISv2.1.4

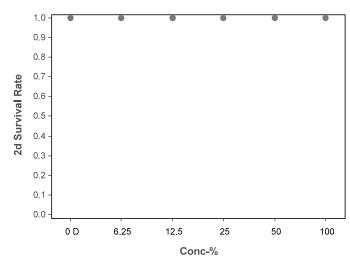
Analyzed: 16 May-24 8:31 Analysis: STP 2xK Contingency Tables Status Level:

**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**



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Ceriodaphnia 7-d Survival and Reproduction Test

16 May-24 08:33 (p 3 of 8) 24-771 / 17-8132-5935

24-771 / 17-8132-5935 New England Bioassay

Report Date:

Test Code/ID:

Analysis ID: Analyzed: Edit Date:	06-8153-2060 16 May-24 8:31 16 May-24 8:30	Anal	ysis: Lir	Survival Rate near Interpolat 152646E9EC	tion (ICPIN	,		CETIS Vers Status Leve Editor ID:		CETISv2 1 008-848		
Batch ID: Start Date: Ending Date: Test Length:	•	Prot	ocol: EF cies: Ce	eproduction-Se PA/821/R-02-Ceriodaphnia du anchiopoda	013 (2002)	)		Analyst: Diluent: Brine: Source:	Not A	iving Wate Applicable ouse Cultu		<b>Age</b> : <24
•	15-5819-8449 : 02 May-24 12:00 : 03 May-24 08:26 25h		erial: No (PC):	EE038B1 of Applicable				Project: Source: Station:	West	: Valley De	emonstration	n Project (N
Linear Interp	olation Options											
X Transform	Y Transform	Seed	t	Resamples	Exp 95%	CL Me	thod					
Log(X)	Linear	1270	724	200	Yes	Tw	o-Point I	nterpo <b>l</b> ation				
Test Accepta	bility Criteria	TAC Li	mits									
Attribute	Test Stat		Upper	Overlap	Decision							
Control Resp	1	8.0	<<	Yes	Passes C	riteria						
Point Estima	tes											
Level %	95% LCL	95% UCL	Tox Units	s 95% LCL	95% UCL							
LC50 >100	)		<1									
7d Survival F	Rate Summary				Calculate	d Variate(	A/B)				Isoton	ic Variate
Conc-%	Code	Count	Mean	Median	Min	Max	CV%	%Eff	ect	ΣΑ/ΣΒ	Mean	%Effect
0	D	10	1.0000	1.0000	1.0000	1.0000	0.00	% 0.009	%	10/10	1.0000	0.00%
6.25		10	0.9000	1.0000	0.0000	1.0000	35.14	4% 10.00	)%	9/10	0.9800	2.00%
12.5		10	1.0000	1.0000	1.0000	1.0000	0.00	% 0.009	%	10/10	0.9800	2.00%
25		10	1.0000	1.0000	1.0000	1.0000	0.00	% 0.009	%	10/10	0.9800	2.00%
50		10	1.0000	1.0000	1.0000	1.0000	0.00	% 0.009	%	10/10	0.9800	2.00%
100		10	1.0000	1.0000	1.0000	1.0000	0.00	% 0.009	%	10/10	0.9800	2.00%

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

ials

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

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Ceriodaphnia 7-d Survival and Reproduction Test

Report Date: Test Code/ID: 16 May-24 08:33 (p 4 of 8)

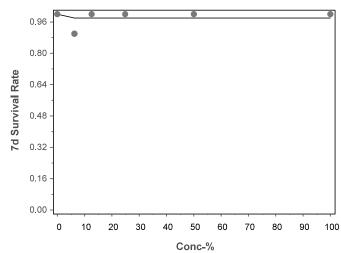
24-771 / 17-8132-5935

New England Bioassay

#### Analysis ID: 06-8153-2060 Endpoint: 7d Survival Rate CETISv2.1.4 **CETIS Version:**

Analyzed: 16 May-24 8:31 Analysis: Linear Interpolation (ICPIN) Status Level: Edit Date: 16 May-24 8:30 **MD5** Hash: 6E152646E9EC44CF78580B7DF946776F **Editor ID:** 008-848-998-5

Graphics



# **Report Date:** 16 May-24 08:34 (p 3 of 4) **Test Code/ID:** 24-771 / 17-8132-5935

Analysis ID   10   10   10   10   10   10   10   1	Ceriodaphnia	7-d	Survival and	l Reprodu	ction Test	:					N	lew Englan	d Bioassay
Martin	Analysis ID:	00-6	184-0369	En	dpoint: 7	d Surviva <b>l</b> Rat	e		CE	CETIS Version: CETISv2.1.4			
Part   Conting   December   Dec	-		•		-							3-998-5	
Part   Conting   December   Dec	Batch ID:	19-8	3017-2143	Tes	st Type: R	eproduction-S	urviva <b>l</b> (7d)		An	alvst:			
Age   Color						•				-	eceiving Wat	er	
Many   Mary	Ending Date:	10 N	/lay-24 13:02	Spe			, ,		Bri		•		
Project   Proj	Test Length:	7d (	)h	Tax	<b>con:</b> B	ranchiopoda			So	urce: In	n-House Cu <b>l</b> tu	ıre	Age: <24
Mary	Sample ID:	15-5	819-8449	Co	<b>de:</b> 50	CE038B1			Pro	oject:			
Parish	Sample Date:	02 N	/lay-24 12:00	Ma	terial: N	ot Applicable			So	urce: V	Vest Valley D	emonstratior	n Project (N
Part	Receipt Date:	03 /	/lay-24 08:26	CA	S (PC):				Sta	ation:			
	Sample Age:	25h		Cli	ent: E	urofins							
Pisher Example	Data Transfor	rm		Alt Hyp				NOEL	LOEL	TOEL	Tox Uni	ts	
Control         vs         Con-√         Test Stat         P-Type         P-Value         Decision(::5%)           Dilution Water         6.25         0.5000         Exact         1.0000         Non-Significant Effect         Image: Control of Significant Effect	Untransformed	b		C > T				100	>100		1		
Dilution Water   12.5   0.5000   Exact   1.0000   Non-Significant Effect   1.0000   Exact   1.0000   Non-Significant Effect   1.0000   Exact   1.0000   Non-Significant Effect   1.0000   Non-Significant Effec	Fisher Exact/	Bonf	erroni-Holm	Test									
1.2.5	Control	vs	Conc-%		Test Sta	nt P-Type	P-Value	Decision	(α:5%)				
	Dilution Water		6.25		0.5000	Exact		_					
Test Acceptability			12.5		1.0000	Exact	1.0000	Non-Sign	ificant Effe	ect			
Test Acceptability Criteria         Tage Laurilista         Test Acceptability Criteria         Test Acceptability Criteria         Test Acceptability Criteria         Test Acceptability Criteria         Test State         Lourilista         Pope a Decision           Attribute         Test State         Lourilista         Prop Ne         Passes Testeria         Section 10 Percentage           70 Survival Rate Fequencies           Code         Ro         NR + R         Prop Ne         Prop Roll         Meffect         New Testeria         Section 10 Percentage           6.25         9         1         10         0,0000         0,0000         0,00%         0.00			25			Exact		_					
Military					1.0000	Exact		_					
Attribute   Test   Low   Uppr   Overlap   Decision			100		1.0000	Exact	1.0000	Non-Sign	ificant Effe	ect			
Control Resp	Test Acceptal	bility	Criteria	TAC I	_imits								
No   No   No   No   No   No   No   No			Test Stat		Upper	Overlap							
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%           50         10         0         10         1,0000         0,0000         0,00%           50         10         0         10         1,0000         0,0000         0,00%           100         10         1,0000         0,0000         0,00%	Control Resp		1	8.0	<<	Yes	Passes Cr	riteria					
D	7d Survival R	ate F	requencies										
6.25         9         1         10         0.9000         0.1000         10.00%         10.00%         12.5         10         0         10         1.0000         0.0000         0.00%         0.00%         1.00%         0.00%	Conc-%		Code	NR	R	NR + R	Prop NR	Prop R	%Effect	t			
12.5	-		D	10	0	10	1.0000	0.0000	0.00%				
25													
50 100         10 10 0         10 10 0         10 10 0         10 1000         1000 0         1000 0         1000 0         0.0000 0.0000 0.0000         0.0000 0.0000         0.0000 0.0000         0.0000 0.0000         0.0000 0.0000         0.0000 0.0000         0.0000 0.0000 0.0000 0.0000 0.0000         0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000         0.00000 0.00000 0.0000 0.0000 0.00000 0.0000 0.0000 0.0000 0.00000 0.0000 0.0000 0.00000 0.000													
100         0         10         1,000         0,0000         0,0000         0,000%           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         0,0000         0,000%         0,00% <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>													
7d Survival Rate Surmary           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         0,0000         1,0000         1,0000													
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         0.0000         0.0000         0.00%         0.00%           6.25         10         1.0000         1.0000         1.0000         1.0000         1.0000         1.0000         0.0000         0.0000         0.00%         0.00%           12.5         10         1.0000         1.0000         1.0000         1.0000         1.0000         1.0000         0.0000         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         1.0000         1.0000         1.0000         1.0000         1.0000         1.0000         1.0000         0.00%         0.00%         0.00%           7d Survival Rate         Rep 1         Rep 2         Rep 3         Rep 4         Rep 5         Rep 6         Rep 7         Rep 8         Rep 9         Rep 10           6.2	100			10	U	10	1,0000	0.0000	0.00%				
0         D         10         1.0000         1.0000         1.0000         1.0000         1.0000         0.0000         0.0000         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         0.0000         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         0.00%         0.00%         0.00%           100         1.0000         1.0000         1.0000         1.0000         1.0000         1.0000         1.0000         0.0000         0.00%         0.00%           7d Survival Rate Detail         Code         Rep 1         Rep 2         Rep 3         Rep 4         Rep 5         Rep 6         Rep 7         Rep 8         Rep 9	7d Survival R	ate S	-										
6.25         10         0.9000         0.6738         1.0000         1.0000         1.0000         0.1000         35.14%         10.00%           12.5         10         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         0.0000         0.00%           50         10         1.0000         1.0000         1.0000         1.0000         1.0000         1.0000         0.0000         0.00%         0.00%           100         1.0000         1.0000         1.0000         1.0000         1.0000         1.0000         0.0000         0.00%         0.00%           7d Survival Rate Detail         Code         Rep 1         Rep 2         Rep 3         Rep 4         Rep 6         Rep 7         Rep 8         Rep 9         Rep 10           0         0         1.0000         1.0000         1.0000         1.0000         1.0000         1.0000         1.0000         1.0000         1.0000         1.0000         1.0000         1.0000													
12.5       10       1.0000       1.0000       1.0000       1.0000       1.0000       0.0000       0.0000       0.00%       0.00%         25       10       1.0000       1.0000       1.0000       1.0000       1.0000       0.0000       0.0000       0.00%       0.00%         50       10       1.0000       1.0000       1.0000       1.0000       1.0000       1.0000       0.0000       0.0000       0.00%       0.00%         100       10       1.0000       1.0000       1.0000       1.0000       1.0000       1.0000       0.0000       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       1.00	-		D										
25 10 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 0.0000 0.0000 0.00% 0.00% 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 0.0000 0.00% 0.00% 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 0.0000 0.00% 0.00% 0.00% 1.0000 1.0000 1.0000 1.0000 1.0000 0.0000 0.00% 0.					0.9000								
50         10         1,0000         1,0000         1,0000         1,0000         1,0000         1,0000         1,0000         0,0000         0,000%         0,00%         1,000%         1,000%         1,000%         1,000%         1,000%         1,000%         1,000%         1,000%         1,000%         1,000%         1,000%         1,000%         1,000%         1,000%         1,000%         1,000%         1,000%         1,													
100         1.0000         1.0000         1.0000         1.0000         1.0000         1.0000         0.0000         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<												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 <td>50</td> <td></td> <td></td> <td>10</td> <td>1.0000</td> <td></td> <td></td> <td></td> <td>1.0000</td> <td>1.0000</td> <td>0.0000</td> <td>0.00%</td> <td></td>	50			10	1.0000				1.0000	1.0000	0.0000	0.00%	
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 <td>100</td> <td></td> <td></td> <td>10</td> <td>1.0000</td> <td>1.0000</td> <td>1.0000</td> <td>1.0000</td> <td>1.0000</td> <td>1.0000</td> <td>0.0000</td> <td>0.00%</td> <td>0.00%</td>	100			10	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000	0.00%	0.00%
0         D         1.0000	7d Survival R	ate D	etail										
6.25       1.0000	Conc-%					Rep 3		Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
12.5       1.0000			D										
25       1.0000	6.25			1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000	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	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
100 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

Report Date: Test Code/ID:

Ceriodaphnia 7-d Survival and Reproduction Test

24-771 / 17-8132-5935 New England Bioassay

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16 May-24 08:34 (p 4 of 4)

**Analysis ID:** 00-6184-0369 Endpoint: 7d Survival Rate CETISv2.1.4 **CETIS Version:** 

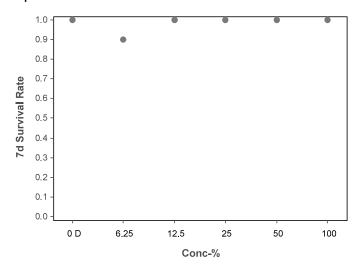
Analyzed: 16 May-24 8:31 Analysis: STP 2xK Contingency Tables Status Level:

**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**



Report Date: 16 May-24 08:33 (p 5 of 8) 24-771 / 17-8132-5935 Test Code/ID:

							1030	CoucilD.		27 // / /	7 0102 000	
Ceriodapl	hnia 7-d Survival ar	nd Reprodu	ction Tes	t						New Englan	d Bioassay	
Analysis I Analyzed: Edit Date:	16 May-24 8:31	Ana	Ilysis: L	d Survival Rat inear Interpola E152646E9E0	ition (ICPIN	•	St	ETIS Version tatus Level ditor ID:	: 1	Sv2.1.4 48-998-5		
Edit Date:	10 Way-24 0.30	INID	o nasii: 0	E132040E9E0	J44CF / 650	000701940	7705 6	uitor iD:	000-04	40-990-0		
Batch ID:	19-8017-2143			Reproduction-S	•	•		nalyst:				
Start Date	,			:PA/821/R-02-	` ,	1		Diluent: Receiving Water				
_	<b>ate:</b> 10 May-24 13:0 <b><sub>I</sub>th:</b> 7d 0h	•		Ceriodaphnia d Branchiopoda	ubia			Brine: Not Applicable  Source: In-House Culture Age:				
		Тах	.on. =	rancinopoua				ource: I	II-nouse Cu	llure	Age: <24	
Sample ID		Cod		CE038B1				roject:				
=	ate: 02 May-24 12:0			lot Applicable					West Valley	Demonstratio	n Project (N	
	ate: 03 May-24 08:2		S (PC):	· •			St	tation:				
Sample A	ge: 25n	Clie	ent: E	urofins								
Linear Int	erpolation Options											
X Transfo				Resamples	•		hod					
Linear	Linear	345	357	200	Yes	Two	-Point Inte	erpo <b>l</b> ation				
Test Acce	ptability Criteria	TAC L	.imits									
Attribute	Test Stat		Upper	Overlap	Decision	1						
Control Re	esp 1	0.8	<<	Yes	Passes (	Criteria						
Point Esti	imates											
Level %	% 95% LCL	95% UCL	Tox Uni	its 95% LCL	95% UCI	_						
LC25 >	100		<1									
7d Surviv	al Rate Summary				Calculate	d Variate(A	/B)			Isoto	nic Variate	
Conc-%	Code	Count	Mean	Median	Min	Max	CV%	%Effe	ct ΣΑ/ΣΒ	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%	6 10.00%	6 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%		0.9800	2.00%	
50		10	1.0000	1.0000	1.0000	1.0000	0.00%	0.00%		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 Surviv	al 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	
6.25		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	
25		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	
100		1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	
7d Surviv	al 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	

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Report Date: Test Code/ID: 16 May-24 08:33 (p 6 of 8)

24-771 / 17-8132-5935

New England Bioassay

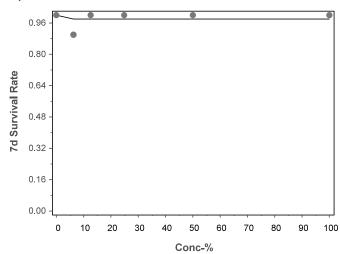
Ceriodaphnia 7-d Survival and Reproduction Test

**Analysis ID:** 14-0804-1919 Endpoint: 7d Survival Rate CETISv2.1.4 **CETIS Version:** 

Analyzed: 16 May-24 8:31 Analysis: Linear Interpolation (ICPIN) Status Level:

Edit Date: 16 May-24 8:30 **MD5** Hash: 6E152646E9EC44CF78580B7DF946776F **Editor ID:** 008-848-998-5

#### Graphics



Ceriodaphnia 7-d	l Surviva <b>l</b> an	d Reproduc	tion Te	est						N	ew Englan	d Bioassa
Analysis ID: 18-	-2051-4494	End	point:	Reproduction				CET	IS Versio	on: CETISv2	.1.4	
Analyzed: 16	May-24 8:32		ysis:	Nonparametrio	c-Control vs 1	<b>Freatments</b>		Stat	us Level:	: 1		
Edit Date: 16	May-24 8:30	MD5	Hash:	7D44A544893	28390A426E	35AB11F57	17B	Edit	or ID:	008-848-	998-5	
Batch ID: 19-	-8017-2143	Test	Туре:	Reproduction-	Survival (7d)			Anal	lyst:			
Start Date: 03	May-24 12:39	9 Prot	ocol:	EPA/821/R-02	2-013 (2002)			Dilu	ent: F	Receiving Wate	r	
Ending Date: 10	May-24 13:02	2 Spe	cies:	Ceriodaphnia	dubia			Brin	e: N	lot Applicable		
Test Length: 7d	0h	Taxo	on:	Branchiopoda				Sou	rce: li	<b>Age:</b> <2		
Sample ID: 15-	-5819-8449	Cod	e:	5CE038B1				Proj	ect:			
Sample Date: 02	May-24 12:00		erial:	Not Applicable	)			Sou	rce: V	Vest Valley De	monstratio	n Project (l
Receipt Date: 03			(PC):					Stati	ion:			
Sample Age: 25h	า	Clie	nt:	Eurofins								
Data Transform		Alt Hyp				NOEL	LOE	EL	TOEL	Tox Units	MSDu	PMSD
Untransformed		C > T				100	>10	0		1	4.234	8.75%
Steel Many-One F	Rank Sum Te	est										
Control vs	Conc-%	df	Test S		Ties	P-Type	P-V	alue		on(α:5%)		
Di <b>l</b> ution Water	6.25	18			4	CDF	0.99			gnificant Effec		
	12.5	18			4	CDF	0.90			gnificant Effec		
	25	18	90	75	7	CDF	0.35			gnificant Effec		
	50	18		75 	4	CDF	0.06			gnificant Effec		
	100	18	106.5	75	6	CDF	0.86	550	Non-Si	gnificant Effec		
Test Acceptability	y Criteria	TAC Li	mits									
Attribute	Test Stat		Uppe	<u>.</u>	Decision							
Control Resp	48.4	15	<<	Yes	Passes C							
PMSD	0.08748	0.13	0.47	Yes	Below Crit	teria						
ANOVA Table												
Source	Sum Squa	ares	Mean	Square	DF	F Stat	P-V	alue	Decisi	on(α:5%)		
Between	478.483		95.69	67	5	5.594	0.00	03	Signific	ant Effect		
Error	923.7		17.10	56	54	_						
Total	1402.18				59							
ANOVA Assumpt	ions Tests											
Attribute	Test				Test Stat	Critical	P-V	alue	Decisi	on(α:1%)		
Variance	Bartlett Ed	quality of Var	iance T	est	19.69	15.09	0.00	114	Unequa	al Variances		
Distribution	Shapiro-W	/i <b>l</b> k W Norma	ality Te	st	0.9754	0.9459	0.26	45	Norma	Distribution		
Reproduction Su	mmary											
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 De	tail											
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	<b>4</b> 6	32
100		40	4.4	<b>-</b> 4	40	F0	F.C		40	40	F 4	40

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**CETIS Analytical Report** 

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16 May-24 08:33 (p 2 of 2) Test Code/ID: 24-771 / 17-8132-5935

Ceriodaphnia 7-d Survival	I and Reproduction Tes	st
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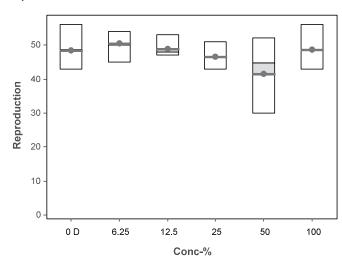
New England Bioassay

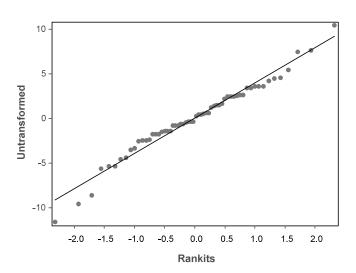
**Analysis ID:** 18-2051-4494 Endpoint: Reproduction **CETIS Version:** CETISv2.1.4

Analyzed: 16 May-24 8:32 Nonparametric-Control vs Treatments Status Level:

Edit Date: 16 May-24 8:30 **MD5 Hash:** 7D44A54489328390A426B5AB11F5717B **Editor ID:** 008-848-998-5

#### Graphics





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Report Date: Test Code/ID: 16 May-24 08:33 (p 7 of 8) 24-771 / 17-8132-5935

Ceriodaphn	ia 7-d Survival and	d Reproduc	tion Test							New Englan	d Bioassa
Analysis ID: Analyzed: Edit Date:	07-3487-3319 16 May-24 8:32 16 May-24 8:30	Anal	I <b>ysis:</b> Lir	•				CETIS Status Editor I		CETISv2.1.4 1 008-848-998-5	
Batch ID:	19-8017-2143			production-S		)		Analyst			
Start Date:	03 May-24 12:39			PA/821/R-02-				Diluent		eiving Water	
•	e: 10 May-24 13:02	•		riodaphnia d	ubia			Brine:		Applicable	
Test Length	: 7d 0h	Taxo	on: Br	anchiopoda				Source	: In-Ho	ouse Cu <b>l</b> ture	<b>Age</b> : <2
Sample ID:	15-5819-8449	Cod	<b>e</b> : 50	E038B1				Project	:		
Sample Date	e: 02 May-24 12:00	) Mate	erial: No	t Applicable				Source	: Wes	t Valley Demonstratio	n Project (ľ
Receipt Date	e: 03 May-24 08:26	CAS	(PC):					Station	:		
Sample Age	: 25h	Clie	nt: Eu	rofins							
Linear Inter	polation Options										
X Transform	n Y Transform	See	t	Resamples	Exp 95%	CL	Method				
Linear	Linear	1251	009	200	Yes		Two-Point	Interpola	tion		
Test Accept	ability Criteria	TAC L	imits								
Attribute	Test Stat		Upper	Overlap	Decision						
Control Resp		15	<<	Yes	Passes C	riteria					
Point Estima	ates										
Level %	95% LCL	95% UCL	Tox Unit	s 95% LCL	95% UCL						
IC25 >10			<1								
IC50 >10	00		<1								
Reproduction	on Summary				Calcula	ted Va	riate			Isoto	nic Variate
Conc-%	Code	Count	Mean	Median	Min	Max	CV	% %	%Effect	Mean	%Effec
0	D	10	48.4	48.67	43	56	8.10	3% C	0.00%	49.4	0.00%
6.25		10	50.4	50	45	54	5.7	0% -	4.13%	49.4	0.00%
		10	48.8	48	47	53	4.0	3% -	0.83%	48.8	1.21%
12.5		10	46.5	46.5	43	51	5.4	3%	3.93%	46.5	5.87%
		10									
12.5 25 50		10	41.6	44.67	30	52	17.0	67% 1	4.05%	45.1	8.70%

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

NEB Issued: 6/3/24 Page 24 of 40

Report Date: Test Code/ID: 16 May-24 08:33 (p 8 of 8)

24-771 / 17-8132-5935

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 16 May-24 8:30 Analysis: Linear Interpolation (ICPIN)

Status Level:

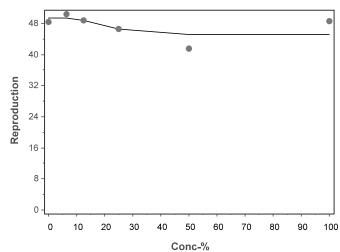
NEB Issued: 6/3/24 Page 25 of 40

Edit Date:

**MD5 Hash:** 7D44A54489328390A426B5AB11F5717B

**Editor ID:** 008-848-998-5

#### Graphics



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## - 3

#### 4

NER'S DATA SHEET FOR ROUTINE CHEMICAL AND PHYSICAL DETERM	

FACILITY NAME & ADDRE	SS:	West Valley	Demonstrati	on Project V	VSNP001, 102	282 Rock Spri	ngs Rd West	t Valley NY
NEB PROJECT NUMBER:			44240		TEST ORGA			odaphnia dubia
DILUTION WATER SOURC	E:	E	rdman Broc	ok .	START DAT	E:	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	КО	КО	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	КО	КО	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	КО	КО	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 & ADDRI	ESS:	West Valley	Demonstrati	on Project V	VSNP001, 102	282 Rock Spri		
NEB PROJECT NUMBER:			44240		TEST ORGA			odaphnia dubia
DILUTION WATER SOUR	CE:	E	rdman Broc	ok .	START DAT	E:	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	КО	ко	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	КО	ко	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	КО	КО	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	

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#### 4

FACILITY NAME & ADDI	RESS:	West Valley	/ Demonstra	ition Projec	t WSNP001,	10282 Rock	Springs Rd \	West Valley NY		
NEB PROJECT NUMBER			44240	•	TEST ORGA	NISM	Ceriodaphnia dubia			
DILUTION WATER SOU	RCE:	E	rdman Broo	ok	START DAT	E:	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	КО	КО	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

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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	3	14	7	3	15	13	11	4	7
2	16	10	13	5	5	13	2	11	7	3	1	2	5	14	12	16	2	2	9	15
4	6	13	7	2	15	1	9	1	4	7	1	0	6	9	11	9	7	6	16	11
6	14	6	10	4	14	4	15	3	3	4	1	6	2	6	5	1	12	10	6	9
10	15	2	1	13	12	16	3	4	8	10	٠ ١	1	15	5	14	12	14	12	3	2
12	10	7	12	9	11	9	8	12	14	15	, 4	4	11	8	16	8	9	14	14	1
15	7	5	2	10	7	8	12	6	15	6	1	3	16	12	15	4	11	8	12	6
16	2	11	8	8	8	15	5	16	1	1	2	9	8	1	8	14	16	5	13	5
9	13	14	3	6	4	10	11	5	12	9	3	3	10	4	4	3	10	9	1	3
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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	1	3	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	. 1	5	6	12	5	7	11	1	14	4
1	14	14	2	9	15	16	14	6	14	7	5	3	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	1	1	10	10	12	15	16	14	5	2
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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	3	2	4	2	1	2	12	2	10	14
13	16	9	1	1	8	10	9	9	4	1	1	6	2	3	8	14	1	10	6	10
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9	15	11	3	11	15	9	10	1	3	8	1	2	15	7	9	8	16	1	14	3
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3	10	16	16	13	7	13	1	11	14	9	1	0	16	2	10	2	10	7	10	16
11	13	9	13	4	13	8	3	5	13	10	) 1	2	5	12	5	14	13	16	5	6
15	2	3	12	9	12	2	4	13	10	3	1	3	14	4	2	1	14	8	6	12
14		14		10	1	3	12	4	2	2		1	13	3	16	9	9	3	7	14
	1		6																	
13	12	5	11	3	11	15	8	2	7	11	. 7	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		3	4	9	8	15	8	6	11	9
2	7	6	2	1	8	10	6	15	12	1	1	1	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
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2	2	2	15	14	16	9	12	16	6	10	) 1	5	14	9	10	1	14	8	8	16
7	12	15	8	12	3	5	14	7	12	5		3	16	1	7	5	11	2	9	3
6	9	7	14	9	14	10	11	15	11	12	. 1	1	12	12	14	16	3	11	11	8
14	5	16	7	10	8	11	8	14	13	7		1	6	3	11	4	4	6	6	9
15	11	8	9	7	12	8	7	1	15	9	3	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		3	4	11	5	2	16	10	12	4
1	8	1	13	1	15	4	4	11	4	2	1	6	5	8	1	9	5	12	16	6
9	7	14	2	6	4	14		9		15			7	10	9	10	6	14		11
							10		8										10	
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8	13	13	3	3	10	13	2	4	1	8	6	5	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
		_			_	_	-	-		_			_	_						

C.dubia Test ID#

24-771

**Table of Random Permutations of 16** 

Brood mother source:  $\{065, 6-\}$  Source's brood size:  $\{0, 0, 0\}$ 

BIOOG	mourei	source:	(000	> 12-1		Sources	s brood si	ze: 🚮		(Qty.)	Wes		lley	2.	2. o	4
Tech	IR	53	SM	56	IR	SAT	IN	TG		IR	76	1,33	IR			
Date	4.22	4.23	4-24	4-25	4.26		4.28	4-29		430	5-1	5-7	5.3			
Day	0	1	2	3	4	5	6	7		8	9	10	_11	12	13	14
Cup #	Beaker		Tray	. ,	8		0.1	Δ.		(Tg)						
1	N	N	N	$\mathcal{N}$	Ŏ		3,7	$ /\vee $	1	Sal	$\rightarrow$	M	3			
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				1/	7			$\Lambda$		yT3		N	,73			
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				$\Lambda I$	7			$\mathcal{N}$		1.		N	4 74			
6	N	N	N	1 /				, v	6	9	$\rightarrow$		Θ <sub>C</sub> Ω			
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7	N	N	N	10			10	7	7	y 23	/ \	J	76C			
				N	6		27	$\Lambda$		T5	~/	$\mathcal{N}$	y			
8	N	N	N	J.		-	0,1	/ V	8	7 30	7					
		8		N	7		1	$\Lambda$		10		$\mathcal{N}$	46		, i	
9	N	N	N	10			_	/ V	9	9 25	-/-		926			
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10	N	N	N	1					10	7 27			)			
44	N	N	N	$ \mathcal{N} $	8			$ \mathcal{N} $		4	\ \ \	N	429			
11	IN	IV	IN	Λ/				Α /	11	TB	1		229			
12	N	N	N		77		1	/V	42	727	Y	N	4			
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				, /	0						<u>_</u>	17	770			
17	N	N	N	$\mathcal{N}$	8			$/\vee$	17	7	$\rightarrow$	P	724			
				Λ/	7			1/		ч		N	4			
18	N	Ν	N	[V]	+		İ	IV	18	J	$\mathcal{N}$	1~				

Y = neonates present, and EPA criterion has been met

N = no neonates

P = Neonates present in P.M. on previous day

2B = two broads present. 2Y = two broads and criterion met:  $\geq$  20 neos. by 3rd broad.

T# = neonates used in test replicate, #=neonates in brood.

Test organism collection:

Project #	Symbol	P T	ray diagram?	Time period, neonates released	Collection date / tim		
46041			4 429	24/1530 -> 429-24/1815	4-30-34/1101		
\$99396	Т		y 430	134/1625 -> 4.29.24/1815	4.30 24/1139		
44240	Т		y <b>5</b> 2.	34/1505 -> 5-234/1800	\$.3 24 /6958		
	Т						
	Т						

# SAMPLE RECEIPT CHEMISTRY & CHAIN OF CUSTODY DOCUMENTS

#### **NEW ENGLAND BIOASSAY - INITIAL CHEMISTRY DATA**

PERMITTEE:	West Valley Demonstration Project
NEB JOB #	44240

	,		<u> </u>			
DATE RECEIVED	5/3/24		5/7	7/24		
SAMPLE TYPE:	EFF#1	BROOK #1	EFF #2	EFF #2 BROOK #2		
COC#	C44-2575	C44-2576	C44-2621	C44-2622		
pH (SU)	7.2	7.1	7.5	7.4		
Temperature (°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 <sub>3</sub> )	144	96	144	96		
Alkalinity (mg/l as CaCO₃)	163	82	163	85		
Tech Initials	AG	AG	MOR/DB	MOR/DB		

NOTE: NA = NOT APPLICABL	E			
Data Reviewed By:	Kimberly Wills	Date Reviewed:	6/3/24	
	- Kimberry Wiels	Date Neviewed.	0,3,21	

NEW ENGLAND BIOASSA	Y - CHAIN-OF-CUSTODY
Sample set# EFFLUENT	RECEIVING WATER
MOD	
	Sampler:
Title: Environmental Scientist	Title: Environmental Scientist
Facility: West Valley	Facility: West Valley
Sampling Method: X Composite	Sampling Method: X Grab
Sample ID: Outfall 001	Sample ID: Erdman Brook
Start Date: 5-1-24 Time: 1200	Date Collected: 5-1-24 / 5/24 an
End Date: 5-2-24 Time: 1200	Time Collected: 1115 White rel
Prechlorinated Dechlorinated Unchlorinated Chlorinated	AC .
Effluent Sampling Location and Procedures: WN SPOO	· EM-Z Composite Sanding
Receiving Water Sampling Location and Procedures: WNE  EM-Z Grab Sampling  Requested Analysis: X Chronic and modified acute	
Sample S	hipment
Method of Shipment: UPS Next Day Air	
Relinquished By: Date:	/ Time:
War and the second seco	Time:
	Time:
	Time:
	Time:
Received By: Date:	Time:
FOR NEB U	SE ONLY
Temperature of Effluent Upon Receipt at Lab: °C Te	emperature of Receiving Water Upon Receipt at Lab:°C
Effluent COC#	eceiving 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

Electronic Disk - YES ole Type: SPDES OrderID: 240423-05 Release Number Report Format Level Priority Charge Number **External Lab Destination** Purchase Order Number Work Order: SP-Discharge WV03.IN.01.01.01.02.01 1457 10 Days CH-007532 Eurofins Report Data To: Bob Steiner (716) 481-5793 Chet Wrotniak (716) 982-6403 C-O-C Reviewed By: Custodian Signature: Sample Notes Sample ID **Date** <u>Time</u> # Cont Preservative **Tests Location Code** Receiving water for dilution for water flea. NEB water for control. wet\_du\_c. 12:00 wet\_du\_a, WNSP001 2024-03160 05/02/24 Cool Project Notes: Initial Samples, ERDMAN BROOK Water Included in shipment. hest valley EFF #1 C44-2878 Received ONICE Rist 1 (44-2576

Signature Rel: Date/Time 5/2/24 1240	Signature Rel: Date/Time	
Signature Rec: Date/Time Signature Rec: Date/Time	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	

NEB Issued: 6/3/24 Page 34 of 40









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: SP.	DES							Ele	ectronic Disk - YE	
External Lab Desti	nation Pur	chase Order Nu	ımber	Charge	e Number	Release Ni	umber	Report Format Level	Priority	OrderID: 240423-05
Eurofins		CH-007532		WV03,IN,0	01.01.01.02.01	1457		1	10 Days	Work Order SP-Discharge
Custodian Signatur		1-~			eviewed By:	XA			Chet Wrotni	ak (716) 982-6403
Location Code	Sample ID	<u>Date</u>	<u>Time</u>	# Cont	Preservative	<u>Tests</u>				Sample Notes
WNSP001	2024-03161	05/06/24	07:30	1	Cool	wet_du_a,	wet_du_c			Receiving water fo

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

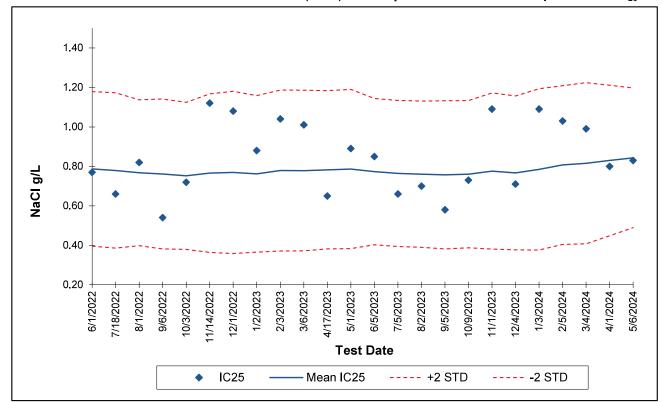
. /	
Signature Rel: Date/Time # 0815	Signature Rel: Date/Time
Signature Rec: Date/Time Dein Bue JEB 5-7-hal 0816	Signature Rec: Date/Time
Signature Rel: Date/Time	Signature Rel: Date/Time
Signature Rec: Date/Time	Signature Rec: Date/Time
Signature Rel: Date/Time	Sample Receipt at Lab: Cool? YES NO Temp: C
Signature Rec: Date/Time	Signature Rec: Date/Time YES NO

NEB water for control.

# REFERENCE TOXICANT CHARTS

New England Bioassay

Reference Toxicant Data: Sodium chloride (NaCl) Ceriodaphnia dubia Chronic Reproduction IC<sub>25</sub>



								Repro PMSD	Avg. PMSD
Test ID	Date	IC <sub>25</sub>	Mean IC <sub>25</sub>	STD	-2STD	+2STD	Avg. CV	(%)	(%)
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 <b>-</b> 1326	8/1/2022	0.82	0.77	0.18	0.40	1.14	0.24	15.61	16.19
22 <b>-</b> 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

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

NY Lab Id No: 12157



**NEW YORK STATE DEPARTMENT OF HEALTH WADSWORTH CENTER** 

#### 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

> 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

Property of the New York State Department of Health. Certificates are valid only at the address shown and must be conspicuously posted by the laboratory. Continued accreditation depends on the laboratory's successful ongoing participation in the Program. Consumers may verify a laboratory's accreditation status online at https://apps.health.ny.gov/pubdoh/applinks/wc/elappublicweb/, by phone (518) 485-5570 or by email to elap@health.ny.gov.



## 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

Name/Title (type or print)

Signature

## Attachment E

**Email Confirmation from NYSDEC** 

From: <a href="mailto:netdmr-notification@epa.gov">netdmr-notification@epa.gov</a>

To: Anna Carr; Robert Steiner; Matia Varner; William Frederick; rwring@cattco.org; Elizabeth Lowes; Jamie Prowse;

<u>Jennifer Dundas</u>; <u>Joshua Desmarais</u>; <u>R9.NetDMR@dec.ny.gov</u>; <u>William Kean</u>; <u>Michael Pendl</u>

**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.