

No. Connections Served:			
Population Served:			

October **Dosages**

Date	Raw Water Treated MGD	Finished Water Produced MGD	Finished Water Delivered MGD	Hours In Service	Pre-Filter Chemicals												Post-Filter Chemicals															
					Powdered Carbon		Sodium Permanganate		Coagulant		Chlorine - Flocc		Chlorine - Over Filters		Fluoride		NaOH		NaOH		Chlorine - Clearwell		Chlorine - Pre-CCT		Chlorine - PostCCT		Zinc Corrosion Inh		Ammonia			
					lbs	mg/L	lbs	mg/L	lbs	mg/L	lbs	mg/L	lbs	mg/L	lbs	mg/L	lbs	mg/L	lbs	mg/L	lbs	mg/L	lbs	mg/L	lbs	mg/L	lbs	mg/L	lbs	mg/L		
1	8.64	9.08	7.99	24.00					4310.00	70.66	430.00	6.06	97.00	1.31	184.00	0.60	1091.00	10.01	1091.00	10.00					263.25	3.79			200.00	2.50	569.00	0.87
2	10.07	11.16	9.71	24.00					5137.00	71.46	466.00	5.58	68.00	0.73	255.00	0.60	1226.00	8.94	1381.00	10.07					278.27	3.02			224.00	2.50	656.00	0.77
3	9.45	10.53	9.39	24.00					4639.00	69.36	471.00	6.00	69.00	0.78	213.00	0.60	1014.00	7.99	1315.00	10.36					269.92	3.26			197.00	2.50	559.00	0.75
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Total	28.16	30.77	27.09	72.0					14086.0	211.5	1367.0	17.6	234.0	2.8	652.0	1.8	3331.0	26.9	3787.0	30.4					811.4	10.1			621.0	7.5	1784.0	2.4
Max.	10.07	11.16	9.71	24.0					5137.0	71.5	471.0	6.1	97.0	1.3	255.0	0.6	1226.0	10.0	1381.0	10.4					278.3	3.8			224.0	2.5	656.0	0.9
Min.	8.64	9.08	7.99	24.0					4310.0	69.4	430.0	5.6	68.0	0.7	184.0	0.6	1014.0	8.0	1091.0	10.0					263.3	3.0			197.0	2.5	559.0	0.8
Average	9.39	10.26	9.03	24.0					4695.3	70.5	455.7	5.9	78.0	0.9	217.3	0.6	1110.3	9.0	1262.3	10.1					270.5	3.4			207.0	2.5	594.7	0.8

Signed: (Operator in responsible charge)			
Printed Name:	Raw Water Source(s) Used During Month:		Date
Title: (Operator Classification)	Source New River		
DPOR Certification Number:			

NRV Regional Water Authority (PWSID # 1121057)
Water Treatment Plant Monthly Report

October																			
Disinfection Process, Alkalinity, Hardness																			
Date	Raw Temp F°	Alkalinity			Hardness		Phosphate (as P04) Finished mg/L	Disinfection Process Monitoring											
		Raw (mg/L)	Applied (Post-Flash Mix) (mg/L)	Finished (mg/L)	Raw (mg/L)	Finished mg/L		Chlorine Residual (Free) Applied (mg/L)			Chlorine Residual (Total) Finished / Entry Point (mg/L)			Log Inactivation GIARDIA (Disinfection Only)					
								Average	Max.	Min.	Average	Max.	Min.	Mark if <0.2	VDH Notified	Pre-Clearw	Clearwell & CCT	Total	
1	62	21	22	27	26	24		0.18	0.49	0.04	4.20	5.04	1.99	N		0.95	40.71	41.66	
2	62	22	18	24	27	24		0.27	0.53	0.07	3.66	5.15	2.06	N		1.00	26.41	27.41	
3	62	22	16	23	28	26		0.22	0.47	0.03	3.47	4.39	2.06	N		0.90	28.87	29.77	
4		21	21	24	27	23	2.160							N					
5														N					
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Total	186	86	76	97	108	96	2.160	0.67	1.49	0.14	11.33	14.58	6.11						
Max.	62	22	22	27	28	26	2.160	0.27	0.53	0.07	4.20	5.15	2.06						
Min.	62	21	16	23	26	23		0.18	0.47	0.03	3.47	4.39	1.99						
Average	62	21	19	24	27	24	2.160	0.22	0.50	0.05	3.78	4.86	2.04						

Water Treatment Plant Monthly Report

October pH									
Date	Raw			Applied			Finished		
	Average	Max.	Min.	Average	Max.	Min.	Average	Max.	Min.
1	6.3	7.1	6.7	6.9	7.5	6.4	7.3	7.6	7.1
2	6.5	6.7	6.6	6.6	6.5	6.4	7.2	7.3	7.1
3	6.6	6.6	6.5	6.5	6.6	6.4	7.2	7.2	7.1
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Total	19.4	20.4	19.8	20.0	20.6	19.2	21.7	22.1	21.3
Max.	6.6	7.1	6.7	6.9	7.5	6.4	7.3	7.6	7.1
Min.	6.3	6.6	6.5	6.5	6.5	6.4	7.2	7.2	7.1
Average	6.5	6.8	6.6	6.7	6.9	6.4	7.2	7.4	7.1

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Water Treatment Plant Monthly Report

October															
Filter 1-3 Daily Turbidity Data Sheet															
Date	Filter #1 Summary					Filter #2 Summary					Filter #3 Summary				
	Max Turbidity NTU	No. Of Turbidity Results	No. Of Results ≤ 0.3 NTU	No. Of Results ≤ 0.10 NTU	Service/Startup Max Turbidity NTU	Max Turbidity NTU	No. Of Turbidity Results	No. Of Results ≤ 0.3 NTU	No. Of Results ≤ 0.10 NTU	Service/Startup Max Turbidity NTU	Max Turbidity NTU	No. Of Turbidity Results	No. Of Results ≤ 0.3 NTU	No. Of Results ≤ 0.10 NTU	Service/Startup Max Turbidity NTU
1	54.227	96				51.569	96	19			163.916	96			
2	4.831	96	52	49		0.31	96	94	50		0.428	96	57	49	
3	0.321	96	95	94		0.429	96	95	90		0.258	96	96	94	
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Total		288	147	143			288	208	140			288	153	143	
Max.	54.227					51.569					163.916				
0.3 NTU Criteria	51.04166667					72.22222222					53.125				
	Performance does not meet optimized criteria					Performance does not meet optimized criteria					Performance does not meet optimized criteria				
0.1 NTU Criteria	49.65277778					48.61111111					49.65277778				
	Performance does not meet optimized criteria					Performance does not meet optimized criteria					Performance does not meet optimized criteria				
(1)Compliance can be based on combined filter effluent tap monitoring or ave. of individual filter effluent results. If based on ave. of individual results, determine the ave. of individual filter turbidities (Of units in service for that particular monitoring period) and count the ave. as one sample result for the period.															
Turb. instrumentation was cleaned out on 10-2-24															
10-1-24 no turb. on Filter 1 and 3 were <0.3 and Filter #2 on 10-1-24 has no turb. <0.1															
Date reported to VDH										Value NTU					

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Water Treatment Plant Monthly Report

October Filter 4-6 & Combined Filter Effluent Daily Turbidity Data Sheet

Date	Filter #4 Summary					Filter #5 Summary					Filter #6 Summary					Combined Filter Effluent Summary				
	Max Turbidity NTU	No. Of Turbidity Results	No. Of Results ≤ 0.3 NTU	No. Of Results ≤ 0.10 NTU	Service/Startup Max Turbidity NTU	Max Turbidity NTU	No. Of Turbidity Results	No. Of Results ≤ 0.3 NTU	No. Of Results ≤ 0.10 NTU	Service/Startup Max Turbidity NTU	Max Turbidity NTU	No. Of Turbidity Results	No. Of Results ≤ 0.3 NTU	No. Of Results ≤ 0.10 NTU	Service/Startup Max Turbidity NTU	Max Turbidity NTU	No. Of Turbidity Results	No. Of Results ≤ 0.3 NTU	No. Of Results ≤ 0.10 NTU	Service/Startup Max Turbidity NTU
1	21.792	96	39			20.28	96	45			68.7	96	38			24.437	96	18		
2	0.66	96	92	48		0.524	96	91	48		0.21	96	96	49		0.266	96	96	49	
3	0.036	96	96	96		0.026	96	96	96		0.027	96	96	96		0.054	96	96	96	
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Total		288	227	144			288	232	144			288	230	145			288	210	145	
Max.	21.792					20.28					68.7					24.437				
0.3 NTU Criteria	78.8194444					80.5555556					79.8611111					72.9166667				
0.1 NTU Criteria	Performance does not meet optimized criteria					Performance does not meet optimized criteria					Performance does not meet optimized criteria					Not in compliance with 95% limit				
≤1 NTU Criteria	50					50					50.3472222									
≤1 NTU Criteria	Performance does not meet optimized criteria					Performance does not meet optimized criteria					Performance does not meet optimized criteria									
≤1 NTU Criteria																Not in compliance with maximum limit				

(1) Compliance can be based on combined filter effluent tap monitoring or ave. of individual filter effluent results. If based on ave. of individual results, determine the ave. of individual filter turbidities (Of units in service for that particular monitoring period) and count the ave. as one sample result for the period.

(2) Date & Turbidity value for any measurement > 1 NTU:	Date reported to VDH	Value NTU

**NRV Regional Water Authority (PWSID # 1121057)
Water Treatment Plant Monthly Report**

October 2024 **Daily Turbidity Sheet (Nonfilter)**

Date	Raw Water		Applied Water					Finished Water		
	Average	Max.	Average	Max.	Total No.	No. Anal.	No. Anal.	Average	Max.	Min.
	NTU	NTU	NTU	NTU	Analyses	≤1.0 NTU	≤2.0 NTU	NTU	NTU	NTU
1	170.55	238.36	9.10	45.00	12.00	9.00	11.00	7.89	22.17	0.14
2	147.89	161.26	2.60	3.70	12.00	12.00	12.00	0.10	0.28	0.03
3	139.92	160.26	2.40	2.90	11.00	11.00	11.00	0.05	0.33	0.03
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Total					35.00	32.00	34			
Raw Days ≤10.0										
Raw Days ≥10.0	3									
Maximum	170.55	238.36		45.00					22.17	
Average	152.79		4.70					2.68		

Sedimentation Basin #1

% Samples w/ Clarified Turbidity ≤1.0 When Monthly Average Raw Turbidity ≤10.0	N/A
% Samples w/ Clarified Turbidity ≤2.0 When Monthly Average Raw Turbidity >10.0	97.14%

Applied turbidity meter got saturated during the storm, we have parts ordered to fix. We have ran bench turb.

**NRV Regional Water Authority (PWSID # 1121057)
Water Treatment Plant Monthly Report**

October 2 Filter #1 Wash Log													
Date	Filter Hours	Number Of Washes	Headloss Before Washing	Headloss After Washing	Backwash (Total gals)	Turbidity Prior To Wash (NTU)	Max Turb. During Recovery (NTU)	No. ≤ 0.3 NTU During Recovery	Turbidity When Placed In Service	No. Washes ≤ 0.1 NTU When Placed In Service	Actual Filter To Waste Time (Rewash) (Min)	Recovery Time (Min)	No. ≤15 Min Recovery Time
1	23.67	1	5.93	0.76	66141	2.088	1.168		0.909		2.89	2.89	1
2													
3	54.87	1	5.81	0.74	66117	0.053	0.035	1	0.035	1	2.89	2.89	1
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Total	78.54	2			132258			1		1	5.78	5.78	2
Average	39.27	1	5.87	0.75	66129	1.0705	0.6015	0.5	0.472	0.5	2.89	2.89	1

Backwash recovery period/time, typically during filter to waste, for filter effluent turbidity to drop to ≤ 0.1 NTU.

Goal for backwash recovery period should be ≤ 15 minutes duration with peak turbidity ≤ 0.3 NTU.

Summary - Filter #1		(1) Data input here will reflect the no. of filter backwashes for the day that ≤ 0.3 NTU.
% Of total backwashes ≤ 0.3 NTU during recovery:	50.00	(2) Recommend filter effluent turbidity always be ≤ 0.10 NTU prior to placing filter in service.
% Of total backwashes ≤ 15 minutes during recovery:	100.00	Precision for reporting purposes to nearest 0.01 NTU.
% Of washes w/ turbidity ≤ 0.1 NTU upon placing in service:	50.00	

**NRV Regional Water Authority (PWSID # 1121057)
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October 2 Filter #2 Wash Log													
Date	Filter Hours	Number Of Washes	Headloss Before Washing	Headloss After Washing	Backwash (Total gals)	Turbidity Prior To Wash (NTU)	Max Turb. During Recovery (NTU)	No. ≤ 0.3 NTU During Recovery	Turbidity When Placed In Service	No. Washes ≤ 0.1 NTU When Placed In Service	Actual Filter To Waste Time (Rewash) (Min)	Recovery Time (Min)	No. ≤15 Min Recovery Time
1	23.16	1	6.03	0.22	59901	2.026	3.1		2.514		2.54	2.54	1
2													
3	49.78	2	5.81	0.22	60167	0.033	0.04	1	0.044	1	2.54	2.54	1
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Total	72.94	3			120068			1		1	5.08	5.08	2
Average	36.47	1.5	5.92	0.22	60034	1.0295	1.57	0.5	1.279	0.5	2.54	2.54	1

Backwash recovery period/time, typically during filter to waste, for filter effluent turbidity to drop to ≤ 0.1 NTU.

Goal for backwash recovery period should be ≤ 15 minutes duration with peak turbidity ≤ 0.3 NTU.

Summary - Filter #2		(1) Data input here will reflect the no. of filter backwashes for the day that ≤ 0.3 NTU. (2) Recommend filter effluent turbidity always be ≤ 0.10 NTU prior to placing filter in service. Precision for reporting purposes to nearest 0.01 NTU.
% Of total backwashes ≤ 0.3 NTU during recovery:	33.33	
% Of total backwashes ≤ 15 minutes during recovery:	66.67	
% Of washes w/ turbidity ≤ 0.1 NTU upon placing in service:	33.33	

**NRV Regional Water Authority (PWSID # 1121057)
Water Treatment Plant Monthly Report**

October 2 Filter #3 Wash Log

Date	Filter Hours	Number Of Washes	Headloss Before Washing	Headloss After Washing	Backwash (Total gals)	Turbidity Prior To Wash (NTU)	Max Turb. During Recovery (NTU)	No. ≤ 0.3 NTU During Recovery	Turbidity When Placed In Service	No. Washes ≤ 0.1 NTU When Placed In Service	Actual Filter To Waste Time (Rewash) (Min)	Recovery Time (Min)	No. ≤15 Min Recovery Time
1	22.96	1	5.93	0.79	65183	2.347	5.325		5.3		2.57	2.57	1
2													
3	57.02	1	6.03	0.79	65230	0.018	0.024	1	0.024	1	2.57	2.57	1
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6		1											
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Total	79.98	3			130413			1		1	5.14	5.14	13
Average	39.99	1	5.98	0.79	65206.5	1.1825	2.6745	0.5	2.662	0.5	2.57	2.57	1

Backwash recovery period/time, typically during filter to waste, for filter effluent turbidity to drop to ≤ 0.1 NTU.

Goal for backwash recovery period should be ≤ 15 minutes duration with peak turbidity ≤ 0.3 NTU.

Summary - Filter #3		(1) Data input here will reflect the no. of filter backwashes for the day that ≤ 0.3 NTU.
% Of total backwashes ≤ 0.3 NTU during recovery:	50.00	(2) Recommend filter effluent turbidity always be ≤ 0.10 NTU prior to placing filter in service.
% Of total backwashes ≤ 15 minutes during recovery:	100.00	Precision for reporting purposes to nearest 0.01 NTU.
% Of washes w/ turbidity ≤ 0.1 NTU upon placing in service:	50.00	

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October 2 Filter #4 Wash Log													
Date	Filter Hours	Number Of Washes	Headloss Before Washing	Headloss After Washing	Backwash (Total gals)	Turbidity Prior To Wash (NTU)	Max Turb. During Recovery (NTU)	No. ≤ 0.3 NTU During Recovery	Turbidity When Placed In Service	No. Washes ≤ 0.1 NTU When Placed In Service	Actual Filter To Waste Time (Rewash) (Min)	Recovery Time (Min)	No. ≤15 Min Recovery Time
1													
2	45.87	1	5.8	0.85	61573	0.24	0.317		0.32		2.64	2.64	1
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Total	45.87	1			61573						2.64	2.64	1
Average	45.87	1	5.8	0.85	61573	0.24	0.317		0.32		2.64	2.64	1

Backwash recovery period/time, typically during filter to waste, for filter effluent turbidity to drop to ≤ 0.1 NTU.
Goal for backwash recovery period should be ≤ 15 minutes duration with peak turbidity ≤ 0.3 NTU.

Summary - Filter #4		(1) Data input here will reflect the no. of filter backwashes for the day that ≤ 0.3 NTU. (2) Recommend filter effluent turbidity always be ≤ 0.10 NTU prior to placing filter in service. Precision for reporting purposes to nearest 0.01 NTU.
% Of total backwashes ≤ 0.3 NTU during recovery:		
% Of total backwashes ≤ 15 minutes during recovery:	100.00	
% Of washes w/ turbidity ≤ 0.1 NTU upon placing in service:		

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October 2 Filter #5 Wash Log

Date	Filter Hours	Number Of Washes	Headloss Before Washing	Headloss After Washing	Backwash (Total gals)	Turbidity Prior To Wash (NTU)	Max Turb. During Recovery (NTU)	No. ≤ 0.3 NTU During Recovery	Turbidity When Placed In Service	No. Washes ≤ 0.1 NTU When Placed In Service	Actual Filter To Waste Time (Rewash) (Min)	Recovery Time (Min)	No. ≤15 Min Recovery Time
1													
2	47.07	1	5.55	0.77	67057	0.177	0.282	1	0.281		2.76	2.76	1
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Total	47.07	1			67057			1			2.76	2.76	1
Average	47.07	1	5.55	0.77	67057	0.177	0.282	1	0.281		2.76	2.76	1

Backwash recovery period/time, typically during filter to waste, for filter effluent turbidity to drop to ≤ 0.1 NTU.
Goal for backwash recovery period should be ≤ 15 minutes duration with peak turbidity ≤ 0.3 NTU.

Summary - Filter #5		(1) Data input here will reflect the no. of filter backwashes for the day that ≤ 0.3 NTU.
% Of total backwashes ≤ 0.3 NTU during recovery:	100.00	(2) Recommend filter effluent turbidity always be ≤ 0.10 NTU prior to placing filter in service.
% Of total backwashes ≤ 15 minutes during recovery:	100.00	Precision for reporting purposes to nearest 0.01 NTU.
% Of washes w/ turbidity ≤ 0.1 NTU upon placing in service:		

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October 2 **Filter #6 Wash Log**

Date	Filter Hours	Number Of Washes	Headloss Before Washing	Headloss After Washing	Backwash (Total gals)	Turbidity Prior To Wash (NTU)	Max Turb. During Recovery (NTU)	No. ≤ 0.3 NTU During Recovery	Turbidity When Placed In Service	No. Washes ≤ 0.1 NTU When Placed In Service	Actual Filter To Waste Time (Rewash) (Min)	Recovery Time (Min)	No. ≤15 Min Recovery Time
1	39.67	1	5.77	0.8	64979	0.167	0.555		0.36		2.72	2.72	1
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19													
20													
21													
22													
23													
24													
25													
26													
27													
28													
29													
30													
31													
Total	39.67	1			64979						2.72	2.72	1
Average	39.67	1	5.77	0.8	64979	0.167	0.555		0.36		2.72	2.72	1

Backwash recovery period/time, typically during filter to waste, for filter effluent turbidity to drop to ≤ 0.1 NTU.

Goal for backwash recovery period should be ≤ 15 minutes duration with peak turbidity ≤ 0.3 NTU.

Summary - Filter #6		(1) Data input here will reflect the no. of filter backwashes for the day that ≤ 0.3 NTU. (2) Recommend filter effluent turbidity always be ≤ 0.10 NTU prior to placing filter in service. Precision for reporting purposes to nearest 0.01 NTU.
% Of total backwashes ≤ 0.3 NTU during recovery:		
% Of total backwashes ≤ 15 minutes during recovery:	100.00	
% Of washes w/ turbidity ≤ 0.1 NTU upon placing in service:		

**NRV Regional Water Authority (PWSID # 1121057)
Water Treatment Plant Monthly Report**

October Filter performance monthly operation report (≥ 10,000 Population)

Was individual filter turbidity monitoring conducted during the month? YES (yes or no)

Were all continuous turbidity monitors in operation for the entire month? YES (yes or no)

If no, complete the following table:

Filter No.	Date taken out of service	Date returned to service	Grab samples collected as required? (yes or no)

Did any of the following exceedances occur? NO (yes or no) If yes, complete the ch

Exceedance #1 : Turbidity level greater than 1.0 NTU in two consecutive measurements taken 15 minutes apart?

Filter No.	Turbidity Measurement	Date(s) of Exceedance

Date Filter Profile was produced:

Reason for the Exceedance:

Exceedance #2 : Turbidity level greater than 0.5 NTU in two consecutive measurements taken 15 minutes apart at the end of the first four hours of continuous filter operation, after the filter has been backwashed or otherwise taken offline?

Filter No.	Turbidity Measurement	Date(s) of Exceedance

Date Filter Profile was produced:

Reason for the Exceedance:

Exceedance #3 : Turbidity level greater than 1.0 NTU in two consecutive measurements taken 15 minutes apart at any time in each of three consecutive months?

Filter No.	Turbidity Measurement	Date(s) of Exceedance

Date Self-assessment was produced:

Exceedance #4 : Turbidity level greater than 2.0 NTU in two consecutive measurements taken 15 minutes apart at any time in each of two consecutive months?

Filter No.	Turbidity Measurement	Date(s) of Exceedance

Date comprehensive performance evaluation will be performed:

Prepared by: _____

Date: _____

**NRV Regional Water Authority (PWSID # 1121057)
Water Treatment Plant Monthly Report**

October Fluoridation Report									
Date	lbs. Of Chemical Used	Fluoride Dosage (mg/L)	Water Treated (MGD)	Fluoride (mg/L)			Total No. Samples	Raw Temp. (F°)	Remarks
				Average	Max.	Min.			
1	184.00	0.60	7.99	0.68	0.71	0.66	95.00	61.90	
2	255.00	0.60	9.71	0.65	0.65	0.66	96.00	61.90	
3	213.00	0.60	9.39	0.66	0.66	0.66	96.00	62.00	
4									
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									
16									
17									
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20									
21									
22									
23									
24									
25									
26									
27									
28									
29									
30									
31									
Total	652.00	1.80	27.1	1.99	2.02	1.98	287	186	Method for determining fluoride residuals:
Max.	255.00	0.60	9.7	0.68	0.71	0.66	96	62	Specific Ion
Min.	184.00	0.60	8.0	0.65	0.65	0.66	95	62	Chemical Used:
Average	217.33	0.60	9.0	0.66	0.67	0.66	96	62	Responsible Operator:
Population Served:									Class: _____ Date: _____
No. Of Connections:									Signed: _____

Water Treatment Plant Monthly Report

October 20					
WTP Chemical Inventory					
Type	Chemicals Added	Chemical Characteristics	Manufacturer/Product Name	NSF 60	Point(s) Of Application
	PACL	Colorless to hazy amber.	Delta Chemical / Delpac 2500	Yes	Flash mixer.
Coagulant Aid	Polymer				
	Other				
pH Adjustment	Caustic Soda	Colorless liquid.	Univar / Caustic Soda 50%	Yes	Raw Water @ Plant/CCT
Adsorbent	Powdered Activated Carbon	Black		Yes	Raw Water @ Pretreatment
Oxidant	Chlorine	Yellowish/Green Gas.	Jones / Chlorine	Yes	#2 & #4 Flocculators
	Sodium Permanganate	Deep Purple	Carrus	Yes	Raw Water @ Pretreatment
	Other				
Filter Aids	Polymer				
	Other				
Corrosion Inhibitor	Zinc Orthophosphate	Clear, water white.	Carus	Yes	CCT
	Other				
	Fluorosilicic Acid	Clear and colorless.	Mosaic / HSFA 20-30%	Yes	CCT
Disinfectant	Chlorine	Yellowish/Green Gas.	Jones / Chlorine	Yes	Flocculator/Filters/Clearwell/CCT
	Ammonia (NH ₃)	Clear and colorless.	Univar	Yes	Finished Water Header.
Alk. Adjustment	Soda Ash	Powder	Surry Chemical 100 light	Yes	Flash mixer.

October

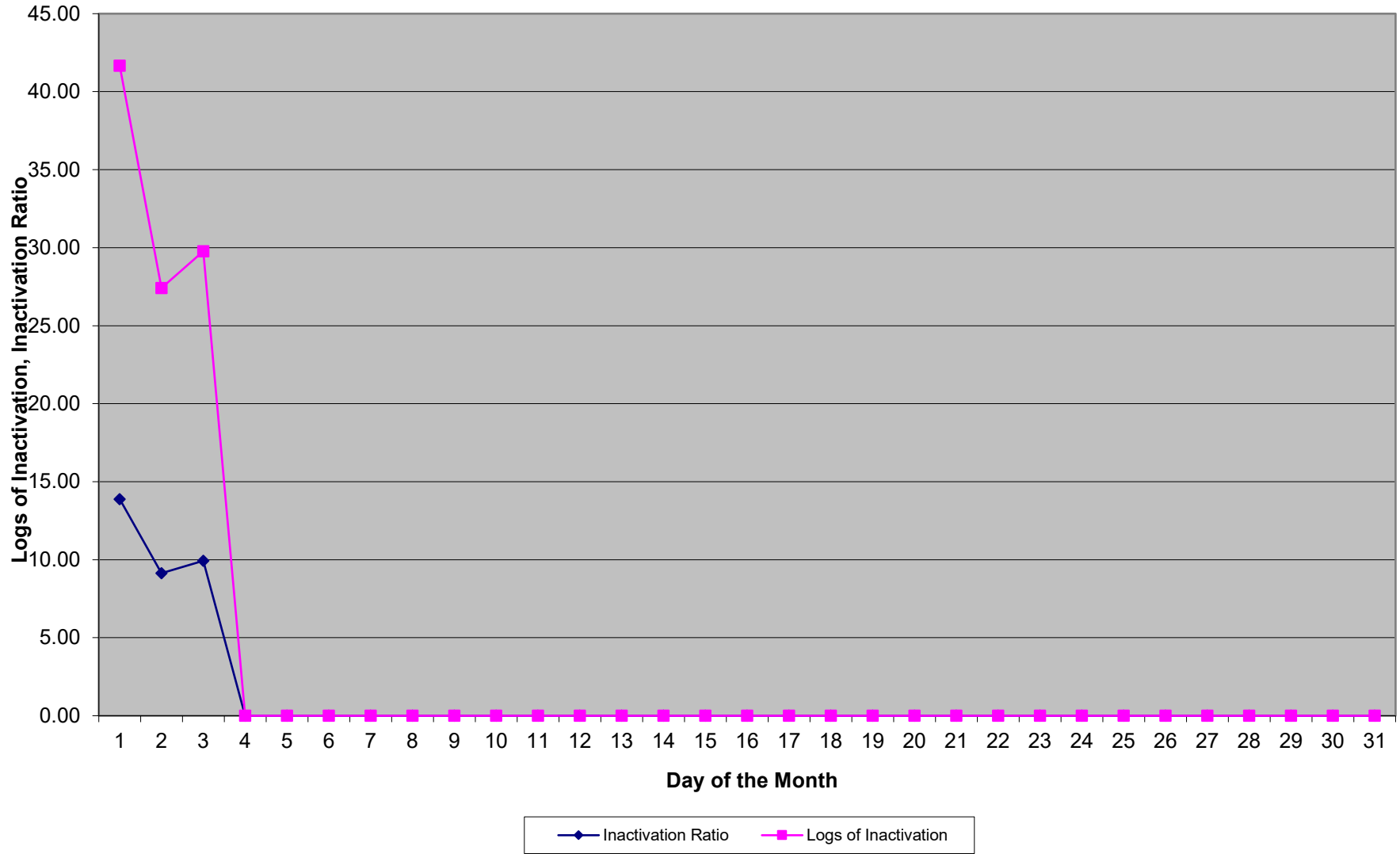
Filter Rise / Drop Test

Filter Drop Test Rate			Filter Rise Test Rate		
	Date	gpm/ft2		Date	gpm/ft2
Filter 1	10/3/2024	3.47	Filter 1	10/3/2024	24.82
Filter 2	10/3/2024	3.43	Filter 2	10/3/2024	26.70
Filter 3	10/3/2024	3.01	Filter 3	10/3/2024	24.40
Filter 4	10/2/2024	3.38	Filter 4	10/2/2024	26.75
Filter 5	10/2/2024	3.49	Filter 5	10/2/2024	24.35
Filter 6	10/1/2024	2.65	Filter 6	10/1/2024	28.10
Date Sedimentation Basin Last Cleaned			Date Flocculators Last Cleaned		
Basin	Date		Flocculator	Date	
No.1	5/22/24		No.1	6/2/21	
No.2	6/15/24		No.2	6/2/21	
No.3	5/23/24		No.3	8/31/21	
No.4	6/16/24		No.4	8/31/21	
No.5	7/3/24		No.5	7/20/21	
No.6	7/17/24		Flash Mix	7/20/21	

System Name **New River Valley Regional Water Authority** System Number **1121057** Treatment Plant Name **NRVRWA Water Treatment Plant**
 Compliance Period Beginning Date **(10/01/24)** 10/1/24 Prepared By

Date	Totals		Inactivation Ratio Summary for Individual Sequences																				
	Inactivation Ratio	Logs of Inactivation	#1	#2	#3	#4	#5	#6	#7	#8	#9	#10	#11	#12	#13	#14	#15	#16	#17	#18	#19	#20	
1	13.89	41.66	0.00	0.03	0.14	0.14	0.15	13.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	9.14	27.41	0.00	0.04	0.19	0.10	0.11	8.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	9.92	29.77	0.00	0.04	0.16	0.10	0.11	9.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average	10.98	32.95																					

Disinfection Profile



System Name **New River Valley Regional Water Authority**
 System Number **1121057**
 Treatment Plant Name **NRVRWA Water Treatment Plant**
 Sequence Description: **Rapid Mix Basin**
 Select Contactor Type: **Rapid Mix, Basin**

Check box if basin is circular.
 Vessel Width (ft): **11**
 Vessel Depth (ft): **10**
 Vessel Length (ft): **11**
 Applied Baffling Factor: **0.1**

Select Disinfectant: **Free Chlorine**

Profile for: **October-24**

Date	Flow Rate (gpm)	Water Depth (ft)	Volumes			Contact Time		Disinfectant Residual (mg/L)	pH	Temperature (°C)	CT		Inactivation Provided	
			Total (gal)	Effective (gal)	Allowed (gal)	Calculated (min)	Tracer (min)				Provided (mg*min/L)	3 log (mg*min/L)	CT Ratio	Logs
1	6297.00	10.0	9051	9051	905	0.1		0.18	6.7	19.6	0.03	47.70	0.00	0.00
2	7764.00	10.0	9051	9051	905	0.1		0.27	6.5	19.5	0.03	44.57	0.00	0.00
3	7319.00	10.0	9051	9051	905	0.1		0.22	6.5	19.6	0.03	44.41	0.00	0.00
4		10.0	9051	9051	905	0.0					0.00	0.00	0.00	0.00
5		10.0	9051	9051	905	0.0					0.00	0.00	0.00	0.00
6		10.0	9051	9051	905	0.0					0.00	0.00	0.00	0.00
7		10.0	9051	9051	905	0.0					0.00	0.00	0.00	0.00
8		10.0	9051	9051	905	0.0					0.00	0.00	0.00	0.00
9		10.0	9051	9051	905	0.0					0.00	0.00	0.00	0.00
10		10.0	9051	9051	905	0.0					0.00	0.00	0.00	0.00
11		10.0	9051	9051	905	0.0					0.00	0.00	0.00	0.00
12		10.0	9051	9051	905	0.0					0.00	0.00	0.00	0.00
13		10.0	9051	9051	905	0.0					0.00	0.00	0.00	0.00
14		10.0	9051	9051	905	0.0					0.00	0.00	0.00	0.00
15		10.0	9051	9051	905	0.0					0.00	0.00	0.00	0.00
16		10.0	9051	9051	905	0.0					0.00	0.00	0.00	0.00
17		10.0	9051	9051	905	0.0					0.00	0.00	0.00	0.00
18		10.0	9051	9051	905	0.0					0.00	0.00	0.00	0.00
19		10.0	9051	9051	905	0.0					0.00	0.00	0.00	0.00
20		10.0	9051	9051	905	0.0					0.00	0.00	0.00	0.00
21		10.0	9051	9051	905	0.0					0.00	0.00	0.00	0.00
22		10.0	9051	9051	905	0.0					0.00	0.00	0.00	0.00
23		10.0	9051	9051	905	0.0					0.00	0.00	0.00	0.00
24		10.0	9051	9051	905	0.0					0.00	0.00	0.00	0.00
25		10.0	9051	9051	905	0.0					0.00	0.00	0.00	0.00
26		10.0	9051	9051	905	0.0					0.00	0.00	0.00	0.00
27		10.0	9051	9051	905	0.0					0.00	0.00	0.00	0.00
28		10.0	9051	9051	905	0.0					0.00	0.00	0.00	0.00
29		10.0	9051	9051	905	0.0					0.00	0.00	0.00	0.00
30		10.0	9051	9051	905	0.0					0.00	0.00	0.00	0.00
31		10.0	9051	9051	905	0.0					0.00	0.00	0.00	0.00
											Averages	0.00	0.00	

System Name **New River Valley Regional Water Authority**
 System Number **1121057**
 Treatment Plant Name **NRVRWA Water Treatment Plant**
 Sequence Description: **Flocculation**
 Select Contactor Type: **Flocculation Basin**

Click box if basin is compartmented.
 Check box if basin is circular.

Vessel Width (ft): **39.25**
 Vessel Depth (ft): **13**
 Vessel Length (ft): **47.405985**
 Applied Baffling Factor: **0.3**

Select Disinfectant: **Free Chlorine**

Profile for: **October-24**

Date	Flow Rate (gpm)	Water Depth (ft)	Volumes			Contact Time		Disinfectant Residual (mg/L)	pH	Temperature (°C)	CT		Inactivation Provided	
			Total (gal)	Effective (gal)	Allowed (gal)	Calculated (min)	Tracer (min)				Provided (mg*min/L)	3 log (mg*min/L)	CT Ratio	Logs
1	6297.00	13.0	180933	180933	54280	8.6		0.18	6.7	19.6	1.55	47.70	0.03	0.10
2	7764.00	13.0	180933	180933	54280	7.0		0.27	6.5	19.5	1.89	44.57	0.04	0.13
3	7319.00	13.0	180933	180933	54280	7.4		0.22	6.5	19.6	1.63	44.41	0.04	0.11
4	0.00	13.0	180933	180933	54280	0.0					0.00	0.00	0.00	0.00
5	0.00	13.0	180933	180933	54280	0.0					0.00	0.00	0.00	0.00
6	0.00	13.0	180933	180933	54280	0.0					0.00	0.00	0.00	0.00
7	0.00	13.0	180933	180933	54280	0.0					0.00	0.00	0.00	0.00
8	0.00	13.0	180933	180933	54280	0.0					0.00	0.00	0.00	0.00
9	0.00	13.0	180933	180933	54280	0.0					0.00	0.00	0.00	0.00
10	0.00	13.0	180933	180933	54280	0.0					0.00	0.00	0.00	0.00
11	0.00	13.0	180933	180933	54280	0.0					0.00	0.00	0.00	0.00
12	0.00	13.0	180933	180933	54280	0.0					0.00	0.00	0.00	0.00
13	0.00	13.0	180933	180933	54280	0.0					0.00	0.00	0.00	0.00
14	0.00	13.0	180933	180933	54280	0.0					0.00	0.00	0.00	0.00
15	0.00	13.0	180933	180933	54280	0.0					0.00	0.00	0.00	0.00
16	0.00	13.0	180933	180933	54280	0.0					0.00	0.00	0.00	0.00
17	0.00	13.0	180933	180933	54280	0.0					0.00	0.00	0.00	0.00
18	0.00	13.0	180933	180933	54280	0.0					0.00	0.00	0.00	0.00
19	0.00	13.0	180933	180933	54280	0.0					0.00	0.00	0.00	0.00
20	0.00	13.0	180933	180933	54280	0.0					0.00	0.00	0.00	0.00
21	0.00	13.0	180933	180933	54280	0.0					0.00	0.00	0.00	0.00
22	0.00	13.0	180933	180933	54280	0.0					0.00	0.00	0.00	0.00
23	0.00	13.0	180933	180933	54280	0.0					0.00	0.00	0.00	0.00
24	0.00	13.0	180933	180933	54280	0.0					0.00	0.00	0.00	0.00
25	0.00	13.0	180933	180933	54280	0.0					0.00	0.00	0.00	0.00
26	0.00	13.0	180933	180933	54280	0.0					0.00	0.00	0.00	0.00
27	0.00	13.0	180933	180933	54280	0.0					0.00	0.00	0.00	0.00
28	0.00	13.0	180933	180933	54280	0.0					0.00	0.00	0.00	0.00
29	0.00	13.0	180933	180933	54280	0.0					0.00	0.00	0.00	0.00
30	0.00	13.0	180933	180933	54280	0.0					0.00	0.00	0.00	0.00
31	0.00	13.0	180933	180933	54280	0.0					0.00	0.00	0.00	0.00
											Averages	0.04	0.11	

System Name **New River Valley Regional Water Authority** Check box if basin includes intra-basin & outlet baffling.
 System Number **1121057** Check box if basin is circular.
 Treatment Plant Name **NRVWA Water Treatment Plant**
 Sequence Description: **Sedimentation Basin**
 Select Contactor Type: Sedimentation Basin

Vessel Width (ft): **75**
 Vessel Depth (ft): **13**
 Vessel Length (ft): **110.0233**
 Applied Baffling Factor: **0.3**

Select Disinfectant: Free Chlorine

Profile for: **October-24**

Date	Flow Rate (gpm)	Water Depth (ft)	Volumes			Contact Time		Disinfectant Residual (mg/L)	pH	Temperature (°C)	CT		Inactivation Provided	
			Total (gal)	Effective (gal)	Allowed (gal)	Calculated (min)	Tracer (min)				Provided (mg*min/L)	3 log (mg*min/L)	CT Ratio	Logs
1	6297.00	13.0	802400	802400	240720	38.2		0.18	6.7	19.6	6.88	47.70	0.14	0.43
2	7764.00	13.0	802400	802400	240720	31.0		0.27	6.5	19.5	8.37	44.57	0.19	0.56
3	7319.00	13.0	802400	802400	240720	32.9		0.22	6.5	19.6	7.24	44.41	0.16	0.49
4	0.00	13.0	802400	802400	240720	0.0					0.00	0.00	0.00	0.00
5	0.00	13.0	802400	802400	240720	0.0					0.00	0.00	0.00	0.00
6	0.00	13.0	802400	802400	240720	0.0					0.00	0.00	0.00	0.00
7	0.00	13.0	802400	802400	240720	0.0					0.00	0.00	0.00	0.00
8	0.00	13.0	802400	802400	240720	0.0					0.00	0.00	0.00	0.00
9	0.00	13.0	802400	802400	240720	0.0					0.00	0.00	0.00	0.00
10	0.00	13.0	802400	802400	240720	0.0					0.00	0.00	0.00	0.00
11	0.00	13.0	802400	802400	240720	0.0					0.00	0.00	0.00	0.00
12	0.00	13.0	802400	802400	240720	0.0					0.00	0.00	0.00	0.00
13	0.00	13.0	802400	802400	240720	0.0					0.00	0.00	0.00	0.00
14	0.00	13.0	802400	802400	240720	0.0					0.00	0.00	0.00	0.00
15	0.00	13.0	802400	802400	240720	0.0					0.00	0.00	0.00	0.00
16	0.00	13.0	802400	802400	240720	0.0					0.00	0.00	0.00	0.00
17	0.00	13.0	802400	802400	240720	0.0					0.00	0.00	0.00	0.00
18	0.00	13.0	802400	802400	240720	0.0					0.00	0.00	0.00	0.00
19	0.00	13.0	802400	802400	240720	0.0					0.00	0.00	0.00	0.00
20	0.00	13.0	802400	802400	240720	0.0					0.00	0.00	0.00	0.00
21	0.00	13.0	802400	802400	240720	0.0					0.00	0.00	0.00	0.00
22	0.00	13.0	802400	802400	240720	0.0					0.00	0.00	0.00	0.00
23	0.00	13.0	802400	802400	240720	0.0					0.00	0.00	0.00	0.00
24	0.00	13.0	802400	802400	240720	0.0					0.00	0.00	0.00	0.00
25	0.00	13.0	802400	802400	240720	0.0					0.00	0.00	0.00	0.00
26	0.00	13.0	802400	802400	240720	0.0					0.00	0.00	0.00	0.00
27	0.00	13.0	802400	802400	240720	0.0					0.00	0.00	0.00	0.00
28	0.00	13.0	802400	802400	240720	0.0					0.00	0.00	0.00	0.00
29	0.00	13.0	802400	802400	240720	0.0					0.00	0.00	0.00	0.00
30	0.00	13.0	802400	802400	240720	0.0					0.00	0.00	0.00	0.00
31	0.00	13.0	802400	802400	240720	0.0					0.00	0.00	0.00	0.00
											Averages	0.16	0.49	

System Name **New River Valley Regional Water Authority**

System Number **1121057**

Treatment Plant Name **NRVRWA Water Treatment Plant**

Sequence Description: **Filters**

Select Contactor Type: **Filter**

Select Disinfectant: **Free Chlorine**

Profile for: **October-24**

Check box if basin is circular:

Media Volume (Gallons):

Support Gravel Volume (Gallons):

Underdrain Volume (Gallons):

Vessel Width (ft): **97.98**

Vessel Depth (ft): **4.75**

Vessel Length (ft): **22**

Applied Baffling Factor: **0.7**

Date	Flow Rate (gpm)	Water Depth (ft)	Volumes			Contact Time		Disinfectant Residual (mg/L)	pH	Temperature (°C)	CT		Inactivation Provided	
			Total (gal)	Effective (gal)	Allowed (gal)	Calculated (min)	Tracer (min)				Provided (mg*min/L)	3 log (mg*min/L)	CT Ratio	Logs
1	6297.00	4.8	76587	76587	53611	8.5		0.62	6.1	20.9	5.28	38.01	0.14	0.42
2	7764.00	4.8	76587	76587	53611	6.9		0.54	5.9	20.8	3.73	36.46	0.10	0.31
3	7319.00	4.8	76587	76587	53611	7.3		0.50	5.9	20.9	3.66	36.17	0.10	0.30
4	0.00	4.8	76587	76587	53611	0.0					0.00	0.00	0.00	0.00
5	0.00	4.8	76587	76587	53611	0.0					0.00	0.00	0.00	0.00
6	0.00	4.8	76587	76587	53611	0.0					0.00	0.00	0.00	0.00
7	0.00	4.8	76587	76587	53611	0.0					0.00	0.00	0.00	0.00
8	0.00	4.8	76587	76587	53611	0.0					0.00	0.00	0.00	0.00
9	0.00	4.8	76587	76587	53611	0.0					0.00	0.00	0.00	0.00
10	0.00	4.8	76587	76587	53611	0.0					0.00	0.00	0.00	0.00
11	0.00	4.8	76587	76587	53611	0.0					0.00	0.00	0.00	0.00
12	0.00	4.8	76587	76587	53611	0.0					0.00	0.00	0.00	0.00
13	0.00	4.8	76587	76587	53611	0.0					0.00	0.00	0.00	0.00
14	0.00	4.8	76587	76587	53611	0.0					0.00	0.00	0.00	0.00
15	0.00	4.8	76587	76587	53611	0.0					0.00	0.00	0.00	0.00
16	0.00	4.8	76587	76587	53611	0.0					0.00	0.00	0.00	0.00
17	0.00	4.8	76587	76587	53611	0.0					0.00	0.00	0.00	0.00
18	0.00	4.8	76587	76587	53611	0.0					0.00	0.00	0.00	0.00
19	0.00	4.8	76587	76587	53611	0.0					0.00	0.00	0.00	0.00
20	0.00	4.8	76587	76587	53611	0.0					0.00	0.00	0.00	0.00
21	0.00	4.8	76587	76587	53611	0.0					0.00	0.00	0.00	0.00
22	0.00	4.8	76587	76587	53611	0.0					0.00	0.00	0.00	0.00
23	0.00	4.8	76587	76587	53611	0.0					0.00	0.00	0.00	0.00
24	0.00	4.8	76587	76587	53611	0.0					0.00	0.00	0.00	0.00
25	0.00	4.8	76587	76587	53611	0.0					0.00	0.00	0.00	0.00
26	0.00	4.8	76587	76587	53611	0.0					0.00	0.00	0.00	0.00
27	0.00	4.8	76587	76587	53611	0.0					0.00	0.00	0.00	0.00
28	0.00	4.8	76587	76587	53611	0.0					0.00	0.00	0.00	0.00
29	0.00	4.8	76587	76587	53611	0.0					0.00	0.00	0.00	0.00
30	0.00	4.8	76587	76587	53611	0.0					0.00	0.00	0.00	0.00
31	0.00	4.8	76587	76587	53611	0.0					0.00	0.00	0.00	0.00
											Averages	0.11	0.34	

System Name **New River Valley Regional Water Authority**

System Number **1121057**

Treatment Plant Name **NRVVA Water Treatment Plant**

Sequence Description: **Clear Well**

Select Contactor Type: **Clear Well**

Check box if basin is circular:

Vessel Width (ft): **57.86**

Vessel Depth (ft): **9**

Vessel Length (ft): **57.8569**

Select Disinfectant: **Free Chlorine**

Applied Baffling Factor: **0.4**

State Assigned Baffling Factor: **0.4**

Profile for: **October-24**

Date	Flow Rate (gpm)	Water Depth (ft)	Volumes			Contact Time		Disinfectant Residual (mg/L)	pH	Temperature (°C)	CT		Inactivation Provided	
			Total (gal)	Effective (gal)	Allowed (gal)	Calculated (min)	Tracer (min)				Provided (mg*min/L)	3 log (mg*min/L)	CT Ratio	Logs
1	6297.00	8.2	225360	205328	82131	13.0		0.57	6.8	20.7	7.43	48.66	0.15	0.46
2	7764.00	8.2	225360	205328	82131	10.6		0.48	6.6	20.5	5.08	45.11	0.11	0.34
3	7319.00	8.2	225360	205328	82131	11.2		0.44	6.6	20.6	4.94	44.77	0.11	0.33
4	0.00	8.2	225360	205328	82131	0.0					0.00	0.00	0.00	0.00
5	0.00	8.2	225360	205328	82131	0.0					0.00	0.00	0.00	0.00
6	0.00	8.2	225360	205328	82131	0.0					0.00	0.00	0.00	0.00
7	0.00	8.2	225360	205328	82131	0.0					0.00	0.00	0.00	0.00
8	0.00	8.2	225360	205328	82131	0.0					0.00	0.00	0.00	0.00
9	0.00	8.2	225360	205328	82131	0.0					0.00	0.00	0.00	0.00
10	0.00	8.2	225360	205328	82131	0.0					0.00	0.00	0.00	0.00
11	0.00	8.2	225360	205328	82131	0.0					0.00	0.00	0.00	0.00
12	0.00	8.2	225360	205328	82131	0.0					0.00	0.00	0.00	0.00
13	0.00	8.2	225360	205328	82131	0.0					0.00	0.00	0.00	0.00
14	0.00	8.2	225360	205328	82131	0.0					0.00	0.00	0.00	0.00
15	0.00	8.2	225360	205328	82131	0.0					0.00	0.00	0.00	0.00
16	0.00	8.2	225360	205328	82131	0.0					0.00	0.00	0.00	0.00
17	0.00	8.2	225360	205328	82131	0.0					0.00	0.00	0.00	0.00
18	0.00	8.2	225360	205328	82131	0.0					0.00	0.00	0.00	0.00
19	0.00	8.2	225360	205328	82131	0.0					0.00	0.00	0.00	0.00
20	0.00	8.2	225360	205328	82131	0.0					0.00	0.00	0.00	0.00
21	0.00	8.2	225360	205328	82131	0.0					0.00	0.00	0.00	0.00
22	0.00	8.2	225360	205328	82131	0.0					0.00	0.00	0.00	0.00
23	0.00	8.2	225360	205328	82131	0.0					0.00	0.00	0.00	0.00
24	0.00	8.2	225360	205328	82131	0.0					0.00	0.00	0.00	0.00
25	0.00	8.2	225360	205328	82131	0.0					0.00	0.00	0.00	0.00
26	0.00	8.2	225360	205328	82131	0.0					0.00	0.00	0.00	0.00
27	0.00	8.2	225360	205328	82131	0.0					0.00	0.00	0.00	0.00
28	0.00	8.2	225360	205328	82131	0.0					0.00	0.00	0.00	0.00
29	0.00	8.2	225360	205328	82131	0.0					0.00	0.00	0.00	0.00
30	0.00	8.2	225360	205328	82131	0.0					0.00	0.00	0.00	0.00
31	0.00	8.2	225360	205328	82131	0.0					0.00	0.00	0.00	0.00
											Averages	0.13	0.38	

System Name **New River Valley Regional Water Authority**

System Number **1121057**

Treatment Plant Name **NRVWA Water Treatment Plant**

Sequence Description: **Chlorine Contact Tank**

Select Contactor Type: **Contact Basin**

Select Disinfectant: **Free Chlorine**

Profile for: **October-24**

Check box if basin is circular.

Vessel Width (ft): **9**

Vessel Depth (ft): **11.25**

Vessel Length (ft): **286.83**

Applied Baffling Factor: **0.7**

State Assigned Baffling Factor: **0.7**

Date	Flow Rate (gpm)	Water Depth (ft)	Volumes			Contact Time		Disinfectant Residual (mg/L)	pH	Temperature (°C)	CT		Inactivation Provided	
			Total (gal)	Effective (gal)	Allowed (gal)	Calculated (min)	Tracer (min)				Provided (mg*min/L)	3 log (mg*min/L)	CT Ratio	Logs
1	6297.00	11.7	217231	225920	1581439	251.1		3.84	7.3	22.3	964.38	71.87	13.42	40.25
2	7764.00	11.7	217231	225920	1581439	203.7		3.39	7.5	21.7	690.50	79.44	8.69	26.08
3	7319.00	11.7	217231	225920	1581439	216.1		3.08	7.2	22	665.51	69.96	9.51	28.54
4	0.00	11.7	217231	225920	1581439	0.0					0.00	0.00	0.00	0.00
5	0.00	11.7	217231	225920	1581439	0.0					0.00	0.00	0.00	0.00
6	0.00	11.7	217231	225920	1581439	0.0					0.00	0.00	0.00	0.00
7	0.00	11.7	217231	225920	1581439	0.0					0.00	0.00	0.00	0.00
8	0.00	11.7	217231	225920	1581439	0.0					0.00	0.00	0.00	0.00
9	0.00	11.7	217231	225920	1581439	0.0					0.00	0.00	0.00	0.00
10	0.00	11.7	217231	225920	1581439	0.0					0.00	0.00	0.00	0.00
11	0.00	11.7	217231	225920	1581439	0.0					0.00	0.00	0.00	0.00
12	0.00	11.7	217231	225920	1581439	0.0					0.00	0.00	0.00	0.00
13	0.00	11.7	217231	225920	1581439	0.0					0.00	0.00	0.00	0.00
14	0.00	11.7	217231	225920	1581439	0.0					0.00	0.00	0.00	0.00
15	0.00	11.7	217231	225920	1581439	0.0					0.00	0.00	0.00	0.00
16	0.00	11.7	217231	225920	1581439	0.0					0.00	0.00	0.00	0.00
17	0.00	11.7	217231	225920	1581439	0.0					0.00	0.00	0.00	0.00
18	0.00	11.7	217231	225920	1581439	0.0					0.00	0.00	0.00	0.00
19	0.00	11.7	217231	225920	1581439	0.0					0.00	0.00	0.00	0.00
20	0.00	11.7	217231	225920	1581439	0.0					0.00	0.00	0.00	0.00
21	0.00	11.7	217231	225920	1581439	0.0					0.00	0.00	0.00	0.00
22	0.00	11.7	217231	225920	1581439	0.0					0.00	0.00	0.00	0.00
23	0.00	11.7	217231	225920	1581439	0.0					0.00	0.00	0.00	0.00
24	0.00	11.7	217231	225920	1581439	0.0					0.00	0.00	0.00	0.00
25	0.00	11.7	217231	225920	1581439	0.0					0.00	0.00	0.00	0.00
26	0.00	11.7	217231	225920	1581439	0.0					0.00	0.00	0.00	0.00
27	0.00	11.7	217231	225920	1581439	0.0					0.00	0.00	0.00	0.00
28	0.00	11.7	217231	225920	1581439	0.0					0.00	0.00	0.00	0.00
29	0.00	11.7	217231	225920	1581439	0.0					0.00	0.00	0.00	0.00
30	0.00	11.7	217231	225920	1581439	0.0					0.00	0.00	0.00	0.00
31	0.00	11.7	217231	225920	1581439	0.0					0.00	0.00	0.00	0.00
											Averages	10.54	31.62	