

OHA - Drinking Water Services - Surface Water Quality Data Form

County: **Multnomah**

Cartridge or Bag Filtration with UV Giardia/Crypto/Viral Disinfection

Month/Year: **May-23**

System Name: **PAE Living Building Rain Harvest System**      WS ID#: **41-95690**      WTP ID: \_\_\_\_\_

Change Filter at max PSID = **35 PSID** (see manufacturer's specification)

Day	Pressure Loss			Turbidity	
	PSI Before Filter	PSI After Filter	PSID	Compliance Turbidity [NTU]	Highest NTU of the day 1
1	OFF				
2	OFF				
3	32.00	14.00	18.00	0.10	1.71
4	OFF				
5	OFF				
6	OFF				
7	OFF				
8	32.00	12.00	20.00	0.14	1.37
9	OFF				
10	OFF				
11	OFF				
12	32.00	10.00	22.00	0.13	1.05
13	OFF				
14	OFF				
15	32.00	12.00	20.00	0.10	1
16	OFF				
17	OFF				
18	OFF				
19	32.00	12.00	20.00	0.11	1.02
20	OFF				
21	OFF				
22	OFF				
23	OFF				
24	38.00	18.00	18.00	0.09	0.49
25	30.00	12.00	18.00	0.08	0.33
26	OFF				
27	OFF				
28	OFF				
29	OFF				
30	OFF				
31	32.00	10.00	22.00	0.07	0.58

**Cartridge & Bag Filtration (circle Yes or No)**

95% of daily turbidity readings ≤ 1 NTU?  Yes /  No

All daily turbidity readings ≤ 5 NTU?  Yes /  No

**Monthly UV Summary (circle Yes or No)**

Was the volume of off-spec water produced less than 5% for the month?  Yes /  No

**Notes:** PSI = pounds per square inch

PSID = pounds per square inch difference (before filter - after filter)

PRINTED NAME: **Dustin T. Thorson**

DATE: **June 8th, 2023**

PHONE #: (503) 224-3454

CERT #: T-323544

SIGNATURE: *Dustin T. Thorson*

<sup>1</sup> If one NTU value per day measured, value same as Compliance Turbidity. Intended for multiple readings per day. Used for optimization efforts only. Highest NTU of the day is for optimization, not compliance. Highest is only for state-wide tracking of performance among all treatment systems.

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<b>Cartridge or Bag Filtration with UV <i>Giardia/Crypto/Viral</i> Disinfection</b>		<b>Month/Year:</b> May-23
<b>System Name:</b> PAE Living Building Rain Harvest System	<b>ID# 41-</b> 95690	<b>WTP ID:</b>

Minimum UVT during month: 104 %      Duty sensor variation from reference sensor %: 0.11 %  
 Minimum Validated UVT: 77.50%      Min. UV Dose achieved/intended this month: 7,733/ 186<sup>mJ</sup>/cm<sup>2</sup>

Date	Peak Hourly Demand Flow	Minimum Intensity	All Lamps On?	Daily Water Produced {A}	Water outside Validated Conditions {B}	Cumulative % Off-Spec Water Produced
	[gpm/unit]	[mW/cm <sup>2</sup> ]	[ Y or N ]	[gal]	[gal]	(Mo. Sum {B}) ÷ (Mo. Sum {A}) * 100 [%]
1	OFF					
2	OFF					
3	12.2	213	Y	745	-	
4	OFF					
5	OFF					
6	OFF					
7	OFF					
8	12	209	Y	781	-	
9	OFF					
10	OFF					
11	OFF					
12	10.1	208	Y	835	-	
13	OFF					
14	OFF					
15	10.5	200	Y	1,152	-	
16	OFF					
17	OFF					
18	OFF					
19	11.5	211	Y	772	-	
20	OFF					
21	OFF					
22	OFF					
23	OFF					
24	11	207	Y	722	-	
25	11	212	Y	508	-	
26	OFF					
27	OFF					
28	OFF					
29	OFF					
30	OFF					
31	11	211	Y	931	-	
<b>Monthly Cumulative % Off-Spec Water Produced <sup>2</sup></b>						

<sup>2</sup> If ≥ 5% of total water produced is off-spec., notify DWS within 24 hours.

**Return by 10<sup>th</sup> of following month by email, fax or mail to:**  
 dwp.dmce@odhsoha.oregon.gov; 971-673-0694; or Drinking Water Services, PO Box 14350, Portland, OR 97293-0350