

# Project Status Report



## Task Orders

Heart of the Valley Metropolitan Sewerage District (HOVMSD)  
Donohue Project Number 13649

Period | April 21 – May 25, 2024  
Invoice 48

### Remarks

None.

### Budgets

Task Orders	Status	Budget	Spent	% Spent	Remaining
1 Master Planning - Step1	Complete	\$25,400.00	\$25,400.00	✓	\$0.00
2 Master Planning - Effluent Filtration	Complete	\$24,925.00	\$24,925.00	✓	\$0.00
3 Local Limits Support	Complete	\$9,500.00	\$9,500.00	✓	\$0.00
4A Effluent Filtration - Design	Complete	\$688,580.00	\$688,080.55	✓	\$499.45
5 Advancing Local Limits	Hold	\$14,250.00	\$7,509.20	53%	\$6,740.80
6A I/I Modeling and Analysis (2021, 2022)	Complete	\$79,980.00	\$79,980.00	✓	\$0.00
6B I/I Modeling and Analysis (2023,2024)	Active	\$62,280.00	\$10,587.60	17%	\$51,692.40
7 Re-Rate and Cold-Weather Stress Test	Complete	\$14,800.00	\$14,800.00	✓	\$0.00
8 Effluent Filtration - Construction	Active	\$1,096,219.00	\$837,484.42	76%	\$258,734.58
9 Landfill Leachate Assistance	Hold	\$10,000.00	\$6,029.38	60%	\$3,970.62
10 Waste Tank Rehab RFP	Complete	\$18,405.00	\$18,368.43	✓	\$36.57
11 Waste Tank Rehab Bid Documents	Active	\$25,000.00	\$1,615.00	6%	\$23,385.00

✓ = Complete

#### Budget Notes:

1. None.

### Outstanding Issues

1. None.

## Status Report for Effluent Filtration Improvements Project

### Activities This Period

- No monthly construction progress meeting for May.
- Closed Clean Water Fund Loan and Issued Pay Application 21.
- Reviewed Contractor submittals and answered Contractor questions.
- Provided on-site construction observation services.
- Work completed on Work Change Directives 11 for Disc Filter Automated Cleaning System Functional Description Programming Changes and 12 for eliminating the Existing Automatic Dampers and Seimens Actuators in the lower level of Str 60.
- Disc filter optimization ongoing, 7-day run test complete.
- Ortho-phosphate and Turbidity analyzer calibration and associated work completed, finalizing optimization of both.
- Kruger performed onsite chemical conditioning and disc filter optimization
- Kruger completed systems demonstration

### Near-Term Activities

- Review contractor submittals and answer contractor questions.
- Prepare work change directives and responses to contractor claims.
- Review monthly Pay Application 22.
- Begin preparation of final disbursement letter since project has reached the 95% complete mark.

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- Prepare CWF loan disbursement 23 request to WDNR.
- Continue on-site construction observation services.
- Punchlist completion walk through to occur on what has been completed by Contractors.
- System start-up and facility training on equipment is ongoing, remaining items include Chemical Systems, SCADA and Disc Filters. Disc Filter performance testing and optimization to begin in June 2024.
- Kruger onsite chemical conditioning and disc filter optimization with alternative polymer
- Kruger determine optimized chemical dosage in preparation for performance test
- Kruger test full tertiary treatment system with ACS

### Outstanding Issues

- No issues at this time.

### Construction Remarks

#### Site

- All Contractors have site cleaned up and job trailers gone.

#### Structure 60

- August Winters completed on 4-inch fire line.
- August Winters installed a back pressure valve on the ACS chemical line to the Disc Filters.
- Sargent installed the HVAC Duct Smoke Detector in the lower level Rm. B01 (Boiler Room).
- Omni is working on touching up painting in all areas for the project.
- Omni completed the touch up of the rapid mix/coagulation and flocculation basin tank coating.
- All contractors working on punch list items for project.
- Omni continues to work on touch up painting of the area.
- Kruger/Veolia completed the 7-day Disc Filter Functional Test.
- USGI completed chemical system start-ups.
- LW Allen working on SCADA system.

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### Site Work Photos

Working on finding the optimal spot for the Turbidimeter



Kruger/Veolia working on 7-day run test, coagulation tank mixer in action





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Pin Flocculation in Flocculation tank during Disc Filter Test Runs



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### Disc Filter 7-day run test data acquisition by Kruger/Veolia

Date	Time	HRT		Alum Sulfate (mg/L)	Polymer Dose		Mixer Speed			Backwash		Turbidity		OP-P		TP		
		Floc tank (min)	Coag Tank (min)		Type	(mg/L)	Rapid (%)	Coag (%)	Floc (%)	Static (sec)	Backwash (sec)	Influent FNU	Effluent FNU	Influent mg/L	Effluent mg/L	Influent mg/L	Effluent mg/L	
28-Apr-2024	10:00:00 AM			35	EM 1240	0.6	100	80	60	51	40	NA	NA	0.142	0.002UR	0.279	0.157	
28-Apr-2024	12:00:00 PM			45	EM 1240	0.6	100	80	60	41	47	NA	NA	0.142	0.002UR	0.231	0.102	Decreased alum to
28-Apr-2024	1:00:00 PM			20	EM 1240	0.6	100	80	60	49	41	NA	NA	0.142	0.002UR	0.233	0.151	Floc has improved
28-Apr-2024	2:00:00 PM			20	EM 1240	0.6	100	80	60	45	39	NA	NA	0.142	0.025UR	0.232	0.143	increased poly to 0.
28-Apr-2024	3:30:00 PM			20	EM 1240	0.7	100	80	60	2min 16sec	33	NA	NA	0.143	0.025UR	0.238	0.155	increased poly to 0.
28-Apr-2024	4:30:00 PM			20	EM 1240	0.8	100	80	60	1min 15sec	40	NA	NA	0.137	-0.004ND	0.252	0.100	Effluent dropped to
28-Apr-2024	5:00:00 PM																	Shut down chemical
30-Apr-2024	7:45:00 AM			30	EM1240	0.8	100	80	60	8min	35	NA	NA	0.161	-0.001ND	0.314	0.084	Started chemical do
30-Apr-2024	9:00:00 AM			30	EM1240	0.8	100	80	60	1min 20 sec	37	NA	NA	0.161	-0.001ND	0.314	0.084	Floc looks excellent
30-Apr-2024	10:00:00 AM			30	EM1240	0.8	100	80	60	42	46	NA	NA	0.161	-0.014ND	0.400	0.117	0.84 on Sam test ch
30-Apr-2024	11:00:00 AM			30	EM1240	0.8	100	80	60	39	46	NA	NA	0.164	-0.014ND	0.325	0.137	Influent TP increase
30-Apr-2024	12:00:00 PM			40	EM1240	0.8	100	80	60	34	52	NA	NA	0.164	-0.014ND	0.293	0.06	effluent is in spec.
30-Apr-2024	1:00:00 PM			40	EM1240	0.8	100	80	60	45	42	NA	NA	0.164	-0.014ND	0.396	0.089	The Hach NTU prob
30-Apr-2024	2:00:00 PM			40	EM1240	0.8	100	80	60	45	42	NA	NA	0.164	-0.014ND	0.288	0.073	the NTU is down to
30-Apr-2024	3:00:00 PM			45	EM1240	0.8	100	80	60	41	45	NA	NA	0.164	-0.014ND	0.296	0.069	
30-Apr-2024	4:00:00 PM			45	EM1240	0.8	100	80	60	58	45	NA	NA	0.164	-0.014ND	0.284	0.056	Last sample.
03-May-24	7:30:00 PM			45	EM1240	0.8	100	80	60	46	48	NA	NA	0.174	-0.002ND	0.457	0.106	Hach analyzer is not
03-May-24	9:00:00 AM			30	EM1240	0.6	100	80	60									Foaming even at 100

### Kruger/Veolia rep onsite for Disc Filter start-up and polymer optimization





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Sargent installed the HVAC Duct Smoke Detector in Rm B01 Boiler Room



August Winters installed the Disc Filter ACS back pressure valve





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Parting shot...

Forgot to include a solar eclipse shot through the clouds from the most recent one...



Also caught this guy walking across the asphalt out back of the plant...



Ok that was from my trip down in South Carolina, but looks like it could have been taken onsite.