

Detroit South Pre-Treatment Discharge Monitoring Data April-24

Summary

	# of Sample Parameters	# of Passing Parameters	Sample Pass Rate
Daily Exceedance	185	185	100%
Monthly Exceedance	132	132	100%

All required daily and monthly samples collected were below discharge limits before being discharged for further treatment at GLWA. PFAS samples were not collected in the month of April. Notification was made to GLWA on May 28. Operators were retrained on the sampling frequency requirements.

Discharge Monitoring Results

Parameter	Minimum Sampling Frequency	Daily Maximum mg/L	Monthly Average mg/L	Site Grab	Site Comp	Site Grab	Site Comp	Site Comp	Site Grab	Site Comp	Site Comp	Monthly Average mg/L
				04/02/24 mg/L	04/02/24 mg/L	04/09/24 mg/L	04/09/24 mg/L	04/16/24 mg/L	04/23/24 mg/L	04/23/24 mg/L	04/30/24 mg/L	
Metals												
Total Antimony	1/wk	0.249	0.206	<0.10		<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Total Arsenic	1/wk	0.162	0.104	<0.10		<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Total Cadmium	1/wk	0.474	0.0962	<0.05		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Total Chromium	1/wk	0.947	0.487	<0.10		<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Total Cobalt	1/wk	0.192	0.124	<0.10		<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Total Copper	1/wk	0.405	0.301	<0.10		0.111	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Total Lead	1/wk	0.222	0.172	<0.10		<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Total Mercury	1/wk	0.00234	0.000739	<0.0002		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Total Nickel	1/wk	3.95	1.45	<0.10		<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Total Silver	1/wk	0.12	0.0351	<0.03		<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
Total Tin	1/wk	0.409	0.12	<0.10		<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Total Titanium	1/wk	0.0947	0.0618	<0.05		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Total Vanadium	1/wk	0.218	0.0662	<0.05		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Total Zinc	1/wk	2.87	0.641	<0.10		<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Organics												
Bis(2-ethylhexyl)phthalate	1/wk	0.267	0.158	<0.050		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Carbazole	1/wk	0.392	0.233	<0.020		<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.020
o-Cresol	1/wk	1.92	0.561	<0.010		<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
p-Cresol	1/wk	0.698	0.205	<0.010		<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
n-Decane	1/wk	5.79	3.31	<0.010		<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Fluoranthene	1/wk	0.787	0.393	<0.010		<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
n-Octadecane	1/wk	1.22	0.925	<0.010		<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
2,4,6-Trichlorophenol	1/wk	0.155	0.106	<0.050		<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.050
PFAS												
Perfluorooctanesulfonic acid	2/mo	0.06 µg/L	---									
Other												
Cyanide (Amenable) (CNA)	2/mo	1.5	---	<1.0		<1.0						
Fats, Oil and Grease	2/mo	1500	---	<100		<100						
Total Suspended Solids	2/mo	10000	---			<100						
BOD	2/mo	10000	---			<60		<60		<60		
Phosphorus	2/mo	150	---			<5.0		<5.0				

Continuous pH

Discharge Date	Minimum Sampling Frequency	Daily Minimum pH (SU)	Daily Maximum pH (SU)	Minimum pH		Maximum pH	
				Time	pH (SU)	Time	pH (SU)
1-Apr-24	Continuous	<5	>11.5	0:07	6.89	18:18	9.79
2-Apr-24	Continuous	<5	>11.5	17:08	6.84	3:38	9.58
3-Apr-24	Continuous	<5	>11.5	18:39	6.96	7:58	8.57
4-Apr-24	Continuous	<5	>11.5	18:39	7.03	6:59	8.78
5-Apr-24	Continuous	<5	>11.5	17:09	6.35	16:39	9.83
8-Apr-24	Continuous	<5	>11.5	3:20	6.76	7:00	10.10
9-Apr-24	Continuous	<5	>11.5	18:20	6.63	9:00	10.33
10-Apr-24	Continuous	<5	>11.5	19:01	6.69	18:51	9.78
11-Apr-24	Continuous	<5	>11.5	16:41	5.76	4:31	7.10
12-Apr-24	Continuous	<5	>11.5	16:51	6.83	7:51	7.68
15-Apr-24	Continuous	<5	>11.5	19:02	6.69	8:52	8.66
16-Apr-24	Continuous	<5	>11.5	18:12	5.79	18:22	9.75
17-Apr-24	Continuous	<5	>11.5	17:43	6.62	16:53	9.81
18-Apr-24	Continuous	<5	>11.5	11:13	6.84	18:03	9.78
19-Apr-24	Continuous	<5	>11.5	10:23	6.72	16:43	7.56
22-Apr-24	Continuous	<5	>11.5	23:44	6.57	8:44	8.23
23-Apr-24	Continuous	<5	>11.5	3:14	6.20	16:55	9.47
24-Apr-24	Continuous	<5	>11.5	18:45	6.12	11:35	7.37
25-Apr-24	Continuous	<5	>11.5	6:55	6.35	18:35	9.79
26-Apr-24	Continuous	<5	>11.5	8:25	6.15	18:15	9.73
29-Apr-24	Continuous	<5	>11.5	11:46	6.28	11:36	7.37
30-Apr-24	Continuous	<5	>11.5	9:27	5.83	18:27	9.70