

Detroit South Pre-Treatment Discharge Monitoring Data January-24

Summary

	# of Sample Parameters	# of Passing Parameters	Sample Pass Rate
Daily Exceedance	320	318	99%
Monthly Exceedance	264	264	100%

All required daily and monthly samples were collected before being discharged for further treatment at GLWA. Continuous pH monitoring had a brief elevated pH on January 12 and a brief reduced pH on January 19. Notifications were made to GLWA on January 26. All other sample parameters passed daily and monthly limits.

Discharge Monitoring Results

Parameter	Minimum Sampling Frequency	Daily Maximum mg/L	Monthly Average mg/L	Site Comp	Site Grab	Site Comp	Site Grab	Site Comp	Site Comp	Site Grab	Site Comp	Site Comp	Site Grab	Site Comp	Site Comp	Site Comp	Site Comp	Site Comp	Monthly Average
				01/04/24 mg/L	01/09/24 mg/L	01/09/24 mg/L	01/10/24 mg/L	01/10/24 mg/L	01/11/24 mg/L	01/17/24 mg/L	01/18/24 mg/L	01/22/24 mg/L	01/23/24 mg/L	01/24/24 mg/L	01/25/24 mg/L	01/30/24 mg/L	01/31/24 mg/L	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	<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	<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	<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	<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	<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	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<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	<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	<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	<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	0.052	<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	<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	<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	<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	<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	<0.010	<0.010	<0.010	0.025	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.011	<0.010
Carbazole	1/wk	0.392	0.233	<0.010	<0.010	<0.010	0.012	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
o-Cresol	1/wk	1.92	0.561	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<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	<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	<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	<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	<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	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
PFAS																			
Perfluorooctanesulfonic acid	2/mo	0.06 µg/L	---	<0.06				<0.06											
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				<100											
BOD	2/mo	10000	---	<60				<60											
Phosphorus	2/mo	150	---	11.9				<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)
2-Jan-24	Continuous	<5	>11.5	7:01	6.51	12:31	10.56
3-Jan-24	Continuous	<5	>11.5	5:51	5.61	6:31	11.15
4-Jan-24	Continuous	<5	>11.5	20:22	7.39	12:42	10.18
5-Jan-24	Continuous	<5	>11.5	20:12	7.26	7:02	11.11
8-Jan-24	Continuous	<5	>11.5	12:23	7.26	18:33	11.40
9-Jan-24	Continuous	<5	>11.5	20:13	7.33	6:33	11.16
10-Jan-24	Continuous	<5	>11.5	0:43	7.14	10:54	10.27
11-Jan-24	Continuous	<5	>11.5	22:55	7.07	11:24	10.82
12-Jan-24	Continuous	<5	>11.5	18:45	6.82	6:45	12.70
15-Jan-24	Continuous	<5	>11.5	20:46	7.02	15:36	11.30
16-Jan-24	Continuous	<5	>11.5	13:16	6.37	11:26	11.16
17-Jan-24	Continuous	<5	>11.5	19:47	7.46	19:37	9.63
18-Jan-24	Continuous	<5	>11.5	18:57	5.30	18:27	9.58
19-Jan-24	Continuous	<5	>11.5	11:27	4.48	18:07	8.64
22-Jan-24	Continuous	<5	>11.5	20:28	7.34	19:58	11.07
23-Jan-24	Continuous	<5	>11.5	14:08	7.28	19:39	11.18
24-Jan-24	Continuous	<5	>11.5	20:39	6.93	17:29	10.79
25-Jan-24	Continuous	<5	>11.5	12:09	7.19	18:09	11.23
26-Jan-24	Continuous	<5	>11.5	3:49	7.22	18:20	9.62
29-Jan-24	Continuous	<5	>11.5	11:42	6.66	13:32	11.04
30-Jan-24	Continuous	<5	>11.5	10:10	6.70	17:50	10.20
31-Jan-24	Continuous	<5	>11.5	18:00	5.46	10:40	11.02