

Wastewater Discharge Monitoring Long Report

For DNR Use Only

Facility Name: HEART OF THE VALLEY METRO SEWERAGE DISTRICT
 Contact Address: 801 Thilmany Rd
 Kaukauna, WI 54130
 Facility Contact: Brian Helming, District Director
 Phone Number: 920-766-5731
 Reporting Period: 11/01/2020 - 11/30/2020
 Form Due Date: 12/21/2020
 Permit Number: 0031232

Date Received:
 DOC: 456013
 FIN: 6375
 FID: 445005220
 Region: Northeast Region
 Permit Drafter: Lisa L Lumley
 Reviewer: Barti Oumarou
 Office: Oshkosh

	Sample Point	001	701	701	701	701
	Description	Effluent	Influent	Influent	Influent	Influent
	Parameter	211	211	66	457	87
	Description	Flow Rate	Flow Rate	BOD5, Total	Suspended Solids, Total	Cadmium, Total Recoverable
	Units	MGD	MGD	mg/L	mg/L	ug/L
	Sample Type	CONTINUOUS	CONTINUOUS	24 HR FLOW PROP	24 HR FLOW PROP	24 HR FLOW PROP
	Frequency	DAILY	DAILY	5/WEEK	5/WEEK	MONTHLY
Sample Results	Day 1	1.981	5.044	241	188	
	2	1.835	5.070	271	240	
	3	2.138	4.921	237	248	<1.3
	4	2.498	4.847	303	252	
	5	1.290	4.722	332	232	
	6	1.463	4.555	290	212	
	7	1.607	4.475	253	196	
	8	4.018	4.793	270	264	
	9	0.964	4.696	401	244	
	10	4.685	8.353	201	260	
	11	4.166	7.446	175	192	
	12	3.574	6.619	239	228	
	13	3.142	5.889	151	88	
	14	3.761	6.222	143	56	
	15	5.933	7.766	141	136	
	16	3.555	6.746	195	164	
	17	3.652	6.146	221	192	
	18	3.494	6.051	224	212	
	19	2.682	5.834	269	208	
	20	1.979	5.298	215	164	
	21	2.227	4.956	192	144	
	22	2.378	5.103	251	208	
	23	2.180	5.137	233	204	
	24	2.857	5.851	316	212	
	25	3.167	5.925	253	168	
	26	2.562	5.244	267	200	
	27	2.532	5.007	217	140	
	28	2.337	4.959	220	156	
	29	2.311	5.114	212	176	
	30	1.906	4.769	260	208	
	31					

	Sample Point	001	701	701	701	701
	Description	Effluent	Influent	Influent	Influent	Influent
	Parameter	211	211	66	457	87
	Description	Flow Rate	Flow Rate	BOD5, Total	Suspended Solids, Total	Cadmium, Total Recoverable
	Units	MGD	MGD	mg/L	mg/L	ug/L
Summary Values	Monthly Avg	2.762466667	5.585266667	239.766666667	193.066666667	0
	Daily Max	5.933	8.353	401	264	<1.3
	Daily Min	0.964	4.475	141	56	<1.3
	Week 1 Avg					
	Week 2 Avg					
	Week 3 Avg					
	Week 4 Avg					
Limit(s) in Effect	Monthly Avg					
	Daily Max					
	Daily Min					
	Weekly Avg					
QA/QC Information	LOD					1.3
	LOQ					5
	QC Exceedance	N	N	N	N	N
	Lab Certification			445005220	445005220	405132750

	Sample Point	001	701	701	701	701
	Description	Effluent	Influent	Influent	Influent	Influent
	Parameter	66	133	147	264	315
	Description	BOD5, Total	Chromium, Total Recoverable	Copper, Total Recoverable	Lead, Total Recoverable	Nickel, Total Recoverable
	Units	mg/L	ug/L	ug/L	ug/L	ug/L
	Sample Type	24 HR FLOW PROP	24 HR FLOW PROP	24 HR FLOW PROP	24 HR FLOW PROP	24 HR FLOW PROP
	Frequency	5/WEEK	MONTHLY	MONTHLY	MONTHLY	MONTHLY
Sample Results	Day 1	13				
	2	12				
	3	12	12.2	89.6	<5.9	6.4
	4	22				
	5	22				
	6	18				
	7	12				
	8	17				
	9	23				
	10	19				
	11	21				
	12	12				
	13	11				
	14	11				
	15	15				
	16	17				
	17	11				
	18	14				
	19	14				
	20	10				
	21	9				
	22	14				
	23	12				
	24	10				
	25	13				
	26	12				
	27	12				
	28	11				
	29	10				
	30	10				
	31					

	Sample Point	001		701		701		701		701	
	Description	Effluent		Influent		Influent		Influent		Influent	
	Parameter	66		133		147		264		315	
	Description	BOD5, Total		Chromium, Total Recoverable		Copper, Total Recoverable		Lead, Total Recoverable		Nickel, Total Recoverable	
	Units	mg/L		ug/L		ug/L		ug/L		ug/L	
Summary Values	Monthly Avg	13.966666667		12.2		89.6		0		6.4	
	Daily Max	23		12.2		89.6		<5.9		6.4	
	Daily Min	9		12.2		89.6		<5.9		6.4	
	Week 1 Avg	15.857142857									
	Week 2 Avg	16.285714286									
	Week 3 Avg	12.857142857									
	Week 4 Avg	12									
Limit(s) in Effect	Monthly Avg	30	0								
	Daily Max										
	Daily Min										
	Weekly Avg	45	0								
QA/QC Information	LOD			2.5		3.4		5.9		2.6	
	LOQ			10		10		20		10	
	QC Exceedance	N		N		N		N		N	
	Lab Certification	445005220		405132750		405132750		405132750		405132750	

	Sample Point	701	001	001	001	001
	Description	Influent	Effluent	Effluent	Effluent	Effluent
	Parameter	553	377	457	457	1348
	Description	Zinc, Total Recoverable	pH Field	Suspended Solids, Total	Suspended Solids, Total	WQT Credits Used (TSS)
	Units	ug/L	su	mg/L	lbs/day	lbs/month
	Sample Type	24 HR FLOW PROP	GRAB	24 HR FLOW PROP	CALCULATED	CALCULATED
	Frequency	MONTHLY	5/WEEK	5/WEEK	5/WEEK	MONTHLY
Sample Results	Day 1		7.5	19.2	317	0
	2		7.4	24.4	373	0
	3	158	7.3	22.0	392	0
	4		7.4	24.4	508	0
	5		7.4	24.4	263	0
	6		7.4	25.2	307	0
	7		8.0	20.4	273	0
	8		8.1	26.0	871	0
	9		7.3	26.4	212	0
	10		7.3	24.0	938	0
	11		7.1	16.0	556	0
	12		7.2	17.6	525	0
	13		7.3	14.4	377	0
	14		7.1	14.4	452	0
	15		7.1	13.6	673	0
	16		7.6	15.2	451	0
	17		7.2	14.0	426	0
	18		7.2	13.6	396	0
	19		7.2	17.2	385	0
	20		7.2	15.2	251	0
	21		7.9	15.2	282	0
	22		7.9	17.6	349	0
	23		7.3	13.2	240	0
	24		7.2	16.4	391	0
	25		7.4	14.8	391	0
	26		8.0	15.2	325	0
	27		8.1	12.4	262	0
	28		8.0	12.8	249	0
	29		8.1	16.4	316	0
	30		7.9	18.0	286	0
	31					

	Sample Point	701	001	001	001	001
	Description	Influent	Effluent	Effluent	Effluent	Effluent
	Parameter	553	377	457	457	1348
	Description	Zinc, Total Recoverable	pH Field	Suspended Solids, Total	Suspended Solids, Total	WQT Credits Used (TSS)
	Units	ug/L	su	mg/L	lbs/day	lbs/month
Summary Values	Monthly Avg	158	7.503333333	17.986666667	401.233333333	0
	Daily Max	158	8.1	26.4	938	0
	Daily Min	158	7.1	12.4	212	0
	Week 1 Avg			22.857142857		
	Week 2 Avg			19.828571429		
	Week 3 Avg			14.857142857		
	Week 4 Avg			14.628571429		
Limit(s) in Effect	Monthly Avg			30	0	
	Daily Max		9	0		
	Daily Min		6	0		
	Weekly Avg			45	0	
QA/QC Information	LOD	11.6				
	LOQ	40				
	QC Exceedance	N	N	N	N	N
	Lab Certification	405132750		445005220		

	Sample Point	001	001	001	001	001
	Description	Effluent	Effluent	Effluent	Effluent	Effluent
	Parameter	1347	388	388	789	87
	Description	WQT Computed Compliance (TSS)	Phosphorus, Total	Phosphorus, Total	Nitrogen, Ammonia (NH3-N) Total	Cadmium, Total Recoverable
	Units	lbs/day	mg/L	lbs/day	mg/L	ug/L
	Sample Type	CALCULATED	24 HR FLOW PROP	CALCULATED	24 HR FLOW PROP	24 HR FLOW PROP
	Frequency	5/WEEK	5/WEEK	5/WEEK	5/WEEK	MONTHLY
Sample Results	Day 1	317	0.39	6.44	0.9	
	2	373	0.50	7.65	0.5	
	3	392	0.40	7.13	0.8	<1.3
	4	508	0.51	10.62	2.3	
	5	263	0.59	6.35	2.7	
	6	307	0.62	7.56		
	7	273	0.52	6.97		
	8	871	0.57	19.10	1.0	
	9	212	0.55	4.42	1.4	
	10	938	0.47	18.36	4.9	
	11	556	0.34	11.81	1.3	
	12	525	0.35	10.43	0.5	
	13	377	0.29	7.60		
	14	452	0.35	10.98		
	15	673	0.31	15.34	1.3	
	16	451	0.31	9.19	0.7	
	17	426	0.29	8.83	1.4	
	18	396	0.30	8.74	1.3	
	19	385	0.32	7.16	1.5	
	20	251	0.32	5.28		
	21	282	0.23	4.27		
	22	349	0.33	6.54	1.0	
	23	240	0.40	7.27	1.4	
	24	391	0.38	9.05	1.3	
	25	391	0.18	4.75	0.8	
	26	325	0.33	7.05	0.7	
	27	262	0.33	6.97		
	28	249	0.35	6.82		
	29	316	0.50	9.64	0.7	
	30	286	0.44	6.99	0.7	
	31					

	Sample Point	001		001		001		001		001	
	Description	Effluent		Effluent		Effluent		Effluent		Effluent	
	Parameter	1347		388		388		789		87	
	Description	WQT Computed Compliance (TSS)		Phosphorus, Total		Phosphorus, Total		Nitrogen, Ammonia (NH3-N) Total		Cadmium, Total Recoverable	
	Units	lbs/day		mg/L		lbs/day		mg/L		ug/L	
Summary Values	Monthly Avg	401.233333333		0.392333333		8.643666667		1.322727273		0	
	Daily Max	938		0.62		19.1		4.9		<1.3	
	Daily Min	212		0.18		4.27		0.5		<1.3	
	Week 1 Avg	347.571428571						1.44			
	Week 2 Avg	561.571428571						1.82			
	Week 3 Avg	409.142857143						1.24			
	Week 4 Avg	315.285714286						1.04			
Limit(s) in Effect	Monthly Avg	801	0	1	0			18	0		
	Daily Max							17	0		
	Daily Min										
	Weekly Avg	1345	0					17	0		
QA/QC Information	LOD			0.026				0.034		1.3	
	LOQ			0.087				0.113		5	
	QC Exceedance	N		N		N		N		N	
	Lab Certification			445005220				445005220		405132750	

	Sample Point	001	001	001	001	001
	Description	Effluent	Effluent	Effluent	Effluent	Effluent
	Parameter	133	147	264	315	553
	Description	Chromium, Total Recoverable	Copper, Total Recoverable	Lead, Total Recoverable	Nickel, Total Recoverable	Zinc, Total Recoverable
	Units	ug/L	ug/L	ug/L	ug/L	ug/L
	Sample Type	24 HR FLOW PROP	24 HR FLOW PROP	24 HR FLOW PROP	24 HR FLOW PROP	24 HR FLOW PROP
	Frequency	MONTHLY	MONTHLY	MONTHLY	MONTHLY	MONTHLY
Sample Results	Day 1					
	2					
	3	3.2	9.6	<5.9	5.6	18.9
	4					
	5					
	6					
	7					
	8					
	9					
	10					
	11					
	12					
	13					
	14					
	15					
	16					
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	30					
	31					

	Sample Point	001	001	001	001	001
	Description	Effluent	Effluent	Effluent	Effluent	Effluent
	Parameter	133	147	264	315	553
	Description	Chromium, Total Recoverable	Copper, Total Recoverable	Lead, Total Recoverable	Nickel, Total Recoverable	Zinc, Total Recoverable
	Units	ug/L	ug/L	ug/L	ug/L	ug/L
Summary Values	Monthly Avg	3.2	9.6	0	5.6	18.9
	Daily Max	3.2	9.6	<5.9	5.6	18.9
	Daily Min	3.2	9.6	<5.9	5.6	18.9
	Week 1 Avg					
	Week 2 Avg					
	Week 3 Avg					
	Week 4 Avg					
Limit(s) in Effect	Monthly Avg					
	Daily Max					
	Daily Min					
	Weekly Avg					
QA/QC Information	LOD	2.5	3.4	5.9	2.6	11.6
	LOQ	10	10	20	10	40
	QC Exceedance	N	N	N	N	N
	Lab Certification	405132750	405132750	405132750	405132750	405132750

	Sample Point	101	112
	Description	Effluent Reuse	In-Plant Diversion
	Parameter	671	211
	Description	Flow Unregulated	Flow Rate
	Units	MGD	MGD
	Sample Type	CONTINUOUS	CONTINUOUS
	Frequency	DAILY	DAILY
Sample Results	Day 1	3.063	0
	2	3.235	0
	3	2.783	0
	4	2.349	0
	5	3.432	0
	6	3.092	0
	7	2.868	0
	8	0.775	0
	9	3.732	0
	10	3.668	0
	11	3.280	0
	12	3.045	0
	13	2.747	0
	14	2.461	0
	15	1.833	0
	16	3.191	0
	17	2.494	0
	18	2.557	0
	19	3.152	0
	20	3.319	0
	21	2.729	0
	22	2.725	0
	23	2.957	0
	24	2.994	0
	25	2.758	0
	26	2.682	0
	27	2.475	0
	28	2.622	0
	29	2.803	0
	30	2.863	0
	31		

	Sample Point	101	112
	Description	Effluent Reuse	In-Plant Diversion
	Parameter	671	211
	Description	Flow Unregulated	Flow Rate
	Units	MGD	MGD
Summary Values	Monthly Avg	2.8228	0
	Daily Max	3.732	0
	Daily Min	0.775	0
	Week 1 Avg		
	Week 2 Avg		
	Week 3 Avg		
	Week 4 Avg		
Limit(s) in Effect	Monthly Avg		
	Daily Max		
	Daily Min		
	Weekly Avg		
QA/QC Information	LOD		
	LOQ		
	QC Exceedance	N	N
	Lab Certification		

Footnotes (DNR Use Only; Instructions for completing this form that are unique for your facility may be displayed here.)

General Remarks

I certify that management practices identified in the approved water quality trading plan as the source of pollutant reduction credits are installed, established and properly maintained.

Laboratory Quality Control Comments

11/7/2020 BOD Blank of 0.57 mg/L (Exceeds 0.24 mg/L)

Submitted by K3vin1 on 12/11/2020 7:47:40 AM