

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: 10/01/2018 - 10/31/2018
 Form Due Date: 11/21/2018
 Permit Number: 0031232

Date Received:
 DOC: 412904
 FIN: 6375
 FID: 445005220
 Region: Northeast Region
 Permit Drafter: Richard P Sachs
 Reviewer: Roy Van Gheem
 Office: Green Bay

	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	4.741	7.019	620	284	
	2	4.615	7.155	136	84	<1.3
	3	4.219	6.971	200	181	
	4	3.622	6.508	214	176	
	5	3.397	6.283	165	156	
	6	3.798	6.175	248	172	
	7	4.873	6.996	237	208	
	8	11.555	14.260	195	136	
	9	13.524	16.914	107	96	
	10	14.901	18.291	103	80	
	11	10.818	12.667	151	72	
	12	6.923	9.500	224	112	
	13	5.547	8.300	229	80	
	14	5.273	8.159	221	152	
	15	4.955	7.836	221	156	
	16	3.885	6.777	132	144	
	17	3.818	6.700	237	304	
	18	3.324	6.211	148	160	
	19	4.563	6.293	280	160	
	20	5.587	6.003	151	168	
	21	5.954	5.954	315	216	
	22	5.669	5.669	210	224	
	23	5.381	5.381	177	168	
	24	5.506	5.506	347	228	
	25	5.140	5.140	199	176	
	26	5.176	5.176	159	100	
	27	4.934	4.934	350	200	
	28	6.207	6.207	209	188	
	29	5.716	5.716	356	280	
	30	5.415	5.415	187	160	
	31	5.157	5.157	236	232	

	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	5.941709677	7.589451613	224.64516129	169.451612903	0
	Daily Max	14.901	18.291	620	304	<1.3
	Daily Max - Variable					
	Daily Min	3.324	4.934	103	72	<1.3
	Week 1 Avg					
	Week 2 Avg					
	Week 3 Avg					
	Week 4 Avg					
Limit(s) in Effect	Monthly Avg					
	Daily Max					
	Daily Max - Variable					
	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	701	701	701	701	701
	Description	Influent	Influent	Influent	Influent	Influent
	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	18.7	40.9	<5.9	11.5	87.8
	3					
	4					
	5					
	6					
	7					
	8					
	9					
	10					
	11					
	12					
	13					
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	29					
	30					
	31					

	Sample Point	701	701	701	701	701
	Description	Influent	Influent	Influent	Influent	Influent
	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	18.7	40.9	0	11.5	87.8
	Daily Max	18.7	40.9	<5.9	11.5	87.8
	Daily Max - Variable					
	Daily Min	18.7	40.9	<5.9	11.5	87.8
	Week 1 Avg					
	Week 2 Avg					
	Week 3 Avg					
	Week 4 Avg					
Limit(s) in Effect	Monthly Avg					
	Daily Max					
	Daily Max - Variable					
	Daily Min					
	Weekly Avg					
QA/QC Information	LOD	2.5	6.3	5.9	2.6	11.6
	LOQ	10	20	19.7	10	40
	QC Exceedance	N	N	N	N	N
	Lab Certification	405132750	405132750	405132750	405132750	405132750

	Sample Point	001	001	001	001	001
	Description	Effluent	Effluent	Effluent	Effluent	Effluent
	Parameter	649	457	377	388	789
	Description	CBOD5	Suspended Solids, Total	pH Field	Phosphorus, Total	Nitrogen, Ammonia (NH3-N) Total
	Units	mg/L	mg/L	su	mg/L	mg/L
	Sample Type	24 HR FLOW PROP	24 HR FLOW PROP	GRAB	24 HR FLOW PROP	24 HR FLOW PROP
	Frequency	DAILY	5/WEEK	5/WEEK	5/WEEK	5/WEEK
Sample Results	Day 1	5	14	7.6	0.28	0.3
	2	4	14	7.6	0.23	0.1
	3	5	19	7.6	0.24	0.2
	4	5	15	7.5	0.25	0.6
	5	4	15	7.2	0.17	
	6	4	17	7.2	0.22	
	7	5	14	7.4	0.26	0.3
	8	5	16	7.8	0.19	0.3
	9	4	18	7.7	0.25	0.8
	10	4.371	18.598	7.6	0.252	0.832
	11	6	39	7.7	0.68	1.6
	12	6	39	7.5	0.62	
	13	6	29	7.6	0.48	
	14	8	27	7.6	0.30	0.1
	15	7	30	7.5	0.32	0.5
	16	5	24	7.4	0.34	0.2
	17	6	18	7.6	0.25	2.5
	18	5	23	7.5	0.26	0.7
	19	6	16	7.3	0.24	
	20	5	14	7.8	0.21	
	21	6	18	7.5	0.22	1.1
	22	6	17	7.6	0.22	0.2
	23	4	11	7.8	0.23	0.4
	24	5	13	7.2	0.16	1.9
	25	5	14	7.6	0.20	0.5
	26	3	12	7.3	0.23	
	27	4	11	7.2	0.19	
	28	5	10	7.4	0.16	0.4
	29	6	14	7.7	0.22	1.3
	30	4	10	7.4	0.17	0.6
	31	5	13	7.9	0.15	0.4

	Sample Point	001		001		001		001		001	
	Description	Effluent		Effluent		Effluent		Effluent		Effluent	
	Parameter	649		457		377		388		789	
	Description	CBOD5		Suspended Solids, Total		pH Field		Phosphorus, Total		Nitrogen, Ammonia (NH3-N) Total	
	Units	mg/L		mg/L		su		mg/L		mg/L	
Summary Values	Monthly Avg	5.108741935		18.148322581		7.525806452		0.264258065		0.688347826	
	Daily Max	8		39		7.9		0.68		2.5	
	Daily Max - Variable										
	Daily Min	3		10		7.2		0.15		0.1	
	Week 1 Avg	4.571428571		15.428571429							
	Week 2 Avg	5.624428571		26.656857143							
	Week 3 Avg	5.714285714		20.428571429							
	Week 4 Avg	4.571428571		12.571428571							
Limit(s) in Effect	Monthly Avg	25	0	30	0			1	0	18	0
	Daily Max					9	0			17	0
	Daily Max - Variable										
	Daily Min					6	0				
	Weekly Avg	40	0	45	0						
QA/QC Information	LOD							0.026		0.034	
	LOQ							0.087		0.113	
	QC Exceedance	N		N		N		N		N	
	Lab Certification	445005220		445005220				445005220		445005220	

	Sample Point	001	001	001	001	001
	Description	Effluent	Effluent	Effluent	Effluent	Effluent
	Parameter	87	133	147	264	315
	Description	Cadmium, Total Recoverable	Chromium, Total Recoverable	Copper, Total Recoverable	Lead, Total Recoverable	Nickel, 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	<1.3	2.7	<6.3	<5.9	6.8
	3					
	4					
	5					
	6					
	7					
	8					
	9					
	10					
	11					
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	29					
	30					
	31					

	Sample Point	001	001	001	001	001
	Description	Effluent	Effluent	Effluent	Effluent	Effluent
	Parameter	87	133	147	264	315
	Description	Cadmium, Total Recoverable	Chromium, Total Recoverable	Copper, Total Recoverable	Lead, Total Recoverable	Nickel, Total Recoverable
	Units	ug/L	ug/L	ug/L	ug/L	ug/L
Summary Values	Monthly Avg	0	2.7	0	0	6.8
	Daily Max	<1.3	2.7	<6.3	<5.9	6.8
	Daily Max - Variable					
	Daily Min	<1.3	2.7	<6.3	<5.9	6.8
	Week 1 Avg					
	Week 2 Avg					
	Week 3 Avg					
	Week 4 Avg					
Limit(s) in Effect	Monthly Avg					
	Daily Max					
	Daily Max - Variable					
	Daily Min					
	Weekly Avg					
QA/QC Information	LOD	1.3	2.5	6.3	5.9	2.6
	LOQ	5	10	20	19.7	10
	QC Exceedance	N	N	N	N	N
	Lab Certification	405132750	405132750	405132750	405132750	405132750

	Sample Point	001	101	601	601	601
	Description	Effluent	Effluent Reuse	River Monitoring	River Monitoring	River Monitoring
	Parameter	553	671	400	399	401
	Description	Zinc, Total Recoverable	Flow Unregulated	WLA Previous Day River Flow	WLA Previous 4 Day Avg River Flow	WLA Previous Day River Temp
	Units	ug/L	MGD	cfs	cfs	degF
	Sample Type	24 HR FLOW PROP	CONTINUOUS	GAUGE STN	CALCULATED	CALCULATED
	Frequency	MONTHLY	DAILY	DAILY	DAILY	DAILY
Sample Results	Day 1		2.278	8810	9580	59
	2	19.9	2.540	8670	9300	58
	3		2.752	9570	9080	58
	4		2.886	10200	9113	60
	5		2.886	10400	9313	60
	6		2.377	10300	9710	58
	7		2.123	10300	10118	57
	8		2.705	10700	10300	57
	9		3.390	11100	10425	57
	10		2.809	11400	10600	59
	11		1.849	11300	10875	59
	12		2.577	11100	11125	57
	13		2.753	11200	11225	54
	14		2.886	11100	11250	52
	15		2.881	10900	11175	52
	16		2.892	11200	11075	51
	17		2.882	11000	11100	49
	18		2.887	11100	11050	49
	19		1.730	11200	11050	49
	20		0.416	10800	11125	48
	21		0	10900	11025	46
	22		0	11000	11000	46
	23		0	10900	10975	47
	24		0	10900	10900	47
	25		0	10500	10925	47
	26		0	9980	10825	47
	27		0	9950	10570	47
	28		0	9990	10330	47
	29		0	10500	10105	47
	30		0	11000	10150	46
	31		0	10800	10360	47

	Sample Point	001	101	601	601	601
	Description	Effluent	Effluent Reuse	River Monitoring	River Monitoring	River Monitoring
	Parameter	553	671	400	399	401
	Description	Zinc, Total Recoverable	Flow Unregulated	WLA Previous Day River Flow	WLA Previous 4 Day Avg River Flow	WLA Previous Day River Temp
	Units	ug/L	MGD	cfs	cfs	degF
Summary Values	Monthly Avg	19.9	1.629	10605.483870968	10508.193548387	52.161290323
	Daily Max	19.9	3.39	11400	11250	60
	Daily Max - Variable					
	Daily Min	19.9	0	8670	9080	46
	Week 1 Avg					
	Week 2 Avg					
	Week 3 Avg					
	Week 4 Avg					
Limit(s) in Effect	Monthly Avg					
	Daily Max					
	Daily Max - Variable					
	Daily Min					
	Weekly Avg					
QA/QC Information	LOD	11.6				
	LOQ	40				
	QC Exceedance	N	N	N	N	N
	Lab Certification	405132750				

	Sample Point	006	006	006	006	006
	Description	WLA CBOD5 Discharge Compliance	WLA CBOD5 Discharge Compliance	WLA CBOD5 Discharge Compliance	WLA CBOD5 Discharge Compliance	WLA CBOD5 Discharge Compliance
	Parameter	545	12	889	543	542
	Description	WLA CBOD5 Value	WLA Adjusted Value	WLA CBOD5 Discharged	WLA 7 Day Sum Of WLA Values	WLA 7 Day Sum Of CBOD5 Discharged
	Units	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day
	Sample Type	SEE TABLE	CALCULATED	CALCULATED	CALCULATED	CALCULATED
	Frequency	DAILY	DAILY	DAILY	DAILY	DAILY
Sample Results	Day 1	5568	7684	206	38976	946
	2	5568	7684	171	38976	982
	3	5568	7684	181	38976	1028
	4	5568	7684	148	38976	1069
	5	5568	7684	121	38976	1095
	6	5568	7684	142	38976	1123
	7	5568	7684	200	38976	1169
	8	5568	7684	505	38976	1468
	9	5568	7684	478	38976	1775
	10	5568	7684	568	38976	2162
	11	5568	7684	534	38976	2548
	12	5568	7684	331	38976	2758
	13	5568	7684	296	38976	2912
	14	5568	7684	338	38976	3050
	15	5568	7684	272	38976	2817
	16	5568	7684	173	38976	2512
	17	5568	7684	203	38976	2147
	18	5568	7684	137	38976	1750
	19	5568	7684	217	38976	1636
	20	5568	7684	212	38976	1552
	21	5568	7684	298	38976	1512
	22	5568	7684	290	38976	1530
	23	5568	7684	180	38976	1537
	24	5568	7684	227	38976	1561
	25	5568	7684	195	38976	1619
	26	5568	7684	149	38976	1551
	27	5568	7684	168	38976	1507
	28	5568	7684	243	38976	1452
	29	5568	7684	265	38976	1427
	30	5568	7684	195	38976	1442
	31	5568	7684	215	38976	1430

	Sample Point	006	006	006	006	006
	Description	WLA CBOD5 Discharge Compliance	WLA CBOD5 Discharge Compliance	WLA CBOD5 Discharge Compliance	WLA CBOD5 Discharge Compliance	WLA CBOD5 Discharge Compliance
	Parameter	545	12	889	543	542
	Description	WLA CBOD5 Value	WLA Adjusted Value	WLA CBOD5 Discharged	WLA 7 Day Sum Of WLA Values	WLA 7 Day Sum Of CBOD5 Discharged
	Units	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day
Summary Values	Monthly Avg	5568	7684	253.483870968	38976	1711.838709677
	Daily Max	5568	7684	568	38976	3050
	Daily Max - Variable			568		3050
	Daily Min	5568	7684	121	38976	946
	Week 1 Avg					
	Week 2 Avg					
	Week 3 Avg					
	Week 4 Avg					
Limit(s) in Effect	Monthly Avg					
	Daily Max					
	Daily Max - Variable			0	0	0
	Daily Min					
	Weekly Avg					
QA/QC Information	LOD					
	LOQ					
	QC Exceedance	N	N	N	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

Laboratory Quality Control Comments

Submitted by K3vin1 on 11/07/2018 7:28:08 AM