

Wastewater Discharge Monitoring Long Report

For DNR Use Only

Facility Name: HEART OF VALLEY MSD WW TRTMNT FAC
 Contact Address: 801 Thilmany Road
 Kaukauna, WI 54130
 Facility Contact: Glen Geurts, District Director
 Phone Number: (920) 766-5731
 Reporting Period: 12/01/2015 - 12/31/2015
 Form Due Date: 01/21/2016
 Permit Number: 0031232

Date Received:
 DOC: 352184
 FIN: 6375
 FID: 445005220
 Region: Northeast Region
 Permit Drafter: Richard P Sachs
 Reviewer: Mark K. Corbett
 Office: Oshkosh

	Sample Point	701	001	701	701	701
	Description	Influent	Effluent	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	8.008	5.275	133	128	<1.0
	2	6.853	4.118	122	140	
	3	6.284	3.544	185	184	
	4	6.020	2.579	171	160	
	5	5.772	2.457	177	152	
	6	5.883	3.194	147	220	
	7	5.313	2.728	166	196	
	8	5.222	2.672	190	176	
	9	5.268	2.822	187	192	
	10	5.284	2.846		212	
	11	5.040	2.829	183	196	
	12	5.039	4.385	234	188	
	13	15.603	14.529	159	176	
	14	30.390	28.513	43	64	
	15	13.230	11.374	87	76	
	16	11.020	8.843	150	140	
	17	8.619	5.916	148	72	
	18	7.831	5.106	159	132	
	19	7.100	4.360	141	200	
	20	7.200	4.490	149	132	
	21	6.788	3.989	159	172	
	22	6.583	3.429	162	144	
	23	7.927	4.782	207	180	
	24	7.265	4.704	152	128	
	25	6.304	3.751	149	152	
	26	6.733	4.182	167	136	
	27	6.430	3.876	175	132	
	28	6.101	3.547	183	132	
	29	5.737	3.565	169	140	
	30	5.646	3.094	193	152	
	31	5.360	2.812	229	140	

	Sample Point	701	001	701	701	701
	Description	Influent	Effluent	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	7.801709677	5.300354839	162.533333333	153.032258065	0
	Daily Max	30.39	28.513	234	220	<1
	Daily Min	5.039	2.457	43	64	<1
	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
	LOQ					5
	QC Exceedance	N	N	Y	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	5.9	50.4	<1.6	3.8	78
	2					
	3					
	4					
	5					
	6					
	7					
	8					
	9					
	10					
	11					
	12					
	13					
	14					
	15					
	16					
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	20					
	21					
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	23					
	24					
	25					
	26					
	27					
	28					
	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	5.9	50.4	0	3.8	78
	Daily Max	5.9	50.4	<1.6	3.8	78
	Daily Min	5.9	50.4	<1.6	3.8	78
	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	1.5	3.4	1.6	1.3	5.8
	LOQ	5	10	7.5	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	5/WEEK	5/WEEK	5/WEEK	5/WEEK	5/WEEK
Sample Results	Day 1	4	9	7.6	0.28	1.1
	2	6	8	7.8	0.22	0.8
	3	3	11	7.7	0.28	1.8
	4	7	10	7.7	0.25	
	5	5	13	7.3	0.30	
	6	4	11	7.4	0.24	0.9
	7	10	10	7.8	0.31	0.9
	8	5	16	7.6	0.36	1.3
	9	4	13	7.9	0.45	0.7
	10	8	15	7.9	0.40	0.8
	11	6	15	7.9	0.32	
	12	4	12	7.6	0.41	
	13	6	18	7.3	0.37	1.2
	14	9	34	7.6	0.52	0.3
	15	10	16	7.3	0.30	0.2
	16	9	17	8.0	0.29	0.2
	17	7	16	7.6	0.29	0.3
	18	6	14	7.3	0.27	
	19	6	21		0.29	
	20	5	12	7.9	0.24	0.7
	21	5	11	7.8	0.26	0.5
	22	5	13	7.5	0.35	0.6
	23	6	14	7.9	0.25	0.7
	24	6	15	7.6	0.23	
	25	4	10	7.3	0.34	0.5
	26	5	13	7.5	0.24	
	27	5	9	7.7	0.23	0.2
	28	6	10	7.6	0.22	0.4
	29	4	9	7.6	0.14	0.2
	30	5	13	7.7	0.26	0.2
	31	4	8	7.7	0.28	

	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	5.774193548		13.419354839		7.636666667		0.296451613		0.659090909	
	Daily Max	10		34		8		0.52		1.8	
	Daily Min	3		8		7.3		0.14		0.2	
	Week 1 Avg	5.571428571		10.285714286							
	Week 2 Avg	6		17.571428571							
	Week 3 Avg	6.857142857		15.285714286							
	Week 4 Avg	5.285714286		12							
Limit(s) in Effect	Monthly Avg	25	0	30	0			1	0	18	0
	Daily Max					9	0			17	0
	Daily Min					6	0				
	Weekly Avg	40	0	45	0						
QA/QC Information	LOD							0.086		0.057	
	LOQ							0.286		0.189	
	QC Exceedance	Y		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	<1.0	2.0	7.4	<1.6	3.3
	2					
	3					
	4					
	5					
	6					
	7					
	8					
	9					
	10					
	11					
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	27					
	28					
	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	7.4	0	3.3
	Daily Max	<1	2	7.4	<1.6	3.3
	Daily Min	<1	2	7.4	<1.6	3.3
	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	1.5	3.4	1.6	1.3
	LOQ	5	5	10	7.5	10
	QC Exceedance	N	N	N	N	N
	Lab Certification	405132750	405132750	405132750	405132750	405132750

	Sample Point	001	101
	Description	Effluent	Effluent Reuse
	Parameter	553	671
	Description	Zinc, Total Recoverable	Flow Unregulated
	Units	ug/L	MGD
	Sample Type	24 HR FLOW PROP	CONTINUOUS
	Frequency	MONTHLY	DAILY
Sample Results	Day 1	18.9	2.733
	2		2.735
	3		2.740
	4		3.441
	5		3.315
	6		2.689
	7		2.585
	8		2.550
	9		2.446
	10		2.438
	11		2.211
	12		0.654
	13		1.074
	14		1.877
	15		1.856
	16		2.177
	17		2.703
	18		2.725
	19		2.740
	20		2.710
	21		2.799
	22		3.154
	23		3.145
	24		2.561
	25		2.553
	26		2.551
	27		2.554
	28		2.554
	29		2.172
	30		2.552
	31		2.548

	Sample Point	001	101
	Description	Effluent	Effluent Reuse
	Parameter	553	671
	Description	Zinc, Total Recoverable	Flow Unregulated
	Units	ug/L	MGD
Summary Values	Monthly Avg	18.9	2.501354839
	Daily Max	18.9	3.441
	Daily Min	18.9	0.654
	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	5.8	
	LOQ	40	
	QC Exceedance	N	N
	Lab Certification	405132750	

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

BOD Blanks Failed : 12/2 (0.27),12/5 (0.26), 12/7 (-0.37),12/8 (-0.27)12/18 (0.74),
12/20 (0.46), 12/21 (0.61),12/22 (0.35),12/28 (0.54),12/29 (0.35)
GGA failed : 12/18 (394), 12/25 (275)

Submitted by K3vin1 on 01/08/2016 8:43:52 AM