

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: 11/01/2015 - 11/30/2015
 Form Due Date: 12/21/2015
 Permit Number: 0031232

Date Received:
 DOC: 352183
 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	5.649	4.308	165	192	
	2	5.348	2.498	177	244	
	3	4.484	0.978	183	216	<1.0
	4	4.698	1.852	183	196	
	5	4.924	2.076	191	172	
	6	4.800	2.275	170	164	
	7	4.700	2.677	187	164	
	8	5.064	4.892	190	140	
	9	4.493	2.560	205	196	
	10	4.316	1.629	65	192	
	11	4.706	1.667	184	256	
	12	4.588	1.549	199	148	
	13	4.526	2.017	252	240	
	14	4.496	3.148	243	184	
	15	4.822	4.401	207	196	
	16	4.435	1.784	204	208	
	17	5.517	3.062	359	184	
	18	5.993	3.316	153	156	
	19	5.278	2.550	173	132	
	20	5.168	2.441	180	152	
	21	4.913	2.179	197	148	
	22	4.955	2.451	181	136	
	23	4.770	2.111	236	200	
	24	4.697	1.958	201	172	
	25	5.205	2.533	274	220	
	26	9.125	8.175	158	188	
	27	8.983	6.645	121	140	
	28	7.230	5.022	117	92	
	29	6.830	4.187	155	104	
	30	6.381	3.646	131	128	
	31					

	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	5.3698		3.019566667		188.033333333		175.333333333		0	
	Daily Max	9.125		8.175		359		256		<1	
	Daily Min	4.316		0.978		65		92		<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					
	2					
	3	2.9	50.9	2.9	3.4	81.6
	4					
	5					
	6					
	7					
	8					
	9					
	10					
	11					
	12					
	13					
	14					
	15					
	16					
	17					
	18					
	19					
	20					
	21					
	22					
	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	2.9		50.9		2.9		3.4		81.6	
	Daily Max	2.9		50.9		2.9		3.4		81.6	
	Daily Min	2.9		50.9		2.9		3.4		81.6	
	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	18	7.4	0.36	0.6
	2	8	18	7.6	0.39	1.0
	3	10	23	7.5	0.58	0.9
	4	8	16	7.5	0.45	0.9
	5	5	19	7.4	0.64	0.3
	6	4	19	7.7	0.42	
	7	4	16	7.5	0.39	
	8	4	14	7.6	0.46	0.6
	9	5	17	7.5	0.48	0.7
	10	5	19	7.6	0.38	0.4
	11	9	21	7.6	0.46	0.7
	12	10	16	7.5	0.46	1.0
	13	6	20	7.5	0.54	
	14	5	15	7.3	0.22	
	15	4	17	7.4	0.37	0.7
	16	5	17	7.6	0.41	0.5
	17	7	18	7.6	0.39	0.8
	18	5	14	7.6	0.33	0.5
	19	4	13	7.7	0.36	0.5
	20	4	14	7.4	0.33	
	21	4	16	7.4	0.32	
	22	4	12	7.5	0.24	0.5
	23	4	13	7.5	0.55	0.7
	24	6	16	7.7	0.49	1.3
	25	9	18	7.7	0.41	1.3
	26	4	12	7.7	0.27	0.9
	27	5	12	7.7	0.26	
	28	4	8	7.7	0.22	
	29	3	7	7.8	0.23	0.5
	30	4	9	7.7		0.5
	31					

	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	5.433333333		15.566666667		7.563333333		0.393448276		0.718181818	
	Daily Max	10		23		7.8		0.64		1.3	
	Daily Min	3		7		7.3		0.22		0.3	
	Week 1 Avg	6.142857143		18.428571429							
	Week 2 Avg	6.285714286		17.428571429							
	Week 3 Avg	4.714285714		15.571428571							
	Week 4 Avg	5.142857143		13							
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		Y		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					
	3	<1.0	<1.5	8.7	<1.6	5.0
	4					
	5					
	6					
	7					
	8					
	9					
	10					
	11					
	12					
	13					
	14					
	15					
	16					
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	25					
	26					
	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		0		8.7		0		5	
	Daily Max	<1		<1.5		8.7		<1.6		5	
	Daily Min	<1		<1.5		8.7		<1.6		5	
	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		1.341
	2		2.850
	3	18.4	3.506
	4		2.846
	5		2.848
	6		2.525
	7		2.023
	8		0.172
	9		1.933
	10		2.687
	11		3.039
	12		3.039
	13		2.509
	14		1.348
	15		0.421
	16		2.651
	17		2.455
	18		2.677
	19		2.728
	20		2.727
	21		2.734
	22		2.504
	23		2.659
	24		2.739
	25		2.672
	26		0.950
	27		2.338
	28		2.208
	29		2.643
	30		2.735
	31		

	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	18.4		2.350233333	
	Daily Max	18.4		3.506	
	Daily Min	18.4		0.172	
	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: 11/1/15 (-0.26),11/3/15 (0.52),11/5/15 (-0.26),11/9/15 (-0.29)
11/11/15 (-0.27),11/13/15 (0.25),11/16/15 (0.28),11/17/15 (0.33),11/18/15 (0.74),
11/24/15 (0.26),11/16/15 (1.18),11/27/15,(0.63)....TP LCS : 11/19/15 0.64 (LCS 0.8-1.2)

Submitted by K3vin1 on 12/10/2015 7:11:45 AM