

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: 06/01/2015 - 06/30/2015
 Form Due Date: 07/21/2015
 Permit Number: 0031232

Date Received:
 DOC: 345939
 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	6.479	6.479	167	188	
	2	5.956	5.956	242	176	<1.0
	3	5.712	5.712	170	284	
	4	5.346	5.346	163	308	
	5	5.150	5.150	191	196	
	6	4.952	4.952	195	252	
	7	6.015	4.808	206	276	
	8	5.890	3.701	179	168	
	9	5.473	4.072	194	184	
	10	5.325	4.555	207	204	
	11	7.756	5.948	170	208	
	12	10.718	8.211	96	120	
	13	7.196	4.460	106	116	
	14	6.933	4.196	123	144	
	15	15.934	12.657	89	292	
	16	11.156	7.289	97	116	
	17	8.305	5.285	102	124	
	18	7.068	4.093	124	112	
	19	6.683	3.705	129	180	
	20	5.831	2.854	170	156	
	21	5.680	2.705	144	152	
	22	6.779	3.678	137	156	
	23	6.075	3.062	152	120	
	24	5.718	1.716	159	148	
	25	5.290	1.881	183	168	
	26	5.097	2.122	178	204	
	27	4.740	2.955	184	180	
	28	4.825	3.211	176	196	
	29	4.746	1.771	273	260	
	30	4.509	1.529	195	224	
	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	6.5779		4.468633333		163.366666667		187.066666667		0	
	Daily Max	15.934		12.657		273		308		<1	
	Daily Max - Variable										
	Daily Min	4.509		1.529		89		112		<1	
	Geometric Mean										
	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										
	Geometric Mean										
	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	4.1	61.7	3.7	4.9	88.8
	3					
	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	4.1		61.7		3.7		4.9		88.8	
	Daily Max	4.1		61.7		3.7		4.9		88.8	
	Daily Max - Variable										
	Daily Min	4.1		61.7		3.7		4.9		88.8	
	Geometric Mean										
	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										
	Geometric Mean										
	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	204	112
	Description	CBOD5	Suspended Solids, Total	pH Field	Fecal Coliform	Chlorine, Total Residual
	Units	mg/L	mg/L	su	#/100ml	ug/L
	Sample Type	24 HR FLOW PROP	24 HR FLOW PROP	GRAB	GRAB	GRAB
	Frequency	DAILY	5/WEEK	5/WEEK	WEEKLY	5/WEEK
Sample Results	Day 1	6	8	7.8		<100
	2	7	8	7.7		<100
	3	6	7	7.6		<100
	4	6	13	7.6	0	<100
	5	3	10	7.9		<100
	6	4	8	7.4		
	7	3	9	7.8		
	8	4	10	7.6		<100
	9	4	8	7.8		<100
	10	4	9	7.7		<100
	11	9	9	7.6	19	<100
	12	5	12	7.7		<100
	13	3	8	7.6		
	14	4	6	7.9		
	15	8	25	7.8		<100
	16	7	13	7.5		<100
	17	2	8	7.6		<100
	18	3	6	7.7		<100
	19	2	8	7.5	89	<100
	20	3	8	7.6		
	21	5	8	7.5		
	22	3	7	7.7		<100
	23	2	8	7.6		<100
	24	3	7	7.8		<100
	25	2	10	7.7	35	<100
	26	3	8	7.7		<100
	27	3	6	7.2		
	28	2	10	7.5		
	29	3	9	7.7		<100
	30	4	12	7.7		<100
	31					

	Sample Point	001		001		001		001		001	
	Description	Effluent		Effluent		Effluent		Effluent		Effluent	
	Parameter	649		457		377		204		112	
	Description	CBOD5		Suspended Solids, Total		pH Field		Fecal Coliform		Chlorine, Total Residual	
	Units	mg/L		mg/L		su		#/100ml		ug/L	
Summary Values	Monthly Avg	4.1		9.266666667		7.65		35.75		0	
	Daily Max	9		25		7.9		89		<100	
	Daily Max - Variable										
	Daily Min	2		6		7.2		0		<100	
	Geometric Mean							15.597425251			
	Week 1 Avg	5		9							
	Week 2 Avg	4.714285714		8.857142857							
	Week 3 Avg	4.285714286		10.857142857							
	Week 4 Avg	2.571428571		8							
Limit(s) in Effect	Monthly Avg	25	0	30	0						
	Daily Max					9	0			38	0
	Daily Max - Variable										
	Daily Min					6	0				
	Geometric Mean							400	0		
	Weekly Avg	40	0	45	0						
QA/QC Information	LOD									100	
	LOQ									100	
	QC Exceedance	Y		N		N		N		N	
	Lab Certification	445005220		445005220							

	Sample Point	001	001	001	001	001
	Description	Effluent	Effluent	Effluent	Effluent	Effluent
	Parameter	388	789	87	133	147
	Description	Phosphorus, Total	Nitrogen, Ammonia (NH3-N) Total	Cadmium, Total Recoverable	Chromium, Total Recoverable	Copper, Total Recoverable
	Units	mg/L	mg/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	5/WEEK	MONTHLY	MONTHLY	MONTHLY
Sample Results	Day 1	0.25	0.3			
	2	0.30	0.3	<1.0	<1.5	5.7
	3	0.29	0.3			
	4	0.35	0.4			
	5	0.31				
	6	0.33				
	7	0.36	0.4			
	8	0.43	0.3			
	9	0.45	0.4			
	10	0.34	0.3			
	11	0.32	0.4			
	12	0.31				
	13	0.24				
	14	0.25	0.2			
	15	0.34	0.3			
	16	0.11	0.1			
	17	0.17	0.1			
	18	0.20	0.2			
	19	0.31				
	20	0.29				
	21	0.30	0.2			
	22	0.34	0.4			
	23	0.36	0.2			
	24	0.35	0.3			
	25	0.35	0.1			
	26	0.40				
	27	0.42				
	28	0.36	0.3			
	29	0.49	0.4			
	30	0.57	0.5			
	31					

	Sample Point	001		001		001		001		001	
	Description	Effluent		Effluent		Effluent		Effluent		Effluent	
	Parameter	388		789		87		133		147	
	Description	Phosphorus, Total		Nitrogen, Ammonia (NH3-N) Total		Cadmium, Total Recoverable		Chromium, Total Recoverable		Copper, Total Recoverable	
	Units	mg/L		mg/L		ug/L		ug/L		ug/L	
Summary Values	Monthly Avg	0.329666667		0.290909091		0		0		5.7	
	Daily Max	0.57		0.5		<1		<1.5		5.7	
	Daily Max - Variable										
	Daily Min	0.11		0.1		<1		<1.5		5.7	
	Geometric Mean										
	Week 1 Avg			0.34							
	Week 2 Avg			0.32							
	Week 3 Avg			0.18							
	Week 4 Avg			0.26							
Limit(s) in Effect	Monthly Avg	1	0	4.40	0						
	Daily Max			17	0						
	Daily Max - Variable										
	Daily Min										
	Geometric Mean										
	Weekly Avg			11	0						
QA/QC Information	LOD	0.086		0.057		1		1.5		3.4	
	LOQ	0.286		0.189		5		5		10	
	QC Exceedance	N		N		N		N		N	
	Lab Certification	445005220		445005220		405132750		405132750		405132750	

	Sample Point	001	001	001	001	101
	Description	Effluent	Effluent	Effluent	Effluent	Effluent Reuse
	Parameter	264	315	553	480	671
	Description	Lead, Total Recoverable	Nickel, Total Recoverable	Zinc, Total Recoverable	Temperature Maximum	Flow Unregulated
	Units	ug/L	ug/L	ug/L	degF	MGD
	Sample Type	24 HR FLOW PROP	24 HR FLOW PROP	24 HR FLOW PROP	MEASURE	CONTINUOUS
	Frequency	MONTHLY	MONTHLY	MONTHLY	3/WEEK	DAILY
Sample Results	Day 1					0.000
	2	<1.6	3.9	12.2		0.000
	3					0.000
	4					0.000
	5					0.000
	6					0.000
	7					1.207
	8					2.189
	9					1.401
	10					0.770
	11					1.808
	12					2.507
	13					2.736
	14					2.737
	15					3.277
	16					3.867
	17					3.020
	18					2.975
	19					2.978
	20					2.977
	21					2.975
	22					3.101
	23					3.013
	24					4.002
	25					3.409
	26					2.975
	27					1.785
	28					1.614
	29					2.975
	30					2.980
	31					

	Sample Point	001		001		001		001		101	
	Description	Effluent		Effluent		Effluent		Effluent		Effluent Reuse	
	Parameter	264		315		553		480		671	
	Description	Lead, Total Recoverable		Nickel, Total Recoverable		Zinc, Total Recoverable		Temperature Maximum		Flow Unregulated	
	Units	ug/L		ug/L		ug/L		degF		MGD	
Summary Values	Monthly Avg	0		3.9		12.2				2.109266667	
	Daily Max	<1.6		3.9		12.2				4.002	
	Daily Max - Variable										
	Daily Min	<1.6		3.9		12.2				0	
	Geometric Mean										
	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										
	Geometric Mean										
	Weekly Avg										
QA/QC Information	LOD	1.6		1.3		5.8					
	LOQ	7.5		10		40					
	QC Exceedance	N		N		N		N		N	
	Lab Certification	405132750		405132750		405132750					

	Sample Point	601	601	601	006	006
	Description	River Monitoring	River Monitoring	River Monitoring	WLA CBOD5 Discharge Compliance	WLA CBOD5 Discharge Compliance
	Parameter	400	399	401	545	12
	Description	WLA Previous Day River Flow	WLA Previous 4 Day Avg River Flow	WLA Previous Day River Temp	WLA CBOD5 Value	WLA Adjusted Value
	Units	cfs	cfs	degF	lbs/day	lbs/day
	Sample Type	GAUGE STN	CALCULATED	CALCULATED	SEE TABLE	CALCULATED
	Frequency	DAILY	DAILY	DAILY	DAILY	DAILY
Sample Results	Day 1	6925	6936	64	5568	6682
	2	6989	6911	64	5568	6682
	3	7042	6951	65	5568	6682
	4	7083	6967	66	5568	6682
	5	6914	7010	67	5568	6682
	6	6896	7007	66	5568	6682
	7	7104	6984	66	5568	6682
	8	7047	6999	67	5568	6682
	9	7493	6990	68	5568	6682
	10	8653	7135	69	5568	6682
	11	10510	7574	71	5265	6318
	12	12470	8426	70	5568	6682
	13	11460	9782	67	5568	6682
	14	11230	10773	67	5568	6682
	15	11310	11418	68	5568	6682
	16	11420	11618	70	5568	6682
	17	11080	11355	70	5568	6682
	18	10210	11260	72	5568	6682
	19	8600	11005	73	5568	6682
	20	7849	10328	72	5568	6682
	21	7736	9435	71	5568	6682
	22	7674	8599	71	5568	6682
	23	6470	7965	72	5265	6318
	24	5787	7432	71	5265	6318
	25	4415	6917	73	5265	6318
	26	4376	6087	74	4652	5582
	27	3847	5262	74	4652	5582
	28	3185	4607	74	3529	4235
	29	3275	3956	75	3061	3673
	30	3014	3671	75	3061	3673
	31					

	Sample Point	601		601		601		006		006	
	Description	River Monitoring		River Monitoring		River Monitoring		WLA CBOD5 Discharge Compliance		WLA CBOD5 Discharge Compliance	
	Parameter	400		399		401		545		12	
	Description	WLA Previous Day River Flow		WLA Previous 4 Day Avg River Flow		WLA Previous Day River Temp		WLA CBOD5 Value		WLA Adjusted Value	
	Units	cfs		cfs		degF		lbs/day		lbs/day	
Summary Values	Monthly Avg	7602.133333333		7912		69.733333333		5231.433333333		6277.966666667	
	Daily Max	12470		11618		75		5568		6682	
	Daily Max - Variable										
	Daily Min	3014		3671		64		3061		3673	
	Geometric Mean										
	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										
	Geometric Mean										
	Weekly Avg										
QA/QC Information	LOD										
	LOQ										
	QC Exceedance	N		N		N		N		N	
	Lab Certification										

	Sample Point	006	006	006
	Description	WLA CBOD5 Discharge Compliance	WLA CBOD5 Discharge Compliance	WLA CBOD5 Discharge Compliance
	Parameter	889	543	542
	Description	WLA CBOD5 Discharged	WLA 7 Day Sum Of WLA Values	WLA 7 Day Sum Of CBOD5 Discharged
	Units	lbs/day	lbs/day	lbs/day
	Sample Type	CALCULATED	CALCULATED	CALCULATED
	Frequency	DAILY	DAILY	DAILY
Sample Results	Day 1	308	28777	2818
	2	338	32309	2792
	3	267	35611	2574
	4	276	37582	2376
	5	142	38976	2249
	6	145	38976	2016
	7	112	38976	1588
	8	127	38976	1407
	9	119	38976	1188
	10	137	38976	1058
	11	441	38673	1223
	12	315	38673	1396
	13	93	38673	1344
	14	122	38673	1354
	15	844	38673	2071
	16	444	38673	2396
	17	101	38673	2360
	18	106	38976	2025
	19	65	38976	1775
	20	62	38976	1744
	21	117	38976	1739
	22	86	38976	981
	23	54	38673	591
	24	37	38370	527
	25	38	38067	459
	26	53	37151	447
	27	84	36235	469
	28	64	34196	416
	29	49	31689	379
	30	51	29485	376
	31			

	Sample Point	006		006		006	
	Description	WLA CBOD5 Discharge Compliance		WLA CBOD5 Discharge Compliance		WLA CBOD5 Discharge Compliance	
	Parameter	889		543		542	
	Description	WLA CBOD5 Discharged		WLA 7 Day Sum Of WLA Values		WLA 7 Day Sum Of CBOD5 Discharged	
	Units	lbs/day		lbs/day		lbs/day	
Summary Values	Monthly Avg	173.233333333		37253.066666667		1471.266666667	
	Daily Max	844		38976		2818	
	Daily Max - Variable	844				2818	
	Daily Min	37		28777		376	
	Geometric Mean						
	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	0
	Daily Min						
	Geometric Mean						
	Weekly Avg						
QA/QC Information	LOD						
	LOQ						
	QC Exceedance	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

QC BOD Blank failed 0.81(6/2), GGA Failed 230(6/5),QC Blank failed 0.27(6/13),GGA failed 394(6/26), QC BOD Blank failed -0.47(6/29)

Submitted by K3vin1 on 07/08/2015 10:53:10 AM