

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: 06/01/2022 - 06/30/2022
 Form Due Date: 07/21/2022
 Permit Number: 0031232

Date Received:
 DOC: 493650
 FIN: 6375
 FID: 445005220
 Region: Northeast Region
 Permit Drafter: Drafter not set
 Reviewer: Barti Oumarou
 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	7.019	3.347	305	268	
	2	6.692	3.287	243	212	
	3	6.488	3.853	393	204	
	4	5.974	2.968	324	192	
	5	6.998	4.126	240	196	
	6	9.063	6.210	183	164	
	7	7.825	4.591	199	168	
	8	9.794	6.413	181	168	<1.3
	9	8.656	5.065	189	140	
	10	8.041	4.585	251	144	
	11	7.609	4.383	173	96	
	12	7.714	4.690	261	188	
	13	8.869	5.800	203	212	
	14	9.051	5.813	209	180	
	15	9.441	6.274	226	168	
	16	9.549	6.395	188	180	
	17	7.983	4.567	184	68	
	18	7.195	4.182	177	132	
	19	7.153	4.506	212	196	
	20	7.114	3.374	269	228	
	21	6.919	2.945	242	200	
	22	6.351	2.568	304	208	
	23	6.374	2.705	274	188	
	24	6.439	2.566	244	132	
	25	5.860	2.689	240	192	
	26	6.040	3.177	276	240	
	27	5.745	2.772	264	220	
	28	6.803	2.716	299	248	
	29	6.730	3.058	301	208	
	30	6.575	3.068	350	212	
	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	7.402133333	4.089766667	246.8	185.066666667	0
	Daily Max	9.794	6.413	393	268	<1.3
	Daily Max - Variable					
	Daily Min	5.745	2.566	173	68	<1.3
	Geometric Mean -					
	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 -					
	Geometric Mean -					
	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	001	701
	Description	Influent	Influent	Influent	Effluent	Influent
	Parameter	133	147	264	66	315
	Description	Chromium, Total Recoverable	Copper, Total Recoverable	Lead, Total Recoverable	BOD5, Total	Nickel, Total Recoverable
	Units	ug/L	ug/L	ug/L	mg/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	DAILY	MONTHLY
Sample Results	Day 1				18	
	2				9	
	3				8	
	4				9	
	5				11	
	6	<2.5	49.3	<5.9	12	6.2
	7				8	
	8				7	
	9				4	
	10				5	
	11				5	
	12				5	
	13				6	
	14				5	
	15				14	
	16				7	
	17				6	
	18				6	
	19				7	
	20				8	
	21				8	
	22				7	
	23				9	
	24				9	
	25				9	
	26				9	
	27				12	
	28				12	
	29				13	
	30				14	
	31					

	Sample Point	701	701	701	001	701
	Description	Influent	Influent	Influent	Effluent	Influent
	Parameter	133	147	264	66	315
	Description	Chromium, Total Recoverable	Copper, Total Recoverable	Lead, Total Recoverable	BOD5, Total	Nickel, Total Recoverable
	Units	ug/L	ug/L	ug/L	mg/L	ug/L
Summary Values	Monthly Avg	0	49.3	0	8.733333333	6.2
	Daily Max	<2.5	49.3	<5.9	18	6.2
	Daily Max - Variable					
	Daily Min	<2.5	49.3	<5.9	4	6.2
	Geometric Mean -					
	Geometric Mean -					
	Week 1 Avg				10.714285714	
	Week 2 Avg				5.285714286	
	Week 3 Avg				8	
	Week 4 Avg				9.571428571	
Limit(s) in Effect	Monthly Avg				30	0
	Daily Max					
	Daily Max - Variable					
	Daily Min					
	Geometric Mean -					
	Geometric Mean -					
	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	405132750	405132750	405132750	445005220	405132750

	Sample Point	701	001	001	001	001
	Description	Influent	Effluent	Effluent	Effluent	Effluent
	Parameter	553	377	204	112	457
	Description	Zinc, Total Recoverable	pH Field	Fecal Coliform	Chlorine, Total Residual	Suspended Solids, Total
	Units	ug/L	su	#/100ml	ug/L	mg/L
	Sample Type	24 HR FLOW PROP	GRAB	GRAB	GRAB	24 HR FLOW PROP
	Frequency	MONTHLY	5/WEEK	WEEKLY	5/WEEK	5/WEEK
Sample Results	Day 1		7.0	350	<100	12.4
	2		6.8		<100	7.2
	3		7.1		<100	4.8
	4		7.3			8.8
	5		7.8			8.8
	6		7.1		<100	9.6
	7		7.1	83	<100	8.0
	8	95.6	7.2		<100	7.2
	9		7.1		<100	
	10		7.1		<100	4.4
	11		7.4			3.2
	12		7.2			6.4
	13		7.2		<100	8.4
	14		7.0		<100	9.2
	15		7.0	5	<100	12.0
	16		7.0		<100	4.4
	17		7.4		<100	4.8
	18		7.1			2.4
	19		7.1			5.2
	20		7.2		<100	4.0
	21		7.1	33	<100	5.6
	22		7.3		<100	6.0
	23		7.2		<100	10.0
	24		7.5		<100	7.2
	25		7.4			7.6
	26		7.3			7.2
	27		7.4		<100	9.6
	28		7.0		<100	11.2
	29		7.2		<100	14.0
	30		6.9		<100	12.4
	31					

	Sample Point	701	001	001	001	001		
	Description	Influent	Effluent	Effluent	Effluent	Effluent		
	Parameter	553	377	204	112	457		
	Description	Zinc, Total Recoverable	pH Field	Fecal Coliform	Chlorine, Total Residual	Suspended Solids, Total		
	Units	ug/L	su	#/100ml	ug/L	mg/L		
Summary Values	Monthly Avg	95.6	7.183333333	117.75	0	7.655172414		
	Daily Max	95.6	7.8	350	<100	14		
	Daily Max - Variable							
	Daily Min	95.6	6.8	5	<100	2.4		
	Geometric Mean -			46.790482134				
	Geometric Mean -			12.845232579				
	Week 1 Avg				0	8.514285714		
	Week 2 Avg				0	6.466666667		
	Week 3 Avg				0	5.485714286		
	Week 4 Avg				0	8.4		
Limit(s) in Effect	Monthly Avg				38	0	30	0
	Daily Max		9	0		38	0	
	Daily Max - Variable							
	Daily Min		6	0				
	Geometric Mean -			400	0			
	Geometric Mean -			656	0			
	Weekly Avg					38	0	45
QA/QC Information	LOD	11.6				100		
	LOQ	40				100		
	QC Exceedance	N	N	N	N	N	N	N
	Lab Certification	405132750						445005220

	Sample Point	001	001	001	001	001
	Description	Effluent	Effluent	Effluent	Effluent	Effluent
	Parameter	457	1348	1347	388	388
	Description	Suspended Solids, Total	WQT Credits Used (TSS)	WQT Computed Compliance (TSS)	Phosphorus, Total	Phosphorus, Total
	Units	lbs/day	lbs/month	lbs/day	mg/L	lbs/day
	Sample Type	CALCULATED	CALCULATED	CALCULATED	24 HR FLOW PROP	CALCULATED
	Frequency	5/WEEK	MONTHLY	5/WEEK	5/WEEK	5/WEEK
Sample Results	Day 1	346	0	346	0.29	8.10
	2	197	0	197	0.19	5.21
	3	154	0	154	0.18	5.78
	4	218	0	218	0.19	4.70
	5	303	0	303	0.22	7.57
	6	497	0	497	0.20	10.36
	7	306	0	306	0.18	6.89
	8	385	0	385	0.15	8.02
	9		0	0	0.11	4.65
	10	168	0	168	0.12	4.59
	11	117	0	117	0.12	4.39
	12	250	0	250	0.14	5.48
	13	406	0	406	0.15	7.26
	14	446	0	446	0.12	5.82
	15	628	0	628	0.21	10.99
	16	235	0	235	0.11	5.87
	17	183	0	183	0.09	3.43
	18	84	0	84	0.13	4.53
	19	195	0	195	0.13	4.89
	20	113	0	113	0.15	4.22
	21	138	0	138	0.19	4.67
	22	129	0	129	0.13	2.78
	23	226	0	226	0.17	3.84
	24	154	0	154	0.17	3.64
	25	170	0	170	0.22	4.93
	26	191	0	191	0.20	5.30
	27	222	0	222	0.25	5.78
	28	254	0	254	0.25	5.66
	29	357	0	357	0.30	7.65
	30	317	0	317	0.26	6.65
	31					

	Sample Point	001	001	001	001	001	
	Description	Effluent	Effluent	Effluent	Effluent	Effluent	
	Parameter	457	1348	1347	388	388	
	Description	Suspended Solids, Total	WQT Credits Used (TSS)	WQT Computed Compliance (TSS)	Phosphorus, Total	Phosphorus, Total	
	Units	lbs/day	lbs/month	lbs/day	mg/L	lbs/day	
Summary Values	Monthly Avg	254.793103448	0	246.3	0.177333333	5.788333333	
	Daily Max	628	0	628	0.3	10.99	
	Daily Max - Variable						
	Daily Min	84	0	0	0.09	2.78	
	Geometric Mean -						
	Geometric Mean -						
	Week 1 Avg			288.714285714			
	Week 2 Avg			253.142857143			
	Week 3 Avg			225.142857143			
	Week 4 Avg			192.285714286			
Limit(s) in Effect	Monthly Avg			801	0	1	0
	Daily Max						
	Daily Max - Variable						
	Daily Min						
	Geometric Mean -						
	Geometric Mean -						
	Weekly Avg			1345	0		
QA/QC Information	LOD					0.026	
	LOQ					0.087	
	QC Exceedance	N	N	N	N	N	N
	Lab Certification					445005220	

	Sample Point	001	001	001	001	001
	Description	Effluent	Effluent	Effluent	Effluent	Effluent
	Parameter	789	87	133	147	264
	Description	Nitrogen, Ammonia (NH3-N) Total	Cadmium, Total Recoverable	Chromium, Total Recoverable	Copper, Total Recoverable	Lead, 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	2.4				
	2	1.7				
	3					
	4					
	5	1.7				
	6	1.2				
	7	0.5				
	8	0.9	<1.3	<2.5	4.5	<5.9
	9	0.4				
	10					
	11					
	12	0.6				
	13	1.0				
	14	0.5				
	15	1.2				
	16	0.5				
	17					
	18					
	19	0.6				
	20	0.8				
	21	0.7				
	22	0.6				
	23	0.6				
	24					
	25					
	26	0.6				
	27	0.5				
	28	0.7				
	29	0.6				
	30	0.6				
	31					

	Sample Point	001	001	001	001	001
	Description	Effluent	Effluent	Effluent	Effluent	Effluent
	Parameter	789	87	133	147	264
	Description	Nitrogen, Ammonia (NH3-N) Total	Cadmium, Total Recoverable	Chromium, Total Recoverable	Copper, Total Recoverable	Lead, Total Recoverable
	Units	mg/L	ug/L	ug/L	ug/L	ug/L
Summary Values	Monthly Avg	0.859090909	0	0	4.5	0
	Daily Max	2.4	<1.3	<2.5	4.5	<5.9
	Daily Max - Variable					
	Daily Min	0.4	<1.3	<2.5	4.5	<5.9
	Geometric Mean -					
	Geometric Mean -					
	Week 1 Avg	1.5				
	Week 2 Avg	0.68				
	Week 3 Avg	0.76				
	Week 4 Avg	0.6				
Limit(s) in Effect	Monthly Avg	4.40	0			
	Daily Max	17	0			
	Daily Max - Variable					
	Daily Min					
	Geometric Mean -					
	Geometric Mean -					
	Weekly Avg	11	0			
QA/QC Information	LOD	0.027	1.3	1.3	3.4	5.9
	LOQ	0.09	5	5	10	20
	QC Exceedance	N	N	N	N	N
	Lab Certification	445005220	405132750	405132750	405132750	405132750

	Sample Point	001	001	101	601	601
	Description	Effluent	Effluent	Effluent Reuse	River Monitoring	River Monitoring
	Parameter	315	553	671	400	399
	Description	Nickel, Total Recoverable	Zinc, Total Recoverable	Flow Unregulated	WLA Previous Day River Flow	WLA Previous 4 Day Avg River Flow
	Units	ug/L	ug/L	MGD	cfs	cfs
	Sample Type	24 HR FLOW PROP	24 HR FLOW PROP	CONTINUOUS	GAUGE STN	CALCULATED
	Frequency	MONTHLY	MONTHLY	DAILY	DAILY	DAILY
Sample Results	Day 1			3.672	6790	6845
	2			3.405	6510	6890
	3			2.635	6510	6800
	4			3.006	6530	6713
	5			2.872	6340	6585
	6			2.853	6740	6473
	7			3.234	6880	6530
	8	4.7	18.4	3.381	7350	6623
	9			3.591	7420	6828
	10			3.456	7400	7098
	11			3.226	7250	7263
	12			3.024	7340	7355
	13			3.069	7460	7353
	14			3.238	7670	7363
	15			3.167	7680	7430
	16			3.154	7730	7538
	17			3.416	7480	7635
	18			3.013	7420	7640
	19			2.647	7410	7578
	20			3.740	7260	7510
	21			3.974	7220	7393
	22			3.783	7180	7328
	23			3.669	6090	7268
	24			3.873	5210	6938
	25			3.171	4800	6425
	26			2.863	4710	5820
	27			2.973	3810	4652
	28			4.087	3590	3797
	29			3.672	3430	3797
	30			3.507	2890	3354
	31					

	Sample Point	001	001	101	601	601
	Description	Effluent	Effluent	Effluent Reuse	River Monitoring	River Monitoring
	Parameter	315	553	671	400	399
	Description	Nickel, Total Recoverable	Zinc, Total Recoverable	Flow Unregulated	WLA Previous Day River Flow	WLA Previous 4 Day Avg River Flow
	Units	ug/L	ug/L	MGD	cfs	cfs
Summary Values	Monthly Avg	4.7	18.4	3.312366667	6403.3333333333	6627.4
	Daily Max	4.7	18.4	4.087	7730	7640
	Daily Max - Variable					
	Daily Min	4.7	18.4	2.635	2890	3354
	Geometric Mean -					
	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 -					
	Geometric Mean -					
	Weekly Avg					
QA/QC Information	LOD	2.6	11.6			
	LOQ	10	40			
	QC Exceedance	N	N	N	N	N
	Lab Certification	405132750	405132750			

	Sample Point	601	006	006	006	006
	Description	River Monitoring	WLA BOD5 Discharge Compliance	WLA BOD5 Discharge Compliance	WLA BOD5 Discharge Compliance	WLA BOD5 Discharge Compliance
	Parameter	401	544	12	843	543
	Description	WLA Previous Day River Temp	WLA BOD5 Value	WLA Adjusted Value	WLA BOD5 Discharged	WLA 7 Day Sum Of WLA Values
	Units	degF	lbs/day	lbs/day	lbs/day	lbs/day
	Sample Type	CALCULATED	SEE TABLE	CALCULATED	CALCULATED	CALCULATED
	Frequency	DAILY	DAILY	DAILY	DAILY	DAILY
Sample Results	Day 1	68	5568	7684	508	38976
	2	68	5568	7684	260	38976
	3	69	5568	7684	271	38976
	4	68	5568	7684	234	38976
	5	67	5568	7684	368	38976
	6	66	5568	7684	621	38976
	7	65	5568	7684	302	38976
	8	66	5568	7684	395	38976
	9	66	5568	7684	183	38976
	10	65	5568	7684	200	38976
	11	67	5568	7684	196	38976
	12	68	5568	7684	187	38976
	13	68	5568	7684	302	38976
	14	69	5568	7684	237	38976
	15	70	5265	7266	748	38673
	16	74	4652	6420	362	37757
	17	74	4652	6420	233	36841
	18	73	5265	7266	215	36538
	19	73	5265	7266	260	36235
	20	72	5265	7266	228	35932
	21	73	5265	7266	192	35629
	22	76	4652	6420	139	35016
	23	76	4652	6420	193	35016
	24	76	4652	6420	191	35016
	25	76	4652	6420	201	34403
	26	76	4652	6420	242	33790
	27	74	4652	6420	268	33177
	28	73	3797	5240	276	31709
	29	73	3797	5240	337	30854
	30	73	3354	4629	345	29556
	31					

	Sample Point	601	006	006	006	006
	Description	River Monitoring	WLA BOD5 Discharge Compliance	WLA BOD5 Discharge Compliance	WLA BOD5 Discharge Compliance	WLA BOD5 Discharge Compliance
	Parameter	401	544	12	843	543
	Description	WLA Previous Day River Temp	WLA BOD5 Value	WLA Adjusted Value	WLA BOD5 Discharged	WLA 7 Day Sum Of WLA Values
	Units	degF	lbs/day	lbs/day	lbs/day	lbs/day
Summary Values	Monthly Avg	70.733333333	5081.366666667	7012.5	289.8	36726.866666667
	Daily Max	76	5568	7684	748	38976
	Daily Max - Variable				748	
	Daily Min	65	3354	4629	139	29556
	Geometric Mean -					
	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
	Daily Min					
	Geometric Mean -					
	Geometric Mean -					
	Weekly Avg					
QA/QC Information	LOD					
	LOQ					
	QC Exceedance	N	N	N	N	N
	Lab Certification					

	Sample Point	006	112
	Description	WLA BOD5 Discharge Compliance	In-Plant Diversion
	Parameter	541	211
	Description	WLA 7 Day Sum Of BOD5 Discharged	Flow Rate
	Units	lbs/day	MGD
	Sample Type	CALCULATED	CONTINUOUS
	Frequency	DAILY	DAILY
Sample Results	Day 1	4202	0
	2	3289	0
	3	3045	0
	4	2694	0
	5	2457	0
	6	2610	0
	7	2565	0
	8	2452	0
	9	2375	0
	10	2303	0
	11	2266	0
	12	2084	0
	13	1765	0
	14	1699	0
	15	2053	0
	16	2232	0
	17	2265	0
	18	2283	0
	19	2356	0
	20	2283	0
	21	2238	0
	22	1629	0
	23	1460	0
	24	1418	0
	25	1404	0
	26	1386	0
	27	1426	0
	28	1510	0
	29	1707	0
	30	1860	0
	31		

	Sample Point	006	112
	Description	WLA BOD5 Discharge Compliance	In-Plant Diversion
	Parameter	541	211
	Description	WLA 7 Day Sum Of BOD5 Discharged	Flow Rate
	Units	lbs/day	MGD
Summary Values	Monthly Avg	2177.2	0
	Daily Max	4202	0
	Daily Max - Variable	4202	
	Daily Min	1386	0
	Geometric Mean -		
	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
	Daily Min		
	Geometric Mean -		
	Geometric Mean -		
	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

Submitted by K3vin1 on 07/21/2022 9:39:33 AM