

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: 06/01/2020 - 06/30/2020
 Form Due Date: 07/21/2020
 Permit Number: 0031232

Date Received:
 DOC: 445097
 FIN: 6375
 FID: 445005220
 Region: Northeast Region
 Permit Drafter: Lisa L Lumley
 Reviewer: Barti Oumarou
 Office: Oshkosh

	Sample Point	701	001	701	001	701
	Description	Influent	Effluent	Influent	Effluent	Influent
	Parameter	211	211	66	66	457
	Description	Flow Rate	Flow Rate	BOD5, Total	BOD5, Total	Suspended Solids, Total
	Units	MGD	MGD	mg/L	mg/L	mg/L
	Sample Type	CONTINUOUS	CONTINUOUS	24 HR FLOW PROP	24 HR FLOW PROP	24 HR FLOW PROP
	Frequency	DAILY	DAILY	5/WEEK	DAILY	5/WEEK
Sample Results	Day 1	7.978	5.375	110	6	48
	2	7.922	4.955	181	7	104
	3	7.525	4.687	177	6	104
	4	7.072	3.513	197	8	136
	5	7.292	3.437	214	6	196
	6	6.253	2.417	233	4	140
	7	6.367	3.039	200	6	192
	8	6.684	2.828	220	6	200
	9	6.481	2.334	214	5	180
	10	7.460	4.633	180	5	168
	11	7.494	4.891	175	4	180
	12	5.561	3.596	191	5	108
	13	5.876	2.733	207	5	132
	14	5.858	2.982	203	6	152
	15	5.849	2.353	237	7	224
	16	5.445	2.369	219	5	224
	17	5.454	1.645	252	8	228
	18	5.335	1.529	234	6	220
	19	5.348	1.948	164	5	76
	20	7.221	3.765	111	6	80
	21	6.723	3.267	175	6	196
	22	9.955	6.871	84	6	60
	23	10.913	7.539	107	6	108
	24	8.247	4.417	166	6	152
	25	7.470	4.026	202	5	156
	26	6.809	2.883	268	6	204
	27	6.312	2.462	174	6	176
	28	6.215	2.780	182	6	152
	29	6.139	2.437	229	8	64
	30	6.110	2.141	231	9	168
	31					

	Sample Point	701	001	701	001	701
	Description	Influent	Effluent	Influent	Effluent	Influent
	Parameter	211	211	66	66	457
	Description	Flow Rate	Flow Rate	BOD5, Total	BOD5, Total	Suspended Solids, Total
	Units	MGD	MGD	mg/L	mg/L	mg/L
Summary Values	Monthly Avg	6.8456	3.4617333333	191.2333333333	6	150.9333333333
	Daily Max	10.913	7.539	268	9	228
	Daily Max - Variable					
	Daily Min	5.335	1.529	84	4	48
	Geometric Mean -					
	Geometric Mean -					
	Week 1 Avg				6.142857143	
	Week 2 Avg				5.142857143	
	Week 3 Avg				6.142857143	
	Week 4 Avg				5.857142857	
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					
	LOQ					
	QC Exceedance	N	N	Y	N	N
	Lab Certification			445005220	445005220	445005220

	Sample Point	701	701	701	701	701
	Description	Influent	Influent	Influent	Influent	Influent
	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	7.4	44.8	<5.9	4.4
	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	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	7.4	44.8	0	4.4
	Daily Max	<1.3	7.4	44.8	<5.9	4.4
	Daily Max - Variable					
	Daily Min	<1.3	7.4	44.8	<5.9	4.4
	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	1.5	2.5	3.4	5.9	2.6
	LOQ	5	10	11.2	19.7	10
	QC Exceedance	N	N	N	N	N
	Lab Certification	405132750	405132750	405132750	405132750	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		7.6	0	<100	6.4
	2	110	7.4		<100	5.6
	3		7.7		<100	4.8
	4		7.5		<100	6.0
	5		7.2		<100	4.8
	6		7.3			4.0
	7		7.3			4.8
	8		7.2	10	<100	4.4
	9		7.3		<100	4.4
	10		7.4		<100	5.2
	11		7.3		<100	4.0
	12		7.1		<100	4.0
	13		7.2			4.4
	14		7.1			7.2
	15		7.6		<100	8.4
	16		7.5		<100	5.6
	17		7.8	15	<100	7.6
	18		7.5		<100	6.8
	19		7.5		<100	5.2
	20		7.2			5.2
	21		7.1			4.8
	22		7.8	18	<100	6.8
	23		7.9		<100	4.8
	24		7.6		<100	4.4
	25		7.3		<100	5.2
	26		7.5		<100	6.8
	27		7.5			6.8
	28		7.5			5.2
	29		7.3		<100	7.2
	30		7.2		<100	10.0
	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	110	7.413333333	10.75	0	5.693333333		
	Daily Max	110	7.9	18	<100	10		
	Daily Max - Variable							
	Daily Min	110	7.1	0	<100	4		
	Geometric Mean -			7.208434242				
	Geometric Mean -			15				
	Week 1 Avg				0	5.2		
	Week 2 Avg				0	4.8		
	Week 3 Avg				0	6.228571429		
	Week 4 Avg				0	5.714285714		
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	287	0	287	0.37	16.59
	2	231	0	231	0.11	4.55
	3	188	0	188	0.13	5.08
	4	176	0	176	0.14	4.10
	5	138	0	138	0.13	3.73
	6	81	0	81	0.13	2.62
	7	122	0	122	0.13	3.29
	8	104	0	104	0.14	3.30
	9	86	0	86	0.13	2.53
	10	201	0	201	0.14	5.41
	11	163	0	163	0.13	5.30
	12	120	0	120	0.14	4.20
	13	100	0	100	0.16	3.65
	14	179	0	179	0.18	4.48
	15	165	0	165	0.20	3.92
	16	111	0	111	0.15	2.96
	17	104	0	104	0.19	2.61
	18	87	0	87	0.17	2.17
	19	84	0	84	0.17	2.76
	20	163	0	163	0.18	5.65
	21	131	0	131	0.18	4.90
	22	390	0	390	0.17	9.74
	23	302	0	302	0.14	8.80
	24	162	0	162	0.17	6.26
	25	175	0	175	0.17	5.71
	26	164	0	164	0.19	4.57
	27	140	0	140	0.21	4.31
	28	121	0	121	0.24	5.56
	29	146	0	146	0.24	4.88
	30	179	0	179	0.28	5.00
	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	160	0	160	0.173666667	4.954333333	
	Daily Max	390	0	390	0.37	16.59	
	Daily Max - Variable						
	Daily Min	81	0	81	0.11	2.17	
	Geometric Mean -						
	Geometric Mean -						
	Week 1 Avg			174.714285714			
	Week 2 Avg			136.142857143			
	Week 3 Avg			120.714285714			
	Week 4 Avg			207.714285714			
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	0.2				
	2	0.7	<1.3	<2.5	5.6	<5.9
	3	0.5				
	4	1.3				
	5					
	6					
	7	0.4				
	8	0.6				
	9	0.4				
	10	0.4				
	11	0.3				
	12					
	13					
	14	0.4				
	15	0.6				
	16	0.7				
	17	0.7				
	18	1.1				
	19					
	20					
	21	0.2				
	22	0.2				
	23	0.4				
	24	0.2				
	25	0.3				
	26					
	27					
	28	0.2				
	29	0.2				
	30	0.5				
	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	0.477272727	0	0	5.6	0
	Daily Max	1.3	<1.3	<2.5	5.6	<5.9
	Daily Max - Variable					
	Daily Min	0.2	<1.3	<2.5	5.6	<5.9
	Geometric Mean -					
	Geometric Mean -					
	Week 1 Avg	0.62				
	Week 2 Avg	0.42				
	Week 3 Avg	0.66				
	Week 4 Avg	0.26				
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	0.034	1.3	2.5	3.4	5.9
	LOQ	0.113	5	10	11.2	19.7
	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			2.603	14300	13075
	2	3.7	18.1	2.967	14400	13750
	3			2.838	14400	14150
	4			3.559	14500	14325
	5			3.855	14500	14400
	6			3.836	14500	14450
	7			3.328	14400	14475
	8			3.856	14000	14475
	9			4.147	13300	14350
	10			2.827	13000	14050
	11			2.603	12400	13675
	12			1.965	12300	13175
	13			3.143	10400	12175
	14			2.876	10400	12175
	15			3.496	10400	12175
	16			3.076	7790	11675
	17			3.809	6270	10548
	18			3.806	6510	9090
	19			3.400	7210	7743
	20			3.456	7870	6945
	21			3.456	8090	6965
	22			3.084	8550	7420
	23			3.374	9540	7930
	24			3.830	10500	8513
	25			3.444	10900	9170
	26			3.926	11100	9873
	27			3.850	11100	10510
	28			3.435	11000	10900
	29			3.702	10200	11025
	30			3.969	9400	10850
	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	3.7	18.1	3.383866667	11107.666666667	11467.733333333
	Daily Max	3.7	18.1	4.147	14500	14475
	Daily Max - Variable					
	Daily Min	3.7	18.1	1.965	6270	6945
	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	66	5568	7684	281	38976
	2	65	5568	7684	300	38976
	3	66	5568	7684	247	38976
	4	69	5568	7684	241	38976
	5	70	5568	7684	163	38976
	6	71	5568	7684	77	38976
	7	71	5568	7684	163	38976
	8	71	5568	7684	143	38976
	9	71	5568	7684	106	38976
	10	72	5568	7684	192	38976
	11	72	5568	7684	164	38976
	12	71	5568	7684	160	38976
	13	68	5568	7684	103	38976
	14	68	5568	7684	139	38976
	15	68	5568	7684	134	38976
	16	68	5568	7684	102	38976
	17	69	5568	7684	112	38976
	18	71	5568	7684	79	38976
	19	73	5265	7684	78	38673
	20	75	4652	6420	189	37757
	21	76	4652	6420	153	36841
	22	75	4652	6420	355	35925
	23	75	4652	6420	375	35009
	24	73	5265	7266	236	34706
	25	73	5265	7266	176	34403
	26	73	5568	7684	154	34706
	27	73	5568	7684	118	35622
	28	74	5568	7684	137	36538
	29	76	5568	7684	158	37454
	30	77	5568	7684	163	38370
	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	71.333333333	5415.566666667	7487.6	173.266666667	37919.066666667
	Daily Max	77	5568	7684	375	38976
	Daily Max - Variable				375	
	Daily Min	65	4652	6420	77	34403
	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	3862	0
	2	3891	0
	3	3973	0
	4	2020	0
	5	1712	0
	6	1539	0
	7	1473	0
	8	1335	0
	9	1141	0
	10	1086	0
	11	1009	0
	12	1005	0
	13	1032	0
	14	1008	0
	15	999	0
	16	995	0
	17	915	0
	18	829	0
	19	474	0
	20	833	0
	21	847	0
	22	1067	0
	23	1340	0
	24	1464	0
	25	1561	0
	26	1637	0
	27	1565	0
	28	1550	0
	29	1353	0
	30	1141	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	1488.5333333333	0
	Daily Max	3973	0
	Daily Max - Variable	3973	
	Daily Min	474	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

BOD Blank Exceedence: 6-19 (0.57) 6-23 (0.51)

Submitted by K3vin1 on 07/14/2020 2:22:57 PM