

Submitted to
Leoni Township



June 2020

Monthly Operating Summary



2960 Lucerne Dr., SE Grand Rapids, MI 49546



August 5, 2020

Mr. Howard Linnabary
Supervisor
Leoni Township Hall
913 Fifth Street
Michigan Center, MI 49201

SUBJECT: Leoni Township Monthly Operation and Maintenance Report for June 2020

Dear Mr. Linnabary:

Please find attached the Monthly Operation and Maintenance Report for the Leoni Township Wastewater Treatment Plant, Sewer collections system, drinking water distribution system and Drinking Water Well System. This report is intended to provide a brief explanation of the activities related to the operation and maintenance of the facilities. All information and data used to compile this report is available for your review upon request.

As always, if you have any questions regarding the contents of this report or our operational activities, please contact me at your convenience at 517.888.3341, or by email at kbaker@fv-operations.com.

Sincerely,

F&V OPERATIONS AND RESOURCE MANAGEMENT, INC.

A handwritten signature in blue ink that reads "Kenneth J. Baker".

Kenneth J. Baker
Senior Project Manager

Enclosures:

- Operations & Maintenance Highlights
- WWTP Influent and Effluent Data
- Drinking Water MOR
- Monthly Maintenance Allowance

2960 Lucerne Drive SE; Ste. 100
Grand Rapids, MI 49546
P: 734.652.7374
www.fv-operations.com

All required and routine monitoring of the wastewater treatment plant was performed in accordance with the NPDES discharge permit during this period. A copy of the WWTP Influent and Final Effluent data for June 2020 is provided for the Board's review in [Attachment A](#). Please note that at the time of this report, some laboratory results were not yet available.

The total influent flow to the Leoni Township WWTP during June 2020 was 60.34 million gallons (MG). The total effluent flow was 69.343 (MG) during the same period. The average daily discharge flow from the WWTP was 2.01 MGD.

A total of 870,416 gallons of sludge was dewatered by centrifuge and stored in the biosolids barn. The WWTP average percent removal during this period was 99.0% of BOD (Biochemical Oxygen Demand) and 99.0% of TSS (Total Suspended Solids).

WASTEWATER TREATMENT PLANT OPERATIONAL HIGHLIGHTS

- Merit Laboratories performed analysis for available cyanide and total selenium as required by the NPDES permit.
- 243.96 Tons of biosolids were hauled to the landfill in June.

MBR Tanks & Filters

- MBR #1 was chemically cleaned once using 300 gallons of sodium hypochlorite and 300 gallons of hydrochloric acid and once using 1,100 pounds of oxalic acid in June. The tank was then drained, filled back up and returned to normal operation.
- MBR #2 was chemically cleaned with using 300 gallons of sodium hypochlorite and then a second time using 400 gallons of sodium hypochlorite. The tank was then drained, filled back up and returned to normal operation.
- MBR #3 was chemically cleaned twice using 300 gallons of sodium hypochlorite then 400 gallons of sodium hypochlorite then 1,100 pounds of oxalic acid and let sit for 24 hours. The tank was then drained, filled back up and returned to normal operation.
- MBR #4 was chemically cleaned using 300 gallons of sodium hypochlorite. The tank was then drained, filled back up and returned to normal operation.
- MBR #5 was chemically cleaned using 300 gallons of sodium hypochlorite for 18 hours then cleaned again using 400 gallons of sodium hypochlorite at the end of the month. The tank was then drained, filled back up and returned to normal operation.

Other WWTP Plant Highlights

- June 12, 2020 staff pulled and cleaned all the aerators and cleaned the sludge out of the bottom of train 1. While the cassettes were out of the tank they were evaluated and found to have 20 bad membranes. Staff replaced 20 membranes with the used one that were available.

- June 18,2020 staff pulled and cleaned all the aerators and cleaned the sludge out of the bottom of train 3. While the cassettes were out of the tank they were evaluated and found to have 30 bad membranes. Staff replaced 30 membranes with the used one that were available.
- June 29,2020 staff pulled and cleaned all the aerators and cleaned the sludge out of the bottom of train 4. While the cassettes were out of the tank they were evaluated and found to have 18 bad membranes. Staff replaced 18 membranes with the used one that were available.

Sewer Collection System Events

Address Number	Street Name	Issue	Comments	Routine Maintenance	Date of event
514	Gilletts Lake Rd	Broken cover for grinder can	Replaced grinder can lid	No	6/2/2020
449	Seventh Street	Sewer backing up in house	Checked manholes up stream and down stream all flowing fine local plumbing problem	Yes	
661	Lane Drive	Pump making noise	Reset breaker cleaned floats and tested controls. All working fine now	Yes	6/8/2020
1011	Otney	New start up	Started up new grinder can. Did not find any problems	Yes	6/9/2020
853	Roselle	Pump running slowly	Found pump pulling High amps, replaced pump all ok now	Yes	6/15/2020
39	Shady Lane	Red Light on	Replaced bad stop float	Yes	6/22/2020
Lot 14	Liberty Village	New start up	Started up new grinder can. Did not find any problems	Yes	6/23/2020

DRINKING WATER WELL SYSTEM

The June 2020 drinking water well MOR (Monthly Operating Report) is provided in Attachment B

Well number 1A was taken offline because it was dropping production at the beginning of July.

Staff sent it out for quotes and work was awarded to Northern Pump and Well.

Distribution System Events

Address Number	Street Name	Issue	Comments	Routine Maintenance	Date of event
638	fairyland	Rusty water	Flushed the main until water cleared up	Yes	6/1/2020

Distribution and Collection System Miss Dig Requests

- 210 Miss Dig requests were responded to in June.
- 120 were no conflict.
- 40 marked.
- Remainder were canceled or re-stake requests.

Attachment B

Drinking Water System Monthly Operating Report June 2020

**MONTHLY OPERATION REPORT FOR
A CLASS D3 / S3 WATER TREATMENT PLANT**

**Leoni Township
Department of Public Works
WSSN: 03837
913 Fifth Street
Leoni Twp, Michigan 49254
517-522-8446**

Mo./Yr. Jun-20

Jackson
County:

Robert Jones
Certified Operator

D3/S3
Classification

July 10,2020
Date Submitted

Electronically submitted
Signature

Designated Operator
Title

Remarks:

Report Includes:

- Bacteriological Summary and Analyses
- Well Pumpage
- Chlorination
- Fluoride
- Iron Removal
- Ion Exchange Softening
- Chemical Analyses

	Free	Total
Monthly Average TCR		
Disinfectant Residual:	0.62	0.69

Mail Completed Report To:

Michigan Department of Environmental Quality
Office of Drinking Water and Municipal Assistance
Jackson District Office
301 E. Louis Glick Highway
Jackson, Michigan 49201

MDEQ, ODWMA contacts

Jeff Antil, Drinking Water Analyst	517-780-7840
Jerry Drake, PE, District Engineer	517-780-7838
Steve Busch, District Supervisor	517-780-6122
FAX	517-780-7855

Day of Month	DAILY PUMPAGE - MILLION GALLONS PER DAY						Daily Total MGD
	Well Number						
	1 WL001	1A WL002	2A & 2B WL004/WL005			System Pressure	
1	0.0460	0.927	0.003				0.976
2	0.0270	0.243	0.006				0.276
3	0.1270	0.301	0.005				0.433
4	0.0330	0.292	0.005				0.330
5	0.1020	0.023	0.279				0.404
6	0.0250	0.001	0.406				0.432
7	0.0250	0.001	0.406				0.432
8	0.0250	0.002	0.407				0.434
9	0.0200	0.002	0.502				0.524
10	0.0580	0.009	0.262				0.329
11	0.0540	0.002	0.383				0.439
12	0.1340	0.005	0.243				0.382
13	0.0030	0.001	0.345				0.349
14	0.0030	0.001	0.345				0.349
15	0.0040	0.002	0.346				0.352
16	0.0990	0.004	0.431				0.534
17	0.3980	0.006	0.110				0.514
18	0.4780	0.043	0.003				0.524
19	0.5260	0.071	0.005				0.602
20	0.4700	0.044	0.001				0.515
21	0.4700	0.044	0.002				0.516
22	0.4710	0.045	0.002				0.518
23	0.4460	0.050	0.003				0.499
24	0.3450	0.044	0.004				0.393
25	0.4330	0.040	0.008				0.481
26	0.5020	0.070	0.002				0.574
27	0.3670	0.012	0.011				0.390
28	0.3670	0.012	0.011				0.390
29	0.3670	0.011	0.011				0.389
30	0.4130	0.038	0.006				0.457
Total	6.8380	2.346	4.553				13.737
Ave.	0.2279	0.078	0.152				0.458
Max.	0.5260	0.927	0.502			0.0	0.976
Min.	0.0030	0.001	0.001			0.0	0.276

Leoni Township Chlorination - Distribution residuals											Page 7	
Chlorine												
Day of Mo.	Township Hall				Residual				Stand Pipe			
	Free		Total		O Harrow		Total		Free	Total		
	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
1	0.62	0.77	0.31	0.37	0.25	0.45	0.18	0.34	0.27	0.32	0.29	0.37
2	0.52	1.23	0.39	0.55	0.09	0.15	0.26	0.29	0.35	0.37		
3	0.81	1.06	0.21	0.38								
4	1.18	1.30										
5												
6												
7												
8	0.99	1.09	0.20	0.33	0.22	0.30						
9	0.85	0.92	0.23	0.32	0.18	0.24						
10	0.48	0.54	0.31	0.38	0.18	0.21						
11	0.88	0.97	0.28	0.32	0.13	0.22						
12	0.67	0.84	0.14	0.15	0.05	0.26						
13												
14												
15	0.71	0.74	0.18	0.27	0.11	0.20						
16	0.31	0.33	0.07	0.14	0.25	0.26						
17	0.32	0.37	0.14	0.82	0.24	0.78						
18	0.49	0.55	0.09	0.87	0.70	0.90						
19	0.77	0.94	0.03	0.74	0.10	0.33						
20												
21												
22	0.05	0.32	0.58	0.76	0.04	0.72						
23	0.00	0.11	0.03	0.47	0.03	0.44						
24	0.93	1.10	0.07	0.73	0.07	0.60						
25	1.21	1.33	0.04	0.67	0.08	0.73						
26			0.04	0.35	0.05	0.41						
27												
28												
29	0.33	0.38	0.03	0.37	0.05	0.40						
30	0.53	0.69			0.16	0.68						
Total												
Ave.	0.63	0.78	0.18	0.46	0.18	0.43						
Max.	1.21	1.33	0.58	0.87	0.70	0.90						
Min.	0.00	0.11	0.03	0.14	0.03	0.20						

Attachment C

Maintenance Allowance Report
June 2020

706020 | Leoni - 591-556 Water

MAINTENANCE ALLOWANCE SPENDING 2020-2021

Contract year 2020-2021	\$	190,742.00
Remaining Fund From 2019-2020	\$	-
Beginning Total	\$	190,742.00
Total Spent 2020-2021	\$	11,406.44
Remaining Fund	\$	179,335.56

	Expense	Contract Year Running Total
March-20		
3/20 Cochran Electric Co, Inc. Power problem at Well 1b	24392	110.25
Total March	\$	110.25
\$ 110.25		
April-20		
5/1 Dixon Engineering, Inc. Ground Storage Tank Cleaning & Inspection	20-6561R	3,517.50
5/1 Dixon Engineering, Inc. Additional Ground Storage Tank Inspections per EGLE	20-6562	3,509.50
5/1 State Of Michigan Bacli tests	761-10508878	184.80
4/3 Etna Supply Co. New meter head for well 1A	S103429658.001	3,186.75
4/16 State Of Michigan Water samples for Feb-March	761-105069843	268.80
4/16 USABluebook DPD for water testing	202544	106.64
Total April	\$	10,773.99
\$ 10,884.24		
May-20		
Total May	\$	-
\$ 10,884.24		
June-20		
6/19 USA Bluebook DPD Feed total and sample cells	251437	496.74
6/26 THE WATER STORE INC Water for men	321656	25.46
Total June	\$	522.20
\$ 11,406.44		
July-20		
Total July	\$	-
\$ 11,406.44		
August-20		
Total August	\$	-
\$ 11,406.44		
September-20		
Total September	\$	-
\$ 11,406.44		
October-20		
Total October	\$	-
\$ 11,406.44		

	Expense	Contract Year Running Total
November-20		
Total November	\$ -	\$ 11,406.44
December-20		
Total December	\$ -	\$ 11,406.44
January-21		
Total January	\$ -	\$ 11,406.44
February-21		
Total February	\$ -	\$ 11,406.44

706020 | Leoni - 590-549 Wastewater MAINTENANCE ALLOWANCE SPENDING 2020-2021

Contract year 2020-2021	\$ 252,000.00
Remaining Fund From 2019-2020	\$ -
Beginning Total	\$ 252,000.00
Total Spent 2019-2020	\$ 116,090.15
Total Spent 2020-2021	\$ 135,909.85

	Expense	Contract Year Running Total
March-20		
3/27 August Environmental Service: Samples for plant	4801	415.80
3/11 UIS SCADA, Inc. Troubleshooting Rotork Valve #5	530359709	1,207.75
3/20 The Computer Source, LLC Repair SCADA System	4337	330.75
3/20 Superior Industrial Sales Annual Gen Evaluation at WWTP	468633	253.37
3/11 RNT Supply, Inc. Breaker for Main Disconnect #2	5703	4,446.44
3/11 Michigan Pipe & Valve Parts to fix feed forward pump	J021145	17.43
3/20 USA Bluebook Rebuild kits for ferric pump	168722	601.25
3/20 USA Bluebook Chem tubes for ferric	169310	208.52
3/27 Systems Specialties Repair Train #5 effluent valve	1041246	1,988.60
Total March	\$ 9,469.91	
		\$ 9,469.91
April-20		
4/16 August Environmental Service: Biosolids Testing	4824	674.10
4/3 UIS SCADA Troubleshooting alarm problems	530359957	714.00
4/16 Superior Industrial Sales, Inc. Service check on Gen 2A at plant	467350	262.50
4/16 UIS SCADA Work on SCADA computer problems	530360016	535.50
5/1 Oudbier Instrument Co., Inc. Flow meter problem	9406	284.50
5/1 UIS SCADA Troubleshoot breaker in main power to plant	530360124	606.38
5/1 Cochran Electric Co, Inc. Check motor connections & wire cntrl transformer	24316	210.00
5/1 M&K Jetting & Televising, LLC Clean out septic rec station	200303	485.63
5/1 Minuteman Sewer & Drain Cle: Cleaned line from septic receivers		388.50
4/3 Printer Source Plus CMYK toner for Printer	169853	235.91
4/3 Printer Source Plus Waste tank for printer	170450	33.38
4/3 Printer Source Plus Black toner for printer	170625	52.30
4/3 The Water Store Inc Water for other building	77446	35.44
4/16 Superior Industrial Sales Service check on Gen 1A at plant	467351	262.50
4/16 USABluebook 1/2"Air Release for plant	191616	139.45
4/16 USABluebook Replace broken pump to transfer solids from trains	202189	3,358.36
4/16 Wesco Receivables Corp Fuses for SCADA Panel	734818	27.89
5/1 Fastenal Company SS nuts & bolts for feed forward pumps	MIJA1163719	56.62
5/1 Lester Brothers Excavating, Inc Stone for Driveway	136804	233.73
5/1 Superior Industrial Sales Replace thermostat, block heater	467501	1,722.09
5/1 Motion Industries Mag coils for MBR air reliefs	MI11-567109	333.30
5/1 USABluebook tub assembly for ferric pumps	208917	213.93
5/1 The Water Store Inc Water for plant	307740	13.39
5/1 Mcgowan Electric Supply Microfuses for SCADA	1385162	5.15
5/1 Uv Doctor Lamps 6 ballasts and sensing board for UV systems	13343	5,223.75
5/1 Uv Doctor Lamps 2 compression nuts for UV system & cleaner for system	13391	257.25
4/6 Menards fittings to fix ferric line in	K Baker P-card	23.77
4/9 Menards filters for shop vac, float sw	K Baker P-card	101.48
4/13 Teledyne Influent sampler parts	J Green P-card	1,505.55
4/13 Electric Automation Intl Transaction Fee	K Baker P-card	0.72
4/13 Electric Automation Scada micro contacto	K Baker P-card	72.19
4/16 Menards Electrical plugs for ext cords	J Green P-card	17.23
4/16 Mcgowan Electric Supply Power cable	K Baker P-card	174.85
4/20 Galco Ind Elec connectors for transfer	K Baker P-card	1,289.13
5/1 Waste Management Biosolids hauled to landfill 3/1-3/15	0011771-1708-0	7,501.15
5/1 Waste Management Biosolids hauled to landfill 3/16-3/31	0011787-1708-6	7,315.72
5/1 Waste Management Biosolids hauled to landfill 4/1-4/15	0011809-1708-8	6,297.20
5/1 Fleis & Vandenbrink Engineeri WWTP CIP Assistance		4,504.00
5/1 Fleis & Vandenbrink Engineeri Water System Reliability Study/AMP		4,364.59
Total April	\$ 49,533.13	
		\$ 59,003.04

			Expense	Contract Year Running Total
May-20				
5/29 August Environmental Services	Effluent Testing		4862	1,675.80
5/14 Cochran Electric Co, Inc.	Fix electrical cords safety		24460	532.11
5/14 M&K Jetting & Televising, Lic-5	Clean out centrate station		200349	485.63
5/28 H&H Welding & Repair Llc	Weld for screen #2 that was broken		109754	1,129.04
5/28 UIS Scada, Inc.	Repair Screen #2 power supply		530360369	439.46
5/14 McMaster-Carr	3 screws pin clevis for feed forward pumps		37145304	123.24
5/14 The Water Store Inc	Water for plant		311409	18.64
5/21 Huber Technology, inc.	Huber screen guide bots	CD10019787		518.76
5/21 Huber Technology, Inc.	Huber screen reoller & brushes for screen	CD10019788		4,487.68
5/21 RNT Supply, Inc.	Rebuild main break for wastewater plant		39324	2,625.00
5/21 Standard Electric Company, Inc	6 fuses for MBR blowerfans		15014360-00	67.18
5/29 Facility Solutions Group	Cleaning supplies		53577	612.31
5/7 Menards	Tripple A batteries for lab, a		K Baker P-card	30.02
5/8 Coppernolls Hdwe	Plumbing pieces		K Baker P-card	20.18
5/8 Menards	Plumbing supplies for fixing f		K Baker P-card	90.96
5/11 Mcdowell, Aaron	Tubing for femic	McDowell, Aaron		17.23
5/28 Waste Management	105.26 tons biosolids hauled to landfill 4/16-4/30	0011823-1708-9		4,328.09
5/28 Waste Management	112.35 biosolids hauled	0011843-1708-7		4,732.10
5/14 Fleis & Vandenbrink Engineeri	Water System Reliability Study/AMP			1,109.40
Total May			\$ 23,042.83	\$ 82,045.87

June-20				
6/5 M&K Jetting & Televising	Clean catch basins at plant		200427	582.75
6/19 Cochran Electric Co, Inc.	Wire up 6" bypass pump		24521	1,721.83
6/19 H&H Welding & Repair	Repair screen #1		109848	659.04
6/19 Konecranes Lifting Business	Parts for crane		154261585	234.45
6/19 Minuteman Sewer & Drain Clea	Jet grit lift line at headworks		20-0802	719.25
6/19 Northern Pump & Well, Inc.	Check out bad pump found not worth fixing ordered replacement		20-J1770	433.13
6/26 Cochran Electric Co, Inc.	Remove main breaker & reinstall new breaker in main power to plant		2456	987.00
6/26 Cochran Electric Co, Inc.	2 ABB modules for few water system		24570	587.35
6/26 Lester Brothers Excavating, Inc	2 load to landfill as dumptruck in down		141878	525.00
6/26 Superior Industrial Sales	trouble shoot Loader starting problem		469640	89.25
6/26 UIS Scada	rescale influent meter at WWTP		530360425	985.95
6/5 Alloquent	More tags for new SCADA computers		706020	3,906.00
6/5 Jim'S Fire Extinguisher Service	Fire Exinguisher Service		12979	68.25
6/5 UV Doctor Lamps	4 ballasts to fix UV system		13452	3,346.64
6/5 Michigan Pipe & Valve	Flanges for 6" bypass pump for pond pump		J021875	141.59
6/19 The Computer Source	1 Backup external drive for SCADA & larger HD for Camera System		4395	774.25
5/18 Amazon.Com	adapter hose for blower blow		K Baker P-card	51.20
5/22 Menards	Hammer drill for putting down pl		K Baker P-card	128.69
5/22 O'Reilly Auto Parts	Battery for bypass p		J Green P-card	163.33
5/25 Menards	water stop for manhole back in t		K Baker P-card	97.37
5/25 Menards	more water stop to finis the pro		K Baker P-card	16.22
5/25 Doan	Concrete to fill Lagoon structure		J Green P-card	1,463.60
5/27 Sunbelt Rentals	Pump rental for emergenc		M Hosier P-card	1,070.42
5/27 Cathey	4 20 foot sections of suction of		K Baker P-card	2,322.01
6/11 Jett Pump	Anoxic Mixer parts		J Green P-card	345.05
6/15 Harbor Freight	2 drain cleaing bladdr		K Baker P-card	16.67
6/15 Menards	2 water hose nozzels for plant		K Baker P-card	22.24
6/19 Fastenal	40 bolts and 30 SS washers fo		K Baker P-card	61.85
6/19 Frank'S Shop	16 bottles of soap for MBR w		K Baker P-card	26.87
6/19 Waste Management	103.52 tons taken to landfill 5/16-5/31/2020	0011865-1708-0		4,256.54
6/26 Waste Management	6/1-6/15 hauled 109.7 tons to landfill	0011868-1708-2		4,490.09
6/26 Fleis & Vandenbrink Engineeri	Leoni Twp Sewer Use Ordinance		56012	604.01
6/26 Fleis & Vandenbrink Engineeri	WWTP CIP Assistance		56064	3,146.59
Total June			\$ 34,044.28	\$ 116,090.15

July-20				
Total July			\$ -	\$ 116,090.15

August-20				
Total August			\$ -	\$ 116,090.15

September-20				
Total September			\$ -	\$ 116,090.15

October-20				
Total October			\$ -	\$ 116,090.15

Expense Contract Year
Running Total

Total October	\$ -	
		\$ 116,090.15
November-20		
Total November	\$ -	
		\$ 116,090.15
December-20		
Total December	\$ -	
		\$ 116,090.15
January-21		
Total January	\$ -	
		\$ 116,090.15

	Expense	Contract Year Running Total
February-21		

Total February

\$ -

\$ 116,090.15

706020 | Leoni - 590-548 Collection/Distribution

MAINTENANCE ALLOWANCE SPENDING 2020-2021

Contract year 2020-2021	\$ 108,258.00
Remaining Fund From 2019-2020	\$ -
Beginning Total	\$ 108,258.00
Total Spent 2020-2021	\$ 74,736.52
Remaining Fund	\$ 33,521.48

			Expense	Contract Year Running Total
March-20				
3/20 Cochran Electric Co, Inc.	Wiring at Grinder Can	24391	300.80	
3/11 The Water Store Inc	Water for plant		19.43	
Total March			\$ 300.80	
				\$ 300.80
April-20				
5/1 M&K Jetting & Televising	ER Repair on Ann Arbor Road	200281	3,470.25	
5/1 M&K Jetting & Televising	Jett & inspect to sewer after repair	200304	777.00	
5/1 UIS Scada	Main LS pump control problem	530360147	1,020.60	
5/1 M&K Jetting & Televising	Clean out 4 lift stations	200310	2,039.63	
4/3 Milan Supply Co	4 Start cap kits for grinder cans	55500073-00	692.77	
4/3 Milan Supply Co	12 cap kits for grinder cans	55900029-00	2,623.77	
4/16 The Water Store Inc	Water for operators	304904	24.68	
5/1 USABluebook	Chain grabbers for lift stations	208917	342.45	
5/1 Michigan Pipe & Valve	2 Air releases for forcemains	J021491	2,567.02	
4/9 Menards	Battery for vac trailer, batte	K-Baker P-card	217.34	
Total April			\$ 13,775.51	
				\$ 14,076.31
May-20				
5/14 COCHRAN ELECTRIC CO, INC	Wire temp bypass pump for Thrush station	24476	214.20	
5/14 M&K JETTING & TELEVISING	Clean sewer at Detman & Pondarosa	200350	777.00	
5/14 SUPERIOR INDUSTRIAL SALE	Repair generator at Thrush lift station	468276	1,244.81	
5/14 UIS SCADA, INC.	Perform annual PM for SCAD radios	530360176	5,092.50	
5/28 M&K JETTING & TELEVISING	Investigate sink hole on Ann Arbor Rd	200395	1,554.00	
5/29 LESTER BROTHERS EXCAVA	Emergency Repair on Ann Arbor Rd	136763	13,678.72	
5/14 ETNA SUPPLY CO.	4" 90 for bypass for Thrush lift station	S103507615.001	90.30	
5/21 MICHIGAN PIPE & VALVE	Flang kits for bypass pump for thrush lift station	J021700	84.19	
5/21 MICHIGAN PIPE & VALVE	Marking paint & flags for MISSDIGS	J021774	119.53	
5/28 FERGUSON ENTERPRISES, IN	2 adapters for bypass Thrush LS	100487	84.53	
5/28 HAMMERSMITH EQUIPMENT C	Marking paint & flags for MISSDIGS	457896	260.44	
5/28 ETNA SUPPLY CO.	2 Nipples for bypass at Thrush LS	S103507431.001	72.45	
Total May			\$ 23,272.67	
				\$ 37,348.98
June-20				
6/5 H. SULLIVAN SERVICES, LLC	Ann Arbor sewer backup main backed up causing resident sewer to back up	1086	840.00	
6/19 H. Sullivan Services, Llc	Wire up grinder pump w new wire because of corrosion	24497	328.66	
6/19 Cochran Electric Co, Inc.	Replacement impeller for Thrush station pump #2	19962	4,022.55	
6/19 Jett Pump & Valve	Replacement pump #1 for Thrush Station	19974	15,436.89	
6/19 Jett Pump & Valve	Unplug pump #2 at Thrush Station	20131	403.20	
6/26 M&K Jetting & Televising	Emergency repair on Ann Arbor Rd sewer backup	200281	8,379.00	
6/26 UIS SCADA	Troubleshoot Jane Station and bring in contacts	530360091	2,719.82	
6/26 UIS SCADA	Troubleshoot LS at Thrush Station	530360174	1,080.45	
6/26 Detroit Pump & Manufacturing	Replace spare pump for stock	1061361	3,187.63	
6/5 The Water Store Inc	Water for men	314402	13.39	
6/19 USA Bluebook	12 NC Floats stock	252722	336.29	
6/26 Ferguson Enterprises	3 pvc parts for grinder pump builds	5640851	25.52	
6/26 USA Bluebook	12 Floats for LS	260063	614.34	
Total June			\$ 37,387.54	
				\$ 74,736.52
July-20				
Total July			\$ -	
				\$ 74,736.52
August-20				
Total August			\$ -	
				\$ 74,736.52
September-20				

	Expense	Contract Year Running Total
Total September	\$ -	
October-20		
Total October	\$ -	\$ 74,736.52

	Expense	Contract Year Running Total
November-20		
Total November	\$ -	
\$ 74,736.52		
December-20		
Total December	\$ -	
\$ 74,736.52		
January-21		
Total January	\$ -	
\$ 74,736.52		
February-21		
Total February	\$ -	
\$ 74,736.52		