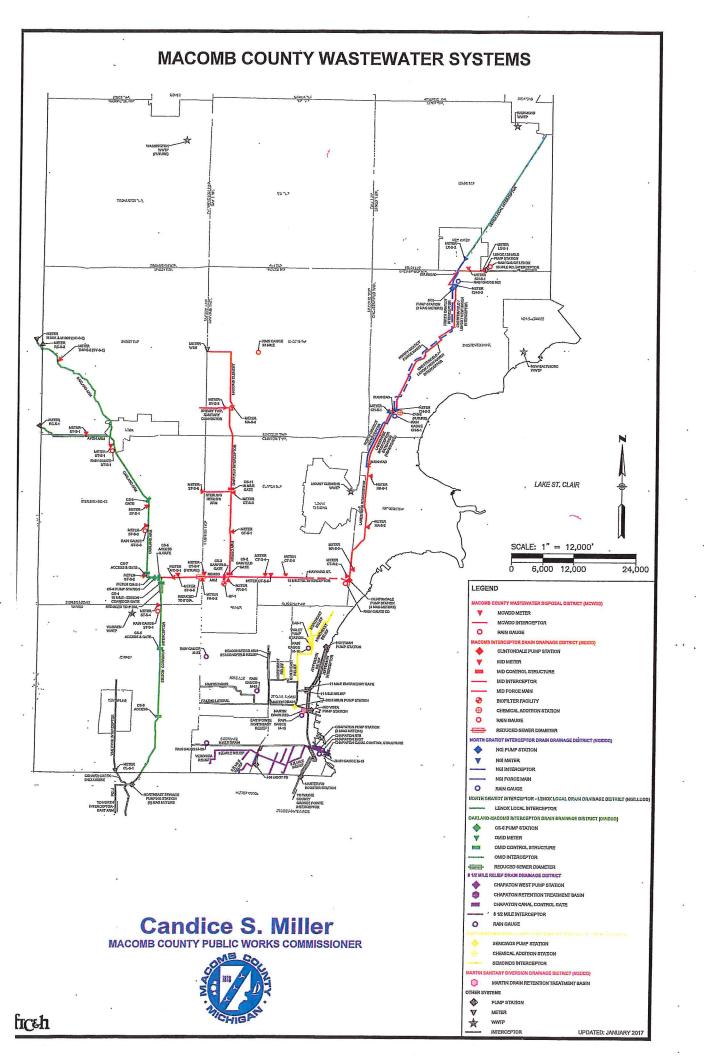
Miller Santo Klinefelt

#### EIGHT AND ONE-HALF MILE RELIEF DRAIN INTRA-COUNTY DRAINAGE BOARD OCTOBER 15, 2018 10:30 A.M. AGENDA

		Page
1.	Call of meeting to order and roll call	
2.	Approval of Agenda for October 15, 2018	
3.	Approval of Minutes for September 10, 2018	3
4.	Public participation	
5.	Project Updates – Vince Astorino	
6.	Consideration for approval of invoices (see attached)	6
7.	Financial Report – Bruce Manning	27
8.	Adjourn	



An adjourned meeting of the Intra-County Drainage Board for the **EIGHT AND ONE-HALF MILE RELIEF DRAIN** was held in the Office of the Macomb County Public Works Commissioner, 21777 Dunham, Clinton Township, Michigan, on September 10, 2018, at 10:33 A.M.

PRESENT:

Candice Miller, Chair

Bryan Santo, Member

Veronica Klinefelt, Member

ALSO PRESENT: Robert Mijac, Macomb County Board of Commissioners, Brian Baker, Chief Deputy, Karen Czernel, Deputy, Vincent Astorino, Operations and Flow Manager, Evans Bantios, P.E., Construction & Maintenance Manager, Thomas Stockel, Construction Engineer, Dan Heaton, Public Relations Manager, Denise Harwood, Accountant, Barbara Delecke, Administrative Services, Macomb County Public Works (MCPW); Jordan Scott, Sterling Heights Dept. of Public Works

The meeting was called to order by the Chair, Candice Miller. A motion was made by Mr. Santo, supported by Ms. Klinefelt to approve the agenda as presented.

Minutes of the meeting of August 13, 2018 were presented. A motion was made by Ms. Klinefelt supported by Mr. Santo to approve the minutes as presented.

Adopted:

YEAS: 3

NAYS: 0

The meeting was opened to public participation, then closed, there being no comments from the public.

The Chapaton RTB NPDES Permit will be renewed on October 1, 2018. The new permit will require total residual chlorine tracking and the influent sampling has been removed, which will be a cost savings.

There are two new projects in the 2018-2019 Budget. Both projects will increase the storage capacity of the Chapaton facility. The first design project will extend the canal for an additional 10 million gallons of storage. The second design project will install gates in the 8 ½ Mile Relief Interceptor to allow for an additional 13 million gallons of storage during wet weather events. Staff will talk to Southeast Macomb Sanitary District (SEMSD) about installing another gate in the 9 Mile Relief Drain, which would increase storage even more. Total additional storage would significantly increase.

Another part of the Master Plan would be to see if it is feasible to bring another pipe down from the Martin Sanitary Diversion District to the 8 ½ Mile Relief Drain District.

One hundred thousand dollars from the Lake St. Clair Clean Water Initiative project has been approved to fast-track a study on a new storm line down Frazho Road that would discharge into the lake.

A motion to receive and file the Permit Update was made by Mr. Santo, supported by Ms. Klinefelt.

Adopted:

YEAS: 3

NAYS: 0

The proposed budget was presented to the board and previously submitted to the communities. There will be an increase in the budget with the new NPDES Permit requirements and SAW Grant items that were identified. Design funds have been allocated for the extension of the canal, installation of gates to allow in system storage in the 8 ½ Mile Relief Drain, along with building improvements and higher County internal service costs.

A motion was made by Ms. Klinefelt, supported by Mr. Santo to approve the 2018-2019 budget as presented.

Adopted:

YEAS: 3

NAYS: 0

The Chair presented the invoices totaling \$441,027.99 to the board for review and approval.

A motion was made by Mr. Santo, supported by Ms. Klinefelt to approve the invoices as presented.

Adopted:

YEAS: 3

NAYS: 0

A motion to receive and file the financial report given by Mr. Baker was made by Mr. Santo and supported by Ms. Klinefelt.

Adopted:

YEAS: 3

NAYS: 0

There being no further business, it was moved by Ms. Klinefelt, supported by Mr. Santo, that the meeting of the Eight and One-Half Mile Relief Drain Board be adjourned.

Adopted:

YEAS: 3

NAYS: 0

The meeting was adjourned at 10:57 a.m.

Candice S. Miller, Chair

Macomb County Public Works Commissioner

## STATE OF MICHIGAN COUNTY OF MACOMB

I certify that the foregoing is a true and correct copy of proceedings taken by the Intra-County Drainage Board for the Drainage District shown on the attached set of minutes, on September 10, 2018 the original of which is on file in the Public Works Commissioner's Office. Public notice of the meeting was given pursuant to Act No. 267, Public Acts of Michigan, 1975, including, in the case of a special or rescheduled meeting or a meeting secured for more than 36 hours, notice by posting at least 18 hours prior to the time set for the meeting.

Candice S. Miller, Chair

Macomb County Public Works Commissioner

DATED: 9/12/18

Project Balance							9,746.25			35,955.06	82,952.50
Pro							€9			€9	49
Project Summary		Electrical Repairs on Flushing System	Replace Battery Charger on Generator	SWPs	Monthly Fuel		Chapaton TRC Monitoring	Repair Catch Basin	Materials used in lab for TRC testing	Chapaton Expansion Study	RTB Segmentation/Disinfection Study
Invoice Detail		2,037.97 Invoice #WO18-0745 - 9/14/18	2,490.47 Invoice #S6-2490 - 8/17/18	13,352.28 Monthly Electric - 8/9/18 - 9/10/18	543.44 Invoice #301077 - 9/11/18	1,353.54 Reimbursement for Personnel - August 2018	3,485.00 Invoice #197065 - 9/6/18 Engineering Services - ending 8/25/18	12,720.00 Invoice #4418 - 9/21/18	6,511.75 Invoice #IN-US18-2364 - 9/12/18	15,110.91 Invoice #51349113 - 8/31/18 Engineering Services - ending 8/24/18	13,438.75 Invoice #MZ012687 - 9/26/18 Engineering Services - 8/26/18 - 9/22/18
Amount		2,037.97	2,490.47	13,352.28	543.44	1,353.54	3,485.00	12,720.00	6,511.75	15,110.91	13,438.75
		69	€9	€9	€9	69	€9	€9	69	€9	69
Vendor		Colville Electric Co., LLC	Cummins Bridgeway	DTE Energy	Macomb County	Macomb Interceptor Drain	OHM Advisors	RG Eisenhardt Contracting, Inc.	Swan Analytical Instruments	Tetra Tech, Inc.	Wade Trim
Manager		Astorino	Astorino	Astorino	Astorino	Astorino	Astorino	Astorino	Astorino	Astorino	Astorino
Apportionment	Chapter 20 State of MI – 16.04% County of Macomb – 2.25% Dept. of Roads – 2.25% Eastpointe – 54.33% St. Clair Shores – 25.13%										
Funding Source	8 1/2 Mile Relief										

\$ 71,044.11

## Colville Electric Co., LLC

**Invoice** 

15210 Toepfer Dr. Eastpointe, MI 48021

Macomb County DPW
23001 Nine Mile Rd.
St. Clair Shores, MI 48080

Invoice #	WO18-0745
Due Date	Date
9/14/2018	8/15/2018

Job Location		
Chapton Station		

P.O. No.	Terms	Tech
	` Net 30	

PC	<u> </u>			
Date	Description	Quantity	Rate	Amount
	Replaced old disconnects with new disconnects Wired valves 8,13,6,7 Set limits for each valve  1/4-20 Unistrut Spring Nut 1-5/8' Galvanized Unistrut, Slotted 7/8' Galvanized Unistrut, Slotted 1/4" hex bolts 1/4" flat washers 1/4" Lead set anchors #12 ring terminal lugs Ideal Tan Wirenut 15A 600V Labor(@\$80/hr):ND Labor(@\$80/hr):DC  Chg: 8"/2 Nile  Chief Deputy A3  Engineer (s) Vianager (s) Vianager (s) Finance Officer  Physical Page 100-18  Coordinator (s) Physical Page 100-18  Coord	16 20 20 30 25 6 5 25 5 9.75 9.75 3	1.334 3.1823 2.7372 0.12 0.09 0.73 0.23 0.2282 16.23 80.00 80.00 80.00	21.34 63.65 54.74 3.60 2.25 4.38 1.15 5.71 81.15 780.00 780.00 240.00
		1	1	

Staff 9-18-18

**Total** 

\$2,037.97

# CHAPATON RETENTION TREATMENT BASIN AND PUMP STATION 23001 NINE MILE ROAD ST. CLAIR SHORES, MI 48080

## **PURCHASE ORDER**

BUDGET EXPENSE # 93000	FILE# <u>1519-3-921</u>
<b>DATE ORDERED:</b> 8/15/18 <b>DATE RECEIVED:</b> 8/15/18	
	ASE AND LOCATION USED:shing system
,	
COMPANY ORDER PLACED WITH: Colvil	le Electric Co., LLC
<b>AMOUNT:</b> \$2,037.97	



## Sales and

NEW HUDSON MI BRANCH 54250 Grand River Avenue New Hudson, MI 48165-(248)573-1900



Payment terms are 30 days from invoice date unless otherwise agreed upon in writing. Remit to: 4494 Solutions Center Chicago, IL 60677-4004

\$ 2490.47

**INVOICE NO** 

S6-2490

REMIT TO:#774494 4494 Solutions Center Chicago, IL 60677-4004

#### **BILL TO**

MACOMB COUNTY DPW 21777 DUNHAM RD CLINTON TWP, MI 48036-1005 **OWNER** 

MACOMB COUNTY OPW 23001 9 MILE RD ST CLAIR SHORES, MI 48080-PETER TROMBLEY - 586 772-3425

PAGE 1 OF 2

\*\*\* CHARGE \*\*\*

DATE	CUSTOMER ORDER NO.	DATE IN SERVICE	ENGINE MODEL	PUMP NO.	EQUIPMENT MAKE
17-AUG-2018	,		GFGA		ONAN
CUSTOMER NO.	SHIP VIA	FAIL DATE	ENGINE SERIAL NO.	CPL NO.	EQUIPMENT MODEL
207709		25-JUL-2018	HM08H31673201		GEN SET
REF. NO.	SALESPERSON	PARTS DISP.	MILEAGE/HOURS	PUMP CODE	UNIT NO.
190808	CF492		/ 199.7		CHAPATAN

QUANTITY	BACK	QUANTITY	PART	DESCRIPTION	PRODUCT	UNIT PRICE	AMOUNT
ORDERED	ORDERED	SHIPPED	NUMBER	DESCRIPTION	CODE		

OSN/MSN/VIN

HM08H31673201

COMPLAINT

UNIT IS PUTTING OUT A LOW VOLTAGE SIGNAL.

CAUSE

BAD CHARGER

CORRECTION

7-26-18 DROVE TO JOB SITE AND GAINED ACCESS TO THE GENERATOR, CHECKED FLUIDS - OK. PETE SET UP AN EXERCISE THROUGH SCADA, LOAD TESTED BATTERIES (1415 / 1460 CCA) - OK, TURNED BATTERY CHARGER UP TO 26.6 VDC FROM 25.8 VDC. TESTED GÉNERATOR AND NO FAULTS SHOWED UP, LEFT IN AUTO. WILL SEND QUOTE FOR NEW BATTERY CHARGER. 8-16-18 DROVE TO JOB SITE AND FOUND BREAKER TO SHUT OFF BATTERY

CHARGER, REMOVED OLD CHARGER AND INSTALLED NEW ONE. SET UP

PARAMETERS AND TESTED BATTERIES - OK

RAN UNIT TO TESTED CHARGER - OK, LEFT IN AUTO

COVERAGE

\$2490.47

1 NRG22-10-RC

CHARGER

E1-AUX

703.35

703.35

9.10.18 Chief Deputy\_\_\_

Engineer(s). Monacoris: UK

Coordinatoria Finance Officer

pa otossy

703.35 0.00CR

PARTS COVERAGE CREDIT:

TOTAL PARTS:

703.35

0.00

1,358.00

SURCHARGE TOTAL: LABOR:

PARTS:

LABOR COVERAGE CREDIT:

1,358.00

0.00CR

0.00 CR

TOTAL LABOR:

TRAVEL:

56.00 0.00CR

TRAVEL COVERAGE CREDIT:

56.00

TOTAL TRAVEL:

373.12

MISC .:

MISC. COVERAGE CREDIT:

373.12 TOTAL MISC .:

Billing Inquiries? Call (877)480-6970

THERE ARE ADDITIONAL CONTRACT TERMS ON THE REVERSE SIDE OF THIS DOCUMENT, INCLUDING LIMITATION ON WARRANTIES AND REMEDIES, WHICH ARE EXPRESSLY INCORPORATED HEREIN AND WHICH PURCHASER ACKNOWLEDGES HAVE BEEN READ AND FULLY UNDERSTOOD.

93000

9 SIGNATURE\_

DATE



NEW HUDSON MI BRANCH 54250 Grand River Avenue New Hudson, MI 48165-(248)573-1900

Payment terms are 30 days from invoice date unless otherwise agreed upon in writing. Remit to: 4494 Solutions Center Chicago, IL 60677-4004

#### **INVOICE NO**

S6-2490

REMIT TO:#774494 4494 Solutions Center Chicago, IL 60677-4004

#### **BILL TO**

MACOMB COUNTY DPW 21777 DUNHAM RD CLINTON TWP, MI 48036-1005

#### **OWNER**

MACOMB COUNTY OPW 23001 9 MILE RD ST CLAIR SHORES, MI 48080-PETER TROMBLEY - 586 772-3425

PAGE 2 OF 2

\*\*\* CHARGE \*\*\*

DATE	CUSTOMER ORDER NO.	DATE IN SERVICE	ENGINE MODEL	PUMP NO.	EQUIPMENT MAKE
17-AUG-2018	5		GFGA		ONAN
CUSTOMER NO.	SHIP VIA	FAIL DATE	ENGINE SERIAL NO.	CPL NO.	EQUIPMENT MODEL
207709		25-JUL-2018	HM08H31673201		GEN SET
REF. NO.	SALESPERSON	PARTS DISP.	MILEAGE/HOURS	PUMP CODE	UNIT NO.
190808	CF492		/ 199.7		CHAPATAN
QUANTITY BACK ORDERED ORDERE	QUANTITY PART D SHIPPED NUMBER	DESCRIPTION	PRODUCT CODE		UNIT PRICE AMOUNT

OSN/MSN/VIN

HM08H31673201

SHOP SUPPLIES ROAD MILEAGE FS PG 141.12 232.00

LOCAL

TAX EXEMPT NUMBERS:

0.00

Billing Inquiries? Call (877)480-6970

THERE ARE ADDITIONAL CONTRACT TERMS ON THE REVERSE SIDE OF THIS DOCUMENT, INCLUDING LIMITATION ON WARRANTIES AND REMEDIES, WHICH ARE EXPRESSLY INCORPORATED HEREIN AND WHICH PURCHASER ACKNOWLEDGES HAVE BEEN READ AND FULLY UNDERSTOOD.

SUB TOTAL:

TOTAL TAX:

2,490.47 0.00

**TOTAL AMOUNT: US \$** 

2,490.47

DATE

# CHAPATON RETENTION TREATMENT BASIN AND PUMP STATION 23001 NINE MILE ROAD ST. CLAIR SHORES, MI 48080

## **PURCHASE ORDER**

BUDGET EXPENSE #	FILE # 1519-3-910-95								
DATE ORDERED:         8/17/18           DATE RECEIVED:         8/17/18	PURCHASE ORDER # SELLER'S INVOICE # S6-2490								
AME OF DRAIN: 8 ½ Mile Relief									
NAME OF PRODUCT, REASON FOR PURCHAS	SE AND LOCATION USED:eplaced battery charger								
COMPANY ORDER PLACED WITH: Cummir	ns Bridgeway								
AMOUNT: \$2,490,47									

### Account Information

MACOMB COUNTY MACOMB COUNTY DRAIN COMM 21777 JUNHAM RD CLINTON TWP, MI 48036



**Account Number** 

9100-0005-3785

DTE-Energy Federal ID No.

38-3217752

Programs you are enrolled in:

18.469

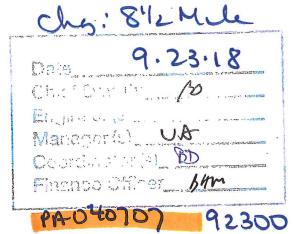
How to contact us:

Power Outage Billing Inquiry See Detail Charges 1-734-397-4309

Please make any inquiry or complaint about this bill to DTE Energy before the Due Date. DTE Energy is regulated by the Michigan Public Service Commission, Lansing, Michigan

## Important Information

Electric rate filing. We have filed a request with the Michigan Public Service Commission in Case No. U-20162 to adjust power supply and distribution rates. A copy of our filing and explanation of the proposed changes may be viewed at our offices and at http://efile.mpsc.state.mi/efile.



Page 1 of 6

Statement Mailing 09/15/2018

Account No: 9100-0005-3785 Summary ID:200001059665 [..20180914..RACOM..361 .. RE..]



## **Detail Charges**

For Service at: 23001 E 9 Mile Rd, St Clair Shores, MI 48082

Outage Contact Number: 1-313-235-1300

Invoice: 200001059665

Billing Period: 07/10/2018 through 08/08/2018

Days Billed: 30

#### **Metering Information**

Meter Number	Start Date	Start Read	Stop Date	Stop Read	Read Difference	Units Multiplier	Usage Used	Туре
6321448	07/10	283.9A	08/08	289.1A	5.2	6,400.0000	33,280.0	P - In-V
6321448	07/10	353.1A	08/08	358.7A	5.6	6,400.0000	35,840.0	P - In-W
6321449	07/10	0.0A	08/08	0.0A	0.0	- 6400.000	0.0	P - Out-W
6321449	07/10	A8.0	08/08	A8.0	0.0	- 6400.000	0.0	P - Out-V
6321451	07/10	0.4A	08/08	0.4A	0.0	6,400.0000	0.0	P - In-V
6321451	07/10	0.4A	08/08	0.4A	0.0	6,400.0000	0.0	P - In-W
				Total KVA	RH	. •	33,280.00	
36.				Total KWH	1		35,840.00	

Invoice: 200001059665 Chapaton Pumping Station Service Name: General Service Municipal Pumping-Net Metering Cat1 Item: 7004376662 Cycle: 05

	•			•	:	
Bil	ling Status Information					
1	On-peak Billing Demand	230	KW	ESTABLISHED	08/02/2018	17:00
3	65% High OP Bill Dmd June-Oct prec 11 mths	1697	KW	ESTABLISHED	06/27/2018	17:30
8	Highest Single Billing Demand	· 2908	KW	ESTABLISHED	08/01/2018	03:00
Α	Current PV High Monthly Demand	2908	KW .	ESTABLISHED	08/01/2018	03:00
В	50% of the Contract Capacity for PV	0	KW			
·C	Primary Voltage Maximum Demand	4101	KW ·	ESTABLISHED	08/28/2017	21:00
	Contract Capacity for Location	6738	KW	ESTABLISHED	08/16/2016	05:00
	Power Factor (ratio) for all voltages	73	PCT			
	Total Number of days in the Billing Period	30	.DAYS			
	Avg Kilowatthours Used Per Day This Period	1195	<b>KWH</b>	5		
	kWh percentage change from a year ago	-28	PCT			
	Avg Kilowatthours Used Per Day A Year Ago	1668	<b>KWH</b>			
	Metered outflow	0	KWH	,		
	Net Delivery Billed (inflow)	35840	KWH			
	Net Inflow (In - Out)	35840	KWH		į.	
	1994 P. C.					

#### Charges for 07/10/2018 through 08/08/2018

Charges for off forzo to unrough coronzo to						
Power Supply Charges:						
Power Supply Energy:						
Power Supply Energy Charge	35,840	<b>KWH</b>			Per Total KWH	0.00
Power Supply Capacity Charge	16,000	KWH	@\$	0.0299700	Per Total KWH	479.52
(08/01/2018-08/08/2018)						
Power Supply Capacity Charge	19,840	KWH	@\$	0.0321400	Per Total KWH	637.66
(07/10/2018-07/31/2018)				Wild Tark' (GEOTORIS) Indicatorios	<b>N</b>	
Power Supply Non Capacity Charge	16,000	KWH	@\$	0.0478000	Per Total KWH	764.80
(08/01/2018-08/08/2018)						
Power Supply Non Capacity Charge	19,840	KWH	@\$	0.0477800	Per Total KWH	947.96
(07/10/2018-07/31/2018)						
Surcharges:						
Power Supply Cost Recovery Factor	35,840	KWH	@\$	-0.0008700	Per Total KWH _	- 31.18
Sub Total:		÷				2,798.76
Delivery Charges:						
Service Charge						11.25
Distribution:						
Distribution Energy (07/10/2018-07/31/2018)	19,840	KWH	@\$	0.0386500	Per Total KWH	766.82
Distribution Energy (08/01/2018-08/08/2018)	16,000	KWH	@\$	0.0361400	Per Total KWH	578.24
Surcharges:						
Nuclear Surcharge	35,840	KWH	@\$	0.0007650	Per Total KWH	27.42
Energy Waste Reduction	2	MTR	@\$	37.2200000		74.44
LIEAF Factor	2	MTR	@\$.	0.9300000		1.86
Sub Total:						1,460.03
Special Facilities Charge						2,500.00
Invoice Subtotal						6,758.79
Michigan State Sales Tax On Taxable Portion		and the con-		1		0.00

\$6,758.79

Invoice Total

## Summary Of Charges

## Account Number

9100-0005-3785

Previous Balance as of 07/12/2018	7,136.61
Payment(s) and Credit(s)	- 7,136.61
Remaining Balance	\$0.00

**Current Charges** 

Service Location	!	Item	Service Type	Rate	Bill Period	Amount
23001 E 9 Mile Rd	:	7004376662	General Service Municipal Pumping-Net Metering Cat1	EFCND3_WP	07/10 - 08/08/18	6,758.79
		7004376662	General Service Municipal Pumping-Net Metering Cat1	EFCND3_WP	08/09 - 09/10/18	6,593.49
	+		Metering Cat i			
		*	Taxes			0.00
			Miscellaneous Charges			0.00
			Current Bill			\$13,352.28

#### Amount Due on or before Due Date of 10/08/2018

\$13,352.28

Your current charges are due on October 8, 2018. A 2% late payment charge will be applied if paid after the due date.

V01085 02

### MACOMB COUNTY DEPARTMENT OF ROADS 117 South Groesbeck Mt. Clemens, MI 48043-0000

Phone: 586-463-8671

INVOICE

Period Ending - 08/31/2018

0004 County of Macomb 120 North Main Street, 2nd Floor Mount Clemens, MI 48043-0000 PAY FROM THIS INVOICE

Invoice Number

301077

Invoice Date Work Order Number 09/11/2018 CFM002

County Fleet Mtce-Fuel Macomb County Fuel billing

Total

4,039.31

Amount Due:

4,039.31

Invoice # 301077 \$4,039.31

Department

**PUBLIC WORKS** 

## **Tammy Goike**

101 44101 - Public Works **\$1,795.32** 

639 44101 - Drain Maintenance

\$677.09

Public Works

Pump Station

\$543.44

Wastewater

\$1,023.46

mt

9-18-18

Chief Doolly in the rest of the r

Finance Officer\_\_\_\_\_

PA040685

93002

Please send payment within 30 days and include the invoice number on your check.

If you have any questions, please feel free to call Kathy at 586-463-0324

		c		
6	Amount	\$1,266.63	\$994.26	\$2,260.89
	Due to	8.5 Mile	8.5 Mile	
	Due From	MIDDD	MIDDD	
	Invoice Number	060-18	059-18	
	Amount	\$3,614.43		\$3,614.43
	Due to	MIDDD		
	Due From	8.5 Mile		
	Invoice Number	079-18		

\$3,614.43	\$2,260.89	\$1,353.54
8.5 Mile Due to MIDDD	MIDDD Due to 8.5 Mile	Total Due from 8.5 Mile to MIDDD

Chg: 81/2 Mile
Date 9-10-18
Chief Deputy
Engineer(e) Uf
Coordinator(s) (5D) Finance Office (1)
PA040575 70200
RV01525

Staff 9-18-18

dn.

## MIDDD Operation, Maintenance & Repair Reimbursement Work Order Project Report

					_	
Drain	8 1/2 Mile Relief Drain			Invoice Period	8/11/18 - 9/	7/18
Account#		** ×		Invoice No.	079-18	
Drain #	9:	Wismer#			V.	
DESCRIPT	ON:					
<b>WORK PER</b>	RFORMED:					
	& maintenance - 8/13/18, 8/22/18,	8/23/18, 8/2	24/18, 8/27/	18, 8/28/18		
fill shift - 8/1	1/18; stand-by - 8/11/18					
		STAFF	1.5 OT	HOURLY RATE	1.5 OT	
PERSONNE	L	HOURS	HOURS	WITH FRINGE	RATE	SUB TOTAL
GELLE		k		46.29	59.95	0.00
PIRKOVIC ( 8/28)	8/11, 8/13, 8/22, 8/23, 8/24, 8/27,	47	24	46.29	59.95	3,614.43
ROSKOPP				46.6 <u>2</u>	60.45	0.00
SANTO				57.60		0.00
					TOTAL:	\$ 3,614.43
Date						

Date
Chief Deputy
9
Engineer(s)
Manager(s)
Coordinator(s)
Finance Officer

## 8 1/2 Mile Relief Drain

## Operation, Maintenance & Repair Reimbursement Work Order Project Report

n i MID			Invoice Period	0/11/10 0	17110
Drain MID			invoice Periou	0/11/10 - 9.	77710
Account #			Invoice No.		059-18
Drain #	Wismer#	-			
DESCRIPTION:					
WORK PERFORMED:					
Daily Monitoring - 8/11/18 - 9/7/18		X 200 4 14 3 40 40 50 50 50 50 50 50 50 50 50 50 50 50 50	1,000		a 1
PERSONNEL	STAFF HOURS	1.5 OT HOURS	HOURLY RATE	1.5 OT RATE	SUB TOTAL
AVERY			39.39	24	
BENDA (8/31)	1		41.35	54.05	41.35
BUGAMELLI			23.59	0 1100	0.00
DEHRING (8/15, 8/21, 8/24, 8/26, 8/30, 9/1)	6	-	41.66	54.52	249.96
LAVIGNE (8/12, 8/14, 8/16, 8/18, 8/22, 8/28, 9/2, 9/6)	8		41.35	54.05	330.80
LUPO (8/14, 8/17, 8/19, 8/23, 8/25, 8/29, 9/3, 9/4, 9/7)	9		41.35	54.05	372.15
SCHMEISER			41.76	54.67	0.00
SEMROW			30.13	40.30	0.00
TROMBLEY			52.14	70.07	0.00

-	-	Personal Property lies			•	-	
	( )		л	L:	\$	uu	4.26
	v		п	- n	4	ออ	マ・ムし

	10100
Date	
Chief Deputy	
Engineer(s)	
Manager(s)	
Coordinator(s)	
Finance Officer	

## 8 1/2 Mile Relief Drain

## Operation, Maintenance & Repair Reimbursement Work Order Project Report

Drain	MID					Invoice Period	8/11/18 - 9	/7/18
Drain	ואווט					myoloc i ciloa	5, 11, 10 0	,,,,,
Account #	#					Invoice No.		060-18
Drain #			Wis	mer#				
DESCRIP	TION:							
WORK DE	-DEODMED							
WORK PE	RFORMED:							
valve. AR\	√ maintenance	e - 8/30/18, 9/-	4/18, 9/5/18;	biofilte	r - install co	- 8/17/18; install te oupling on main air	mperature v blower - 8/	water /28/18;
fab manho	ole cover and i	nstall on 15 N	lile & Eberle	in - 8/27	7/18			
	•							
					1			
	NEL.		1000	TAFF DURS	1.5 OT HOURS	HOURLY RATE WITH FRINGE	1.5 OT RATE	SUB TOTAL
PERSONI AVERY	NEL		1000	100000 000 20.1			RATE	SUB TOTAL
PERSONI AVERY	<b>NEL</b> 8/15, 8/17, 8/30	0, 9/4, 9/5)	1000	100000 000 20.1		<b>WITH FRINGE</b> 39.39 41.35	RATE	785.65
PERSONI AVERY	8/15, 8/17, 8/30	), 9/4, 9/5)	1000	OURS		39.39 41.35 23.59	<b>RATE</b> 54.05	785.65 0.00
PERSONI AVERY BENDA (8	8/15, 8/17, 8/30 LLI	), 9/4, 9/5)	1000	OURS		WITH FRINGE 39.39 41.35 23.59 41.66	54.05 54.52	785.65 0.00 0.00
PERSONI AVERY BENDA (8 BUGAME	8/15, 8/17, 8/30 LLI	), 9/4, 9/5)	1000	OURS		39.39 41.35 23.59 41.66 41.35	54.05 54.52 54.05	785.65 0.00 0.00
PERSONI AVERY BENDA (8 BUGAMEI DEHRING	8/15, 8/17, 8/30 LLI	), 9/4, 9/5)	1000	19		39.39 41.35 23.59 41.66 41.35 41.35	54.05 54.52 54.05 54.05 54.05	785.65 0.00 0.00 0.00
PERSONI AVERY BENDA (8 BUGAME DEHRING LAVIGNE LUPO	9/15, 8/17, 8/30 LLI	), 9/4, 9/5)	1000	19 2		39.39 41.35 23.59 41.66 41.35 41.35 41.76	54.05 54.52 54.05 54.05 54.05	785.65 0.00 0.00 0.00 0.00 83.52
PERSONI AVERY BENDA (8 BUGAME DEHRING LAVIGNE	8/15, 8/17, 8/30 LLI 6 ER (8/15)	), 9/4, 9/5)	1000	19 2 8		WITH FRINGE 39.39 41.35 23.59 41.66 41.35 41.35 41.76 30.13	54.05 54.52 54.05 54.05 54.67 40.30	785.65 0.00 0.00 0.00 0.00 83.52 241.04
PERSONI AVERY BENDA (8 BUGAME DEHRING LAVIGNE LUPO SCHMEIS SEMROW	8/15, 8/17, 8/30 LLI 6 ER (8/15)		1000	19 2		39.39 41.35 23.59 41.66 41.35 41.35 41.76	54.05 54.52 54.05 54.05 54.67 40.30	785.65 0.00 0.00 0.00 0.00 83.52 241.04

Date	
Chief Deputy	
Engineer(s)	
Manager(s)	
Coordinator(s)	
Finance Officer	





**Macomb County Public Works Office** 

Attn: Vincent Astorino 21777 Dunham Road

Clinton Township, MI 48036

Invoice Date: 09/06/2018

Invoice #: 197065

Project: 0314-18-0010

Project Name:

Chapaton TRC Monitoring

Job # WWS 18-012

Email to michelle.houvener@macombgov.org

For Professional Services Rendered through: 8/25/2018

Description	Fee	Prior Billed	Total Available	Current Billing
Task 1 Understanding Facility and Site	6,500.00	3,993.75	2,506.25	2,485.00
Task 2 Performing Pilot Study	2,500.00	2,775.00	0.00	0.00
Task 3 Data Analysis and Summary	3,000.00	0.00	3,000.00	1,000.00
Task 4 Integrating Monitoring into Long- term Goals	4,000.00	0.00	4,000.00	0.00
Task 5 Deliverables	4,000.00	0.00	4,000.00	0.00
Amount Due This Invoice **	20,000.00	6,768.75	13,231.25	3,485.00

Chy: 81/2 Nile Ref
Date 9-11-18
Chief Deputy 19
Engineer(s)
Manager (s) US Coordinator (s) 30
Finance Officer_htm
PAOY062-3 80350

REMIT TO:

**OHM** Advisors

34000 PLYMOUTH RD LIVONIA, MICHIGAN 48150-1512 T 734.522.6711 F 734.522.6427

OHM-Advisors.com

Staff 9-18-18 Board 10-15-18 Project Balance # 9746.25



**Macomb County Public Works Office** 

Attn: Vincent Astorino 21777 Dunham Road Clinton Township, MI 48036 **Invoice Date:** 09/06/2018 **Invoice #:** 197065

Project:

ct: 0314-18-0010

Task 1 Understanding Facility and Site				
Fixed Rates Labor				
Classification		Hours	Rate	Amount
Graduate Engineer I		. 9.00	110.0000	990.00
Graduate Engineer II		2.50	120.0000	300.00
Graduate Engineer III		8.00	125.0000	1,000.00
Principal		1.00	195.0000	195.00
•	Fixed Rates Labor subtotal	20.50		2,485.00
	Total Understanding Facility and Site			2,485.00
Task 3 Data Analysis and Summary				
Fixed Rates Labor				
Classification		Hours	Rate	Amount
Graduate Engineer III	*	8.00	125.0000	1,000.00
	Total Data Analysis and Summary			1,000.00
Total Project: 0314180010 - Chapaton TRC	Monitoring			3,485.00

REMIT TO:

**OHM** Advisors

34000 PLYMOUTH RD LIVONIA, MICHIGAN 48150-1512 T 734.522.6711 F 734.522.6427

OHM-Advisors.com

RG EISENHARDT CONTRACTING, INC.

9738 Gratiot

Columbus, MI 48063

VO6717 (01)
8210017M
80126
60017
W018300
Invoice

Date	Invoice #
9/21/18	4418

Bill To

Macomb County Public Works

CHAPATON REPAIR

S.O. No.	P.O. No.	Terms	Due Date	Project
	,	Net 15 Days	10/6/18	

Service Date	Description	Quantity	Rate	Measure	Amount
	Services provided for Consumers at 9 Mile Pup Station Location  Provided all necessary supervision, labor, material and equipment needed to perform the repair of the existing catch basin with the county's new grates.		12,720.00		12,720.00
		·			
			-	-	

A finance charge of 1.5% per month will be charged on all accounts past due.

Subtotal \$12,720.00

Sales Tax (6.0%) \$0.00

Total \$12,720.00

Phone #	Fax#
5867272233	586-727-7170



225 LARKIN DR, UNIT 4 · WHEELING, IL 60090 · www.swan-analytical-usa.com · PHONE 847 229 1290 · FAX 847 229 1320

Macomb County Public Works 21777 Dunham Road Clinton Township, MI 48036

Delivery address

Macomb County Public Works 23001 9 Mile Road St Clair Shores, MI 48080



Invoice No. IN-US18-2364

IL 60090 Wheeling, 09/12/2018

Page1/1

Your Order No:

8-28-232

Your Contact:

Vince Astorino

**Customer No:** 

Date:

08/30/2018

625052

**Payment Condition:** 

net 30 days

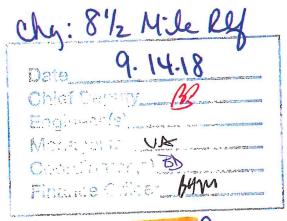
Prices VAT: **Delivery Terms:**  Sales Tax not included

ex works

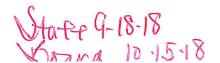
Pos.	Part-No.	Items	Quant.	Price	TOTAL USD
			,		
10 ·	A-25,441.600.0	Analyzer AMI Codes-II TC SN 6403 AMI transmitter/controller in aluminum case on mounting panel with fotometer and flow cell for determination of total chlorine. Power supply 100-240 VAC,50/60 Hz or 24 VDC	1	5,000.00	5,000.00
20	A-87.127.020	Option pH for AMI Codes. Electronic print for transmitter AMI Codes, pH combined gel electrode and temperature sensor, incl. cables, overflow tube.	1	685.00	685.00
30	A-85.410.120	Reagent set Oxycon On-line DPD, 8 sets For the determination of free chlorines, chlorine dioxide and bromine, 8 sets. For air transport according to IATA classified as "dangerous goods"!	1	405.00	405.00
40	A-85.419.200	Reagent set Oxycon On-line KI, 8 sets. Reagent set for the determination of total residual chlorine, monochloramines and ozone.	1 .	246.00	246.00
50	A-85.119.010	pH-Calibration set (1x pH 7, 1x pH 9, each 40 ml)	1	46.00	46.00
60	V-9703097	Freight and Insurance Costs -ACTUAL	1	129.75	129.75

#### TOTAL USD

UPS TRACKING 1ZA154F50350087995 1ZA154F50349734001



\$6,511.75





Tetra Tech, Inc. 424 Lewis Hargett Circle Ste. 110 Lexington, KY 40503 (859) 223-8000

BILL TO: ATTN:

MACOMB COUNTY

FINANCE DEPARTMENT OFFICE OF PUBLIC WORKS COMMISSIONER 21777 DUNHAM RD

PO BOX 806 CLINTON TOWNSHIP. MI 48036

Project Contact - Vincent Astorino - vincent.astorino@macombgov.org

Notice of Award 2/14/18

PROFESSIONAL SERVICES:

**INVOICE NUMBER: 51349113** 

**INVOICE DATE: 08/31/2018** 

SERVICES THROUGH: 08/24/2018 FEDERAL TAX ID#: 95-4148514 TERMS: NET 30

rojout Hannes.	200-16347-18001 001	Study	sion Study-MCPWO Project: MCPW		
EMPLOYEE		TITLE	CURRENT LABOR HOURS	LABOR RATE	CURRENT LABOR AMOUNT
Hufnagel, Carol L.		Program Manager	1.00	\$200.00	\$200.00
Kingsley, Kenneth		Sr Project Manager	4.00	\$200.00	\$800.00
Rubel, Brian M.		Program Manager	20.00	\$200.00	\$4,000.00
Takacs, Krista M.		Project Engineer 1	6.50	\$150.00_	\$975,00
TOTAL LABOR		, ,	31.50		\$5,975.00
OTAL LABOR			SUBTOTAL	•	\$5,975.00
OTHER DIRECT CH	ARGES	TYPE	CURRENT QUANTITY	UNIT RATE	CURRENT AMOUNT
DOLLAR BILL COP	Provide the control of the control o	Outside Reproductions			\$36.39
UNITED PARCEL S		Postage/Shipping			\$9.12
TOTAL OTHER DIR				_	\$45.51
TOTAL OTTILIN BIT	201 0111112		SUBTOTAL	. –	\$45.51
			Total Top Task# 001		\$6,020.51
Top Task	003	Sub-ASTI			
SUBCONTRACTOR		TYPE			CURRENT AMOUNT
ASTI ENVIRONMEN		Subco	tractor-External	·	\$8,264.00
TOTAL SUBCONTR		S			\$8,264.00
			Plus SUBTOTAL	Mark-up _	\$26.40 \$9.090.40
	10	1100	SUBICIAL	•	φο,υου,40
	WMS 18	5-004	Total Top Task# 003		\$9,090.40
			Total Project# 200-163	47-18001	\$15,110.91

TOTAL AMOUNT DUE THIS INVOICE:

9.4.18 Chief Deputy

24 P.J. Balance \$ 35,955.06

## VO9446 (01) 8210017H 80138 CC0004

WOI8332 INVOICE

Wade Trim

Wade Trim 500 Griswold Street • Suite 2500 • Detroit, MI 48226 313,961,3650 • FAX: 313,961,0898 • www.wadetrim.com

Federal ID 38-1802386

Terms: Net 30 Days 1.5% Per Month After 30 Days 18% Annual Rate

Macomb County Public Works

P.O. Box 806

Mt. Clemens, MI 48046-0806

Attention: Stephen Downing

Engineer II-Waste Water Services

Invoice Date:

September 26, 2018

Invoice #:

M2012687

Project #:

MCW200401D

Remit payment to:

Wade Trim 500 Griswold Street

Suite 2500

Detroit, MI 48226

Re: Basin Segmentation/Disinfection Sys

For Professional Services rendered from 8/26/2018 through 9/22/2018

Chapaton RTB Segmentation and Disinfection

WWS 18-006

**Total Salaries** 

\$13,438.75

Total Expenses

\$0.00

Professional Services Rendered

\$13,438.75

Amount Due This Invoice

\$13,438.75

Sans

Statement

Prior Invoices \$21,108.75

This Invoice \$13,438.75

Total Invoiced \$34,547.50

Paid to Date \$21,108.75

Amount Outstanding \$13,438.75

Fee Summary

Authorized Fee

\$117,500.00

Total Invoiced

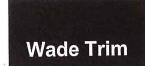
\$34,547.50

**Amount Remaining** 

\$82,952.50

for Chapate Postion of WWS 18-00





Wade Trim 500 Griswold Street • Suite 2500 • Detroit, MI 48226 313.961.3650 • FAX: 313.961.0898 • www.wadetrim.com Federal ID 38-1802386

Terms: Net 30 Days 1,5% Per Month After 30 Days 18% Annual Rate

Invoice Date:

September 26, 2018

Invoice #:

M2012687

Project #: MCW200401D

Phase: 200 -- Chapaton RTB Segmentation&Disinfect

#### Rate Schedule Labor

Classification		Hours	Rate	Amount
PM - Senior Professional		4.25	\$195.00	\$828.75
Project Admin Senior Professional		0.50	\$65.00	\$32.50
		64.50	\$195.00	\$12,577.50
Total	Rate Schedule Labor	69.25		\$13,438.75
Total Phase :	200 Chapaton RTB Segmentation&Disinfect		Labor : Expense :	\$13,438.75 \$0.00

Total Project: MCW200401D -- Basin Segmentation/Disinfection Sys

\$13,438.75

Effort Desciption: Conducted meetings with technical staff to review study progress, schedule and coordinate study efforts. Completed the basin first flush compartment size analysis. Provided a technical memorandum on the basin first flush compartment size analysis. Completed the Chapaton existing disinfection system review and evaluation. Provided a technical memorandum on the Chapaton existing disinfection system evaluation. Initiated the development of basin first flush options.

#### Income Statement 8.5 Mile Relief As of Sept 30, 2018

	9-30-2017	10-1-17 to 8-31-18	Sep-18	Total
	Total Fund	O&M	O&M	9/30/2018
Revenues		2,986,880	13,590	3,000,470
Expenditures		1,534,682	41,593	1,576,275
Equity**	3,105,754			4,529,949

#### NOTES

Reserves as of Sept 30, 2017	600,000
Required SRF repair & replacement reserve balance 9/	1,308,558
Total	1,908,558

#### \*\* Broken out as follows:

Engineering carryover balance at 9/30/2017	356,050
Repair and Maintenance carryover at 9/30/2017	422,000
SCADA reserve at 9/30/2017	40,000
Equipment carryover balance at 9/30/2017	131,800
Required SRF repair & replacement reserve balance 9/	1,308,558
Emergency Reserve	600,000