



*Serving Downriver Communities  
Since 1988*

34001 W. Jefferson Ave, Brownstown Township, Michigan 48173

**SOUTH HURON VALLEY UTILITY AUTHORITY  
TECHNICAL COMMITTEE MEETING**

**Tuesday, July 9, 2024 at 10:00 AM  
Wastewater Treatment Plant**

**MEETING AGENDA**

1. Priority 1 & 2 Plant Improvements Construction (Bill)
2. Community Projects Grant Proposed Scope of Work (Bill)
3. Plant Status Update (Jacobs)
4. Proposed New Industrial Pretreatment Program (IPP) Fees (Jacobs)
5. Continued Discussion to Determine Maximum Flow Allowances for SHVUA communities (Julie and Dan)
6. Other Items

**MEMBER COMMUNITIES**

Brownstown Township • City of Flat Rock • City of Gibraltar • Huron Township • Village of South Rockwood • Van Buren Charter Township • City of Woodhaven





Photo 1 – Grit Channel with Type 9B Coating





Photo 2 – New grit influent piping and concrete collars leading from influent pumps up into Grit Tanks.





Photo 3 – East Grit Tank during startup. Stack tray and transition channel visible prior to fulling filling.





Photo 4 – East Grit Tank with new grit removal system up and running.





Photo 5 – East Grit Tank operating and flow spilling into Grit Channel.





Photo 6- New Grit Cleanser processing grit.





Photo 7 – Final Clarifier 2 drained and ready to start demo. Final Clarifier 4 was started June 27<sup>th</sup> successfully demonstrated.



South Huron Valley WWTP Improvements  
FY 2024 Community Projects EPA Grant

Potential Project Scope - DRAFT work in progress

<b>Description</b>	<b>Amount</b>
Construction Items Being Considered	
1. Odor Control for Haag Tank / Lystek	\$ 750,000.00
2. Haag Tank Repairs Cell	\$ 250,000.00
3. Exhaust Fans	\$ 269,000.00
4. RAS Pump and Piping Replacement	\$ 132,000.00
Total Construction Cost	\$ 1,401,000.00
Administration & Engineering	
Grant Administration 5%	\$ 60,000.00
Engineering Design & Construction 20%	\$ 239,900.00
Tank Cleaning/Inspection Support	\$ 30,000.00
Total Admin & Engineering Cost	\$ 329,900.00
<b>Total Project Cost</b>	<b>\$ 1,730,900.00</b>
Grant is reimbursable at 80% for a total max. amount of	\$ 959,752.00
<b>Total Project Cost to Max. Grant</b>	<b>\$ 1,199,690.00</b>

Still working to define scope and potential costs but current needs exceed the \$1.2M needed to maximize grant.



## IPP Proposed Fees Summary

YEAR	Project Burdened
2019	\$ 42,525.19
2020	\$ 44,538.67
2021	\$ 55,273.73
2022	\$ 47,410.52
2023	\$ 41,924.44

IU	FLOW	% Flow	TESTS	% Tests	Flow Burden	Test Burden	Labor \$	Lab \$	NEW 2024	2023	%	Change
Ford Woodhaven Stamping Plant	10.84800	6.1%	17	3.7%	\$ 1,279.10	\$ 776.38	\$ 2,055.48	\$ 357.00	\$ 2,412.48	\$ 1,092.00	221%	\$ 1,320.48
Wayne Disposal	20.52500	11.5%	72	15.7%	\$ 2,420.13	\$ 3,288.19	\$ 5,708.32	\$ 2,031.00	\$ 7,739.32	\$ 6,825.00	113%	\$ 914.32
Brose New Boston, Inc.	3.20320	1.8%	48	10.5%	\$ 377.69	\$ 2,192.13	\$ 2,569.82	\$ 1,487.00	\$ 4,056.82	\$ 1,365.00	297%	\$ 2,691.82
Quala Service, LLC	4.37800	2.5%	37	8.1%	\$ 516.22	\$ 1,689.77	\$ 2,205.98	\$ 1,207.00	\$ 3,412.98	\$ 1,365.00	250%	\$ 2,047.98
Huron Monofill	2.06140	1.2%	25	5.4%	\$ 243.06	\$ 1,141.73	\$ 1,384.80	\$ 567.00	\$ 1,951.80	\$ 1,365.00	143%	\$ 586.80
Flat Rock Metal, Inc.	5.84000	3.3%	73	15.9%	\$ 688.60	\$ 3,333.86	\$ 4,022.46	\$ 1,668.00	\$ 5,690.46	\$ 1,365.00	417%	\$ 4,325.46
Arsenal Road Landfill	9.67100	5.4%	62	13.5%	\$ 1,140.32	\$ 2,831.50	\$ 3,971.82	\$ 1,469.00	\$ 5,440.82	\$ 1,365.00	399%	\$ 4,075.82
Grand Trunk Railroad	3.11712	1.8%	14	3.1%	\$ 367.54	\$ 639.37	\$ 1,006.91	\$ 681.00	\$ 1,687.91	\$ 1,365.00	124%	\$ 322.91
FMC – Michigan Casting Center Landfill	4.65900	2.6%	40	8.7%	\$ 549.35	\$ 1,826.77	\$ 2,376.12	\$ 1,077.00	\$ 3,453.12	\$ 1,365.00	253%	\$ 2,088.12
Fons Landfill	5.01500	2.8%	2	0.4%	\$ 591.32	\$ 91.34	\$ 682.66	\$ 115.00	\$ 797.66	\$ 136.50	584%	\$ 661.16
Ford Motor Company - Flat Rock Assembly Plant	89.41800	50.3%	44	9.6%	\$ 10,543.38	\$ 2,009.45	\$ 12,552.83	\$ 845.00	\$ 13,397.83	\$ 9,555.00	140%	\$ 3,842.83
Willow Run Airport	19.04400	10.7%	25	5.4%	\$ 2,245.50	\$ 1,141.73	\$ 3,387.23	\$ 581.00	\$ 3,968.23	\$ 7,166.25	55%	\$ (3,198.02)
	177.77972	100.0%	459	100.0%	\$ 20,962.22	\$ 20,962.22	\$ 41,924.44	\$ 12,085.00	\$ 54,009.44	\$ 34,329.75	157%	\$ 19,679.69



















IPP Proposed Fees Lab, 4 of 4

200.00

4-Methylethly Phenol Bromodichloromethane (mg/L) Bromoform (mg/L) Bromomethane (mg/L) Chloroform (mg/L) Chloromethane (mg/L) Dibromochloromethane (mg/L)

4-Methylethly Phenol

0.34

0.85

2

Bromodichloromethane (mg/L) Bromoform (mg/L) Bromomethane (mg/L) Chloroform (mg/L) Chloromethane (mg/L) Dibromochloromethane (mg/L)

<.005 <.005 <.005 <.005 <.005 <.005

<0.005 <0.005 <0.005 <0.005 <0.005 <0.005

<.005 <.005 <.005 <.005 <.005 <.005

3 3 3 3 3 3

# SHVUA Collection System Peak Daily Flow Summary

# Brownstown Twp

Top 10 Daily Flows (MGD) (2011 - May 2024)				
Daily Rank	Date	Brownstown Daily Ave (MGD)	7-day Avg	7-day Rank
1	11/29/2011	15.597	6.078	3
2	5/31/2015	11.970	4.291	77
3	8/24/2023	11.794	4.866	25
4	4/15/2018	10.897	4.671	40
5	1/26/2024	10.723	5.630	10
6	3/28/2020	9.757	4.586	46
7	8/25/2023	9.636	5.006	22
8	1/11/2020	9.204	4.444	54
9	3/5/2011	8.902	4.095	114
10	6/27/2015	8.843	3.863	164

Brownstown Daily Flows (MGD) (2019 - May 2024)	
Max	11.794
95th Percentile	3.790
Average	2.207
5th Percentile	1.426
Min	1.243
Brownstown Purchase Capacity (MGD)	
Interceptor Capacity	13.95
Treatment Capacity	6.66

Top 10 7-Day Average Flows (MGD) (2011 - May 2024)				
7-day Rank	Date	7-day Avg	Brownstown Daily Ave (MGD)	Daily Rank
1	12/2/2011	6.210	3.252	377
2	11/30/2011	6.156	7.983	15
3	11/29/2011	6.078	15.597	1
4	12/1/2011	6.019	4.190	189
5	11/28/2011	6.015	4.171	195
6	11/27/2011	5.927	4.800	123
7	11/26/2011	5.825	2.551	816
8	1/27/2024	5.809	5.662	72
9	1/28/2024	5.727	5.917	62
10	1/26/2024	5.630	10.723	5



# SHVUA Collection System Peak Daily Flow Summary

Flat Rock

Top 10 Daily Flows (MGD) (2011 - May 2024)				
Daily Rank	Date	Flat Rock Daily Ave (MGD)	7-day Avg	7-day Rank
1	11/29/2011	10.973	5.310	4
2	8/24/2023	10.666	2.721	181
3	11/30/2011	9.878	5.462	2
4	5/31/2015	8.551	3.544	48
5	1/26/2024	7.564	4.467	13
6	5/27/2011	7.524	4.582	11
7	3/31/2017	7.226	3.711	31
8	6/27/2015	7.051	3.242	70
9	5/26/2011	6.842	4.336	15
10	3/5/2011	6.741	3.164	89

Flat Rock Daily Flows (MGD) (2019 - May 2024)	
Max	10.666
95th Percentile	2.549
Average	1.325
5th Percentile	0.565
Min	0.262
Flat Rock Purchase Capacity (MGD)	
Interceptor Capacity	9.65
Treatment Capacity	3.47

Top 10 7-Day Average Flows (MGD) (2011 - May 2024)				
7-day Rank	Date	7-day Avg	Flat Rock Daily Ave (MGD)	Daily Rank
1	12/2/2011	5.562	3.314	144
2	11/30/2011	5.462	9.878	3
3	12/1/2011	5.380	5.316	23
4	11/29/2011	5.310	10.973	1
5	11/28/2011	5.094	3.189	156
6	11/27/2011	4.730	3.062	175
7	5/28/2011	4.724	4.813	41
8	12/3/2011	4.610	2.504	306
9	1/27/2024	4.601	6.130	15
10	1/28/2024	4.590	5.107	31

# SHVUA Collection System Peak Daily Flow Summary

Gibraltar

Top 10 Daily Flows (MGD) (2011 - May 2024)				
Daily Rank	Date	Gibraltar Daily Ave (MGD)	7-day Avg	7-day Rank
1	11/29/2011	5.856	2.244	62
2	8/24/2023	5.777	2.375	23
3	4/15/2018	5.004	2.379	21
4	5/31/2015	4.808	1.862	203
5	6/21/2021	4.636	1.788	259
6	7/20/2019	4.513	2.774	2
7	1/26/2024	4.393	2.231	66
8	3/28/2020	4.342	2.260	55
9	8/25/2023	4.309	2.502	10
10	5/19/2020	4.261	2.392	19

Gibraltar Daily Flows (MGD) (2019 - May 2024)	
Max	5.777
95th Percentile	1.996
Average	1.115
5th Percentile	0.525
Min	0.342
Gibraltar Purchase Capacity (MGD)	
Interceptor Capacity	7.11
Treatment Capacity	1.97

Top 10 7-Day Average Flows (MGD) (2011 - May 2024)				
7-day Rank	Date	7-day Avg	Gibraltar Daily Ave (MGD)	Daily Rank
1	7/21/2019	2.784	3.240	30
2	7/20/2019	2.774	4.513	6
3	7/22/2019	2.753	2.652	77
4	7/19/2019	2.691	2.485	96
5	7/23/2019	2.669	2.269	125
6	8/27/2023	2.623	1.913	229
7	8/26/2023	2.581	2.090	174
8	7/18/2019	2.565	2.233	137
9	2/22/2018	2.508	2.250	133
10	8/25/2023	2.502	4.309	9



# SHVUA Collection System Peak Daily Flow Summary

Huron Twp

Top 10 Daily Flows (MGD) (2011 - May 2024)				
Daily Rank	Date	Huron Twp Daily Ave (MGD)	7-day Avg	7-day Rank
1	11/30/2011	10.836	5.163	7
2	5/27/2011	9.450	5.490	3
3	5/26/2011	9.209	5.195	5
4	8/25/2023	7.621	3.874	25
5	1/27/2024	7.385	4.566	14
6	12/1/2011	7.024	5.186	6
7	1/12/2020	6.767	2.993	121
8	2/21/2018	6.518	3.791	27
9	5/1/2019	6.478	3.707	36
10	8/26/2023	6.289	4.042	22

Huron Twp Daily Flows (MGD) (2019 - May 2024)	
Max	7.621
95th Percentile	2.567
Average	1.412
5th Percentile	0.700
Min	0.398
Huron Twp Purchase Capacity (MGD)	
Interceptor Capacity	7.97
Treatment Capacity	3.67

Top 10 7-Day Average Flows (MGD) (2011 - May 2024)				
7-day Rank	Date	7-day Avg	Huron Twp Daily Ave (MGD)	Daily Rank
1	5/28/2011	5.578	5.739	15
2	5/29/2011	5.565	4.728	29
3	5/27/2011	5.490	9.450	2
4	12/2/2011	5.218	3.764	70
5	5/26/2011	5.195	9.209	3
6	12/1/2011	5.186	7.024	6
7	11/30/2011	5.163	10.836	1
8	11/29/2011	5.028	5.823	14
9	12/3/2011	4.961	2.991	144
10	11/28/2011	4.814	3.183	115

# SHVUA Collection System Peak Daily Flow Summary

# South Rockwood

Top 10 Daily Flows (MGD) (2011 - May 2024)				
Daily Rank	Date	South Rockwood Daily Ave	7-day Avg	7-day Rank
1	11/29/2011	1.378	0.592	30
2	5/31/2015	1.250	0.426	205
3	5/27/2011	1.217	0.692	3
4	4/15/2018	1.210	0.518	75
5	1/26/2024	1.172	0.657	5
6	8/25/2023	1.123	0.568	43
7	6/21/2021	1.081	0.380	319
8	1/12/2020	1.074	0.582	39
9	5/5/2017	1.062	0.482	113
10	5/19/2020	1.052	0.653	8

South Rockwood Daily Flows (MGD) (2019 - May 2024)	
Max	1.172
95th Percentile	0.452
Average	0.204
5th Percentile	0.094
Min	0.044
S. Rockwood Purchase Capacity (MGD)	
Interceptor Capacity	0.83
Treatment Capacity	0.40

Top 10 7-Day Average Flows (MGD) (2011 - May 2024)				
7-day Rank	Date	7-day Avg	South Rockwood Daily Ave (MGD)	Daily Rank
1	5/28/2011	0.718	0.725	61
2	5/29/2011	0.695	0.741	55
3	5/27/2011	0.692	1.217	3
4	1/27/2024	0.675	0.732	58
5	1/26/2024	0.657	1.172	5
6	2/22/2018	0.656	0.573	126
7	1/28/2024	0.654	0.696	74
8	5/19/2020	0.653	1.052	10
9	5/20/2020	0.646	1.016	14
10	5/21/2020	0.643	0.853	28



Top 10 Daily Flows (MGD) (2011 - May 2024)				
Daily Rank	Date	Van Buren Daily Ave (MGD)	7-day Avg	7-day Rank
1	5/1/2019	4.295	2.803	2
2	8/24/2023	4.121	2.390	29
3	11/29/2011	3.973	2.499	19
4	1/26/2024	3.591	2.381	30
5	2/20/2018	3.549	2.331	33
6	8/25/2023	3.438	2.514	14
7	5/12/2018	3.142	2.357	32
8	2/21/2018	3.120	2.430	26
9	3/28/2020	3.088	2.153	66
10	3/31/2017	3.038	2.085	98

Van Buren Daily Flows (MGD) (2019 - May 2024)	
Max	4.295
95th Percentile	2.007
Average	1.475
5th Percentile	1.097
Min	0.873
Van Buren Purchase Capacity (MGD)	
Interceptor Capacity	5.30
Treatment Capacity	5.43

Top 10 7-Day Average Flows (MGD) (2011 - May 2024)				
7-day Rank	Date	7-day Avg	Van Buren Daily Ave (MGD)	Daily Rank
1	5/2/2019	2.803	3.015	11
2	5/1/2019	2.803	4.295	1
3	5/3/2019	2.790	2.719	28
4	5/4/2019	2.755	2.514	45
5	4/30/2019	2.751	2.437	50
6	4/29/2019	2.749	2.238	98
7	8/27/2023	2.724	2.464	49
8	8/26/2023	2.629	2.782	20
9	4/28/2019	2.565	2.400	60
10	5/15/2018	2.564	2.750	24

Top 10 Daily Flows (MGD) (2011 - May 2024)				
Daily Rank	Date	Woodhaven Daily Ave (MGD)	7-day Avg	7-day Rank
1	8/24/2023	12.182	3.256	14
2	1/11/2020	6.398	2.627	53
3	1/26/2024	6.299	3.243	16
4	11/29/2011	6.029	2.827	32
5	2/27/2023	5.721	3.228	17
6	4/1/2023	5.715	2.690	49
7	10/25/2021	5.673	2.113	214
8	5/31/2015	5.396	2.204	166
9	2/23/2023	5.252	2.388	103
10	10/31/2019	5.109	2.304	125

Woodhaven Flows (2019 - 2024)	
Max	12.182
95th Percentile	2.327
Average	1.270
5th Percentile	0.681
Min	0.556
Woodhaven Purchase Capacity (MGD)	
Interceptor Capacity	17.47
Treatment Capacity	2.40

Top 10 7-Day Average Flows (MGD) (2011 - May 2024)				
7-day Rank	Date	7-day Avg	Woodhaven Daily Ave (MGD)	Daily Rank
1	3/2/2023	3.925	2.281	247
2	3/3/2023	3.747	2.410	206
3	2/26/2023	3.653	2.066	313
4	2/25/2023	3.631	2.190	276
5	3/1/2023	3.617	2.848	120
6	3/6/2023	3.616	4.469	24
7	3/4/2023	3.615	4.961	14
8	3/5/2023	3.611	4.227	34
9	3/7/2023	3.588	4.111	36
10	8/27/2023	3.399	1.849	444

# SHVUA Collection System Peak Daily Flow Summary

# Brownstown Twp South

Top 10 Daily Flows (MGD) (2011 - May 2024)				
Daily Rank	Date	Brownstown S. Daily Ave (MGD)	7-day Avg	7-day Rank
1	4/15/2018	3.062	1.318	7
2	5/31/2015	2.706	0.901	196
3	11/29/2011	2.658	1.127	53
4	6/21/2021	2.537	1.049	85
5	8/24/2023	2.521	1.118	56
6	1/26/2024	2.390	1.253	18
7	3/28/2020	2.360	1.195	30
8	7/20/2019	2.301	1.165	45
9	5/19/2020	2.223	1.333	4
10	7/2/2013	2.133	0.974	133

Top 10 7-Day Average Flows (MGD) (2011 - May 2024)				
7-day Rank	Date	7-day Avg	Brownstown S. Daily Ave (MGD)	Daily Rank
1	4/17/2018	1.387	1.058	152
2	4/16/2018	1.357	2.129	11
3	5/18/2020	1.355	1.457	52
4	5/19/2020	1.333	2.223	9
5	5/20/2020	1.325	1.688	28
6	5/17/2020	1.323	0.966	197
7	4/15/2018	1.318	3.062	1
8	2/22/2018	1.310	1.100	137
9	5/21/2020	1.306	1.100	136
10	4/18/2018	1.294	0.827	313

Brownstown South Daily Flows (MGD) (2019 - May 2024)	
Max	2.537
95th Percentile	0.976
Average	0.516
5th Percentile	0.266
Min	0.203
Brownstown S. Purchase Capacity (MGD)	
Interceptor Capacity	2.94
Treatment Capacity*	--

\*Only applies to Brownstown Twp total



Top 10 Daily Flows (MGD) (2011 - May 2024)				
Daily Rank	Date	Brownstown Central Daily Ave (MGD)	7-day Avg	7-day Rank
1	11/29/2011	12.939	4.951	3
2	8/24/2023	9.273	3.748	29
3	5/31/2015	9.264	3.390	61
4	1/26/2024	8.333	4.377	10
5	4/15/2018	7.835	3.352	65
6	8/25/2023	7.636	3.833	24
7	3/28/2020	7.396	3.391	60
8	1/11/2020	7.370	3.397	57
9	3/5/2011	7.287	3.322	73
10	6/27/2015	6.911	2.908	174

Brownstown Central Daily Flows (MGD) (2019 - May 2024)	
Max	9.273
95th Percentile	2.887
Average	1.692
5th Percentile	1.139
Min	1.023
Brownstown C. Purchase Capacity (MGD)	
Interceptor Capacity	11.01
Treatment Capacity*	--

\*Only applies to Brownstown Twp total

Top 10 7-Day Average Flows (MGD) (2011 - May 2024)				
7-day Rank	Date	7-day Avg	Brownstown Central Daily Ave (MGD)	Daily Rank
1	12/2/2011	5.034	2.606	344
2	11/30/2011	5.012	6.237	14
3	11/29/2011	4.951	12.939	1
4	12/1/2011	4.898	3.415	156
5	11/28/2011	4.883	3.358	164
6	11/27/2011	4.819	4.028	100
7	11/26/2011	4.745	2.072	668
8	1/27/2024	4.520	4.276	84
9	1/28/2024	4.459	4.568	62
10	1/26/2024	4.377	8.333	4