

EATON COUNTY BOARD OF COMMISSIONERS

MEMBERS

Tim Barnes
Blake Mulder
Terrance Augustine
Brandon Haskell
Jeanne Pearl-Wright
Jane Whitacre
Mark J. Mudry
Joseph Brehler



MEMBERS

Brian Droscha
Dairus Reynnet
Wayne Ridge
Brian Lautzenheiser
Jim Mott
Jeremy Whittum
Barbara Rogers

1045 Independence Blvd, Charlotte, MI 48813

EATON COUNTY BOARD OF COMMISSIONERS/PUBLIC WORKS AND PLANNING COMMITTEE

WEDNESDAY, OCTOBER 13, 2021, 9:00 A.M.

BOARD OF COMMISSIONERS' ROOM, COUNTY COURTHOUSE, CHARLOTTE

AGENDA

1. Call to Order.
2. Pledge of Allegiance.
3. Agenda Additions and Changes.
4. Approval of September 8, 2021 Minutes.
5. Limited Public Comment.
6. Parks Report.
7. Construction Code Report.
8. DIA Update.
 - Department Update
 - Waste Hauler Hearings
 - ~~Lebron~~
 - Liberty
 - Financial Report
9. Community Development Report.
10. Appointments.
11. Landfill Groundwater Monitoring Update.
12. Miscellaneous.
13. Limited Public Comment.

A quorum of the Board of Commissioners may be present at this meeting.

PUBLIC WORKS & PLANNING COMMITTEE

WEDNESDAY, SEPTEMBER 8, 2021

9:00 A.M.

MINUTES

MEMBERS PRESENT: Commissioners Brian Lautzenheiser, Jim Mott, Terrance Augustine, Joseph Brehler, Blake Mulder, Barbara Rogers and Jane Whitacre

ALSO PRESENT: Commissioner Jeremy Whittum; Bill Hendrian, Claudine Williams, Troy Stowell, Morgan Feldpausch, Gene Bryan, Sue Spagnuolo and John Fuentes

The September 8, 2021 regular meeting of the Public Works and Planning Committee was called to order at 9:00 a.m. by Chairperson Lautzenheiser.

The Pledge of Allegiance was given by all.

Commissioner Rogers moved to approve the agenda, as presented. Commissioner Mott seconded. Motion carried unanimously.

Commissioner Augustine moved to approve the minutes of the August 11, 2021 meeting, as presented. Commissioner Mott seconded. Motion carried unanimously.

Sue Spagnuolo, Eaton Conservation District, provided updates on several projects and events of the District. The District submitted for a DNR grant for development at the Pottersville State Game Area. It was also reported that an invasive species study at Crandall Lake had been completed and the report will be issued in the near future. It was also reported that the District's Field Day – Gaining Ground, Soil as a Renewable Resource is scheduled for September 15, 2021 at Kardel Hall, on the Eaton County Fairgrounds, in Charlotte.

Bill Hendrian, MSU Extension District Director, was present to provide the agency's semi-annual update. It was reported that the majority of programming has transitioned back to in-person. It was also reported that some programming experienced greater participation online and remains in that format. Mr. Hendrian provided updates for all instructor programming activities.

Troy Stowell, Parks and Recreation Director, was present to provide the Department's monthly report. An update on the Summer Adventure Camp program was provided. An update was also provided on recent and upcoming fundraising events sponsored by the Friends of Eaton County Parks. Discussion held.

Gene Bryan, Construction Code Director, was present to provide the Department's monthly update. The monthly permit, inspection and housing start reports were presented and reviewed. Discussion held.

Morgan Feldpausch, Resource Recovery Coordinator, was present to provide the monthly report for the Designated Implementing Agency. It was reported that one licensed waste hauler was sent an ordinance violation notice for which a hearing will be scheduled at the Committee's next regular

meeting. An update on the participation at the August 21, 2021 Recycle-Palooza collection event was provided.

It was also reported that research into pursuing an update/amendment to the County Solid Waste Management Plan with the Michigan Department of Environment, Great Lakes and Energy is ongoing.

An update was also provided on the activities of the Sustainability Steering Committee.

Claudine Williams, Community Development Director, was present to provide the Department's monthly report. It was reported that the Zoning Ordinance Committee continues to meet to discuss a text amendment which would include addressing the recreational vehicle as an additional living space concern raised at last month's meeting. This committee is also developing language to address wind energy facilities and marihuana facilities.

An update on the current expiring citizen appointments was provided. A slate of candidates is expected to be presented at the Committee's next regular meeting.

A communication to Lansing Economic Area Partnership from the public transit agencies in the tri-county region was provided for the Committee's information.

It was reported the County was approached regarding utilizing goats to maintain the vegetation at the landfill site. Staff is currently researching this possible solution that has been used by other public agencies.

Chairperson Lautzenheiser adjourned the meeting at 9:58 a.m.

The next regularly scheduled meeting of the Public Works and Planning Committee will be held on Wednesday, October 13, 2021 at 9:00 a.m. in the Board of Commissioners Room of the Courthouse located at 1045 Independence Blvd, Charlotte, MI 48813.

Brian Lautzenheiser, Chairperson



133 FITZGERALD PARK DR.
Grand Ledge, MI 48837
(517) 627-7351 office
(517) 627-4234 fax
www.eatoncountyparks.org

Eaton County Parks Commission
Directors Report – September 2021

Monthly Briefing

Social Media Efforts (per Month):

Facebook

Total Reach:	3,607
Post Engagements (shares/likes):	154
New Page Likes:	9

Instagram

Followers	481
Following	192

FY 2020/2021 Year End Financial Analysis

Revenues exceeded 2019/2020 by roughly \$40,000 with the bulk of these dollars attributed to increased demand for daily and annual passes as well as site reservations across the board. Lincoln Brick Park gate and site fees seem to be the outlier and did not meet revenue estimates.

Expenses remained steady with the majority of savings in temporary salaries. All but one capital project was completed and/or purchased with the intent of completion before the end of the calendar year.

Parks and Programs continue to remain extremely popular throughout the pandemic. Annual Pass sales is a clear reflection of those residents who value an outdoor experience in a safe and clean environment. However, difficulties in recruiting and retaining seasonal staff, combined with increased traffic throughout the parks system has created much more wear and tear on our trails, restroom buildings and amenities.

Crandell Park Trail Development

Generous donations from the Charlotte Rotary and in-kind services provided by Crandell Trucking will see a 10' wide crushed asphalt trail developed beginning in early October at the Park. Total distance will be in excess of 2.5 miles encircling the lake and through the wooded section in the NW quadrant of the lake. Listed as a high priority from the public, this accessible trail should be completed within a few weeks. Trail side amenities will be installed once the trail is completed to include:

- Wayfinding and mileage markers
- Trail side outdoor fitness gym
- Boat cleaning station
- Pedestrian bridge installation
- Benches and shade trees
- Story Walk in partnership with Charlotte Library

Crandell Phased Development Plan

Parks received and has initially reviewed the phased development and cost estimation plan for Crandell Park. This was developed based off the conceptual plan by Beckett & Reader as the final component of our Parks Master Plan. The proposed phasing prioritizes development on the west side of the park including a beach area, events building/office space, parking and campground. Each phase additionally includes value engineering cost savings options.

Crandell Fishing Pier Estimate

Parks staff has received an initial Construction Management Fee Proposal from Laux Construction for a fishing pier at Crandell Park. This accessible pier will be located in the SE quadrant of the lake (location initially used by the public for launching kayaks). Costs from similar projects was estimated at \$60,000 which is included in the FY 21/22 Capital Budget, however the budget summary on this initial proposal is for \$112,000 and does not include accessible approach development to the boardwalk section, site restoration or concrete abutment. The future of this project may depend on an MDNR Trust Fund Grant, which will push any development into 2023 if successful.

FY 2021/2022 Capital Projects

The following projects/equipment purchases were approved for FY 2021/2022:

- John Deere Backhoe Attachment
- Fishing Pier with Habitat
- John Deere Zero Turn Mower
- Lincoln Brick Entrance Gate
- Ford 450 Dump Truck
- Lincoln Brick Observation Deck
- GloForge Laser Engraver
- MDNR Trust Fund Match (\$50k)
- Trafx Vehicle/Trail Counter
- Crandell Trail Development/Amenities

Restore our Parks Meeting

The group is highly energized and looking to redefine what a potential Parks Millage could look like for 2022. While that development takes place, the group (Friends) have allocated funds and will be meeting with a select PR Firm to begin public opinion surveying and the creation of branded messaging.

Partnerships & Collaborations

mParks Public Policy Committee - Congressional approval of the proposed \$150 Million investment into local parks and recreation access and infrastructure is slated to begin in the month of October.

Parks and Recreation Regional Discussions

Meetings of the Southern Michigan Recreation and Parks Association (SMRPA), The Regional Director's Summit, and the Michigan Association of County Parks and Recreation Officials (MACPRO) were held.

mParks Trails Focus Group - The working group is currently planning an October 12 in person trails summit to focus on trends and issues regarding trail development, maintenance, signage and over/unauthorized use.

Future Outlook

Areas of Focus:

- County-Wide Non-Motorized Trail Planning
- Long Term Revenue Planning
- Capital Development Projects for FY 2022

Respectfully Submitted,



Troy Stowell, Director

REVENUE

Code	Revenue Source	Annual Budget	Current Month	YTD Collected	% Collected	Accounts Receivable	2019-2020			
							Budget	Monthly	YTD	%YTD
208.600.752.651	Fitzgerald Park Gate Receipts	\$ 44,000.00	\$ 5,332.12	\$ 60,046.13	136%		\$ 46,000.00	\$ 9,560.07	\$ 43,737.92	95%
208.600.752.652	Fitzgerald Park Site Fees	\$ 10,000.00	\$ 390.00	\$ 13,373.00	134%		\$ 10,000.00	\$ 678.00	\$ 3,869.00	39%
208.600.752.653	Recreation Programs	\$ 20,000.00	\$ 254.26	\$ 22,503.72	113%		\$ 20,000.00	\$ 90.00	\$ 8,715.96	44%
208.600.752.654	Naturalist Programs	\$ 8,000.00	\$ 687.00	\$ 7,059.76	88%		\$ 8,500.00	\$ -	\$ 5,764.00	68%
208.671.752.675	Donations	\$ 6,000.00	\$ -	\$ 2,000.96	33%		\$ 6,000.00	\$ -	\$ 450.00	8%
208.671.752.688	Fitzgerald Park Reimbursements	\$ -	\$ -	\$ 66,598.98	N/A		\$ -	\$ -	\$ -	N/A
208.600.753.651	Fox Park Gate Receipts	\$ 15,500.00	\$ 312.72	\$ 14,965.82	97%		\$ 16,000.00	\$ 249.00	\$ 15,333.63	96%
208.600.753.652	Fox Park Site Fees	\$ 2,000.00	\$ -	\$ -	0%		\$ 2,000.00	\$ 80.00	\$ 860.00	43%
208.600.753.866	Fox Park Reimbursements	\$ -	\$ -	\$ 1,780.00	N/A		\$ -	\$ -	\$ -	N/A
General Revenue Total		\$ 105,500.00	\$ 6,976.10	\$ 188,328.37	179%	\$ -	\$ 108,500.00	\$ 10,657.07	\$ 78,730.51	73%
208.671.753.675.001	Donations - Private Grants	\$ -								
208.664.000.670.000	Rental Income	\$ 17,500.00								
208.580.000.580.000	Local Unit Contribution	\$ 38,000.00								
208.960.000.695.000	Fund Balance Carry Over	\$ 50,000.00								
208.960.000.699.101	Transfer In - County General Funds	\$ 571,451.00								
208.960.000.699.211	Transfer In - Special Projects	\$ -								
TOTAL REVENUE		\$ 782,451.00								

EXPENDITURES

Code	Account	Adopted Budget	Budget Amended	Encumbrances (PO's)	Current Month Transactions	Y-T-D Expenditures	Amended Budget Less YTD Expenses	YTD % Spent	Last Years Y-T-D Expenditures
208.751	Administration	\$ 275,567.00	\$ 296,067.00	\$ (0.00)	\$ 24,563.38	\$ 285,437.36	\$ 10,629.64	96.41%	\$ 57,306.67
208.752	Fitzgerald Park	\$ 276,310.00	\$ 277,810.00	\$ -	\$ 32,396.18	\$ 261,229.58	\$ 16,580.42	94.03%	\$ 32,167.18
208.753	Fox Park	\$ 32,201.00	\$ 26,576.00	\$ -	\$ 5,543.06	\$ 23,336.80	\$ 3,239.20	87.81%	\$ 4,219.38
208.754	Bellevue Area Parks	\$ 1,250.00	\$ 1,250.00	\$ -	\$ 899.94	\$ 1,241.22	\$ 8.78	99.30%	\$ 414.51
208.755	Lincoln Brick Park	\$ 34,124.00	\$ 34,124.00	\$ -	\$ 336.96	\$ 12,881.26	\$ 21,242.74	37.75%	\$ 2,210.24
208.756	Crandell Park	\$ 9,390.00	\$ 9,390.00	\$ -	\$ 1,305.64	\$ 3,074.10	\$ 6,315.90	32.74%	\$ 629.54
208.901	Capital Equipment	\$ 135,100.00	\$ 135,100.00	\$ (0.00)	\$ 5,205.74	\$ 111,759.17	\$ 23,340.83	82.72%	\$ 10,825.00
208.906	Debit Services	\$ 18,509.00	\$ 18,509.00	\$ -	\$ 1,542.10	\$ 18,505.20	\$ 3.80	99.98%	\$ (7,160.49)
208.211	Transfer Out General Fund	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	N/A	N/A
EXPENDITURES TOTAL		\$ 782,451.00	\$ 798,826.00	\$ (0.00)	\$ 71,793.00	\$ 717,464.69	\$ 81,361.31	89.81%	\$ 100,612.03

LINCOLN BRICK

	Revenue Source		Current Month	YTD Collected		Accounts Receivable	2019/2020	
							Monthly	Year to Date
	Gate Receipts		\$ 232.00	\$ 11,702.57			\$ 1,678.28	\$ 15,593.21
	Site Receipts		\$ 100.00	\$ -			\$ 130.00	\$ 995.00
	Reimbursements/Donations		\$ -	\$ 1,828.00			\$ -	\$ -
	Residence		\$ 500.00	\$ -			\$ 500.00	\$ 6,000.00
765.671.675.000	TOTAL REVENUE		\$ 832.00	\$ 13,530.57		\$ -	\$ 2,308.28	\$ 22,588.21

765.007.001	Lincoln Brick Fund Balance:	\$ 123,558.63
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765.007.000	Lincoln Brick Perpetual Fund Balance:	\$ 68,669.45
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Eaton County
Department of Construction Codes

1045 Independence Boulevard, Charlotte, Michigan 48813
Telephone: (517) 543-3004 Fax: (517) 543-9924

MONTHLY ACTIVITY REPORT

For: Mr. John Fuentes, County Controller
From: Gene Bryan, Director

September 2020	October 2020	November 2020	December 2020	January 2021	February 2021	March 2021	April 2021	May 2021	June 2021	July 2021	August 2021	September 2021
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1. Code Violations not related to inspections:

14	15	13	20	11	8	4	11	8	11	15	8	18
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2. Commercial projects submitted for Plan Review:

1	0	0	1	1	2	2	3	1	0	1	1	3
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3. Complaints about Contractors:

0	1	0	0	0	0	0	0	1	0	0	0	0
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4. Construction Code Surveys:

0	0	0	0	0	0	0	0	0	2	4	2	4
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5. Court Cases:

0	0	0	0	0	0	0	0	0	0	0	0	0
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6. Magistrate Hearings:

0	0	0	0	0	0	0	0	0	0	0	0	0
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2,560 Sq. Ft. Fleet services office bldg.
7,200 Sq. Ft. Welding and repair shop
5,300 Sq. Ft. Renovation First Baptist Church



Eaton County Department of Construction Codes

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Telephone: (517) 543-3004 Fax: (517) 543-9924

"OUR GOAL IS TO PROVIDE A SAFER PLACE TO LIVE, WORK AND PLAY"

Gene Bryan Director Building Official Building Inspector Electrical Inspector Mechanical Inspector Plan Reviewer	Bob Simons Building Inspector Plan Reviewer	Vernon Camp Jr. Plumbing Inspector Plan Reviewer
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SINGLE FAMILY HOUSING UNITS

Respective Calendar Years

YEAR	SINGLE WIDE (MH)	DOUBLE WIDE (MFG) (DW)	SITE BUILT (N)	YEARLY TOTAL
2006	0	2	123	125
2007	0	0	86	86
2008	0	1	39	40
2009	2	3	12	17
2010	7	19	22	48
2011	3	7	28	38
2012	7	14	35	56
2013	10	37	40	87
2014	7	48	40	95
2015	20	39	43	102
2016	8	27	57	92
2017	8	12	59	79
2018	3	6	66	75
2019	8	5	53	66
2020	2	2	62	66
2021 Last Month	1	1	3	5
2021 YTD	4	8	54	66

Eaton County Department of Construction Codes

County Wide Housing Starts Total

		January	February	March	April	May	June	July	August	September	October	November	December	Y.T.D. TOTAL	2020 Totals	2019 Totals
Charlotte	Site Built	1	3	2	1	X	X	X	X	X	X	X	X	7	17	9
	Mobile Homes	0	0	0	1	X	X	X	X	X	X	X	X	1	4	4
	Totals	1	3	2	2	0	0	0	0	0	0	0	0	8	16	13
Delta Twp.	Site Built	1	3	3	5	2	9	2	5	6				36	36	28
	Mobile Homes	0	0	0	0	0	0	0	0	0				0	11	11
	Totals	1	3	3	5	2	9	2	5	6	0	0	0	36	35	39
Eaton County	Site Built	4	6	7	4	5	9	11	5	3				54	60	53
	Mobile Homes	0	1	0	2	1	2	1	3	2				12	4	13
	Totals	4	7	7	6	6	11	12	8	5	0	0	0	66	64	66
Eaton Rapids	Site Built	0	0	1	0	1	0	0	0	0				2	3	4
	Mobile Homes	0	0	0	0	0	0	0	0	6				6	0	0
	Totals	0	0	1	0	1	0	0	0	6	0	0	0	8	3	4
Grand Ledge	Site Built	2	3	2	2	1	0	7	2					19	14	14
	Mobile Homes	2	0	0	0	0	0	0	0					2	6	0
	Totals	4	3	2	2	1	0	7	2	0	0	0	0	21	20	14
Oneida	Site Built	1	0	0	0	0	0	1	0					2	5	4
	Mobile Homes	0	0	0	0	0	0	0	0					0	0	0
	Totals	1	0	0	0	0	0	1	0	0	0	0	0	2	5	4
County Wide Total		11	16	15	15	10	20	22	15	17	0	0	0	141	143	140

X = Not reported.

Eaton County Department of Construction Codes

PERMIT APPLICATIONS: MONTH BY MONTH 2011-2020

Year	Trade	January	February	March	April	May	June	July	August	September	October	November	December	YEAR TOTAL
2012	Building	4	15	30	30	29	33	36	34	30	36	19	16	312
	Mechanical	51	36	38	31	34	43	48	52	44	71	62	48	558
	Electrical	26	25	38	37	37	49	55	56	45	56	28	32	484
	Plumbing	19	12	23	24	17	27	26	31	14	20	14	19	246
MONTHLY TOTAL		100	88	129	122	117	152	165	173	133	183	123	115	1600
2013	Building	13	16	20	23	34	35	51	54	47	37	24	11	365
	Mechanical	42	38	37	57	42	44	61	39	44	61	65	43	573
	Electrical	30	15	27	58	34	50	52	47	44	68	40	29	494
	Plumbing	19	18	16	16	19	27	28	27	25	28	12	11	246
MONTHLY TOTAL		104	87	100	154	129	156	192	167	160	194	141	94	1678
2014	Building	13	17	15	38	44	43	33	69	57	48	31	66	474
	Mechanical	46	35	39	40	30	58	53	53	71	78	55	100	658
	Electrical	44	30	35	36	43	59	55	36	55	85	43	50	571
	Plumbing	21	17	20	23	21	29	24	17	22	21	18	47	280
MONTHLY TOTAL		124	99	109	137	138	189	165	175	205	232	147	263	1983
2015	Building	39	20	34	43	61	54	36	51	42	49	29	19	477
	Mechanical	88	29	50	38	50	59	46	50	55	65	61	47	638
	Electrical	53	54	53	41	51	81	54	52	49	59	43	40	630
	Plumbing	45	10	22	24	40	24	25	28	24	26	22	13	303
MONTHLY TOTAL		225	113	159	146	202	218	161	181	170	199	155	119	2048
2016	Building	23	19	21	45	45	67	58	56	57	59	44	28	522
	Mechanical	44	37	48	45	63	78	48	57	56	84	88	64	712
	Electrical	29	37	39	48	70	78	53	58	65	80	71	39	667
	Plumbing	20	20	23	26	32	34	29	33	22	31	23	24	317
MONTHLY TOTAL		116	113	131	164	210	257	188	204	200	254	226	155	2218
2017	Building	24	29	31	36	61	58	45	53	52	42	24	24	479
	Mechanical	51	50	61	50	60	53	49	67	68	75	78	44	706
	Electrical	36	40	59	48	64	62	57	73	58	78	55	45	675
	Plumbing	25	39	24	30	31	26	22	39	27	28	24	15	330
MONTHLY TOTAL		136	158	175	164	216	199	173	232	205	223	181	128	2190
2018	Building	14	21	49	53	58	60	67	64	53	54	31	27	551
	Mechanical	63	47	47	46	52	71	63	88	52	106	64	67	766
	Electrical	32	38	41	49	67	78	70	71	80	76	54	54	710
	Plumbing	24	17	20	31	27	36	27	37	21	25	12	23	300
MONTHLY TOTAL		133	123	157	179	204	245	227	260	206	261	161	171	2327
2019	Building	24	25	28	54	64	50	46	59	48	58	37	28	521
	Electrical	38	40	55	78	79	53	84	70	69	71	68	62	767
	Mechanical	51	40	43	56	66	65	71	51	53	103	65	62	726
	Plumbing	15	16	17	39	24	26	36	32	29	40	25	35	334
MONTHLY TOTAL		128	121	143	227	233	194	237	212	199	272	195	187	2348
2020	Building	18	28	20	6	53	55	71	74	47	66	45	31	514
	Electrical	62	48	43	8	49	79	85	99	93	80	88	69	803
	Mechanical	74	47	39	12	44	75	85	73	70	106	88	79	792
	Plumbing	24	30	22	11	20	32	47	45	35	39	33	30	368
MONTHLY TOTAL		178	153	124	37	166	241	288	291	245	291	254	209	2477
2021	Building	29	40	52	108	58	86	69	65	71				578
	Electrical	68	42	81	95	75	94	84	97	76				712
	Mechanical	62	68	81	85	69	81	85	93	68				692
	Plumbing	24	27	29	56	31	28	50	36	43				324
MONTHLY TOTAL		183	177	243	344	233	289	288	291	258	0	0	0	2306

Eaton County Department of Construction Codes

INSPECTIONS: MONTH BY MONTH 2011-2020

Year	Trade	January	February	March	April	May	June	July	August	September	October	November	December	Year Total
2012	Building	40	49	75	131	156	94	163	160	106	120	84	67	1245
	Mechanical	47	64	50	47	59	45	150	60	83	79	88	86	858
	Electrical	65	71	88	76	91	79	149	127	63	112	67	86	1074
	Plumbing	19	24	34	36	56	38	66	53	46	36	42	26	476
MONTHLY TOTAL		171	208	247	290	362	256	528	400	298	347	281	265	3653
2013	Building	45	45	96	144	88	74	113	184	173	185	129	82	1358
	Mechanical	65	43	134	113	57	56	56	65	50	71	71	62	843
	Electrical	43	53	135	133	75	57	77	93	80	99	76	69	990
	Plumbing	25	35	46	45	34	41	50	52	41	60	39	24	492
MONTHLY TOTAL		178	176	411	435	254	228	296	394	344	415	315	237	3683
2014	Building	72	67	50	117	140	144	144	118	187	183	162	156	1540
	Mechanical	66	61	45	52	43	46	64	58	66	93	68	77	739
	Electrical	73	74	57	36	72	61	101	105	99	103	83	95	959
	Plumbing	34	39	25	23	45	48	54	42	49	59	31	31	480
MONTHLY TOTAL		245	241	177	228	300	299	363	323	401	438	344	359	3718
2015	Building	89	79	132	145	171	166	216	182	161	192	176	135	1844
	Mechanical	88	49	73	74	109	109	78	66	71	92	78	74	961
	Electrical	90	68	101	78	89	84	102	114	106	140	88	99	1159
	Plumbing	35	51	34	88	72	72	52	63	58	53	51	74	703
MONTHLY TOTAL		302	247	340	385	441	431	448	425	396	477	393	382	4667
2016	Building	97	77	109	126	199	199	191	216	189	227	187	168	1985
	Mechanical	73	61	50	48	63	90	57	68	82	105	81	98	876
	Electrical	67	63	62	67	98	134	94	118	101	105	143	110	1162
	Plumbing	45	38	41	59	57	58	47	65	57	44	49	44	604
MONTHLY TOTAL		282	239	262	300	417	481	389	467	429	481	460	420	4627
2017	Building	107	105	156	129	195	197	187	195	236	214	164	121	2006
	Mechanical	92	97	77	60	117	57	60	87	95	79	76	82	979
	Electrical	93	97	97	82	136	105	103	157	131	116	100	104	1321
	Plumbing	46	46	74	47	49	49	42	68	61	53	37	29	601
MONTHLY TOTAL		338	345	404	318	497	408	392	507	523	462	377	336	4907
2018	Building	114	98	157	182	222	225	273	310	241	283	202	159	2466
	Mechanical	79	72	75	59	71	76	83	73	90	120	110	85	993
	Electrical	35	89	105	88	109	140	133	106	123	152	156	134	1370
	Plumbing	40	39	39	30	47	50	53	60	46	49	42	39	534
MONTHLY TOTAL		268	298	376	359	449	491	542	549	500	604	510	417	5363
2019	Building	157	125	131	189	220	240	267	239	262	273	190	219	2512
	Electrical	93	83	103	122	124	122	123	132	115	150	119	110	1396
	Mechanical	87	75	91	96	82	91	87	100	67	113	84	67	1040
	Plumbing	34	35	37	52	49	35	45	45	43	57	47	48	527
MONTHLY TOTAL		371	318	362	459	475	488	522	516	487	593	440	444	5475
2020	Building	174	141	116	9	146	206	236	272	263	274	256	277	2370
	Electrical	108	106	74	8	102	112	137	144	148	154	146	146	1385
	Mechanical	89	77	46	4	63	118	79	104	118	149	141	200	1188
	Plumbing	59	48	35	1	44	53	65	57	77	104	81	50	674
MONTHLY TOTAL		430	372	271	22	355	489	517	577	606	681	624	673	5617
2021	Building	187	134	204	244	329	292	319	322	300				2331
	Electrical	146	94	147	130	128	130	136	132	137				1180
	Mechanical	151	145	184	169	116	115	125	140	112				1257
	Plumbing	68	57	71	59	46	59	65	48	69				542
MONTHLY TOTAL		552	430	606	602	619	596	645	642	618	0	0	0	5310



PROPOSAL/WORK AUTHORIZATION

EATON COUNTY
RECYCLING PROGRAM ANALYSIS AND
RECOMMENDATIONS
OCTOBER 8, 2021

PROJECT OBJECTIVE

The purpose of this project is to conduct an analysis of the current recycling services in Eaton County and provide recommendations to Eaton County on steps towards cost-effective county-wide recycling programs. RRS will work with Eaton County Resource Recovery Coordinator and County leadership as appropriate. RRS will strive to conduct the work in ways that build on the prior efforts of the County to reach higher levels of recycling program sustainability and performance.

PROJECT PLAN

1. Analyze Eaton County's Local Government Recycling Services
2. Determine County-Wide Recycling System Options and Approximate Costs
3. Recommendations for Recycling System
4. Attend Virtual Eaton County Meetings as Required

PROJECT BUDGET

Total project budget: \$9,500

TIMELINE

Start Date: Nov 1, 2021

End Date: February 15, 2022



II. PUPOSE OF STUDY

background

Eaton County has been able to support local government recycling services for more than 20 years through a County wide hauler licensing ordinance. They have successfully funded these programs with an annual Solid Waste Alternatives Grant Program (SWAG). In recent years, though, many of these programs are experiencing difficulties, both due to the pandemic as well as rising costs and unstable turbulent recycling markets. The County has been taking steps, through the Department of Resource Recovery and their Director of Resource Recovery, to find solutions, but with little success. The purpose of the work plan that follows is to conduct an analysis of those current recycling services in Eaton County and the mechanism for funding those programs and provide recommendations to Eaton County on steps towards cost-effective county-wide recycling services, building on the strengths of the local government programs where possible and bringing new solutions in as needed. In performing this work, RRS will work with Eaton County Resource Recovery Coordinator and County leadership as appropriate. RRS will strive to conduct the work in ways that build on the prior efforts of the County to reach higher levels of recycling program sustainability and performance.



project approach

RRS uses its recycling systems and operations knowledge to advance forward-thinking materials management and circular economy principles. The Team executes projects with business case justification, actionable solutions, and meaningful impact and serves as a trusted advisor to organizations in the public and private sectors that share the mission to achieve economic, social, and environmental success. Michigan counties and local governments have a unique opportunity to access state funding as well as additional support through the EGLE grant program and EGLE funded NextCycle Michigan Initiative.

project plan

TASK 1 – ANALYZE EATON COUNTY’S LOCAL GOVERNMENT RECYCLING SERVICES

RRS technical advisors will analyze Eaton County’s Local Government Recycling Services and the county-wide funding system and ordinance, through:

- Hosting a virtual kick-off meeting to review goals, objectives, and information to be provided from the County and local governments operating recycling programs in Eaton County.
- Reviewing information provided by Eaton County and other local resources and utilizing state of Michigan, and RRS national and MI specific data as needed to fill in any data gaps, to determine current material diversion by type and approximate volumes, a simple asset inventory as well as cost information where available and to profile the strengths, weaknesses, opportunities, and threats (SWOT) for those programs.



- Preparing a technical memo detailing the analysis and reviewing it with the County's Resource Recovery Director prior to completing Task 3 options evaluation described below.
- Note: Collection of data from external sources beyond the client and local municipalities and publicly available data provided by the state of Michigan is not included in the work scope.

TASK 2 – EVALUATE COUNTY-WIDE RECYCLING SYSTEM OPTIONS AND COSTS

RRS will prepare up to three options for county-wide recycling system improvement, including the advantages and disadvantages of each option in terms of efficacy, level of effort, and estimated annual operating and approximate capital costs, where applicable. Options will be developed from the analysis and discussions with the County and are expected to include an option that builds on the strengths of the current local recycling programs, an option that has one or more operating hubs that will simplify the operational demands on local governments, and an option that provides for more recycling program capacity through public/private partnerships. Funding operations will also be evaluated, including an evaluation of use of EGLE grant programs, NextCycle Michigan services and support, and industry funded recycling program grants and resources, as well as local program funding options available through state statute. RRS will prepare a technical memo detailing the evaluation for discussion with the County Resource Recovery Director prior to completing Task 3 recommendations discussed below.

TASK 3 – DEVELOP WRITTEN RECOMMENDATION ON BEST PRACTICE RECYCLING SYSTEM INCLUDING APPROXIMATE COST AND FUNDING MECHANISM

RRS will develop recommendations on the recycling system approach that is most responsive to the opportunities Eaton County has to improve the effectiveness, sustainability, and operational efficiency of the County wide program. The recommendations will address the approximate cost and funding mechanisms, as well as the appropriate ordinance modifications, if any, required to support the system. RRS will prepare a technical memo detailing the recommendations for discussion with the County Resource Recovery Director prior to completing Task 4 Review Meeting discussed below.

TASK 4 – VIRTUAL EATON COUNTY REVIEW MEETING ON RECOMMENDATIONS.

The RRS Project Team will conduct a virtual review meeting with the appropriate Eaton County leadership to go over the results of the work and discuss the recommendations and potential next steps. RRS will prepare a post-meeting summary and discuss with the County Resource Recovery Director in a follow-up call.

project assumptions

RRS makes the following assumptions for this project:

- Labor estimates include client calls, email communication, project management, task work, and preparation of deliverables.
- Eaton County Resource Recovery Director will provide all available information on current recycling systems operating in the county, any available data, historical context, and contact information for key players.

project deliverables

RRS will provide the following deliverables for this project:

- Technical memo summarizing analysis of current recycling systems operating in Eaton County.



- Technical memo evaluating recycling system options and range of cost estimates.
- Technical memo on recommended recycling system, costs, and funding mechanisms.
- Review presentation to Eaton County leadership

project timeline

Upon receipt of the signed Project Authorization page of the proposal, RRS and the client will identify a start date agreeable to both parties. The following preliminary project timeline will be discussed and confirmed at project authorization.

	NOV	DEC	JAN	FEB
Analysis of Eaton County's local governments recycling services & data	X	X		
Evaluate County-wide Recycling System options and approximate costs		X	X	
Develop Recommendations on Recycling Systems to include approximate costs and funding mechanisms		X	X	X
Review Meeting with Eaton County Leadership	X	X	X	X
Project wrap up/call with Resource Recovery Director				X

III. PROJECT COST

Compensation for this scope of work will be on a fixed cost basis of \$9,500 including all project expenses as described below billed at \$2,000 per month for the first four months and the balance after the final deliverable has been provided. Any work that falls outside of this scope of work will be subject to a change order process where the specific project assignment and budget will be outlined and authorized by both entities. RRS will not execute any out-of-scope work until an authorized change order is in place.

	LABOR COSTS	DIRECT COSTS	TOTAL TASK COST
Analysis of Eaton County's local governments recycling services & data	\$1,500	\$0	\$1,500
Evaluate County-wide Recycling System options and approximate costs	\$3,500	\$0	\$3,500
Develop Recommendations on Recycling Systems to include approximate costs and funding mechanisms	\$2,400	\$0	\$2,400
Review Meeting with Eaton County Leadership	\$1,600	\$0	\$1,600
Project wrap up/call with Resource Recovery Director	\$500	\$0	\$500
TOTAL	\$9,500	\$0	\$9,500



IV. STATEMENT OF QUALIFICATIONS

CAPABILITIES AND SERVICES

what we do

- Plan and implement recycling and composting programs, materials management, and zero waste solutions.
- Develop and facilitate collaborations to increase commodity recovery.
- Develop and implement multi-stakeholder communications and outreach.
- Analyze the recyclability and compostability of packaging.
- Develop strategies for corporate sustainability.
- Evaluate food waste prevention and assess anaerobic digestion and biomass facilities.
- Review and negotiate hauler and MRF contracts.
- Design and permit MRF and composting sites.
- Conduct waste and compliance training.

solid waste/materials management programs

RRS' approach to solid waste management planning incorporates a rigorous strategic planning process along with developing a comprehensive understanding of the entire waste management system through key stakeholder interviews, data collection and analysis, program evaluation, waste generation modeling for various types of wastes and recycled commodities, national scope database utilization for program and generation data for the U.S. and Canada, geographical information system (GIS) application, best practice benchmarking and financial modeling. RRS can update an existing plan, identify the feasibility of alternative options, or build a plan from the ground up, including implementation and community outreach planning.

Clients include Ann Arbor, MI; Warren County, OH; Butler County, OH; Bay City, MI; Portage County, OH; Geauga-Trumbull, OH; Montgomery County, OH; Washtenaw County, MI; Clemson University; Solid Waste Authority of Central Ohio; Northwest Michigan Council of Governments (Networks Northwest); Little Traverse Bay Band of Ottawa Indians.

recycling gap & end markets

RRS has excelled in helping municipalities develop a strong economic foundation for leading waste diversion programs. We bring decades of experience that focus on comprehensive cost and benefit analysis when evaluating waste diversion programs. We have a strong reputation for assisting public sector clients in taking those program recommendations forward with long term forecasting that recognize the costs that are incurred with waste diversion programs, while accounting for the additional revenues, savings and cost reductions that are projected as positive impacts for these programs. This approach brings a truly sustainable materials management framework to real world execution of leading municipal waste diversion programs.

RRS has conducted multiple assessments of local and regional markets for materials that are collected through residential and commercial recycling programs. All of the materials collected and ultimately processed in a recycling program are considered commodities. RRS maintains a database of monthly commodity values for each region of the country for each of the basic commodities typically collected in residential and commercial curbside



programs. The commodity revenues associated with these materials have provided the financial foundation for most recycling programs, whether publicly or privately sponsored.

In reviewing the market trends RRS uses this historical data, in addition to the data from regional market interviews, to evaluate the market demand and commodity prices for fiber, plastics, aluminum and steel. RRS utilizes this information to assist municipal governments in determining the feasibility of developing new market partnerships with other municipalities, in negotiating commodity revenue sharing agreements between a local government and the contracted operator of the publicly owned material recovery facility (MRF) or securing revenue sharing agreements with the private sector MRFs.

Clients include Chippewa County, WI; Tetra Pak/Memphis, TN; Solid Waste Authority of Central Ohio; State of Michigan's Department of Environment, Great Lakes, and Energy (EGLE).

materials recovery facilities

RRS draws on decades of experience in the actual business of running MRFs, to where we can speak with authority on the details of development, operating costs, optimization, maintenance planning, capital renewal and replacement, revenue tracking, revenue sharing and business risk/risk allocation for both the facility operator and the facility owner. RRS has conducted over 150 MRF procurements and over 30 MRF design/build projects in the last three decades. We understand the nuances of the changing waste and recycling streams, the cycles of the commodity value of the "market basket" of recyclables, and the future outlook for sustainable public/private facility operations arrangements. RRS can present and discuss key MRF and transfer station metrics from the deep technical and data resources we have developed over the years, as well as from the experiential understanding that our experts bring to the strategic conversation.

Clients include Chippewa County, WI; National Waste and Recycling Association (NWRA), Solid Waste Association of North America (SWANA); Ohio State University; Southeastern Oakland County Resource Recovery Authority (SOCRRA); Emmet County, MI; Marquette County Solid Waste Management Authority, MI.

collection practices

Efficient collection services are key to any waste and recycling program's success ensuring high customer service is provided at the lowest cost. RRS has worked with cities and haulers to evaluate current routes and provide recommendation and implementation support of improvements. Evaluation of the routes enables the program to stay balanced in service, efficiency, and costs as new areas and service offerings (e.g., organics collection) are developed and as participation in waste diversion activities improves. Many variables must be considered when balancing routes, including number of average stops, distance between stops, single family or multi-family, traffic congestion, parked cars, participation, total tonnage, peak tonnage, automated truck technology and many others.

Clients include Minneapolis, MN; Emmet County, MI.

rfp development, evaluation & negotiation

RRS assists municipal governments and haulers/MRF operators with finding a mutually beneficial agreement to serve community solid waste management needs. RRS has assisted municipal clients in the development of a request for proposal (RFP) for hauling services and a variety of public, private, non-profit owned/operated materials recovery facilities (MRFs). RRS has developed RFPs that seek pricing, revenue share, and residual guarantees for municipalities. We utilize contractual, technical, and financial means to elicit best processing proposals from all



potential service providers. RRS has developed detailed financial modeling tools for MRF development and operation that can be useful for evaluating the financial aspects of vendor proposals including:

- Capital, operating, and residual disposal costs;
- Interest rates, discount rates, amortization/depreciation, consumer price index, fuel adjustments, and equipment salvage costs;
- Revenue and capital cost comparison between multiple jurisdictions; and
- Capital residual value and net present value calculations.

The implementation process and schedule consists of all steps required to complete a successful procurement process including vendor selection, approval, contract negotiations, and start-up.

Clients include Minneapolis, MN; Medina County, OH; Emmet County, MI; Rochester Hills, MI; Orion Township, MI.

rfp response support

RRS assists municipal governments and haulers/MRF operators with finding a mutually beneficial agreement to serve community solid waste management needs. RRS has assisted haulers and MRF operators in the development of a proposal in response to a municipal request for proposal (RFP) for hauling services and a variety of public, private, non-profit owned/operated materials recovery facilities (MRFs). RRS has developed responses that include financial analysis, capital expenditure review, operational and market plan development, identification of additional funding streams/subsidies, and direct RFP question response.

Clients include Eco-Cycle; Recycle Ann Arbor; other entities covered by non-disclosure agreements.

collaborations & partnerships

RRS is an industry-leading recycling consulting service company that develops practical and innovative solutions to sustainably manage materials. Drawing on over 30 years of cross-sector experience and expertise, RRS understands how the recovery value chain works and knows how to develop system solutions that accelerate the recovery of post-consumer material. RRS has a proven record of working collaboratively to implement solutions for a wide variety of plastics, paper, and other commodity recyclables. We have developed regional cooperatives, instituted new or improved recovery programs, and provided business case justification for a myriad of programs across many different waste types and system settings. RRS' audits, analyses and plans provide actionable recommendations that merit implementation. These include the business case analysis and end market development essential to successful recycling projects.

Clients include Carton Council; Glass Recycling Coalition.

outreach & education

A successful recovery or sustainability initiative requires a smart communications strategy, starting with thinking through the diverse challenges, motivators, and situations your audience will face and crafting tactics from that mindset. From there, materials – websites, social media, flyers, newsletters, case studies, reports, mass emails, webinars, or events – should be presented in a location where the audience seeks information and in a way that captures and guides them in an easy to engage format. In the end, efforts must be measured to establish a baseline, plan for improvement, and claim success. RRS employs an in-house, recovery-focused creative team that includes marketing specialists, a graphic designer, social media experts and writers to precisely target your audience – residents, consumers, businesses, suppliers, front line staff, elected officials, complex hauler networks, MRF operators, other stakeholders – and achieve your goals.

Clients include Carton Council; Michigan Recycling Coalition; Materials Recovery for the Future (MRFF); Sustainable Packaging Coalition; Marquette County, MI.



stakeholder facilitation

RRS has facilitated productive decisions through helping disparate stakeholders come together on key issues. Whether it be public hearings, closed boardrooms, discovery roundtables, competitor collaborations, or public/private partnerships, we move the group through a process to make necessary decisions to accomplish mutual goals. RRS provides the external perspective for clarification and conflict resolution while taking care of the tactical elements including identifying the purpose, developing an agenda, establishing ground rules, providing an open environment, involving all participants, and documenting proceedings.

Clients include Southeast Recycling Development Council (SERDC); Carton Council; Glass Recycling Coalition; MedImmune.



PROJECT STAFF RESUMES

RRS has a motivated and mission-driven team of consultants, engineers, and associates with decades of combined experience ready to assist and serve your project needs.

project team

STAFF MEMBER	PROJECT ROLE	YEARS OF EXPERIENCE
Elisa Seltzer	Project Manager, Policy Research, & Technical Memos	34
Jim Frey	Technical Memos	31
Annie White	Data Research, Analysis, & Modeling	21
Kerry Sanford	Collection/Processing	40
Kimberly Velasquez Gutierrez	Communications, Copywriting, & Proofing	12

Resource Recovery Report for Public Works and Planning

October 2021

Solid Waste Alternative Grants:

The department has received all five signed grant agreements for the 2021-2022 program year.

Final fourth quarter reports for the 2020-2021 program year were provided to program participants on 9/27/2021 and are due 10/15/2021. The department has received one report at this time.

Solid Waste Ordinance Hearings:

As a result of issues that remain unresolved, two licensed haulers were notified of the scheduled hearing as part of the departmental report.

- First period Solid Waste Ordinance reporting forms were due 7/15/2021. Liberty Landfill is the one waste hauler who has an outstanding first period report. The waste hauler was notified of the rescheduled hearing on 9/13/2021, mailing receipt for the notification was signed on 9/18/2021.
- The Solid Waste Ordinance requires licensed haulers to carry Commercial General Liability and Motor Vehicle Liability insurance with specific outlined amounts for personal/bodily injury and property damage (\$500,000 each person, accident, aggregate, and occurrence). The department received notification of policy cancellation from Lebron Trash Hauling's previous insurance company in June 2021, this previous policy held was compliant with ordinance requirements. The waste hauler was notified of the scheduled hearing on 9/21/2021 via certified mail, mailing receipt for the notification was signed on 9/25/2021.

Sunfield Recycling Center Pilot Project:

One individual has participated in the agricultural film plastic recycling program at the Sunfield Recycling Center on 9/8/2021. To promote and educate local residents about the program, the department presented at and hosted an exhibit booth at the Eaton Conservation District field day event on 9/15/2021.

Sunfield Recycling Center Annual Material Volume Report

Material Description	2016-2017	2017-2018	2018-2019	2020-2021 (County Operation)
Paper Products - Tons	44.0775	34.3325	67.4445	40.829
Glass Products - Tons	1.998	2.604	1.392	0
Metal Products - Tons	2.282	0	5.695	1.86

Plastic Products - Tons	8.4615	14.583	8.6075	6.354
Total - Tons	56.819	51.5195	83.139	49.043

Collection Events:

All 2021 department collection events have been completed. The department successfully coordinated three large scale collection events for toxic/hazardous and hard to dispose of materials as well as four paper shredding events.

Collection Event Material Volume and Participant Report

	2017-2018	2018-2019	2019-2020	2020-2021
HHW (Including Medications) - lb	88,057	101,268	47,351	87,000
Electronics - lb	86,533	84,035	31,894	68,745
Scrap Tires - lb	65,528.09	101,191	16,292.13	42,337.08
Total Material - lb	240,118.1	286,494	95,537.13	198,082.10
Number of Participants	1,460	1,542	713	1,206
Average Material per Person - lb	164.45	185.79	133.99	164.25

Solid Waste Management Planning:

The department contacted Resource Recycling Systems (RRS), a well-known waste management and recycling consult based out of Ann Arbor, MI, to inquire about Solid Waste Management Planning, the EGLE Nextcycle program, and previous work done for the department. As a result of this, RRS developed a project (attached) proposal to analyze the department's current programs and make recommendations for improvements.

Based on all solid waste management planning research completed, the department recommends proceeding with this path.

Eaton County Resource Recovery
Financial Report
Fiscal Year 2020/21
Through the end of September, 2021

	ORIGINAL BUDGET	ADJUSTED BUDGET	ACTUAL YEAR TO DATE	REMAINING BALANCE	% USED
Revenues					
Administration					
Private Grant	36,000	36,000	4,083.50	(31,916.50)	11%
Resource Recovery Services	4,000	4,000	-	(4,000.00)	0%
Donations	11,000	11,000	12,686.73	1,686.73	115%
Transfers-In	-	-	-	-	0%
Total Administration Revenues	51,000	51,000	16,770.23	(34,229.77)	
Operational Revenues					
Waste Hauler Licenses	2,010	2,010	1,785.00	(225.00)	89%
Solid Waste Surcharge	310,000	310,000	329,383.69	19,383.69	106%
Total Operational Revenues	312,010	312,010	331,168.69	19,158.69	
Total Revenues	363,010	363,010	347,938.92	(15,071.08)	96%
Expenditures					
Administration					
Personnel	126,195	140,071	114,468.33	25,602.67	82%
Supplies	1,850	1,850	1,600.06	249.94	86%
Other Services	7,183	7,183	5,105.50	2,077.50	71%
Debt Service - Vehicle Lease	8,295	8,295	8,294.16	0.84	100%
Transfer Out - General Fund	9,698	9,698	9,698.00	-	100%
Total Administration Expenditures	153,221	167,097	139,166.05	27,930.95	83%
Operational Expenditures					
County Projects	138,050	138,050	108,400.47	29,649.53	79%
Local Projects	133,296	149,876	115,512.47	34,363.53	77%
Total Operational Expenditures	271,346	287,926	223,912.94	64,013.06	78%
Total Expenditures	424,567	455,023	363,078.99	91,944.01	80%
Excess Revenues over Expenses (Net Carryover)	(61,557)	(92,013)	(15,140.07)	76,872.93	16%
Administration					
Revenues	51,000	51,000	16,770.23	(34,229.77)	33%
Expenditures	153,221	167,097	139,166.05	27,930.95	83%
Available Resources from Administration	(102,221)	(116,097)	(122,395.82)	(6,298.82)	
Operations					
Revenues	312,010	312,010	331,168.69	19,158.69	106%
Expenditures	271,346	287,926	223,912.94	64,013.06	78%
Available Resources from Operations	40,664	24,084	107,255.75	83,171.75	
Projected Net Carryover	(61,557)	(92,013)	(15,140.07)	76,872.93	
9/30/2019 Fund Balance	90,395	90,395	90,395		
Projected 9/30/2020 Fund Balance	163,065	163,065	163,065		
Projected 9/30/2021 Fund Balance	101,508	71,052	147,925		

**Eaton County Resource Recovery
Program Update**
Fiscal Year 2020/21
Through the end of September, 2021

	Adopted Budget	Budget Amendments	Amended Budget	YTD Transactions	Amended Budget Less YTD Transactions	% Used
Summary of Programs						
529 - County Programs						
Roadside Cleanup	1,400.00	1,000.00	2,400.00	2,258.62	141.38	94.1%
Household Battery Collection	9,000.00	-	9,000.00	4,867.47	4,132.53	54.1%
Scrap Tire Collection	36,000.00	-	36,000.00	18,716.00	17,284.00	52.0%
Sharps Compliance Program	1,000.00	-	1,000.00	-	1,000.00	0.0%
Household Hazardous Waste Collection	52,500.00	10,000.00	62,500.00	62,442.49	57.51	99.9%
Education/Promotion Programs	13,050.00	(11,900.00)	1,150.00	473.24	676.76	41.2%
Electronic Recycling	21,900.00	-	21,900.00	15,556.45	6,343.55	71.0%
Book Recycling/Paper Shredding	3,200.00	900.00	4,100.00	4,086.20	13.80	99.7%
Total	138,050.00	-	138,050.00	108,400.47	29,649.53	78.5%
530 - SWAG Programs						
Bellevue/Olivet	18,296.00	-	18,296.00	12,554.15	5,741.85	68.6%
Charlotte Area Recycling (CARA)	29,500.00	-	29,500.00	28,629.99	870.01	97.1%
Delta Twp - Recycling Center	30,000.00	-	30,000.00	20,632.13	9,367.87	68.8%
City of Eaton Rapids	17,500.00	-	17,500.00	17,500.00	-	100.0%
City of Grand Ledge - Recycling	23,000.00	-	23,000.00	18,610.18	4,389.82	80.9%
Mulliken Recycling Center	4,500.00	-	4,500.00	3,712.00	788.00	82.5%
City of Pottersville - Recycling	10,500.00	(10,500.00)	-	-	-	0.0%
Sunfield Recycling Center (Pilot Project)	-	27,080.00	27,080.00	13,874.02	13,205.98	51.2%
Total	133,296.00	16,580.00	149,876.00	115,512.47	34,363.53	77.1%



**Community Development and Housing Department Report 9/30/2021
For Public Works & Planning Committee October 13, 2021**

Case Status: (Permits and Applications Activity summarized on attached table):

- The **Planning Commission** met on September 14, 2021 and approved two Conditional Use Permits. One permit was for Home Business in Hamlin Township and the other was for an Agricultural and Home Business in Kalamo Township. Additionally, a change in conditions to an existing Conditional Use Permit was approved in Hamlin Township.
- The **Board of Appeals** did not meet in September due to lack of business.
- The **Zoning Ordinance Committee** met on September 30th, they have another meeting scheduled for October 27.

Zoning and Junk Code Enforcement (Activity is summarized on attached table):

- Currently there are thirty-five (35) junk violations and twenty-four (24) zoning violations.

Housing Department Activities:

- Ms. Williams has had several phone calls from constituents interested in the housing emergency repair program and has mailed out applications to those who have requested.
- The current total Program Income revolving loan fund balance is \$132,871. Total amount to be spent before June 30, 2022 is \$104,100. Three (3) program payoffs have been received since July 1, 2021.

Economic Development Activities:

- Ms. Williams attended (via zoom) a Leap coordinated transportation meeting on September 1. The meeting was in reference to transportation as it relates to economic development specifically.
- Ms. Williams attended the county broadband meeting on September 1st, and also attended a webinar on ARPA funding via zoom.
- On September 16, Ms. Williams attended a meeting at Tri-County Regional Planning in reference to the Resiliency Strategy being developed for our region.
- Ms. Williams received (and forwarded to all locals) six site searches in the month of September.

Veteran Service Activities:

- Ninety-eight (98) Veteran appointments were conducted in September.
- One (1) veteran was transported to the Ann Arbor hospital by a volunteer driver.

Other:

Additionally, Ms. Williams also attended two HUD webinars. One in reference to guidance for our CoC HUD application and other in reference to Covid vaccinations for the homeless population.

Additionally, Ms. Williams attended the following meetings: CARTS, Collaborative Council, Continuum of Care, and Continuum of Care Strategies and Grants Committee.

CASES	Conditional Use Permits		Board of Appeals		Adminis- trative Variances		District Change Amend- ments		Site Plan Reviews		Zoning Referrals		Private Roads		Agricultural Buildings		Lot Line Adjustments		Land Divisions Reviewed		TOTAL	
																					MONTH	
MO/YR	"20"	"21"	"20"	"21"	"20"	"21"	"20"	"21"	"20"	"21"	"20"	"21"	"20"	"21"	"20"	"21"	"20"	"21"	"20"	"21"	"20"	"21"
JAN	2	1	0	0	0	0	0	0	0	0	8	18	0	0	1	3	2	5	2	4	15	31
FEB	0	1	0	1	0	0	0	0	3	0	14	8	0	0	1	1	2	2	4	1	24	14
MARCH	2	0	0	1	0	0	2	0	0	1	12	31	0	1	0	6	3	2	4	5	23	47
APRIL	3	1	1	0	0	0	0	2	0	0	2	38	0	0	1	8	1	3	1	4	9	56
MAY	0	0	1	0	1	0	0	0	0	2	32	39	0	0	2	4	4	2	2	4	42	51
JUNE	0	3	0	2	0	0	0	1	0	0	34	33	0	0	2	0	1	4	0	2	37	45
JULY	1	1	0	0	0	0	1	0	1	0	42	27	0	0	3	1	1	7	3	2	52	38
AUG	0	1	1	1	0	0	0	0	0	1	41	31	0	0	2	2	2	4	2	6	48	46
SEPT	0	4	3	0	0	0	0	0	1	0	26	25	0	0	2	3	5	3	3	4	40	39
OCT	1	2	0	0	0	0	0	0	1		36		1		2		7		1		49	2
NOV	0	0	0	0	0		0	2	0		20		0		1		5		4		30	2
DEC	1		1		0		0		0		17		0		1		5		2		27	0
TOTALS	10	14	7	5	1	0	3	5	6	4	284	250	1	1	18	28	38	32	28	32	396	371

CASES	JUNK	JUNK	JUNK	JUNK	ZONING	ZONING	ZONING	ZONING
	(NEW)	(NEW)	(CLOSED)	(PENDING)	(NEW)	(NEW)	(CLOSED)	(PENDING)
		2020 carryover: 33				2020 carryover: 11		
MO/YR	2020	2021	2021	2021(PENDING)	2020	2021	2021	2021(PENDING)
JAN	3	0	1	33	0	3	0	11
FEB	0	1	0	34	1	1	2	10
MARCH	3	0	0	34	5	1	1	10
APRIL	0	2	0	36	0	1	1	10
MAY	0	5	2	39	0	8	4	14
JUNE	3	2	1	40	0	0	1	13
JULY	8	2	6	36	7	7	1	19
AUG	2	1	0	37	1	4	0	23
SEPT	3	0	2	35	1	3	2	24
OCT	1				5			
NOV	1				1			
DEC	2				2			
TOTALS	23	13	12	35	23	28	12	24
			TOTAL PENDING JUNK & ZONING VIOLATIONS					59



Via Email

October 5, 2021

Mr. John Fuentes
Eaton County Controllers Office
1045 Independence Blvd.
Charlotte, MI 48813

Re: **Semi-Annual Groundwater Monitoring – September 2021**
Eaton County Landfill

Dear Mr. Fuentes:

This letter has been prepared in association with the second semi-annual groundwater and surface-water sampling event of 2021 at the referenced site. Sampling was conducted on September 14 through 16, 2021. During this sampling event, static water levels were measured in 16 monitoring wells, groundwater samples were collected from 15 monitoring wells (MW-2s, MW-2d, MW-3, MW-7r, MW-8s, MW-8dr, MW-10s, MW-10d, MW-12r, MW-15s, MW-15d, MW-17s, MW-17d, MW-18s, and MW-19s), and two surface-water samples (SW-1 and SW-2) were obtained. A groundwater sample was not collected from MW-16, because the well has deteriorated and does not recharge sufficiently during the sampling event to allow for the collection of a representative sample. Attachment 1 contains a summary of the measured static water levels and elevation data, Attachment 2 contains copies of the laboratory analytical report for the 15 groundwater and 2 surface-water samples, Attachment 3 contains a summary table of the analytical results, and Attachment 4 includes "Groundwater Monitoring Field Data Sheets", all associated with this sampling event.

Groundwater surface elevation data (Attachment 1) for the shallow and deep wells were plotted on a site map and contoured using the computer code SURFER®. The resultant groundwater surface elevation contour maps are presented as Figure 1 (shallow wells) and Figure 2 (deep wells). Examination of the elevation data/contours on these figures indicates groundwater migrates toward the northwest, which is consistent with historic data.

Review of the analytical data from the monitor well samples indicates that results are similar to previous sampling events. Volatile organic compounds (VOCs) were not detected at or above their compound-specific reporting limits in any of the groundwater samples except MW-15s and MW-17s. The groundwater sample from MW-17s contained vinyl chloride (1.4 µg/l), and MW-15s had benzene (2.3 µg/l), 1,1-dichloroethane (4.7 µg/l), 1,2-dichloroethane (2.6 µg/l) cis-1,2-dichloroethene (86 µg/l), trans-1,2-dichloroethene (4.0 µg/l), 1,2-dichloropropane (1.8 µg/l), diethyl ether (22 µg/l), trichloroethene (17 µg/l) and vinyl chloride (5.5 µg/l). Of these reported VOC concentrations, the cis-1,2-dichloroethene, diethyl ether, trichloroethene, and vinyl chloride concentrations in MW-15s exceed their respective Drinking Water (DW) Generic Residential Cleanup Criteria (GRCC) of 70, 10, 5, and 2 µg/l.

Inorganic and metal analytical results for both groundwater and surface water samples indicate that the reported concentrations of all parameters, except arsenic, iron, manganese, zinc, and total dissolved solids (TDS) are either below their respective reporting limits and/or GRCC, if published. Arsenic was detected above its reporting limit in the samples from MW-10s, MW-10d, MW-12r, MW-17s, MW-17d, MW-18s, MW-19s, and SW-1 at concentrations ranging from 5.1 µg/l (MW-10s) to 47 µg/l (SW-1). Of the wells in which arsenic was detected, only the concentration in MW-17s (11 µg/l) exceeds its 10 µg/l DW GRCC. Iron was detected in all of the water samples (except the samples from MW-8s, and MW-8dr) at concentrations that range from 210 µg/l (MW-2d) to 19,000 µg/l (SW-1). The reported iron

concentrations exceed its DW GRCC (300 µg/l) in all of the well samples in which it was detected except MW-2d, MW-3, and MW-15s. It should be noted that the 300 µg/l DW GRCC for iron is an aesthetic criterion. The health based DW GRCC for iron is 2,000 µg/l. Manganese was detected in the water samples obtained from MW-2s, MW-3, MW-7r, MW-8dr, MW-12r, MW-15s, MW-17s, MW-19s, SW-1, and SW-2 at concentrations that range from 32 µg/l (MW-17s) to 770 µg/l (MW-15d). The reported manganese concentrations detected in groundwater samples collected from MW-2s, MW-3, MW-7r, MW-8dr, MW-12r, MW-15s, MW-15d, and MW-19s exceed its aesthetic DW GRCC of 50 µg/l. The health based DW GRCC for manganese is 860 µg/l. Zinc was detected in each of the water samples except MW-7r, MW-8dr, MW-12r, MW-19s, SW-1 and SW-2. Zinc concentrations in the samples range from 94 µg/l (MW-10d) to 6,000 µg/l (MW-15s). The reported zinc concentrations in MW-15s (6,000 µg/l), MW-15d (4,300 µg/l) and MW-17d (5,600 µg/l) exceed zinc's DW GRCC of 2,400 µg/l. All groundwater and surface water samples contained TDS (total dissolved solids) at concentrations that range from 260,000 µg/l (MW-2s) to 770,000 µg/l (MW-15s). The TDS concentrations in MW-10s, MW-12r, MW-15s, MW-15d, MW-17d, and MW-19s exceed their DW and Groundwater/Surface Water Interface (GSI) GRCC of 500,000 µg/l. Surface water quality results have not been compared to the Rule 57 criteria.

The next semi-annual sampling event is scheduled for March 2022. Please note that MW-12r is hydrogeologically anomalous with respect to the other wells at the site and, in our opinion, does not provide any useful data with respect to semi-annual monitoring at this site. Strata will, therefore, eliminate MW-12r from future monitoring beginning March 2022.

Should you have any questions or comments, please do not hesitate to contact our office at (517) 676-6900.

Sincerely,

STRATA ENVIRONMENTAL SERVICES, INC.



Michael C. Serafini, CPG
Principal

Encls.

Cc: Mr. Evin Maguire (EGLE)

R.B. 