

Huron Soil and Water Conservation District

8 Fair Road, Norwalk, Ohio 44857

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HURON COUNTY
COMMISSIONERS

HURON COUNTY DITCH MAINTENANCE PROGRAM

GROUP PROJECT INSPECTION REPORT FOR 2019

MAY , 2019

SUBMITTED BY:

Aaron Robinson

DITCH MAINTENANCE SUPERVISOR

HURON SOIL AND WATER CONSERVATION DISTRICT

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HURON COUNTY DITCH MAINTENANCE PROGRAM
2019 ANNUAL INSPECTION REPORT

To Whom It May Concern:

All the groups on the county maintenance program are to be inspected annually (6137.06 Ohio Revised Code). The condition of the project is noted. The problems observed and/or repairs or maintenance needed are recorded. An estimate of the probable amount of funds needed for the repairs is determined for each project.

The inspections for all 90 projects on the maintenance program were completed in January, March, April and May 2019 by Aaron Robinson, Nathan Watt and owners.

A spreadsheet, which shows the different types and quantities of the repairs needed for each group, is also included. A total of the estimated costs to repair each group are on the spreadsheet.

A list of the maintenance work codes, estimated costs for each code, and the labor and equipment costs are included in this report.

For answers to the questions you have about the 2019 annual inspection report and the ditch maintenance program, contact Aaron Robinson.

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HURON COUNTY DITCH MAINTENANCE PROGRAM

MAY , 2019

Code	Types of maintenance work	Code	Types of maintenance work
API	Access pipe installation	SBR	Silt bar removal
BCO	Bottom clean out	SBP	Stream bank protection
BSR	Bank sloughing repair	SDR	Stone and debris removal
BWD	Bank washout repair-dirt	SPI	Splash pad installation
BWP	Bank washout repair-pipe	SPB	Spray brush
BWR	Bank washout repair-rock	SPC	Spray cattails
CSD	Cut surface drain	SPL	Spoil leveling
AIN	Annual inspection	STB	Spot treat brush
MOW	Mowing	STR	Structure repair
MSC	Miscellaneous	TLR	Tile repair
RMB	Review maintenance bases	TRR	Tree removal
SDG	Seeding	WBR	Waterway or ditch bottom repair
RFL	Bank washout repair-rill fill	AGI	Animal guard installation
TP1	Tile outlet pipe installation (8" or smaller)		
TP2	Tile outlet pipe installation (10" or larger)		
GSP	Brush and broadleaf weed spraying-ground equipment		
IRP	Install riser pipe on tile main		

HURON COUNTY DITCH MAINTENANCE PROGRAM

ESTIMATED COSTS FOR 2019 ANNUAL INSPECTION REPORT

Code	Type of maintenance work	Estimated Cost
SBR	Silt bar removal	\$2.00/foot
BCO	Bottom clean out	\$1.00/foot
SBP	Stream bank protection	\$30.00/foot 601-C rip-rap
BSR	Bank sloughing repair	\$3.00/foot shaping and seeding
SDR	Stone and debris removal	\$115.00/hour 1 laborer + equip.
BWD	Bank washout repair-dirt	\$115.00/hour 1 laborer + equip.
SPI	Splash pad installation	\$36.00/ton
BWP	Bank washout repair-pipe	\$1,080 40' of 18" plastic (n12)
BWR	Bank washout repair-rock	\$36.00/ton
		Rill Fills; 3 ton = \$108.00
		Mini Rock Chute; 12 ton = \$432.00
		Reg. Rock Chute; 40 ton = \$1,440.00
GSP	Brush and weed spraying	\$700.00/mile
SPC	Spray cattails	\$200.00/mile
CSD	Cut surface drain	\$115.00/hour 1 laborer + equip.
TRR	Tree removal	\$115.00/hour 1 laborer + equip.
STB	Spot treat brush	\$200.00/mile
SPL	Spoil leveling	\$115.00/hour 1 laborer + equip.
AIN	Annual inspection	\$175.00/mile
STR	Structure repair	\$36.00/ton rock chutes
AGI	Animal guard installation	\$30.00 each
TLR	Tile repair	\$15/foot
SDG	Seeding	\$130.00/hour 1 laborer + seed

HURON COUNTY DITCH MAINTENANCE PROGRAM

ESTIMATED COSTS FOR 2019 ANNUAL INSPECTION REPORT

Code	Type of maintenance work	Estimated Cost
TP1	Tile outlet pipe installation (8" or smaller)	\$150.00 each
TP2	Tile outlet pipe installation	10" = \$220.00
	(10" or larger)	12" = \$280.00
		15" = \$360.00
		18" = \$540.00
		24" = \$760.00
API	Access pipe installation	25' of 10" & 12"; \$600.00
IRP	Install riser pipe on tile main	\$600.00

**HURON SWCD
LABOR AND EQUIPMENT COSTS FOR 2019**

LABOR RATES:

Aaron Robinson	\$22.00/hour	Basic salary
Overhead cost	\$42.92/hour	This rate includes all indirect time and benefits, benefits for direct time, plus administrative charges

EQUIPMENT: (owned by Huron SWCD)

Kubota RTV	\$40.00/hour
Backhoe	\$40.00/hour
Chain saw	\$40.00/Day
Power pruner	\$40.00/day
Ford Dump Truck	\$1.57/mile
Dual tandem axle trailer	no charge

HURON COUNTY DITCH MAINTENANCE PROGRAM

BASIC INFORMATION FOR OPEN CHANNELS AND WATERWAYS AS OF 6-13-19
FOR 2019 ANNUAL INSPECTION REPORT

COURT HOUSE NUMBER =====	GROUP NAME =====	HURON SWCD NO. =====	TOWNSHIP =	TYPE OF PROJECT =====	LENGTH MILES =====	WATERSHED ACRES =====
11-100	Beecher-Dalton	1	Wakeman	O	1.25	1,119
11-320	Hintz-Kluding	3	Bronson	O	1.38	365
11-700	Scheid-Ruffing	13	Peru, Sherman	O	2.69	725
11-600	Ruess-Hansberger	17	Bronson, Hartland	O	4.39	2,068
11-540	Parker-Vogel	23	Fairfield, Fitchville	O	2.89	1,617
11-900	Martin-Mitchell	29	Ridgefield	O	1.22	276
11-860	Yingling-Bollenbacher	31	Lyme, Sherman	O	2.48	1,162
11-660	Saunders-Marquis	34	New London, Fitchville	O	0.23	100
11-060	Ball-Swander	35	Lyme	O	1.33	512
11-820	Wahl-Myers	37	Sherman	O	0.72	207
11-150	Tester Lateral	39	Hartland	O	1.31	743
11-520	Palm-Vogel	42	Fairfield	O	1.19	1,165
11-680	Schaffer-Sparks	43	Peru	O	0.72	496
11-500	Norman-Fishbaugh	52	Bronson	O+W	1.34	403
11-230	Carpenter-Smith	60	Richmond	O	1.86	1,169
11-560	Phillips-Donnamiller	65	Norwich	O	0.87	378
11-160	Buurma-Hershiser	73	New Haven	O	1.45	445
11-210	Adams-Snay	74	Richmond	O	1.91	1,340
11-880	Latham County	76	Lyme, Sherman	O	6.17	2,121
11-200	Cawrse-Chandler	82	Fitchville, Hartland	O	1.33	401
11-480	Nagel-Preslan	85	Wakeman	O	0.76	345
11-300	Nagel-Seasley	91	Richmond	O	0.78	585
11-130	Hurst-Wolfe	93	Hartland, Townsend	O	5.83	2,523
11-940	Green Group	94	Lyme	O	2.25	1,155
11-250	Roth Group	95	Norwich	O	2.58	1,041
11-580	Feichtner Group	96	New Haven	O+W	1.89	842
11-180	Buurma-Holthouse	99	Richmond, New Haven	O	0.63	565
11-920	Setchel-Turner	104	Sherman, Thompson (Seneca)	O	1.14	1,018

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=====	=====	=====	=====	=====	=====	=====
11-290	Gates Group	105	Peru	O	0.25	184
11-440	Miller-French	106	Wakeman	O	0.61	455
11-780	Stacklin-Stockmaster	108	Norwich, Sherman, Reed (Seneca)	O	3.66	1,430
11-740	Smith-Tester	109	Clarksfield	O	0.32	228
11-640	Ruffing Group	110	Sherman	O	0.61	121
11-280	Gawron Group	113	Wakeman	O	0.78	237
11-260	Dalton-Stackhouse	117	Wakeman	W+T	1.08	122
11-760	Smith-West	118	Greenfield	O+T	1.22	530
11-840	Wolfe-Ward	119	Hartland, Fitchville	O	1.65	437
11-380	Lyon-Verburg	120	Ripley	O	0.7	701
11-340	Indian Creek	121	Hartland, Fitchville	O	4.24	4,043
11-360	Johannsen-Fritz	122	Hartland	O	1.33	568
11-140	Bridle-Wiles	123	New Haven	O	0.57	226
11-620	Ruess-Olcott	124	Bronson, Hartland	O	4.43	1,008
11-125	Buckingham Group	125	New Haven	O	0.82	404
11-720	Seel-Heyman	126	Ridgefield	O	0.27	103
11-460	Montgomery-Eitle	127	Richmond	O	0.49	175
11-800	Stone-Clayton	128	Ridgefield, Lyme	O	2.33	603
11-040	Adelman-Ott	129	Peru, Bronson, Ridgefield	W+T	0.32	813
11-240	Dalton-Dalton	130	Wakeman	W+T	0.19	116
11-400	Martin-McMahon	131	Ridgefield	O	0.47	777
11-120	Bilton Lateral	135	Hartland	O	0.8	217
11-190	Jackson-Garrett	136	Hartland, Fitchville	O	1.78	1,038
11-980	Bilton-Dunlap	138	Hartland, Clarksfield	O	0.7	296
11-070	Tester-Bilton	139	Hartland, Clarksfield	O	1.55	2,016
11-220	Chapin-Jackson	144	New London	O	0.97	564
11-970	Megginson Creek	147	Lyme, Sherman, Thompson (Seneca)	O	12.14	4,815

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COURT HOUSE NUMBER	GROUP NAME	HURON SWCD NO.	TOWNSHIP	TYPE OF PROJECT	LENGTH MILES	WATERSHED ACRES
=====	=====	=====	=	=====	=====	=====
11-420	Martin-McMahon Lat.	157	Ridgefield	O	0.45	96
11-080	Barnes-Wacker	158	Clarksfield	O	0.49	232
11-090	Smith-Stotz	161	Peru, Greenfield	O	0.12	151
11-110	Allison-Davis	162	Hartland	O	0.42	147
11-030	McClaflin-Schmidt	163	Clarksfield	O	0.3	492
11-170	Donnamiller-Hay	164	Sherman, Norwich	O	0.26	129
11-050	Wolfe-Eitle	169	Richmond	O	0.21	182
11-310	Fischer-Krumwiede	182	Hartland, Townsend	O	0.71	170
11-470	Burras Group	186	Hartland	O	0.47	482
11-450	Smith-Scheid	190	Peru	O	0.07	40
11-430	Stockmaster-Puckett	191	Richmond	O	0.14	48
11-194	Roeder-Fitch	194	Ridgefield	O	0.15	273
11-195	Willard Diversion Ditch	195	Greenfield, New Haven	O	0.92	1,100
11-199	Sparks-Hutchinson	199	New Haven	O	0.59	255
11-214	Schmidt-Anderson	214	New London	O	0.08	47
11-223	Bartow-Griffin	223	Townsend	O	0.22	29
11-228	Skellinger Ditch	228	New London	O	1.55	591
11-257	Sutorious Way Ditch	257	Fitchville	O	0.36	40
11-258	Franklin-Adams	258	Fitchville	O	1.78	3,670
11-045	Griffith-Brown Tile	269	Bronson			
11-499	Coder-wector	500	Richmond			
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TOTALS					106.16	55,285

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COURT HOUSE NUMBER	GROUP NAME	HURON SWCD NO.	TYPE OF PROJECT	LENGTH MILES	WATERSHED ACRES
11-370	Wyandt-Cook	156	T	0.24	39
11-960	Ott-Lehner	165	T	0.47	108
11-350	Borzon-Gibson	179	T	0.53	28
11-203	Miller-Stacklin	203	T	0.15	23
11-490	Smith-Scheid	207	T	0.09	40
11-208	Webb-Phillips	208	T	0.63	63
11-221	Davis-Dagiau	221	T	0.44	30
11-256	Sutorious Way	256	T	0.46	39
11-045	D & K Enterprises	260	T	0.26	8
11-261	Spence Tile	261	T	0.17	13
TOTALS	10			3.44	391

COURT HOUSE NUMBER	GROUP NAME	HURON SWCD NO.	TYPE OF PROJECT	TILE LENGTH MILES	WATERSHED ACRES
11-238	Woodridge Estates	238	S	0.02	43
11-239	Danbury Crossing	239	S	0.88	42
11-035	Cherokee Village	240	S	0.73	21
11-241	The Reserve	241	S	0.34	21
TOTAL	4			1.97	127

HURON COUNTY DITCH MAINTENANCE PROGRAM

2019 ANNUAL INSPECTION RE

Complete Spraying from 2018

HURON SWCD NO.	REMARKS	AIN	TRR	2018		2019 SPC	CSD	TP1/ TP2	API	FEET BCO	FEET SBR	hr. SPL	SDR	SDG	FEET BSR	REG. ,		STRUCTURE REPAIR			TLR	IRP	MOW	RMB	update Parcels in watershed
				GSP	STB											MINI BWR	RFL	ROCK CHUTE	ANIMAL GUARD	OTHER					
239		1				0							10								800				*
240		1				0															200				*
241		1				0																			*
256		1				0.46																			*
257		1				0.36																			*
																									*
258		1	0			1.78																			*
260		1	0			0.26																			*
261		1	0			0.17																			*
269		1				0.19																	1.5		*
500		1	10			2.52								10											
TOTALS		90	247	0	0	112.3	0	8	0	100,320	0	0	10	18	0	100	0	0	4	0	1000	0	3.98	0	

NOTES: IN THE REMARKS COLUMN, "OWNER" MEANS LANDOWNERS ARE DOING THE MAINTENANCE WORK.

THE ESTIMATED COSTS DO NOT INCLUDE THE COST OF WORK TO BE DONE BY THE LANDOWNERS.

THE COLUMN TOTALS FOR THE UNITS OF WORK DO NOT INCLUDE THE WORK TO BE DONE BY LANDOWNERS.

ASSESSMENT INFO

	Collection %	Collection amount	collection + Balance	20% Maintenance Base
1	40%	\$ 3,336.55	\$ 5,126.97	\$ 1,668.27
3	10%	\$ 1,058.40	\$ 1,907.77	\$ 2,116.80
13	State Min	\$ -	\$ 8,823.86	\$ 3,668.42
17	10%	\$ 3,156.26	\$ 7,597.81	\$ 6,312.52
23	State Min	\$ -	\$ 6,140.08	\$ 5,887.03
		\$ -	\$ -	\$ -
29	1%	\$ 115.43	\$ 2,492.91	\$ 2,308.54
31	State Min	\$ -	\$ 10,427.59	\$ 5,025.35
34	40%	\$ 1,110.00	\$ 900.23	\$ 555.00
35	State Min	\$ -	\$ 3,417.13	\$ 2,644.38
37	40%	\$ 2,196.52	\$ 3,319.74	\$ 1,098.26
		\$ -	\$ -	\$ -
39	16%	\$ 1,991.30	\$ 2,362.86	\$ 2,489.12
42	5%	\$ 1,030.76	\$ 5,385.93	\$ 4,123.02
43	State Min	\$ -	\$ 3,657.26	\$ 2,448.21
52	10%	\$ 1,156.93	\$ 1,174.86	\$ 2,313.86
60	8%	\$ 1,781.16	\$ 4,314.56	\$ 4,452.89
		\$ -	\$ -	\$ -
65	15%	\$ 863.79	\$ 1,005.68	\$ 1,151.72
73	40%	\$ 3,294.00	\$ 6,445.25	\$ 1,647.00
74	State Min	\$ -	\$ 10,714.81	\$ 6,664.10
76	10%	\$ 4,717.41	\$ 10,091.58	\$ 9,434.82
82	5%	\$ 565.10	\$ 2,641.51	\$ 2,260.40
		\$ -	\$ -	\$ -
85	12%	\$ 1,110.00	\$ 1,872.54	\$ 1,850.00
91	State Min	\$ -	\$ 3,187.87	\$ 1,608.36
93	10%	\$ 6,525.11	\$ 9,059.81	\$ 13,050.23
94	2%	\$ 542.01	\$ 6,878.12	\$ 5,420.14
95	1%	\$ 173.58	\$ 5,364.03	\$ 3,471.65
		\$ -	\$ -	\$ -
96	State Min	\$ -	\$ 5,207.40	\$ 4,957.00
99	State Min	\$ -	\$ 2,749.19	\$ 2,122.40
104	10%	\$ 732.56	\$ 4,942.40	\$ 1,465.12
105	10%	\$ 510.70	\$ 2,335.75	\$ 1,021.40
106	40%	\$ 2,021.80	\$ 2,864.78	\$ 1,010.90
		\$ -	\$ -	\$ -
108	10%	\$ 3,434.49	\$ 14,169.77	\$ 6,868.97
109	40%	\$ 1,000.04	\$ 1,101.30	\$ 500.02
110	40%	\$ 1,556.54	\$ 757.04	\$ 778.27
113	20%	\$ 1,457.13	\$ 1,451.02	\$ 1,457.13
117	State Min	\$ -	\$ 7,737.76	\$ 7,067.16
		\$ -	\$ -	\$ -
118	State Min	\$ -	\$ 8,360.56	\$ 4,962.30
119	State Min	\$ -	\$ 7,459.76	\$ 4,380.11
120	State Min	\$ -	\$ 5,205.66	\$ 1,936.16
121	2%	\$ 1,170.82	\$ 7,464.99	\$ 11,708.19

241		4%	\$ 800.00	\$ 3,952.08	\$ 4,000.00
256		3%	\$ 156.87	\$ 1,191.32	\$ 1,045.80
257		15%	\$ 358.39	\$ 405.47	\$ 477.86
			\$ -	\$ -	\$ -
258		5%	\$ 1,175.70	\$ 3,196.91	\$ 4,702.80
260		15%	\$ 784.89	\$ 894.34	\$ 1,046.52
261		5%	\$ 275.00	\$ 1,251.86	\$ 1,100.00
269		3%	\$ 313.50	\$ 1,799.53	\$ 2,090.00
500	State Min		\$ -	\$ 10,844.60	\$ 10,209.86
			\$ 96,992.80		