

**GIBSON ROAD AREA**  
**CANFIELD TOWNSHIP**  
**HOUSEHOLD SEWAGE TREATMENT ASSESSMENT**

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Submitted by:

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## **BACKGROUND**

Mahoning County currently has approximately 16,000 Home Sewage Treatment Systems (HSTS) in operation. Approximately 3,000 of these systems are considered off-lot systems due to the discharge of effluent to roadside ditches and waterways. The off-lot HSTS requires regular maintenance to ensure proper effluent treatment. The effluent from malfunctioning off-lot systems can significantly degrade surface water quality and potentially create a public health nuisance.

The Gibson Road area in Canfield Township is an area of concern for improperly treated off-lot discharge. The connection of the area homes to a sanitary sewer has become possible. As a result, the Mahoning County Sanitary Engineer commissioned this study and inventory of the status of the area's septic systems.

## **METHODOLOGY**

The project area as identified by the Mahoning County Sanitary Engineer was defined using an overlay of the county street map on the USGS Canfield quadrangle (**Figure 1.0**). With the study area defined, a field survey was conducted to determine the address limits of the area. The addresses within the study boundaries were then retrieved from the Health District Information System (HDIS) database. HDIS information, including HSTS details, was sorted by street for Gibson Road (**Table 1.0**), Canfield Road (**Table 1.1**), Deer Spring Run (**Table 1.2**), Whispering Meadows (**Table 1.3**) and Revere Run Drive (**Table 1.4**).

## **METHODOLOGY CONT.**

Historical water well sample results, which could indicate the impact of failing HSTS, were also derived from the database. The summary table of these samples collected by the Health District is included in **Table 2.0**.

Site specific off-lot aeration system effluent sampling data was extracted from the HDIS and can be viewed in **Table 3.0**. The data represents point source samples previously collected by the District Board of Health, Mahoning County.

Health District files were searched for sewage complaints filed in the study area since 1990. The sewage complaints were sorted by street and a summary is compiled on **Table 4.0**.

The District Board of Health, Mahoning County collected surface water fecal coliform samples after a review of historical data and topographical water flow. Samples were collected at locations (**Figure 2.0**) that were accessible and representative of the current conditions in the study area. The sampling was conducted in accordance with Ohio EPA Water Quality Standard Guidance 3, "Sampling Methods for Documentation of a Public Health Nuisance under OAC Rule 3745-1-04 (F) + (G)". The filed observations and results of each sample collected were recorded on Ohio EPA Form 1.6.1 provided in the guidance document. **Appendix I** contain the field forms completed during this project.

The samples collected by the District Board of Health, Mahoning County were analyzed by Youngstown State University for fecal coliform. The individual laboratory sample results are included in **Appendix II**. The sample results and averages are summarized on **Table 5.0**.

## **CONCLUSION**

Fecal coliform counts of surface water samples collected during this assessment at the west end of Whispering Meadows exceeded the Ohio Administrative Code 3745-1-04 (F)(1A) public health nuisance threshold of 5,000 counts per 100 ml. Revere Run off-lot discharge sampling revealed 40% of the systems sampled have effluent fecal coliform above 3,000 counts per 100 ml.

The collective information derived from this assessment indicates that nearly all of the surface waters in the study area with the exception of Deer Spring Run, appear to be significantly impacted by inadequately treated residential sewage.

# **TABLES**

Sanitary Sewer Assessment  
for Gibson Road  
Canfield Township

Table 1.0

Type of System	Address	Street Name	Date Installed	Owner's Name	Date Pumped	Well
		GIBSON	//	RANDY HESS	//	
AERATION	5585	GIBSON	4/17/78	JEROME RUDZIK	//	
AERATION	5819	GIBSON	7/1/92	DONALD BOGAR	11/23/96	
AERATION	5885	GIBSON	12/6/78	WILLIAM & CLAAR BARBOUR	8/22/95	
AERATION	5927	GIBSON	12/6/78	JOSEPH & ARLENE BIEDA	8/5/98	
ON-LOT	5970	GIBSON	//	STICKEL EVE	10/26/96	
ON-LOT	5971	GIBSON	//	SIGWORTH KENNETH R & C L	1/15/98	
AERATION	6005	GIBSON	4/6/93	DAVID BURNETTE	7/20/00	
ON-LOT	6010	GIBSON	//	KUNOVIC LORETTA M	6/6/95	
ON-LOT	6054	GIBSON	//	BEST PAUL & FAIRY	//	
ON-LOT	6104	GIBSON	//	BROOKS JOYCE E	12/1/95	
AERATION	6109	GIBSON	8/25/78	RODNEY LAMBERON	11/3/98	
ON-LOT	6130	GIBSON	//	SEAMAN RICHARD L & E	10/20/97	
ON-LOT	6155	GIBSON	11/15/79	LOWELL SEIBERT	7/30/99	
AERATION	6174	GIBSON	//	CECIL R & SL SEAMAN	10/23/99	
ON-LOT	6206	GIBSON	//	ESTOCK VIOLA ETAL	10/18/99	
AERATION	6211	GIBSON	3/30/81	CATHY GAGLIARDI	//	
ON-LOT	6256	GIBSON	//	PUSKAR J P & JURINA M L	//	
AERATION	6275	GIBSON	9/14/75	RICHARD BOWDEN	8/23/00	
ON-LOT	6292	GIBSON	5/30/95	SCOTT TEWELL	9/2/96	
ON-LOT	6311	GIBSON	10/8/99	JEFFREY MOLITERNO	//	PWS
AERATION	6343	GIBSON	//	CARL SHAEFFER	5/9/99	
ON-LOT	6368	GIBSON	//	ROBY CALVIN C SR &	7/9/96	
AERATION	6397	GIBSON	5/6/76	JEFFRY PAUL	//	
	6435	GIBSON	//	CAIAZZA, DONALD	//	
ON-LOT	6492	GIBSON	//	BUCUREL NICHOLAS & MARY P	5/3/00	
<b>ON-LOT</b>	<b>6661</b>	<b>GIBSON</b>	<b>//</b>	<b>BUCUREL NICHOLAS &amp; MARY P</b>	<b>//</b>	
<b>ON-LOT</b>	<b>6924</b>	<b>GIBSON</b>	<b>//</b>	<b>DR. JAMES SANSONE</b>	<b>3/29/99</b>	
	<b>6925</b>	<b>GIBSON</b>	<b>//</b>	<b>SANSONE JAMES</b>	<b>//</b>	
<b>BOLDED ADDRESSES ARE WEST OF OHIO TURNPIKE</b>						

Sanitary Sewer assessment  
for Canfield Niles Road  
Address's 4294 - 4855

Table 1.1

Type of System	Address	Street Name	Date Installed	Owner's Name	Date Pumped	Well
ON-LOT	4294	CANFIELD NILES	/ /	HAVILAND WAYNE C & A M	/ /	
ON-LOT	4325	CANFIELD NILES	/ /	SVENSSON T MAGNUS &	10/30/99	
ON-LOT	4355	CANFIELD NILES	/ /	KAMENSKY DOROTHY J TRUSTE	/ /	
ON-LOT	4430	CANFIELD NILES	11/12/92	DIANE VOGEL	4/10/97	
ON-LOT	4433	CANFIELD NILES	/ /	ALLEN BENNET	5/1/00	
ON-LOT	4485	CANFIELD NILES	/ /	ZACCARO MARILYN F	2/24/00	
ON-LOT	4505	CANFIELD NILES	/ /	WELCH SCOTT E	3/3/97	
	4533	CANFIELD NILES	/ /		/ /	
ON-LOT	4535	CANFIELD NILES	/ /	MARY KRIDER	/ /	
ON-LOT	4575	CANFIELD NILES	8/17/87	JAMES & STEPHANIE FRAGLE	11/30/99	
ON-LOT	4621	CANFIELD NILES	/ /	BROCKER BARRY J & DARLA	8/11/00	
ON-LOT	4691	CANFIELD NILES	/ /	WILKERSON CHARLOTTE A M &	11/16/94	
ON-LOT	4715	CANFIELD NILES	/ /	WILKESON WAYNE A & C M	6/27/00	
AERATION	4755	CANFIELD NILES	7/16/98	TERRY CROSGY JR.	7/15/97	
ON-LOT	4760	CANFIELD NILES	/ /	RENCH JOHN C & PHYLISS J	5/31/00	
ON-LOT	4775	CANFIELD NILES	2/4/97	JIM MOORE	/ /	
ON-LOT	4820	CANFIELD NILES	/ /	JOHN CHANNELL	9/24/99	
ON-LOT	4855	CANFIELD NILES	9/30/96	ANN & JOSEPH BLUMETTI	/ /	

Sanitary Sewer Assessment  
For Deer Spring Run

Table 1.2

Type of System	Address	Street Name	Date Installed	Owner's Name	Date Pumped	Well
ON-LOT	5800	DEER SPRING RUN	/ /	STEVE YANEK	/ /	PWS
ON-LOT	5870	DEER SPRING RUN	/ /	DAVID GEORGE	/ /	
ON-LOT	5940	DEER SPRING RUN	6/21/98	MARK MARUCCI	/ /	
ON-LOT	5970	DEER SPRING RUN	/ /	RONALD BILLOCK	/ /	
ON-LOT	6010	DEER SPRING RUN	/ /	RON BILLOCK	/ /	
ON-LOT	6031	DEER SPRING RUN	10/10/97	FRANK SCIROCCO	/ /	
ON-LOT	6040	DEER SPRING RUN	/ /	MARY & THOMAS DRIPPS	/ /	
ON-LOT	6070	DEER SPRING RUN	Permitted	SHERWOOD, RICHARD	/ /	PWS
ON-LOT	6071	DEER SPRING RUN	/ /	JEFF JOSEPH	/ /	PWS
ON-LOT	6090	DEER SPRING RUN	12/8/97	ANGELA SHARPE	/ /	
ON-LOT	6111	DEER SPRING RUN	Permitted	JOSEPH CONTI	/ /	PWS
ON-LOT	6140	DEER SPRING RUN	Permitted	JOHN BRAZELTON	/ /	PWS

Sanitary Sewer Assessment  
For Whispering Meadows

Table 1.3

Type of System	Address	Street Name	Date Installed	Owner's Name	Date Pumped	Well
AERATION	5820	WHISPERING MEADOWS	6/14/96	CURRENT HOMEOWNER	/ /	
AERATION	5821	WHISPERING MEADOWS	1/7/97	CURRENT HOMEOWNER	6/26/00	
AERATION	5860	WHISPERING MEADOWS	12/22/93	KEVIN & SHARON VELASQUEZ	/ /	
AERATION	5861	WHISPERING MEADOWS	10/5/95	CURRENT HOMEOWNER	/ /	
AERATION	5900	WHISPERING MEADOWS	4/1/94	SIMON WAKIN	/ /	
AERATION	5901	WHISPERING MEADOWS	9/21/95	SAM & LAURA DYE	/ /	
AERATION	5920	WHISPERING MEADOWS	2/16/94	BILL ALEXANDER	6/10/98	
AERATION	5921	WHISPERING MEADOWS	8/4/94	THOMAS REEDER	7/12/99	
AERATION	5960	WHISPERING MEADOWS	5/23/95	JOHN & MARY SEEMAN	6/25/98	
AERATION	5961	WHISPERING MEADOWS	5/28/98	JAMES BENEDICT	/ /	
AERATION	6000	WHISPERING MEADOWS	6/22/93	MARINO CONSTRUCTION	5/20/98	
AERATION	6001	WHISPERING MEADOWS	9/11/98	MICHAEL TEUTSCH	/ /	
AERATION	6020	WHISPERING MEADOWS	/ /	JOHN PESTAS	5/25/99	
AERATION	6021	WHISPERING MEADOWS	8/22/91	GREGORY ECKSTEIN	/ /	
AERATION	6060	WHISPERING MEADOWS	9/2/92	TIM DANILOV	4/18/00	
AERATION	6061	WHISPERING MEADOWS	6/23/93	TIM LELOTSKY	/ /	
AERATION	6100	WHISPERING MEADOWS	4/19/96	PHIL MARIOTTI	6/7/00	
AERATION	6101	WHISPERING MEADOWS	11/10/93	PAUL GRAFF	/ /	
AERATION	6120	WHISPERING MEADOWS	1/11/94	DONNA SEKMAN	6/7/00	
AERATION	6121	WHISPERING MEADOWS	5/10/91	DAVID GABRIEL	7/3/95	
AERATION	6160	WHISPERING MEADOWS	3/31/93	LORI & JOHN ARFARAS	10/19/99	
AERATION	6161	WHISPERING MEADOWS	7/10/91	EUGENE & JOAN BALAS	9/19/96	
AERATION	6200	WHISPERING MEADOWS	3/20/92	DON & DONNA KACMAR	/ /	
AERATION	6201	WHISPERING MEADOWS	8/22/91	TED CONWAY	5/20/99	
AERATION	6221	WHISPERING MEADOWS	3/20/92	MARINO CONSTRUCTION	6/17/99	
AERATION	6260	WHISPERING MEADOWS	6/10/91	TERRANCE KALEEL	8/16/99	
AERATION	6261	WHISPERING MEADOWS	7/10/91	HOME BUILDERS ASSOC.	1/2/99	
AERATION	6300	WHISPERING MEADOWS	8/7/91	LOGANGATE BUILDERS	/ /	
AERATION	6301	WHISPERING MEADOWS	2/15/96	DON JEFFCOAT	4/6/00	

Sanitary Sewer Assessment  
For Revere Run Drive

Table 1.4

Type of System	Address	Street Name	Date Installed	Owner's Name	Date Pumped	Well
AERATION	5255	REVERE RUN	6/9/98	ADAM CROUCH	/ /	PWS
ON-LOT	5630	REVERE RUN	6/17/94	AL BODAMER	7/18/97	
AERATION	5270	REVERE RUN	12/14/98	BARRY TANSER	/ /	
ON-LOT	5735	REVERE RUN	1/3/94	CHRIS ABRAHAM	/ /	
AERATION	5245	REVERE RUN	9/23/97	CURRENT HOMEOWNER	/ /	
ON-LOT	5700	REVERE RUN	9/6/96	CURRENT HOMEOWNER	10/5/00	PWS
ON-LOT	5595	REVERE RUN	/ /	DANIEL GROMADA	3/9/00	
ON-LOT	5395	REVERE RUN	/ /	DON TANKOVICH	/ /	
ON-LOT	5575	REVERE RUN	7/13/94	DON WELDON	/ /	
ON-LOT	5500	REVERE RUN	/ /	DONALD BOVA	3/31/00	
ON-LOT	5665	REVERE RUN	9/21/94	ERIC TANNER	/ /	
AERATION	5350	REVERE RUN	2/25/97	FRANK TOTH	/ /	
ON-LOT	5390	REVERE RUN	/ /	FREDERICK ESENWEIN	8/21/99	
ON-LOT	5570	REVERE RUN	/ /	GENE FEHR	6/14/00	PWS
ON-LOT	5685	REVERE RUN	/ /	JACK SMITH	/ /	
ON-LOT	5475	REVERE RUN	10/21/94	JEFF & RENEE ERVIN	/ /	
AERATION	5265	REVERE RUN	8/30/99	JOE ANGELO	/ /	PWS
ON-LOT	5355	REVERE RUN	6/10/99	JOHN MCINTYRE	6/16/99	
ON-LOT	5320	REVERE RUN	10/17/96	JOSEPH HAY	9/4/97	
AERATION	5260	REVERE RUN	9/6/00	KEN KUHN	/ /	PWS
ON-LOT	5295	REVERE RUN	7/22/97	LARRY & CHRIS BECK	/ /	
ON-LOT	5750	REVERE RUN	8/23/95	MANCINI	/ /	
ON-LOT	5280	REVERE RUN	6/3/96	MARK SCHAEFER	/ /	
ON-LOT	5450	REVERE RUN	10/23/97	MIKE PETTOLA	/ /	
ON-LOT	5690	REVERE RUN	/ /	RICHARD CALVARUSSO	4/3/98	
ON-LOT	5525	REVERE RUN	7/25/94	RICK BALDWIN	5/8/00	
ON-LOT	5065	REVERE RUN	8/15/94	RICK LOVE	/ /	
ON-LOT	5335	REVERE RUN	4/11/96	RICK VERNAL	4/5/99	
AERATION	5415	REVERE RUN	/ /	ROBERT CERIMELE	/ /	
ON-LOT	5660	REVERE RUN	7/20/99	ROBERT J. WOLFE	8/2/99	
ON-LOT	5580	REVERE RUN	8/15/94	ROBERT WILSON	4/29/99	
ON-LOT	5495	REVERE RUN	9/23/94	RONALD METZE	10/3/98	
ON-LOT	5555	REVERE RUN	/ /	STANLEY & DONNA SOCHA	12/11/97	
ON-LOT	5600	REVERE RUN	7/29/94	SUSAN & JOHN RAGAN	/ /	

Sanitary Sewer Assessment  
For Revere Run Drive

Table 1.4

ON-LOT	5290	REVERE RUN	6/16/95	THOMAS REED	/ /	
ON-LOT	5240	REVERE RUN	/ /	TOM & JULIE KAMENTISA	/ /	
AERATION	5370	REVERE RUN	12/16/98	TOM & PAT CICALIELLO	/ /	
ON-LOT	5645	REVERE RUN	5/18/94	TOM REED	/ /	
ON-LOT	5315	REVERE RUN	8/30/95	TOM REED/RICK VERNAL	/ /	
ON-LOT	5305	REVERE RUN	7/17/96	TOM REED/RICK VERNAL	/ /	
ON-LOT	5490	REVERE RUN	7/12/94	TONY CAPEZIO	6/30/97	

Gibson Sanitary Sewer  
Assessment Water Samples

Table 2.0

Street	Owner Name	Address	Sample Date	Results	Lab Number
Gibson Road	Scott Tewell	6292 Gibson Road	7/7/97	TC/Positive	462 102
	Scott Tewell	6292 Gibson Road	6/12/00	TC/Negative	2838 101
	Sophia Seaman	6174 Gibson Road	9/15/98	TC/Positive (E-coli)	1385 103
	Arelene Bieda	5927 Gibson Road	7/20/99	TC/Negative	2165 103
	Eve Stickel	5970 Gibson Road	9/7/99	TC/Negative	2247 102
	Jeff Molliteino	6311 Gibson Road	1/30/00	TC/Negative	2566 100
	Richard Bowden	6275 Gibson Road	6/12/00	TC/Positive (E-coli)	2831 103
	Richard Bowden	6275 Gibson Road	8/7/00	TC/Positive (E-coli)	2981 102
	Richard Bowden	6275 Gibson Road	9/5/00	TC/Negative	3063 102

Gibson Road  
Sanitary Sewer Assessment  
Off-Lot Aeration Samples

Table 3.0

Street	Owner Name	Address	Sample Date	Results			
				BOD	TSS	Fecal Coliform	Lab Number
Canfield Niles Road		4755 Canfield Niles Road	3/30/98	5.18	90.00		1891210
		4755 Canfield Niles Road	4/1/98	3.96	N/D		1892210
Whispering Meadows		6001 Whispering Meadows	7/7/99	600.00	318.00		2135210
		6001 Whispering Meadows	3/15/01	>2000	28.00		29814
		6001 Whispering Meadows	3/15/01			3,000	28
		5255 Revere Run	3/15/01	396.70	37.00		29812
		5255 Revere Run	3/15/01			16,000	33
		5260 Revere Run	3/15/01	37.11	16.00		29811
		5260 Revere Run	3/15/01			3,100	31
		5265 Revere Run	3/15/01	30.00	23.00		29813
		5265 Revere Run	3/15/01			100	32
		5270 Revere Run	3/15/01	4.09	14.00		29810
		5270 Revere Run	3/15/01			100	30
		5370 Revere Run	3/15/01	3.81	14.00		29809
		5370 Revere Run	3/15/01			<100	27

Sanitary Sewer Assessment  
Gibson Road Project  
Sewage Complaint

Table 4.0

<b>Complaints for Revere Run</b>			
<b>1990 to Present</b>			
Completed	Date Received	Complaint #	Location of Complaint
F	10/9/97	5635	REVERE RUN
T	3/29/96	5241	REVERE RUN
T	4/21/97	5484	5320 REVERE RUN
T	9/8/95	5161	5320 REVERE RUN
T	6/13/95	5061	5690 REVERE RUN
<b>Complaints for Canfield Niles Road</b>			
<b>1990 to Present</b>			
Completed	Date Received	Complaint #	Location of Complaint
T	2/24/96	5226	CANFIELD NILES ROAD
T	5/15/97	401	CANFIELD-NILES ROAD
T	6/4/91	3948	S. CANFIELD NILES ROAD
T	4/28/93	162	3421 CANFIELD-NILES ROAD
F	9/30/99	19990045	3570 CANFIELD NILES ROAD
T	10/1/98	5905	3896 S. CANFIELD NILES ROAD
<b>Complaints for Gibson Road</b>			
<b>1990 to Present</b>			
Completed	Date Received	Complaint #	Location of Complaint
T	6/2/92	4245	6005 GIBSON ROAD
T	3/18/91	3847	6435 GIBSON ROAD
F	9/8/98	5887	9532 GIBSON ROAD

**GIBSON ROAD, CANFIELD TOWNSHIP  
HOUSEHOLD SEWAGE TREATMENT ASSESSMENT  
SURFACE WATER SAMPLE SUMMARY  
Table 5.0**

<b>Sample Location</b>	<b>2/13/01 Fecal Coliform (parts per 100 ml)</b>	<b>2/16/01 Fecal Coliform (parts per 100 ml)</b>	<b>Fecal Coliform Average</b>
<b>S-1</b> Deer Spring Run, West End	<10	<10	<10
<b>S-2</b> Whispering Meadows, West End	8,900	27,000	17,950
<b>S-3</b> Canfield Niles Road, East of Whispering Meadows	11,400	3,000	7,200
<b>S-4</b> Gibson Road, East End	100	<10 (5)	53
<b>S-5</b> Near 6005 Gibson Road	4,500	32,000	18,250
<b>S-6</b> Gibson Road, West End East of turnpike	21,000	500	10,750

Samples collected by District Board of Health, Mahoning County

Samples analyzed by Youngstown State University