

Appendix H Test Pitting Logs

Appendix H
Test Pitting Summary Sheet

Test Pit ID	Installation Date
2	12/22/2019
3A	12/21/2019
3B	12/23/2019
7	12/27/2019
8	12/23/2019
9	12/27/2019
11A	12/23/2019
11B	12/28/2019
11C	12/28/2019
11D	12/28/2019
15A	12/21/2019
15B	12/21/2019
6	8/25/2020
11E	8/24/2020
11F	8/25/2020
12	8/25/2020
13A	8/2/2021
13B	8/2/2021
13C	8/3/2021
14	8/4/2021

TEST PIT LOG

Location of Test Pit:	Coordinates of test pit corners:	Test Pit ID: 2
SEE MAP	SEE MAP	Site: Elmira
		Project No.: MN0832G
		Project Mgr: Ron Arcuri
		Started - Date: 12/22/2019 Time: 800
		Backfilled - Date: 12/22/2019 Time: 1530
Field Conditions: Grass	Logged by: S. Perdziola	
Sample numbers: Test Pit 2		Equipment: Bobcat E80

Direction **W**

E

Test Pit Diagram and Description

Depth (ft bgs)	Horizontal Interval - feet from end of trench															
	0															10
1	Brown clay, plastic, stiff, moist															
2	Light brown and grey sandy cobbles with silt, fill, rounded cobbles, loosed, fine to coarse sand, moist, poorly sorted, crushed brick and concrete fragments.															
3																
4																
5																
6																
7																
8																
9																
10																
11																
12																

DIRECTION
S (T) 42.07063°N
076.79815°W ACCURACY 93 m
DATUM WGS84



Elmira Test Pit 2 2019-12-22
12:25:36-05:00

Sample Numbers: Test Pit 2 collected for analysis of PCBs, SVOCs and metals.

Additional Information:

Notes: N/M: Not measured — Indicates bottom of trench ✗ Approximate sewer sample location — — — — Standing water □ Approximate location of sewer

Direction	S
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Test Pit Diagram and Description

Notes: N/M: Not measured — Indicates bottom of trench X Approximate sewer sample location — — — — Standing water □ Approximate location of sewer

Direction	S
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Test Pit Diagram and Description

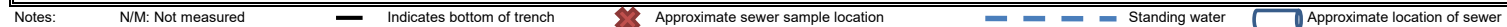
Notes: N/M: Not measured Indicates bottom of trench Approximate sewer sample location Standing water Approximate location of sewer

Direction S N

Test Pit Diagram and Description

Notes: N/M: Not measured Indicates bottom of trench Approximate sewer sample location Standing water Approximate location of sewer

Test Pit Diagram and Description



Test Pit Diagram and Description

Notes: N/M: Not measured — Indicates bottom of trench X Approximate sewer sample location — — — — Standing water □ Approximate location of sewer

TEST PIT LOG

Location of Test Pit:	Coordinates of test pit corners:	Test Pit ID: 11a
SEE MAP	SEE MAP	Site: Elmira
		Project No.: MN0832G
		Project Mgr: Ron Arcuri
		Started - Date: 12/23/2019 Time: 1530
		Backfilled - Date: 12/23/2019 Time: 1640
Field Conditions: Mulch	Logged by: S. Perdziola	
Sample numbers: No sample collected		Equipment: Bobcat E80

Direction S

N

Test Pit Diagram and Description

Depth (ft bgs)	Horizontal Interval - feet from end of trench													
	0												14	
1	Dark brown silt with sand, subangular to subrounded, loose, fine sand, moist, poorly sorted													
2														
3														
4														
5														
6	Medium sand with silt and cobbles, rounded to subrounded cobbles, loose, fine to medium sand, moist, poorly sorted													
7														
8														
9														
10														
11														
12														



DIRECTION N (T) 42.06986°N 076.79555°W ACCURACY 4 m DATUM WGS84

Elmira Test Pit 11 2019-12-23 15:59:14-05:00

Sample Numbers:

Additional Information:

Notes: N/M: Not measured — Indicates bottom of trench ✗ Approximate sewer sample location — — — — Standing water □ Approximate location of sewer

Direction	S
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Test Pit Diagram and Description

Notes: N/M: Not measured — Indicates bottom of trench X Approximate sewer sample location — — — — Standing water □ Approximate location of sewer

TEST PIT LOG

Location of Test Pit:	Coordinates of test pit corners:	Test Pit ID: 11c
SEE MAP	SEE MAP	Site: Elmira
		Project No.: MN0832G
		Project Mgr: Ron Arcuri
		Started - Date: 12/28/2019 Time: 1545
		Backfilled - Date: 12/28/2019 Time: 1710
Field Conditions: Mulch	Logged by: S. Perdziola	
Sample numbers: No sample collected		Equipment: Bobcat E80

Direction W

E

Test Pit Diagram and Description

Depth (ft bgs)	Horizontal Interval - feet from end of trench															
	0														10	
1	Black silty sand, subangular, very loose, fine to medium sand, moist, poorly sorted, contains organic matter															
2	Tan and brown sand with with gravel and cobbles, rounded cobbles, loose, medium to coarse sand, moist, poorly sorted															
3																
4																
5																
6																
7																
8																
9																
10																
11																
12																
13																
14																



Sample Numbers:

Additional Information:

Notes: N/M: Not measured — Indicates bottom of trench ✗ Approximate sewer sample location — — — — Standing water Approximate location of sewer

Direction	W
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Test Pit Diagram and Description

Sample Numbers:
Additional Information:

Notes: N/M: Not measured — Indicates bottom of trench X Approximate sewer sample location — — — — Standing water [] Approximate location of sewer

TEST PIT LOG

Location of Test Pit:	Coordinates of test pit corners:	Test Pit ID: 15a
SEE MAP	SEE MAP	Site: Elmira
		Project No.: MN0832G
		Project Mgr: Ron Arcuri
		Started - Date: 12/21/2019 Time: 1015
		Backfilled - Date: 12/21/2019 Time: 1230
Field Conditions: Mulch	Logged by: S. Perdziola	
Sample numbers: No sample collected		Equipment: Bobcat E80

Direction S

N

Test Pit Diagram and Description

Depth (ft bgs)	Horizontal Interval - feet from end of trench															
	0														18	
1	Black silty sand, subangular, very loose, fine to medium sand, moist, poorly sorted, contains organic matter.															
2																
3																
4																
5	Black and dark grey silty sand with cobbles, rounded cobbles, loose, fine to coarse sand, moist, poorly sorted															
6																
7																
8																
9	Light brown silty sand with cobbles, rounded cobbles, loose, fine to coarse sand, moist, poorly sorted															
10																
11																
12																
13																
14																
15																

Sample Numbers:

Additional Information:

Notes: N/M: Not measured — Indicates bottom of trench ✗ Approximate sewer sample location — — — — Standing water □ Approximate location of sewer

Test Pit Diagram and Description

Notes: N/M: Not measured — Indicates bottom of trench X Approximate sewer sample location — — — — Standing water [] Approximate location of sewer

TEST PIT LOG

Location of Test Pit:	Coordinates of test pit:	Test Pit ID: 6
SEE MAP	SEE MAP	Site: Elmira
		Project No.: MN0832G
		Project Mgr: Ron Arcuri
	Field Conditions: Grass	Started - Date: 8/25/2020 Time: 800
		Backfilled - Date: 8/25/2020 Time: 1800
	Sample numbers: Test Pit 6	Logged by: S. Perdziola
		Equipment: Bobcat E80

Direction N

S

Test Pit Diagram and Description

Depth (ft bgs)	Horizontal Interval - ft from end of trench									
	0								10	
0	Brown silty fine sand, medium dense, damp									
1										
2										
3										
4										
5										
6										
7										
8										
9										
10										
	Dark Brown fine to coarse sand with silt, gravel, and cobbles. Some fill materials (concrete rubble, brick fragments) observed throughout. Damp. Poorly sorted. Sub rounded to sub angular.									
										

Sample Numbers: Test Pit 6 collected for analysis of PCBs, SVOCs and metals.

Additional Information: Trench box installed to approximately 10 ft bgs to access pipe segment (top of pipe approximately 9.5 ft bgs). Sewer observed to be 30-inch diameter concrete pipe.

Notes: N/M: Not measured — Indicates bottom of trench — — — — Standing water

TEST PIT LOG

Location of Test Pit:	Coordinates of test pit:	Test Pit ID: 11e
SEE MAP	SEE MAP	Site: Elmira
		Project No.: MN0832G
		Project Mgr: Ron Arcuri
	Field Conditions: Grass	Started - Date: 8/24/2020 Time: 900
		Backfilled - Date: 8/27/2020 Time: 730
	Sample numbers: Test Pit 11e	Logged by: S. Perdziola
		Equipment: Bobcat E80

Direction S

N

Test Pit Diagram and Description

Depth (ft bgs)	Horizontal Interval - ft from end of trench									
	0						16			
0	Light brown silty fine sand with cobbles, medium dense, well rounded, poorly sorted, damp, organic material and plant roots present.									
1	Light brown and grey fine to coarse sand with silt, gravel, and cobbles. Some fill material (brick fragments) observed. Dry. Poorly sorted. Sub rounded to sub angular. Loose.									
2										
3										
4	Light brown and tan fine sand with cobbles. Fill. Dry. Poorly sorted. Sub rounded. Loose.									
5										
6										
7										
8										
9										
10										
11										



Sample Numbers: Test Pit 11e collected for analysis of PCBs, SVOCs and metals.

Additional Information: Top of pipe located approximately 10.5 ft bgs. Sewer observed to be 36-inch diameter clay tile pipe.

Notes: N/M: Not measured — Indicates bottom of trench — — — — Standing water

TEST PIT LOG

Location of Test Pit:	Coordinates of test pit:	Test Pit ID: 11f
SEE MAP	SEE MAP	Site: Elmira
		Project No.: MN0832G
		Project Mgr: Ron Arcuri
	Field Conditions: Grass	Started - Date: 8/25/2020 Time: 1715
		Backfilled - Date: 8/27/2020 Time: 900
	Sample numbers: Test Pit 11f	Logged by: S. Perdziola
		Equipment: Bobcat E80

Direction S

N

Test Pit Diagram and Description

Depth (ft bgs)	Horizontal Interval - ft from end of trench									
	0						30			
0	Dark brown silty fine sand, very loose, damp.									
1	Dark brown, tan and grey fine to coarse sand with gravel, and cobbles. Some fill material (brick fragments) observed. Damp. Poorly sorted. Sub rounded to sub angular. Loose.									
2										
3										
4										
5	Brown and tan medium sand with gravel, and cobbles. Fill. Damp Poorly sorted. Sub rounded. Loose.									
6										
7										
8										
9										
10										
11										



Sample Numbers: Test Pit 11f collected for analysis of PCBs, SVOCs and metals.

Additional Information: Top of pipe located approximately 10.5 ft bgs. Sewer observed to be 36-inch diameter clay tile pipe.

Notes: N/M: Not measured — Indicates bottom of trench — — — — Standing water

TEST PIT LOG

Location of Test Pit:	Coordinates of test pit:	Test Pit ID: 12
SEE MAP	SEE MAP	Site: Elmira
		Project No.: MN0832G
		Project Mgr: Ron Arcuri
		Started - Date: 8/25/2020 Time: 1030
		Backfilled - Date: 8/25/2020 Time: 1715
	Field Conditions: Grass	Logged by: S. Perdziola
	Sample numbers: Test Pit 12	Equipment: Bobcat E80

Direction	W
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三

Test Pit Diagram and Description

Depth (ft bgs)	Horizontal Interval - ft from end of trench							
	0						9	
0	Light brown silty fine sand, medium dense, damp.							
1								
2								
3								
4								
5								
6								
7								
8								

DIRECTION SE (T) 42.06910°N ACCURACY 8 m
 076.79524°W DATUM WGS84

Test Pitting Phase II Test Pit 12 2020-08-25 16:25:15-04:00

Sample Numbers: Test Pit 12 collected for analysis of PCBs, SVOCs and metals.

Additional Information:	Top of pipe located approximately 8 ft bgs. Sewer observed to be 24-inch diameter concrete pipe, collapsed and broken throughout the extent of Test Pit 12.
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Notes: N/M: Not measured Indicates bottom of trench Standing water

Direction **W** **E**

Test Pit Diagram and Description

Notes: N/M: Not measured — Indicates bottom of trench Approximate sewer sample location Standing water Approximate location of sewer

Direction **S**

Depth (ft bgs)	Horizontal Interval - feet from end of trench									
0										
1	Dark Brown silt, stiff, roots 0-2", damp									
2	Brown silty sand with gravel, medium dense, fine to coarse sand, moist, poorly sorted, rounded to subrounded, fill.									
3										
4										
5										
6										
7	Dark brown to brown sandy gravel with silt and rounded to subrounded cobbles, loose, fine to coarse sand, moist, poorly sorted, fill.									
8										
9										
10										
11										
12										

DIRECTION S (T) 42.06931°N ACCURACY 29 m
 076.79545°W DATUM WGS84

Elmira Test Pits - Phase III 2021-08-02
 14:55:08-04:00

Sample Numbers: N/A

Additional Information: Test Pit Progressed to approximately 10.5 ft bgs. Sewer segment encountered.

Notes: N/M: Not measured Indicates bottom of trench Approximate sewer sample location Standing water Approximate location of sewer

TEST PIT LOG

Location of Test Pit:		Coordinates of test pit corners:		Test Pit ID: 13C	
SEE FIGURE 1	SEE FIGURE 1	SEE FIGURE 1		Site: Elmira	
				Project No.: MN0832G	
				Project Mgr: Ron Arcuri	
				Started - Date: 8/3/2021 Time: 800	
	Field Conditions: Grass	Backfilled - Date: 8/3/2021 Time: 1530			
		Logged by: S. Perdziola			
Sample numbers: No Sample Collected		Equipment: JCB 3CX			

Direction N

S

Test Pit Diagram and Description

Depth (ft bgs)	Horizontal Interval - feet from end of trench													
	0												14	
1	Dark Brown silt, stiff, roots 0-2", damp													
2	Brown and tan silty sand with gravel, medium dense, fine to coarse sand, moist, poorly sorted, rounded to subrounded, fill.													
3														
4	Dark brown to brown sandy gravel with silt and rounded to subrounded cobbles, loose, fine to coarse sand, moist, poorly sorted, fill.													
5														
6														
7														
8														
9														
10														
11														
12														

DIRECTION S (T) 42.06925°N 076.79550°W ACCURACY 16 m DATUM WGS84

Manhole

Manhole

Top of sewer

Elmira

Test Pits - Phase III

2021-08-03 10:58:30-04:00

Sample Numbers: Test Pit 13C - Pipe and Test Pit 13C - Manhole

Additional Information: Test Pit Progressed to approximately 6 ft bgs. Encountered top of sewer approximately 5.5 ft bgs. Sewer segment opened to facilitate collection of sample. Manhole located approximately 2.5 ft bgs.

Notes:

N/M: Not measured

— Indicates bottom of trench

✗ Approximate sewer sample location

— — — — Standing water

□ Approximate location of sewer

TEST PIT LOG

Location of Test Pit: SEE FIGURE 1	Coordinates of test pit corners:	Test Pit ID: 14
	SEE FIGURE 1	Site: Elmira
		Project No.: MN0832G
		Project Mgr: Ron Arcuri
		Started - Date: 8/4/2021 Time: 800
		Backfilled - Date: 8/4/2021 Time: 1530
	Field Conditions: Grass	Logged by: S. Perdziola
Sample numbers: No Sample Collected	Equipment: JCB 3CX	

Direction W

E

Test Pit Diagram and Description

Depth (ft bgs)	Horizontal Interval - feet from end of trench															
	0															
1	Dark Brown silt, stiff, roots 0-2", damp															
2	Brown silty sand with gravel, medium dense, fine to coarse sand, moist, poorly sorted, rounded to subrounded, fill. Demarcation layer at 2 ft.															
3																
4																
5																
6																
7																
8	Dark brown to brown sandy gravel with silt and rounded to subrounded cobbles, loose, fine to coarse sand, moist, poorly sorted, fill. Brick and concrete fragments.															
9																
10																
11																
12																

Sample Numbers: N/A

Additional Information: Test Pit progressed to 11.5 ft bgs. Concrete structure observed, 2 ft bgs. Extended length of test pit.

Notes:

N/M: Not measured

— Indicates bottom of trench

✗ Approximate sewer sample location

— — — — — Standing water

□ Approximate location of sewer