



Outfall and Storm Sewer Reconnaissance and Sampling

Hogtown Creek Tributaries;
Elizabeth Creek, Rattlesnake Branch
and North GHS Tributary

Elizabeth Creek





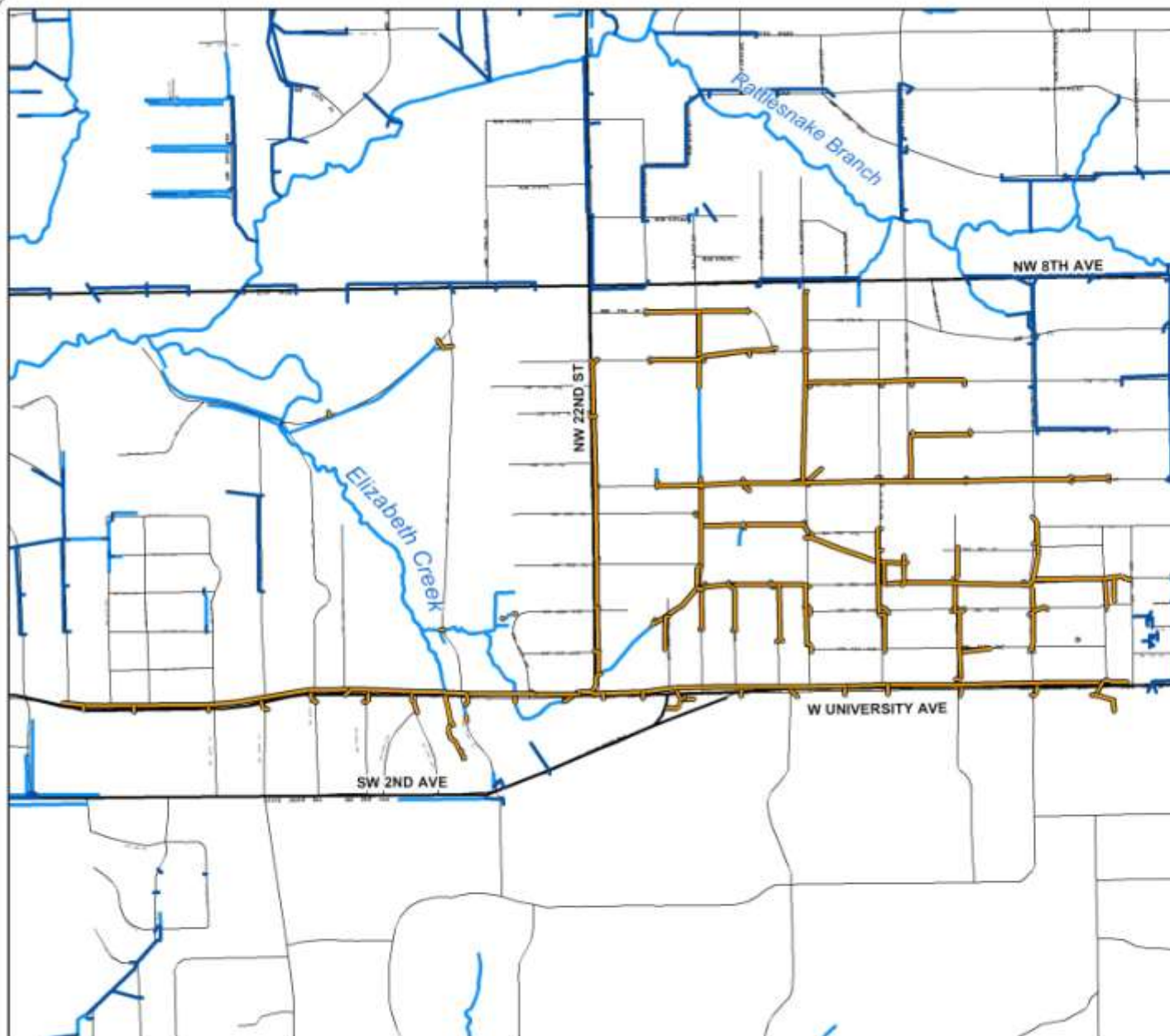
Elizabeth Creek Storm Sewer Reconnaissance and Sampling Mar. - Aug. 2009

Legend

- Contributing Storm Sewer
- Creeks
- Major Roads



0 500 1,000
Feet



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Elizabeth Creek Storm Sewer Reconnaissance and Sampling Mar. - Aug. 2009

Legend

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- Creeks
- Major Roads



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Sampling the Storm Sewer Contributing to Elizabeth Creek



Sample ID	Mar 9	Mar 17	Apr 30	May 7	Jun 2	Jun 9	Jun 17	Jun 18	Aug 3	Aug 10	Aug 26	Geometric Mean
ELIZNW22	300											300
MH511	10											10
MH1216	2,250	16,600	6,200	1,600	100	2,400	880	7,400	688	280	320	1,602
MH1207E	80											80
MH1207N					470							470
MH1135	10											10
MH1111	70											70
MH1116	50											50
ElizArborUS					10		24					15
MH1988S					34,400	1,850	1,300		60,000	1,500	240	5,948
MH1988E					10		200					45
MH1990						40				120		69
1990Seep										10		10



Elizabeth Creek Storm Sewer Reconnaissance and Sampling Mar. - Aug. 2009

Legend

- Contributing Storm Sewer
- Creeks
- Major Roads
- Sample Locations



0 385 770
Feet



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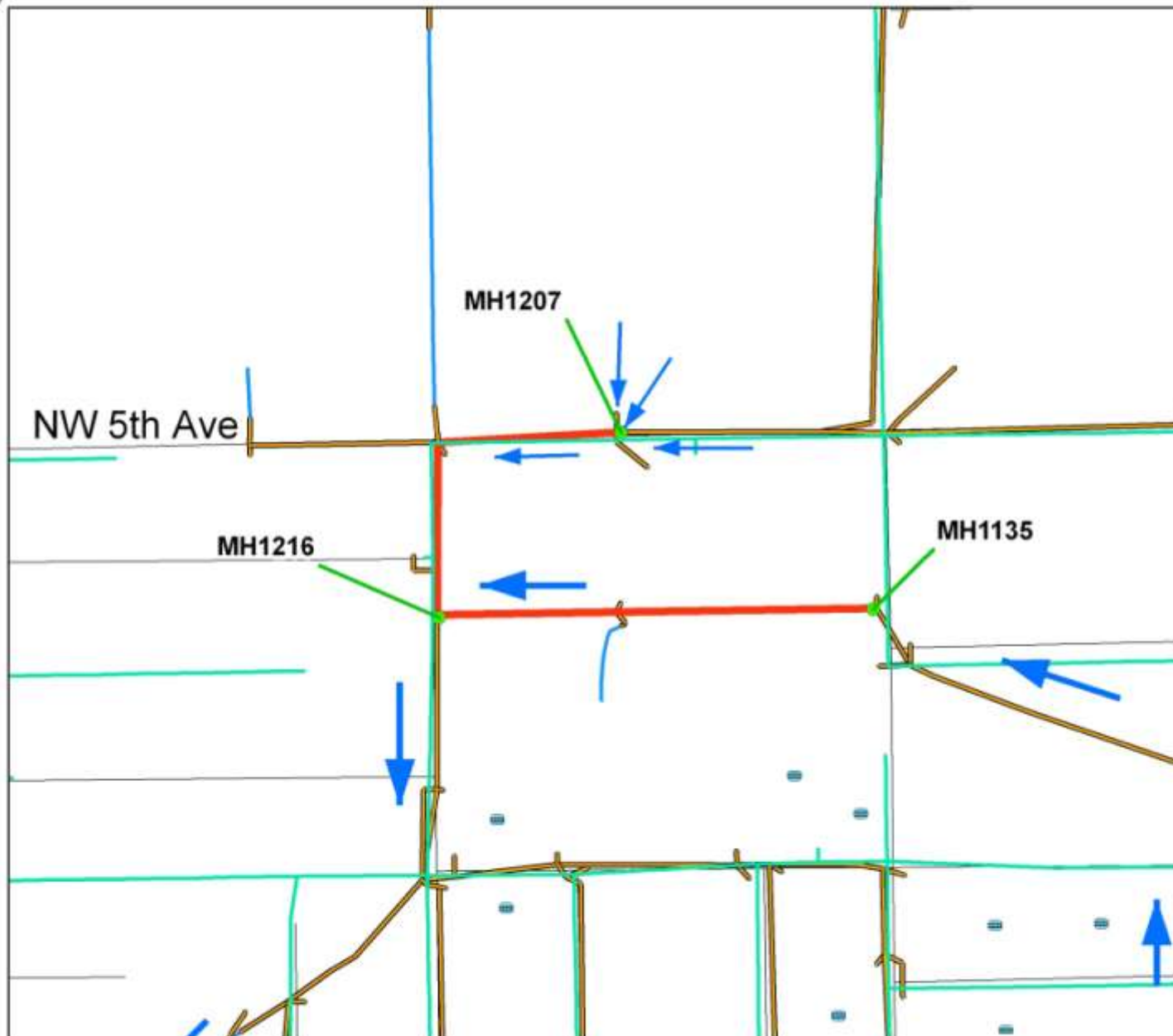
Elizabeth Creek Storm Sewer Targeted for Further Evaluation

Legend

- Targeted Storm Sewer
- Contributing Storm Sewer
- Creeks
- Major Roads
- Sample Locations
- Sanitary Sewer
- Septic Systems



0 150 300
Feet



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ACEPD Continues to
monitor Fecal coliform
levels at MH1216



GRU did inspect the
storm sewer in this area
using remote CCTV equipment



But found no conflicts or illicit connections

Sample ID	Jun 2	Jun 9	Jun 17	Aug 3	Aug 10	Aug 26	Geo Mean
MH1988S	34,400	1,850	1,300	60,000	1,500	240	5,948
MH1988E	10		200				45
MH1990		40			120		69
1990Seep					10		10



Elizabeth Creek Storm Sewer Targeted for Further Evaluation

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0 150 300
Feet



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Next Steps

ACEPD

- ☐ Continue to monitor the Fecal coliform levels
- ☐ Investigate possible sources

GRU

- ☐ Use the CCTV equipment to inspect the storm sewer



Rattlesnake Branch





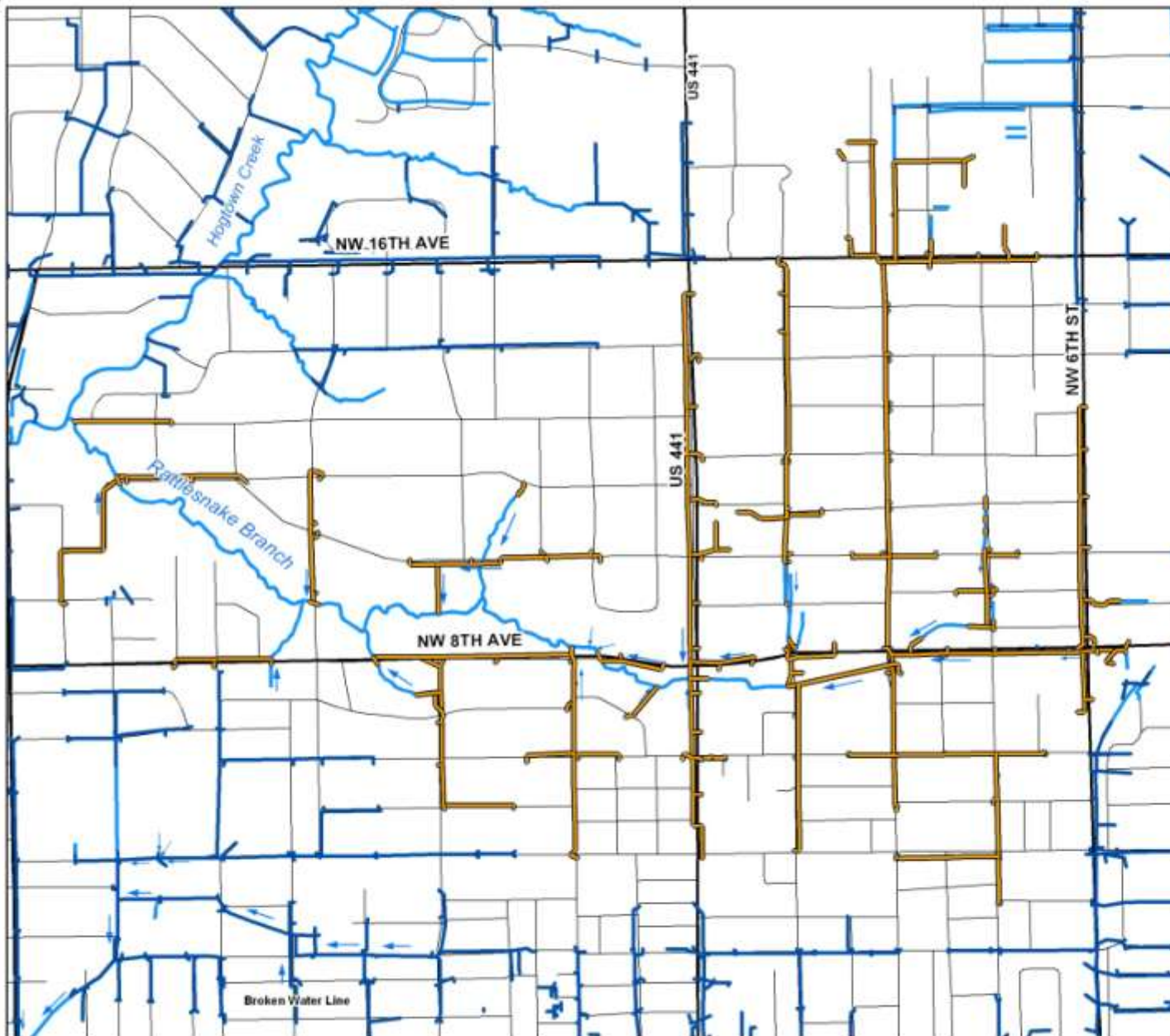
Rattlesnake Branch Storm Sewer Reconnaissance and Sampling Mar. - Aug. 2009

Legend

- Contributing Storm Sewer
- Creeks
- Major Roads
- Sample Locations



0 600 1,200
Feet



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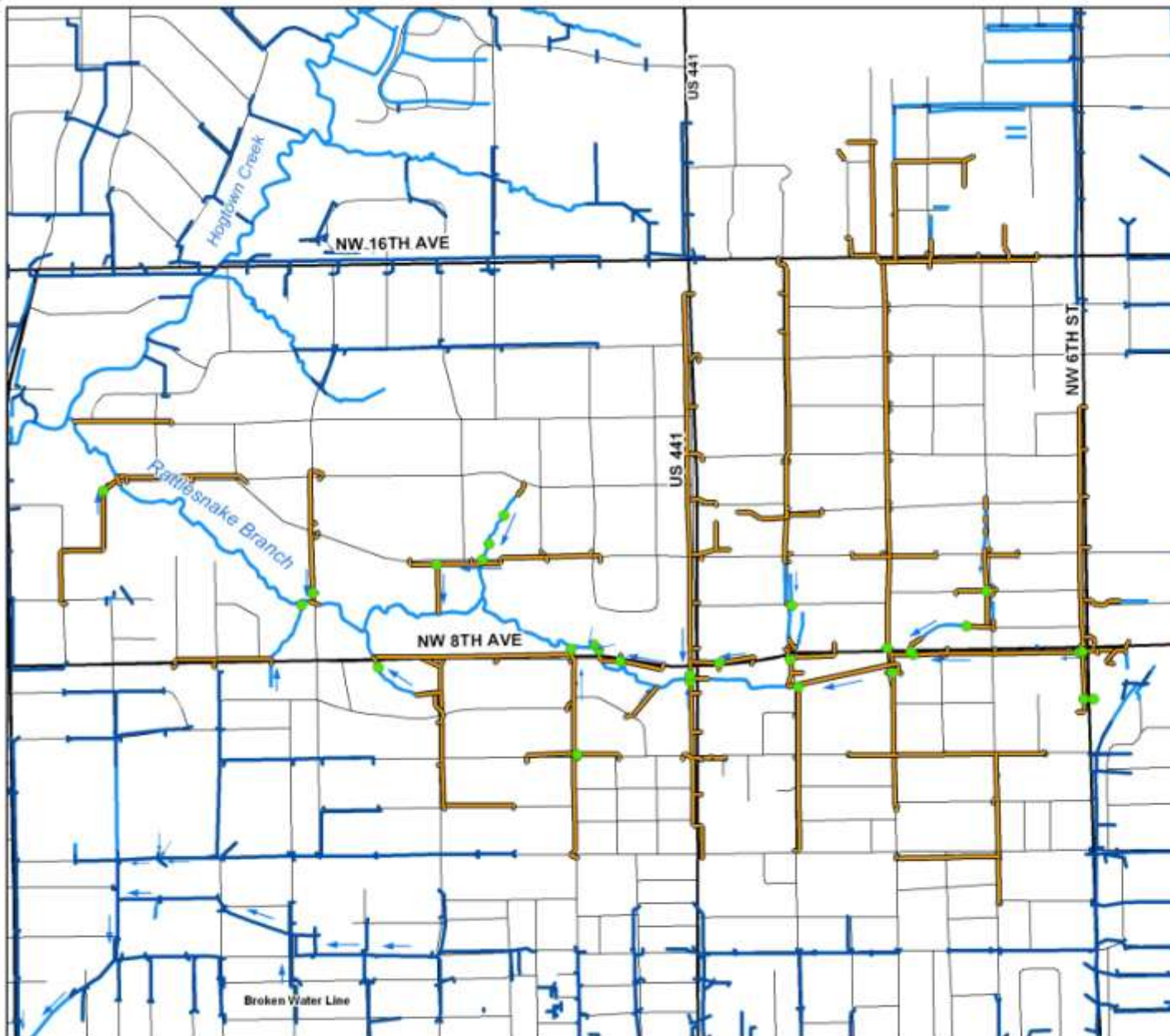
Rattlesnake Branch Storm Sewer Reconnaissance and Sampling Mar. - Aug. 2009

Legend

- Contributing Storm Sewer
- Creeks
- Major Roads
- Sample Locations



0 600 1,200
Feet



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Storm Sewer Sampling in Rattlesnake Creek





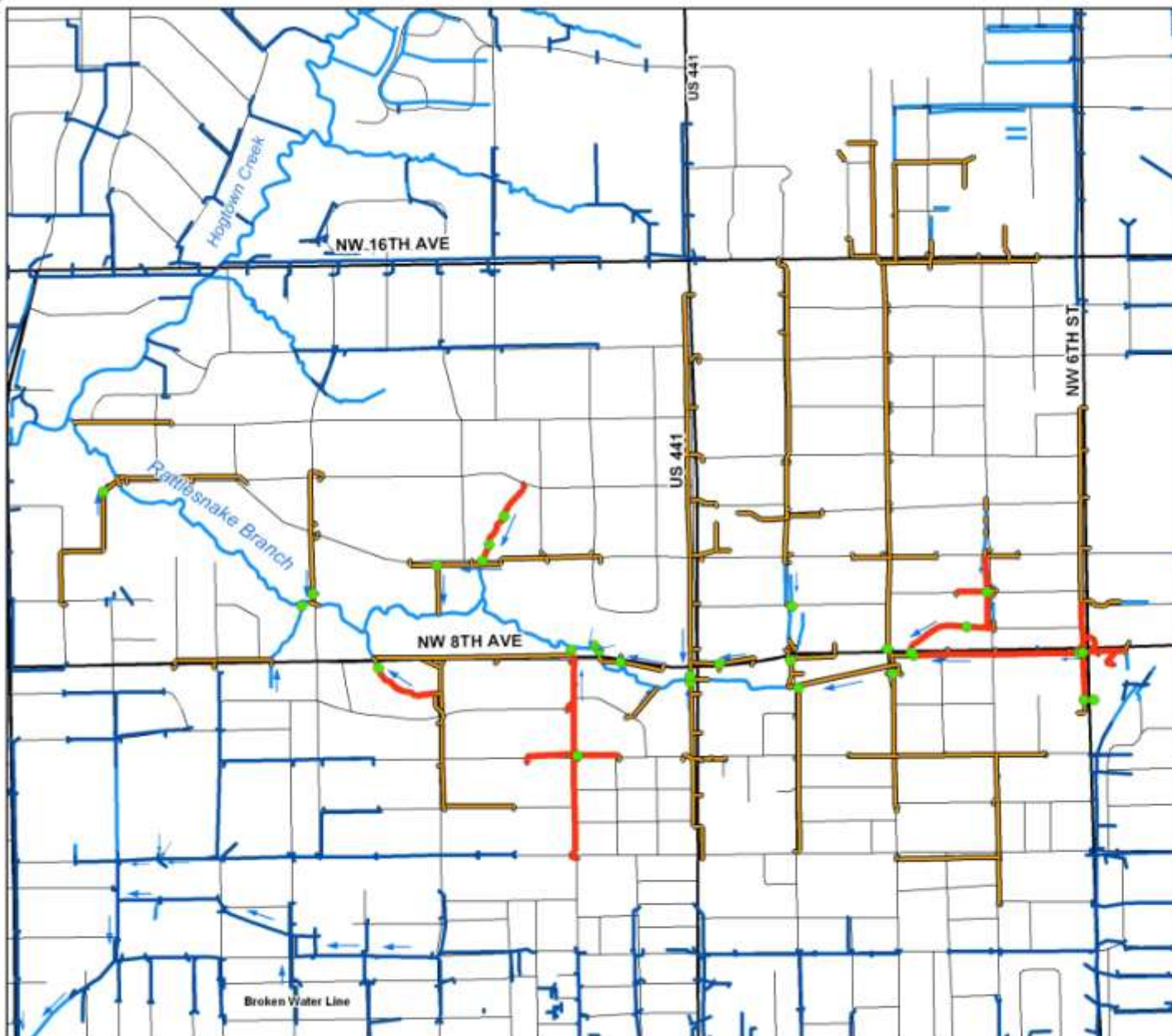
Rattlesnake Branch Storm Sewer Targeted for Further Evaluation

Legend

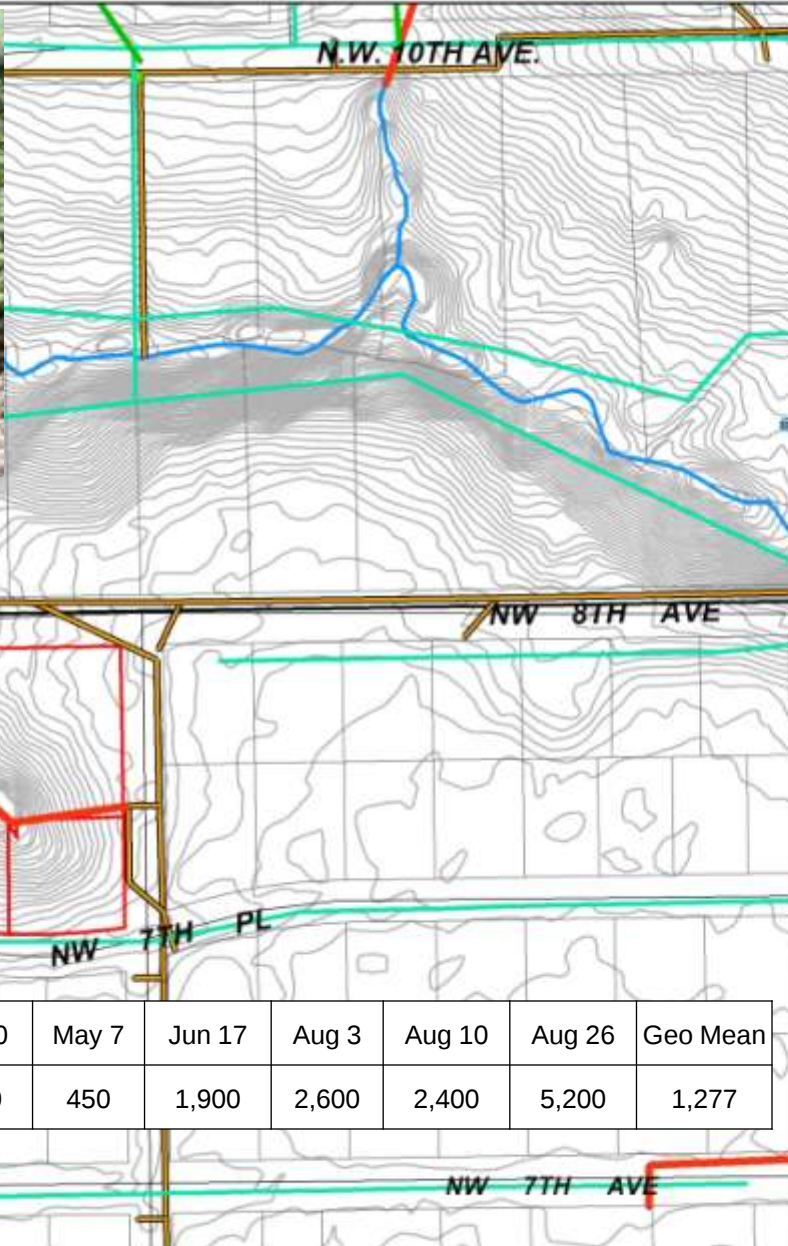
- Targeted Storm Sewer
- Contributing Storm Sewer
- Creeks
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- Sample Locations



0 600 1,200
Feet



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Trib818

Sample ID	Mar 17	Mar 23	Apr 30	May 7	Jun 17	Aug 3	Aug 10	Aug 26	Geo Mean
Trib818	400	490	1,300	450	1,900	2,600	2,400	5,200	1,277



Rattlesnake Branch Tributary Targeted for Further Evaluation

Legend

- Targeted Storm Sewer
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- Septic Systems
- Topography
- Parcels



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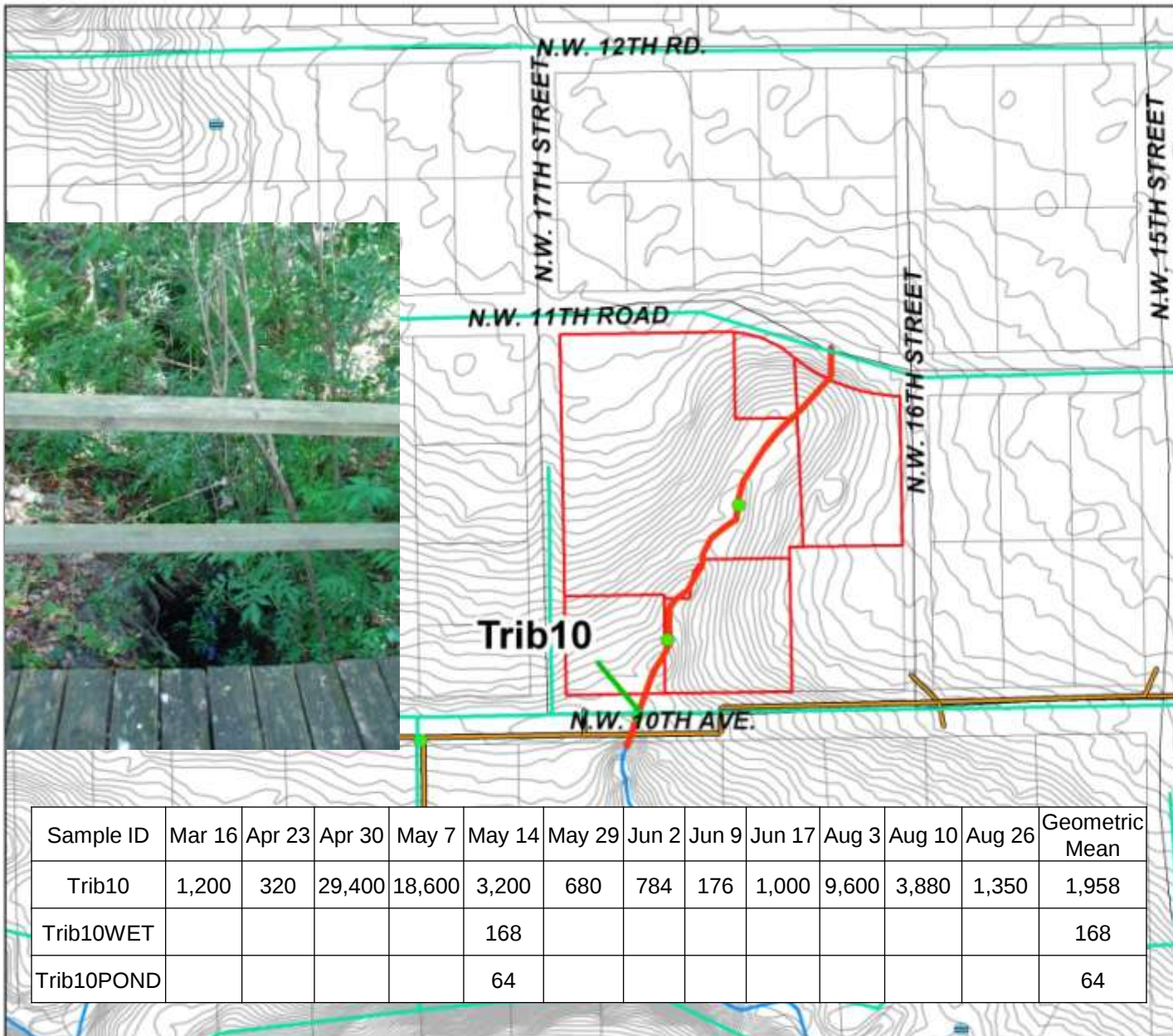
Rattlesnake Branch Tributary Targeted for Further Evaluation

Legend

- Targeted Storm Sewer
- Contributing Storm Sewer
- Creeks
- Major Roads
- Sample Locations
- Sanitary Sewer
-  Septic Systems
-  Topography
-  Parcels

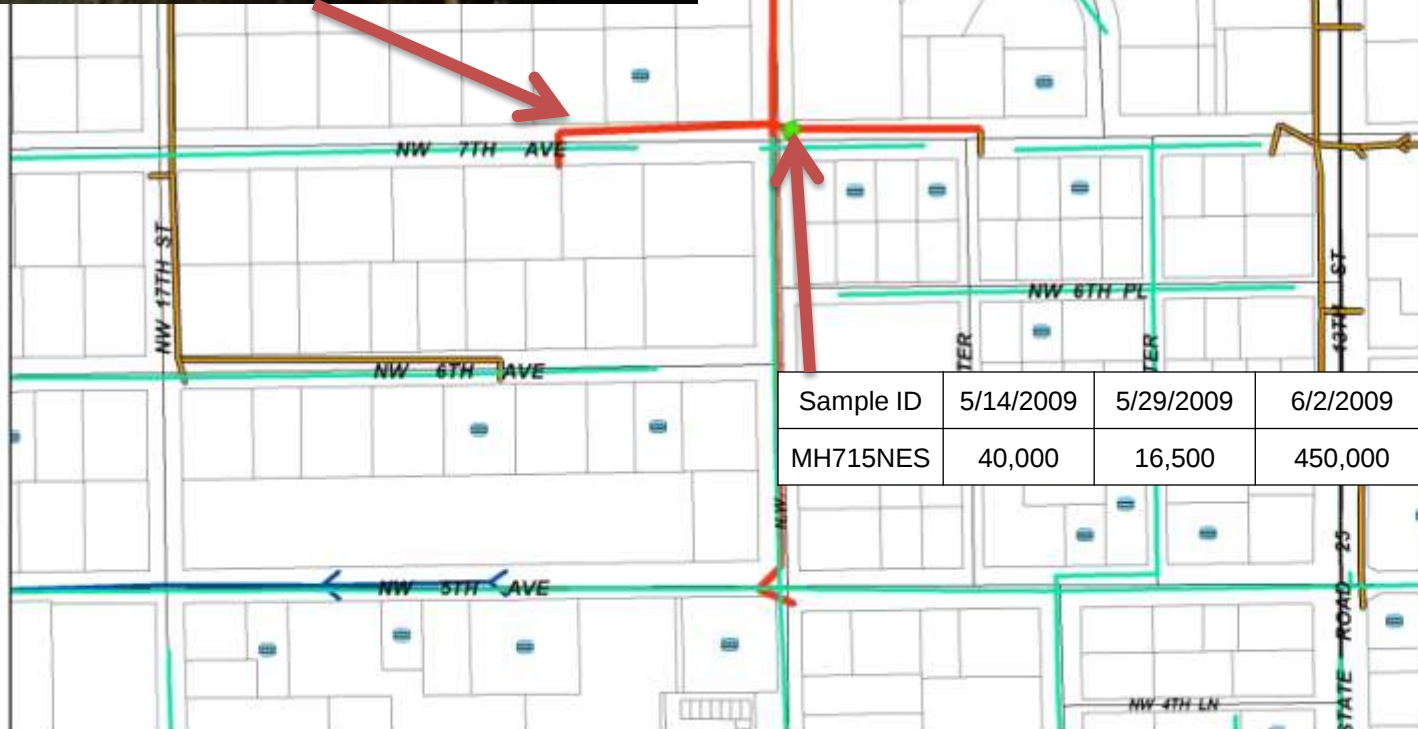


0 150 300
Feet



Sample ID	Mar 16	Apr 23	Apr 30	May 7	May 14	May 29	Jun 2	Jun 9	Jun 17	Aug 3	Aug 10	Aug 26	Geometric Mean
Trib10	1,200	320	29,400	18,600	3,200	680	784	176	1,000	9,600	3,880	1,350	1,958
Trib10WET					168								168
Trib10POND					64								64

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Sample ID	5/14/2009	5/29/2009	6/2/2009
MH715NES	40,000	16,500	450,000

Legend

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0 150 300 Feet



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06/02/09

19.9

MH START

MH STOP

11.7

11.7

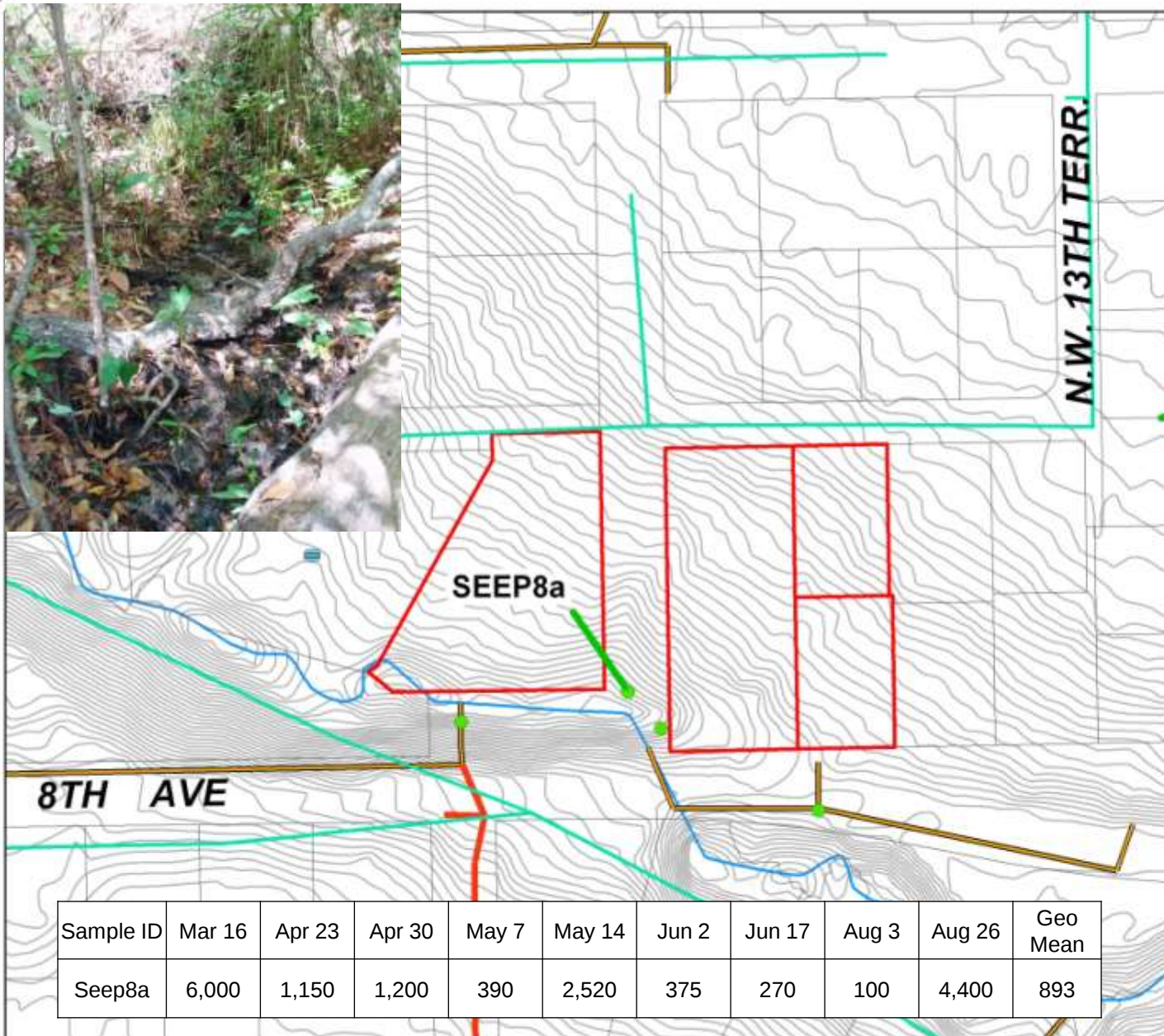
11.7

11.7



GRU immediately dug up and replaced the sanitary line which had been broken by tree roots





Sample ID	Mar 16	Apr 23	Apr 30	May 7	May 14	Jun 2	Jun 17	Aug 3	Aug 26	Geo Mean
Seep8a	6,000	1,150	1,200	390	2,520	375	270	100	4,400	893



Rattlesnake Branch Tributary Targeted for Further Evaluation

Legend

- Targeted Storm Sewer
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0 100 200
Feet



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Rattlesnake Branch Storm Sewer Targeted for Further Evaluation

Legend

- Targeted Storm Sewer
- Contributing Storm Sewer
- Creeks
- Major Roads
- Sample Locations
- Sanitary Sewer
- Septic Systems
- Parcels

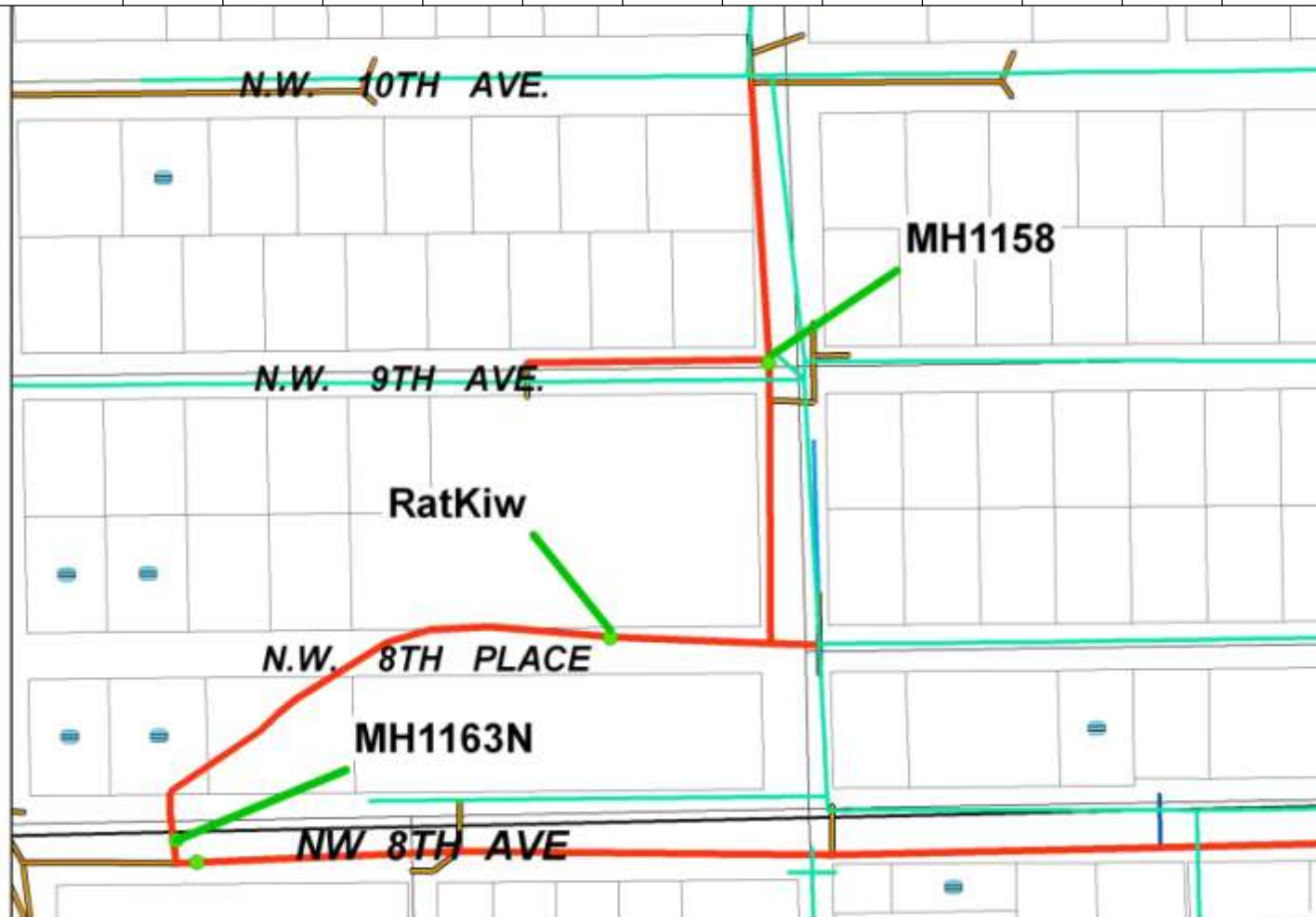


0 150 300
Feet



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Sample ID	Mar 17	Apr 23	Apr 30	May 7	May 14	Jun 2	Jun 9	Jun 17	Aug 3	Aug 10	Aug 26	Geo Mean
MH1163N	450	2,850	1,400	688	2,400							1,243
RATKIW					19,000	100	110	88	4490	560	768	621
MH1158					56							56



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Rattlesnake Branch Storm Sewer Targeted for Further Evaluation

Legend

- Targeted Storm Sewer
- Contributing Storm Sewer
- Creeks
- Major Roads
- Sample Locations
- Sanitary Sewer
- ▢ Septic Systems
- Parcels



0 100 200
Feet



Sample ID	Apr 30	May 7	May 14	May 29	Jun 2	Jun 9	Jun 18	Jun 29	Aug 3	Aug 10	Aug 26	Geometric Mean
MH1403	34,800	23,400	40,000	15,500	21,000		23,600					25,103
MH1403N					300							300
MH1402S					54,000	84,000	34,000	12,000	2,600	28,800	12,000	20,762
MH1402N					250		4,400	120				509
MH1402E					100							100
MHGPDW				10	100	100	200	20	100	10	10	38
MHGPE			10	10								3
MH1404							80					80
MH1409							10					10



attlesnake Branch Storm Sewer Targeted for Further Evaluation



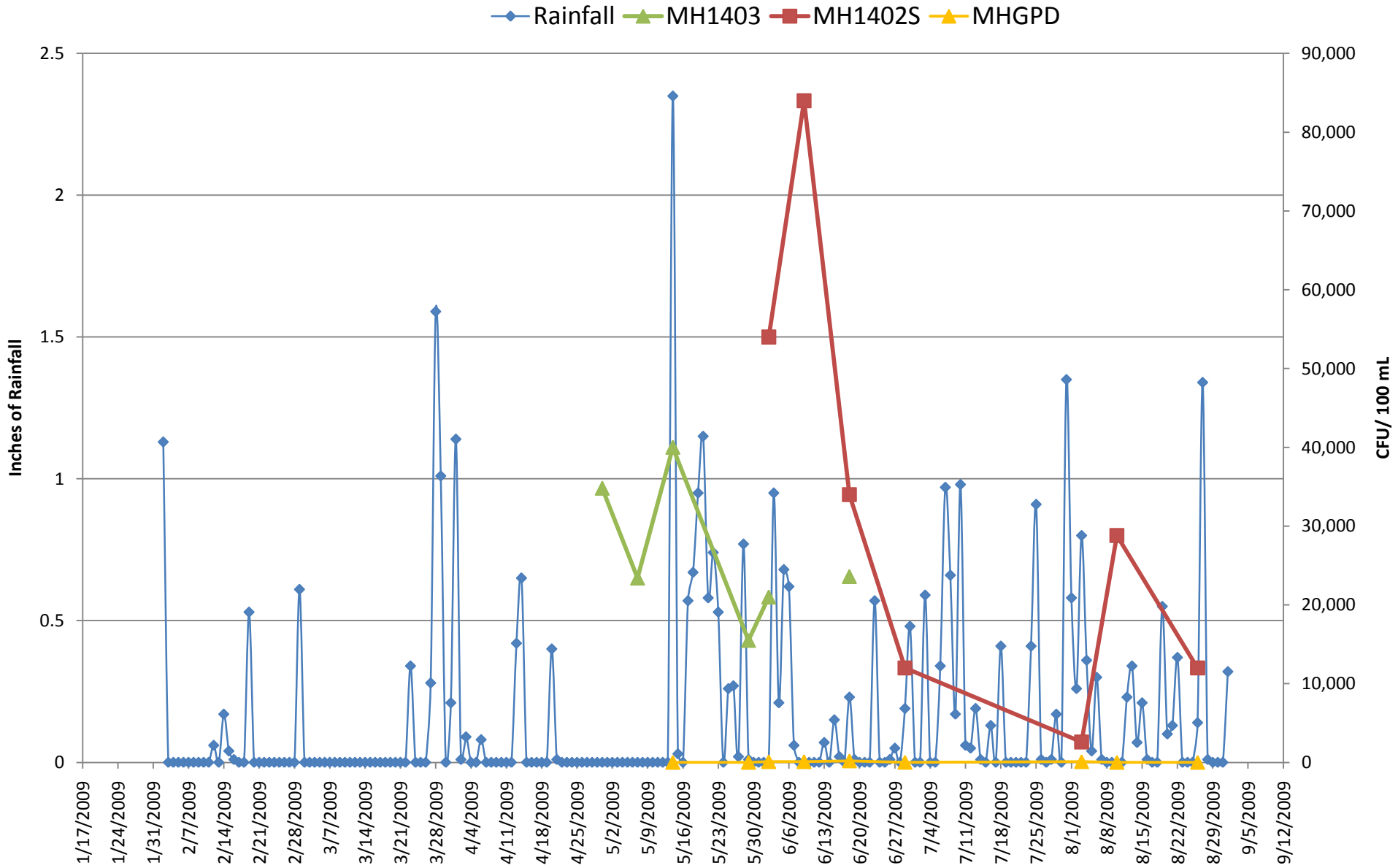
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06/23/09 13:56
8.0 FT.



Sample ID	Apr 30	May 7	May 14	May 29	Jun 2	Jun 9	Jun 18	Jun 29	Aug 3	Aug 10	Aug 26	Geometric Mean
MH1402S					54,000	84,000	34,000	12,000	2,600	28,800	12,000	20,762
MHGPDW				10	100	100	200	20	100	10	10	38





GHS Tributary





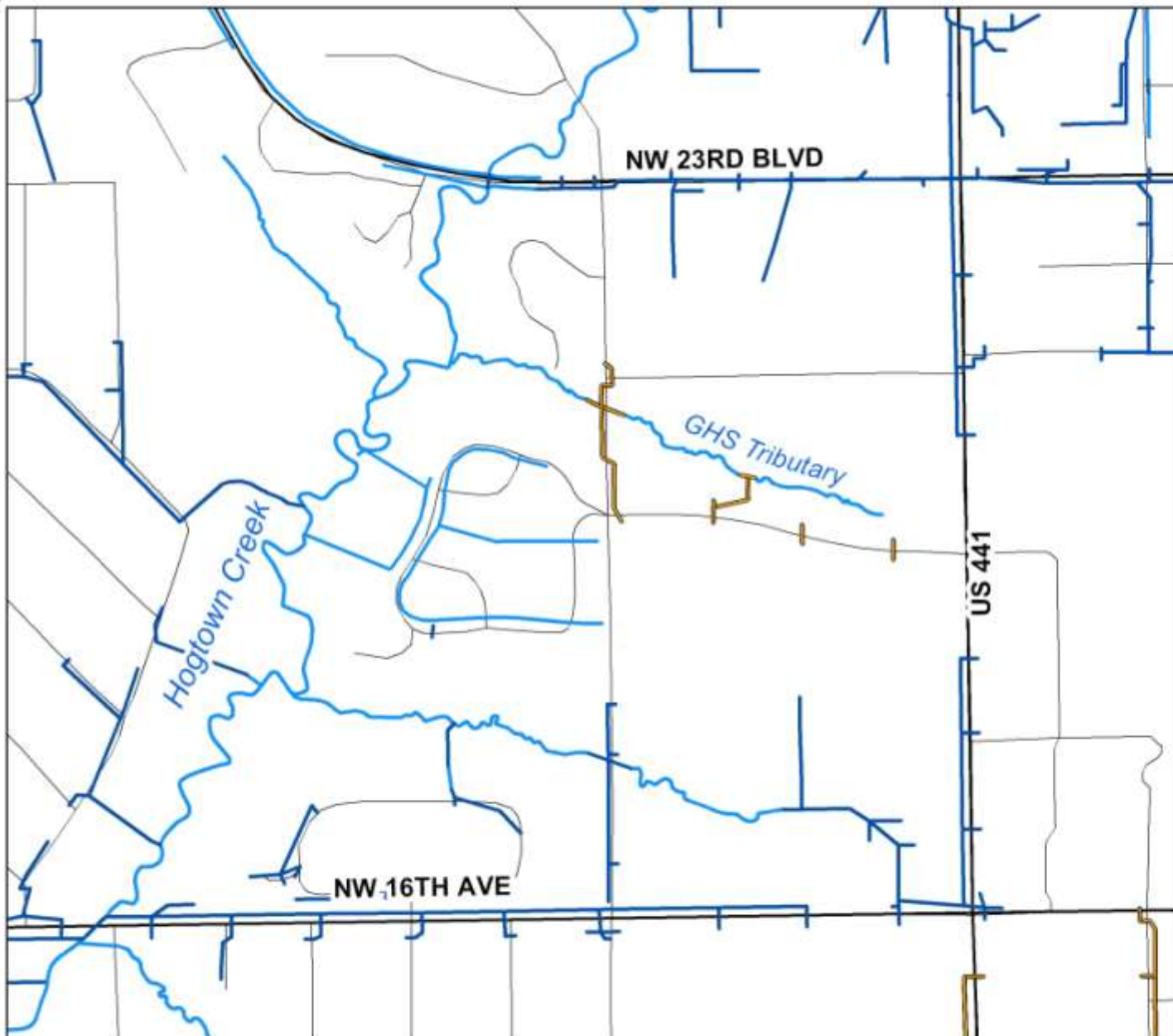
Tributary to Hogtown Creek Storm Sewer Reconnaissance and Sampling April - May, 2009

Legend

- Contributing Storm Sewer
- Creeks
- Major Roads



0 300 600 Feet



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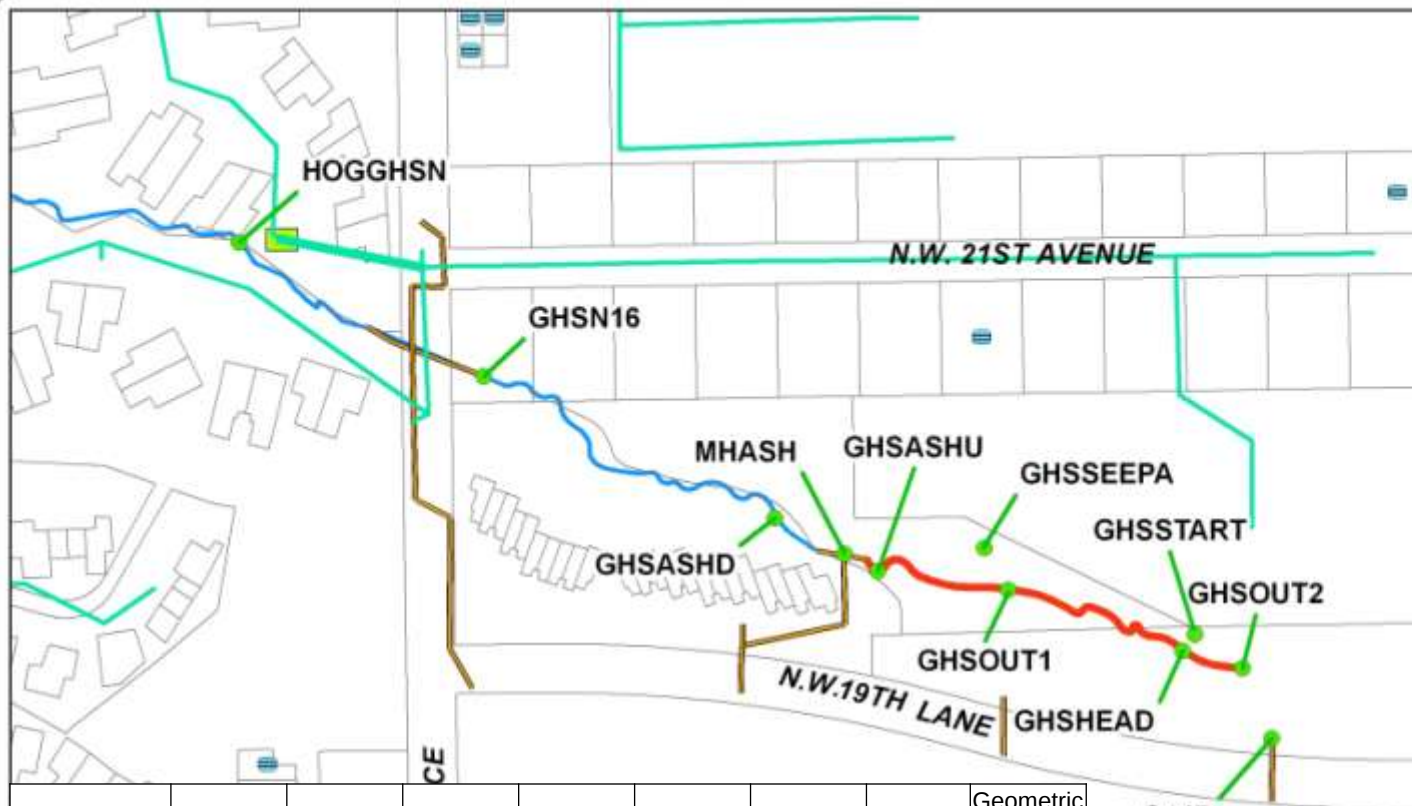
Tributary to Hogtown Creek Storm Sewer Reconnaissance and Sampling Apr. - Jun. 2009

Legend

- Targeted Storm Sewer
- Contributing Storm Sewer
- Creeks
- Major Roads
- Sample Locations
- Sanitary Sewer
-  Septic Systems
-  Parcels



0 150 300
Feet



Sample ID	Apr 30	May 7	May 14	May 29	Jun 2	Jun 9	Jun 17	Geometric Mean
HOGGHSN	1,800							1,800
GHSN16	8,400							8,400
GHSASHD	3,120							3,120
MHASH	10							10
GHSASHU	15,400	3,680	360	744	3,440	5,200	2,900	2,593
GHSOUT1		600	3,400				144	665
GHSHEAD		330	17,600					2,410
GHSOUT2		1,400	1,550				7,000	2,477
G14B		10						10
GHSSEEP			2,450					2,450
GHSSTART			688					688

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ACEPD will
continue
monitoring





What's Next?

❑ACEPD will continue ORI, storm sewer inspection and targeted sampling at

❑Rosewood Branch

❑Sweetwater Branch

❑Tumblin Creek

❑Possum Creek at NW 34th St

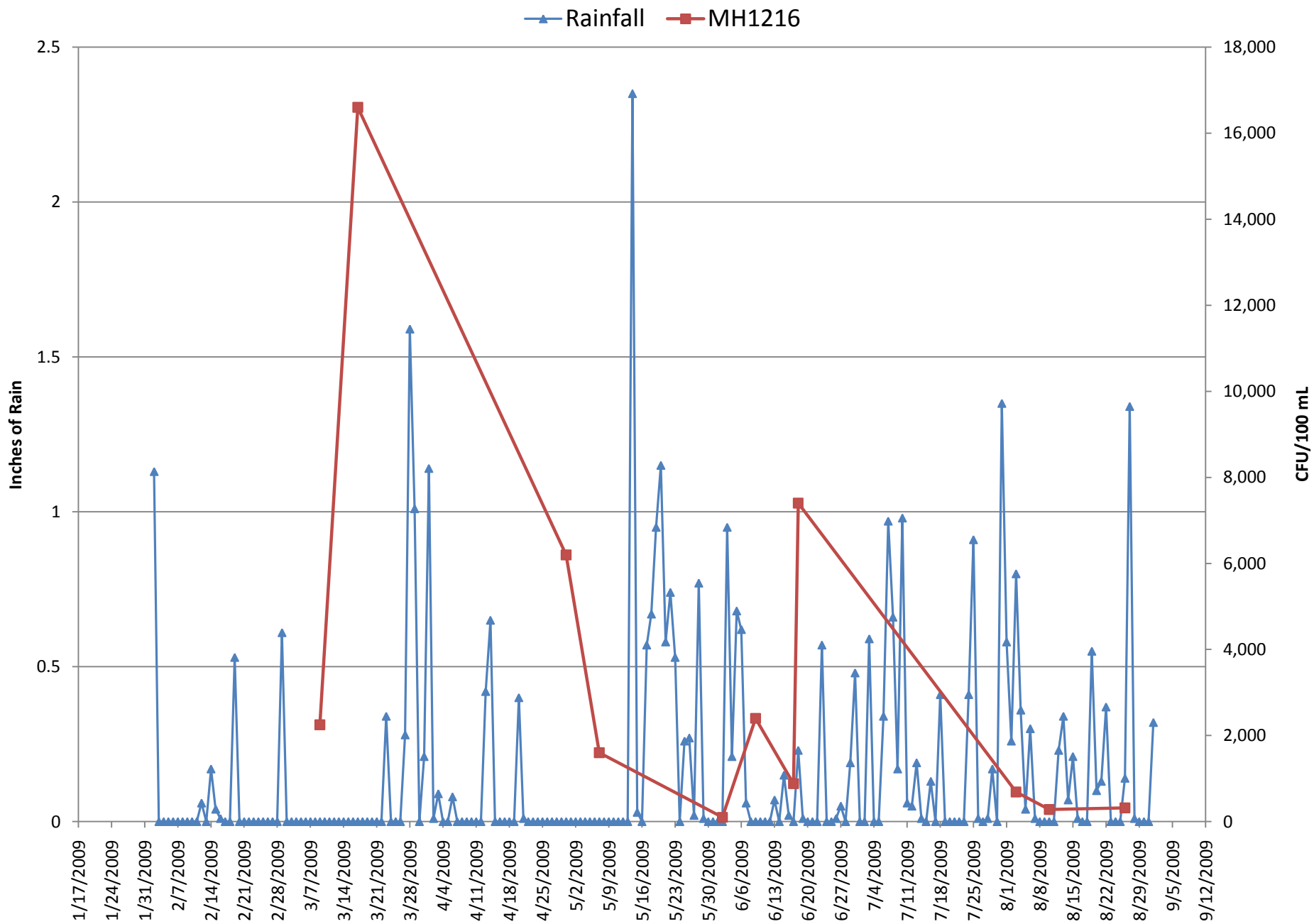
❑Little Hatchet Creek at Waldo Rd.

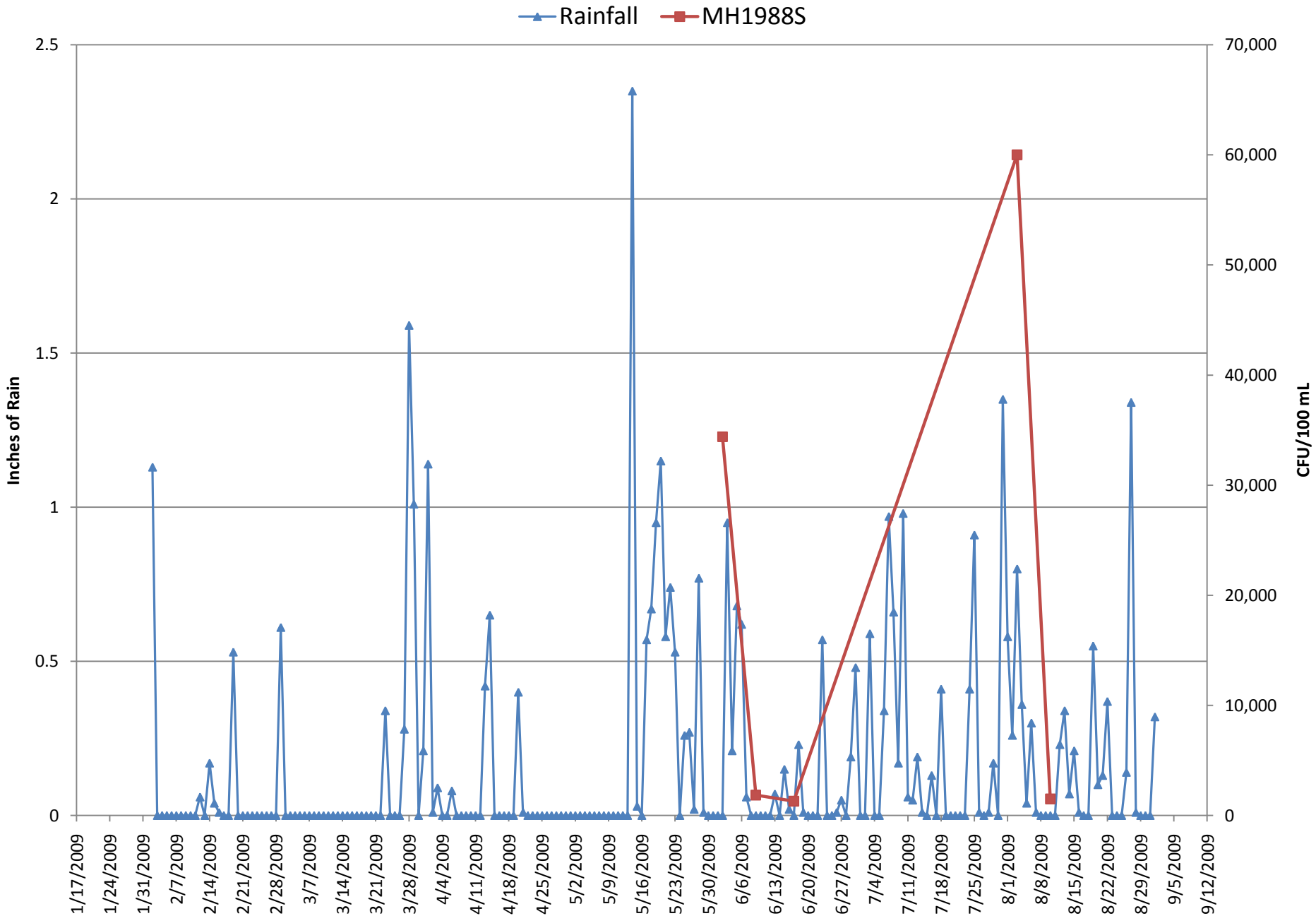
❑GRU and the City of Gainesville will continue to provide support with inspections of storm and sanitary sewer infrastructure

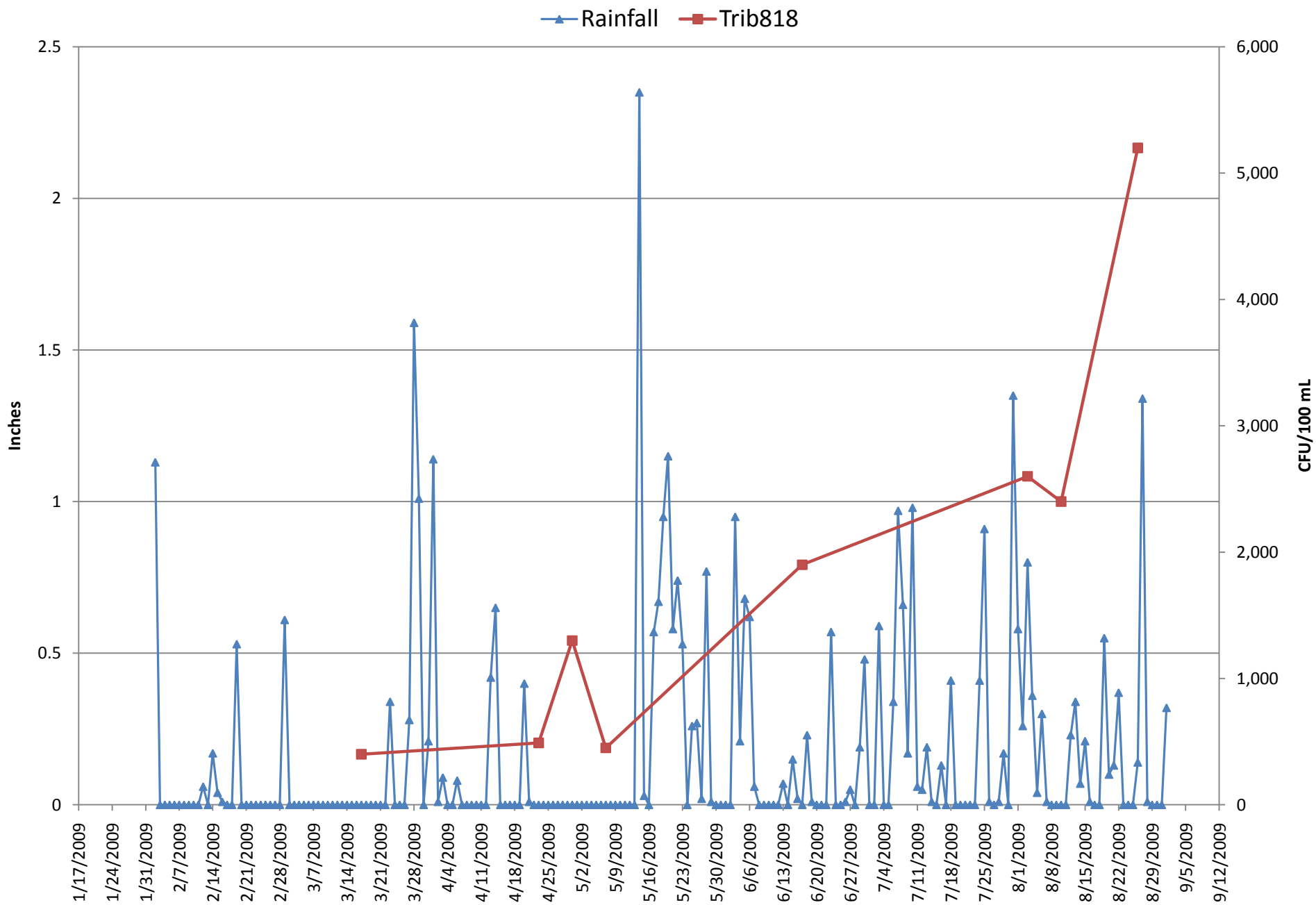
❑ACHD will inspect suspect OSTDS

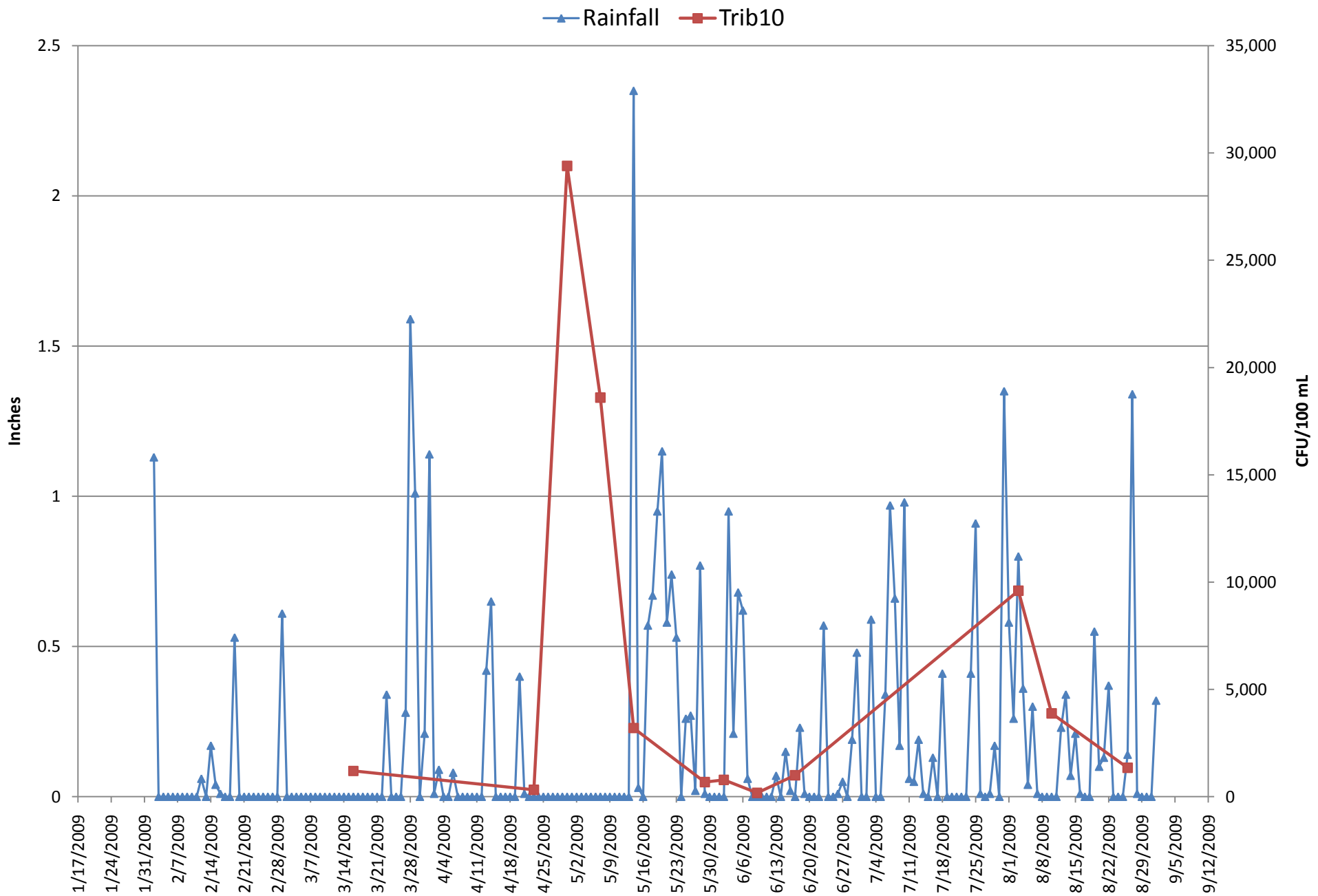
A photograph of a concrete drainage pipe set into a concrete wall. The pipe is circular and dark, with a small metal fitting visible at its base. Above the pipe, the letters 'R22A' are painted in orange. The concrete wall and surrounding ground are covered in moss and fallen leaves. The text 'Any Questions?' is overlaid in white on the pipe.

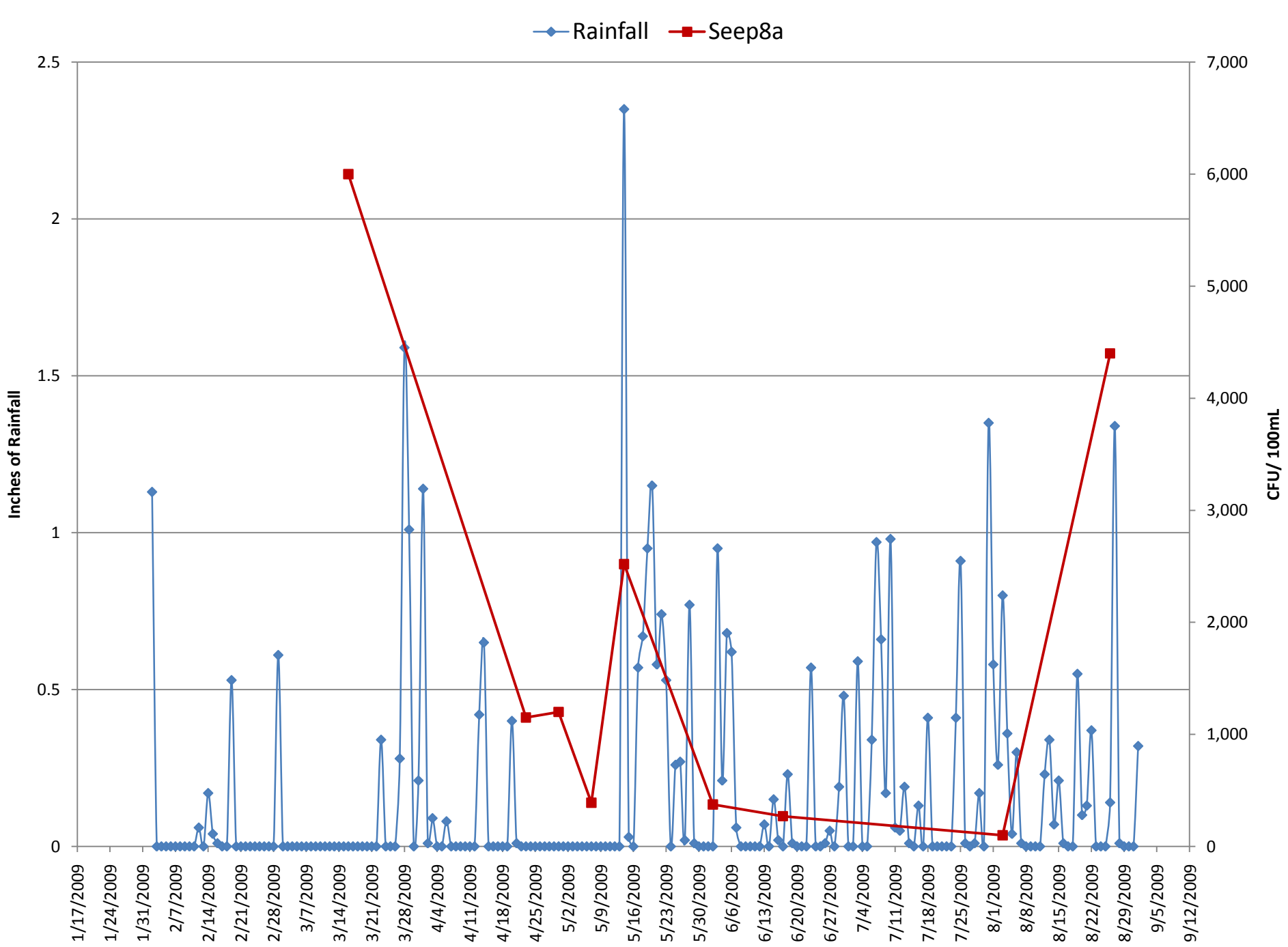
Any Questions?

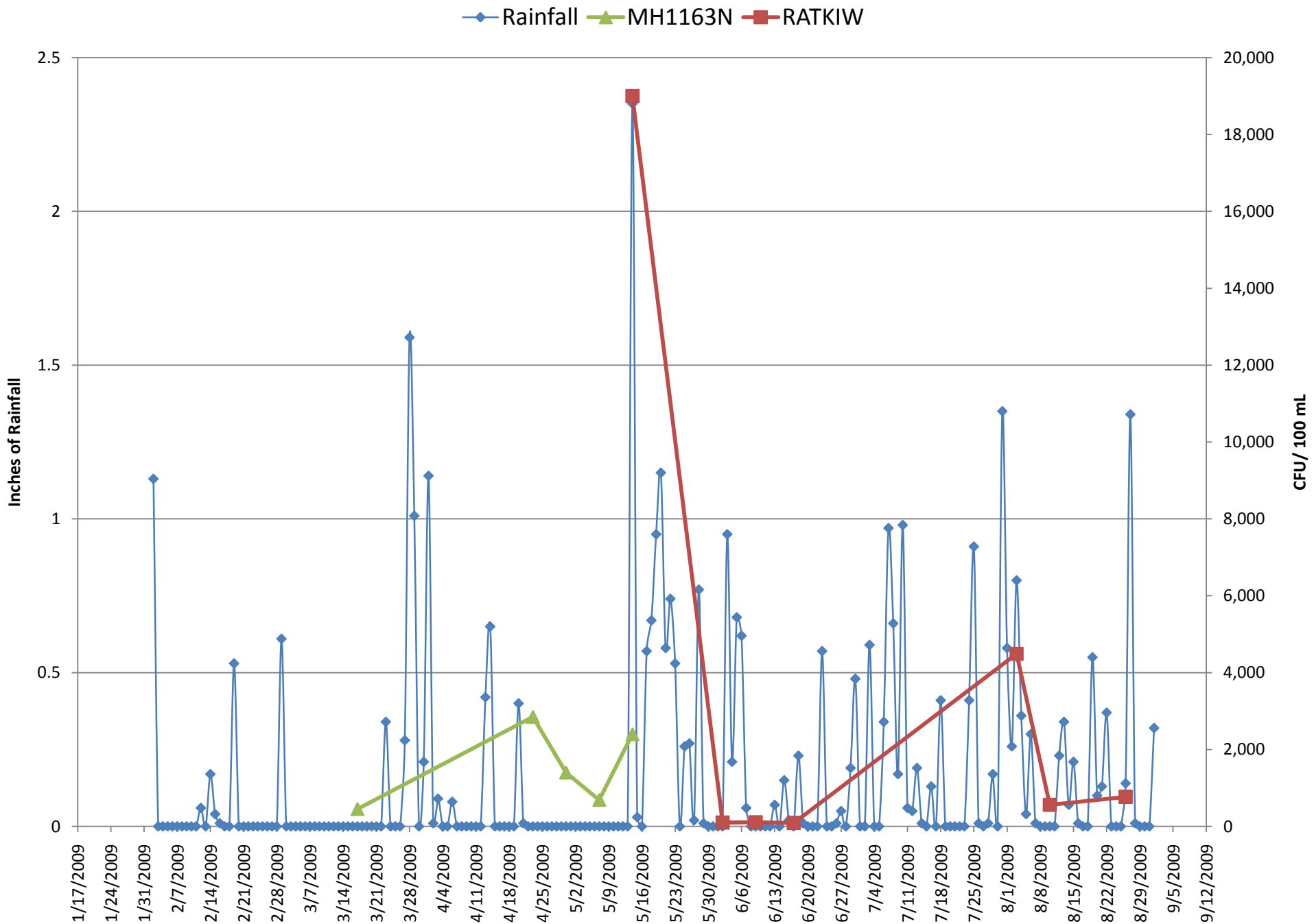


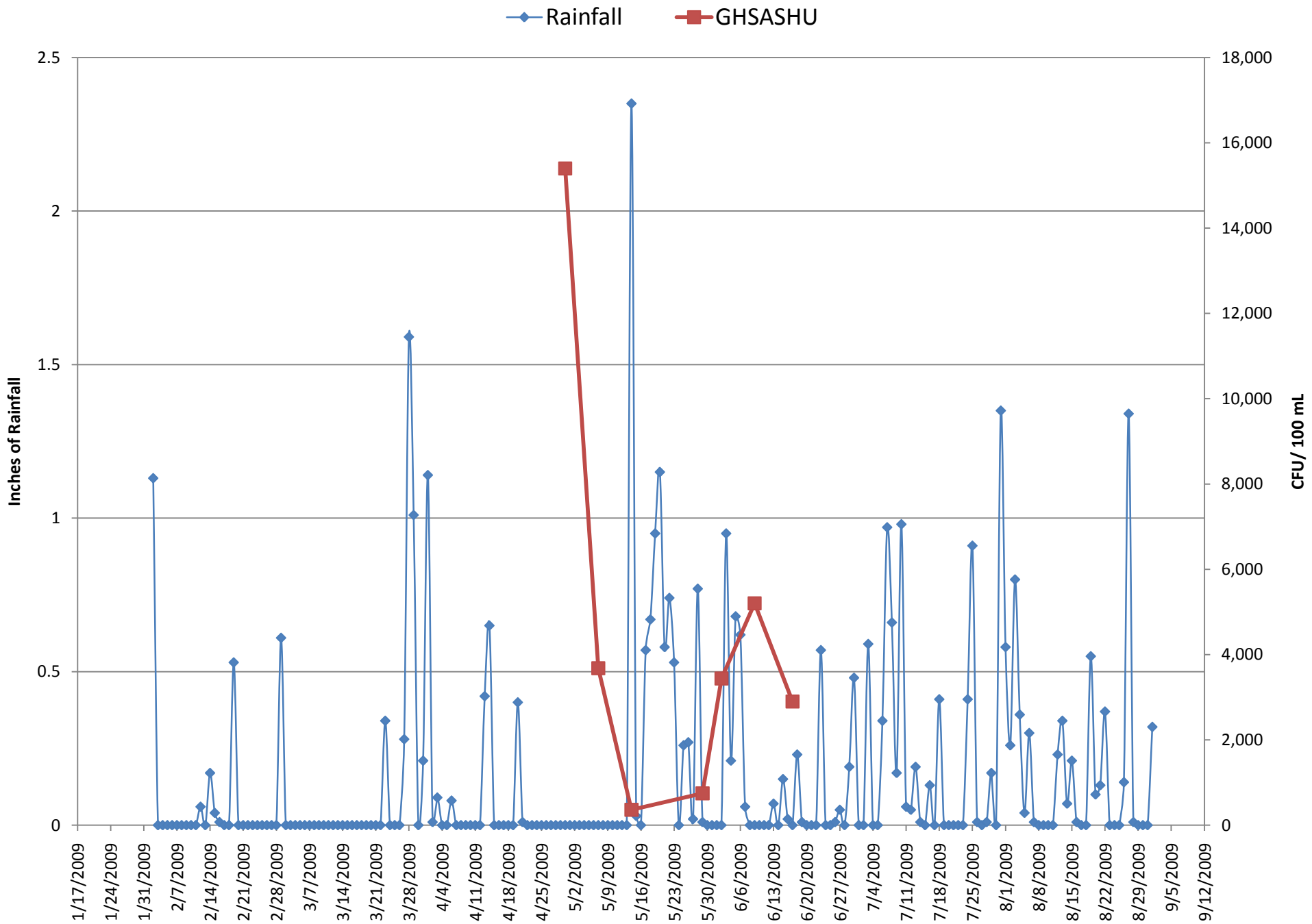












Recommendations for Further Evaluation of the Storm Sewer and Adjacent Sanitary Sewer of Elizabeth Creek



Dye Trace Sanitary Sewer
and Laterals



Smoke Test Sanitary Sewer
and Laterals



Video Inspection of Sanitary Sewer,
Laterals and Storm Sewer

