

369 East Park Drive Harrisburg, PA 17111 (717) 564-1121 www.hrg-inc.com

	MARCH 2018
	CHAPTER 94 WASTELOAD MANAGEMENT REPORT FOR CALENDAR YEAR 2017 SHINGLEHOUSE BOROUGH WWTP
	SHINGLEHOUSE POTTER COUNTY, PENNSYLVANIA
	HRG Project No. 004004.0430

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COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION BUREAU OF POINT AND NON-POINT SOURCE MANAGEMENT



CHAPTER 94 MUNICIPAL WASTELOAD MANAGEMENT ANNUAL REPORT

For Calendar Year: 2017

	 ☑ Permittee is owner and/or operator of a POTW or other sewage treatment facility ☐ Permittee is owner and/or operator of a collection system tributary to a POTW not owned/operated by permittee 							
	GENERAL INFORMATION							
Pe	Permittee Name: Shinglehouse Borough Permit No.: PA0036773							
Ma	ailing Address:	103 North Pleasant Street P.O. Box 156	Effective Date:	April 1, 2016				
Cit	y, State, Zip:	Shinglehouse, PA 16478	Expiration Date:	March 31, 2021				
Co	ntact Person:	Mark R. Meacham	Renewal Due Date:					
Tit	le:	Public Works Director / Wastewater Operator	Municipality:	Shinglehouse Borough				
Ph	one:	814-697-6912	County:	Potter				
En	nail:	shinglebsewer@yahoo.com	Consultant Name:	Herbert, Rowland & Grubic, Inc.				
		CHAPTER 94 REPOR	T COMPONENTS					
	 Attach to this report a line graph depicting the monthly average flows (expressed in MGD) for each month for the past 5 years and projecting the flows for the next 5 years. The graph must also include a line depicting the hydraulic design capacity per the WQM permit. (25 Pa. Code § 94.12(a)(1)) Check the appropriate boxes: □ Line graph for flows attached (Attachment A) □ DEP Chapter 94 Spreadsheet used (Attachment A) □ Section 1 is not applicable (report is for a collection system). 							
2.	 Attach to this report a line graph depicting the monthly average organic loads (express as lbs BOD5/day) for each month for the past 5 years and projecting the organic loads for the next 5 years. The graph must also include a line depicting the organic design capacity of the treatment plant per the WQM permit. (25 Pa. Code § 94.12(a)(2)) Check the appropriate boxes: ☑ Line graph for organic loads attached (Attachment A) ☑ DEP Chapter 94 Spreadsheet used (Attachment A) ☐ Section 2 is not applicable (report is for a collection system). 							

3.	If the DEP Chapter 94 Spreadsheet was not used to determine projections, discuss the basis for the hydraulic and organic projections. In all cases, include a description of the time needed to expand the plant to meet the load projections, if necessary, and data used to support the projections should be included in an appendix to this report. (25 Pa. Code § 94.12(a)(3))
	Based on the projected hydraulic and organic loadings for the next five years, no overloads are expected at the Shinglehouse Borough WWTP. Therefore, there is no need to expand the plant at this time.
4.	Attach a map showing all sewer extensions constructed within the past calendar year, sewer extensions approved or exempted in the past year in accordance with Act 537 and Chapter 71, but not yet constructed, and all known proposed projects which require public sewers but are in the preliminary planning stages. The map must be accompanied by a list summarizing each extension or project and the population to be served by the extension or project. If a sewer extension approval or proposed project includes schedules describing how the project will be completed over time, the listing should include that information and the effect this build-out-rate will have on populations served. (25 Pa. Code § 94.12(a)(4))
	Check the appropriate boxes: Map showing sewer extensions constructed, approved/exempted but not yet constructed, and proposed projects attached
	 ☐ List summarizing each extension or project attached ☐ Schedules describing how each project will be completed over time and effects attached
	Comments:
	No new connections were reported in 2017. The Shinglehouse Borough Sanitary Sewer System map can be found in Appendix E.
	There are currently no projected developments or sewer extensions that are in the preliminary planning stage for 2018.

5. Discuss the permittee's program for sewer system monitoring, maintenance, repair and rehabilitation, including routine and special activities, personnel and equipment used, sampling frequency, quality assurance, data analyses, infiltration/inflow monitoring, and, where applicable, maintenance and control of combined sewer regulators during the past year. Attach a separate sheet if necessary. (25 Pa. Code § 94.12(a)(5))

The Borough treatment facility personnel include one full time treatment plant operator and one full time employee to operate and maintain the wastewater treatment plant. The facility is staffed each day. No changes have been made to the wastewater system personnel in 2017.

Routine maintenance was performed throughout 2017. Manhole inspections were conducted in order to identify possible areas of inflow and infiltration problems or concerns. Cleaning and televising of the sewer lines were also conducted. 2,121.5' of 8" Vitrified Clay Pipe were inspected in 2017. No inflow and infiltration was found in these areas but repairs were found to be needed. Repairs needed will be completed in 2018. There were no repairs made in 2017. Smoke testing was not performed in 2017 and there was no inflow covers installed, although the Borough is scheduled to perform these tasks in 2018. The video inspection reports can be found in Attachment C. The Borough continues to investigate sources of inflow and infiltration and takes corrective action to reduce these sources of extraneous flow within their collection system.

The list of equipment at the WWTP is as follows:

- 1. Wacker G50 65 KW Generator
- 2. Hach Pocket Colorimeter 11 Chlorine meter
- 3. Hach Sension 1 pH meter
- 4. Prominent dosing pump chlorine
- 5. Model 3000 Muffin Grinder
- 6. Two (2) Flygt submersible recirculation pumps
- 7. Three (3) Sutorbilt 4 hp blowers for digesters
- 8. One (1) 4x11 model EV Wemco Torque Flow Influent Pump
- 9. One (1) Chicago Influent Pump
- 10. Two (2) Chicago VTX Vortex Sludge Pumps
- 11. Two (2) Flygt Submersible Pumps in Effluent Pumping Station

Influent sampling and monitoring are taken at the Headworks while effluent samples and are taken at the outfall in the chlorine contact tank. The sample times are 06:30, 08:30, 10:30, 12:30, 02:30, 04:30. All sampling and monitoring are done in accordance to permit requirements as follows:

PARAMETER	FREQUENCY	TYPE	
Flow	Continuous	Measured	
pH	Daily	Grab	
Total Residual Chlorine	Daily	Grab	
Fecal Coliform	Weekly	Grab	
BOD5	Weekly	Composite	
Suspended Solids	Weekly	Composite	

The Borough's wastewater treatment plant operator and contracted laboratory conducts the testing in accordance with EPA testing procedures. The testing lab that is used for sample analysis is Fairway Labs located in Altoona, PA.

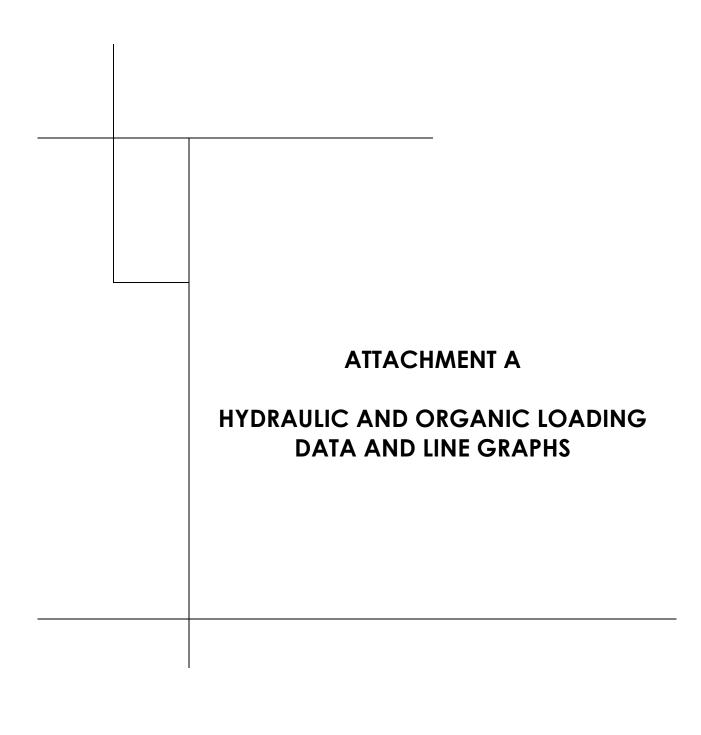
6.	Discuss the condition of the sewer system including portions of the system where conveyance capacity is being exceeded or will be exceeded in the next 5 years and portions where rehabilitation or cleaning is needed or is underway to maintain the integrity of the system and prevent or eliminate bypassing, CSOs, SSOs, excessive infiltration and other system problems. Attach a separate sheet if necessary. (25 Pa. Code § 94.12(a)(6))
	 Check the appropriate boxes: ☐ System experienced capacity-related bypassing, SSOs or surcharging during the report year. On a separate sheet, list the date, location, and reason for each bypass, SSO or surcharge event. ☐ System did not experience capacity-related bypassing, SSOs or surcharging during the report year.
	Comments:
	The sanitary sewer system is monitored on a regular basis through preventative maintenance activities to optimize the operation of the system and to minimize the occurrence of system failures. There were no reported repairs to the collection system in 2017. As mentioned above, the Borough inspected manholes and completed CCTV inspections throughout 2017. No overflows or backups were reported or found.
	The Borough plans on continuing in 2018 to investigate and identify any areas of inflow and infiltration. The activities are as follows:
	1. Internal video inspection and cleaning
	Smoke Testing Install inflow covers for manholes
	4. Repair issues found from 2017 inspections
	Per direction by the PA DEP, the Borough is currently preparing an Act 537 Sewage Facilities Plan to address aged WWTP equipment. The Act 537 Plan will be submitted in 2018. Upon approval of the Act 537 Plan, the Borough will submit Water Quality Management (WQM) Part II Permit Applications for phased improvements to the WWTP. Phase I will include new screening and grit removal as well as improved chemical feed equipment.
7.	Attach a discussion on the condition of sewage pumping (pump) stations. Include a comparison of the maximum pumping rate with present maximum flows and the projected 2-year maximum flows for each station. (25 Pa. Code § 94.12(a)(7))
	Check the appropriate boxes:
	The collection system does not contain pump stations
	☐ The collection system does contain pump stations (Attachment D)☐ Discussion of condition of each pump station attached
	The Borough has two pump stations; the Mill Street and Low Street Pump Stations. These two systems performed well and received general maintenance throughout the year. No change was reported for the 2017 operating year.
	The Mill Street Pump Station utilizes two (2) Flygt pumps; each rated at 150 gpm (2.5 hp, and 1700 rpm). The Low Street Pump Station utilizes two Hydromatic pumps; each rated at 2.0 hp with 60 gpm capacity. The pumps normally operate in alternate fashion.
	The calculated flows for these pump stations during 2017 can be found in Attachment D. Based on a peaking factor of 4.0, these pumps are adequate for the flow received.

8.		ne sewage collection system receives industrial wastes (i.e., non-sanitary wastes), attach a report with the information ed below. (25 Pa. Code § 94.12(a)(8))
	a.	A copy of any ordinance or regulation governing industrial waste discharges to the sewer system or a copy of amendments adopted since the initial submission of the ordinance or regulation under Chapter 94, if it has not previously been submitted.
	b.	A discussion of the permittee's or municipality's program for surveillance and monitoring of industrial waste discharges into the sewer system during the past year.
	C.	A discussion of specific problems in the sewer system or at the plant, known or suspected to be caused by industrial waste discharges and a summary of the steps being taken to alleviate or eliminate the problems. The discussion shall include a list of industries known to be discharging wastes which create problems in the plant or in the sewer system and action taken to eliminate the problem or prevent its recurrence. The report may describe pollution prevention techniques in the summary of steps taken to alleviate current problems caused by industrial waste dischargers and in actions taken to eliminate or prevent potential or recurring problems caused by industrial waste dischargers.
	Ch	eck the appropriate boxes:
		Industrial waste report as described in 8 a., b. and c. attached
		Industrial pretreatment report as required in an NPDES permit attached
	The	e facility receives no industrial wastewater.
9.	Exi	sting or Projected Overload.
	Ch	eck the appropriate boxes:
		This report demonstrates an existing hydraulic overload condition.
		This report demonstrates a projected hydraulic overload condition.
		This report demonstrates an existing organic overload condition.
		This report demonstrates a projected organic overload condition.
	pro	ne or more boxes above have been checked, attach a Corrective Action Plan (CAP) to reduce or eliminate present or jected overloaded conditions under §§ 94.21 and/or 94.22 (relating to existing overload and projected overload). (25 Code § 94.12(a)(9))
		Corrective Action Plan attached
	The	ere were no reported overloads (hydraulic or organic) in 2017.
10	\//b	ere required by the NPDES permit, attach a Sewage Sludge Management inventory that demonstrates a mass
10.		ance of solids coming in and leaving the facility over the previous calendar year.
		Sewage Sludge Management Inventory attached
		bypasses were experienced or recorded in 2017. The Wastewater Treatment Plant bypass line at the head of WWTP was permanently plugged in February 2010.

3800-FM-BPNPSM0507 4/2014 Chapter 94 Report Instructions

11. For facilities with CSOs and where required by the NPDES permit, attach an Annual CSO Report (including satellite combined sewer systems).					
☐ Annual CSO Report attached					
12. For POTWs, attach a calibration report documenting that flow measuring, indicating and recording equipment has been calibrated annually. (25 Pa. Code § 94.13(b))					
RESPONSIBLE OFFICIAL CERTIFICATION					
I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowledge of violations. See 18 Pa. C.S. § 4904 (relating to unsworn falsification).					
Mark Meacham					
Name of Responsible Official Signature					
(814) 697-6912 Date					

PREPARER CERTIFICATION				
I certify under penalty of law that this document and all attachments were prepared by me or otherwise under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. The information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowledge of violations. See 18 Pa. C.S. § 4904 (relating to unsworn falsification).				
Jeffrey J. Harman Jr., E.I.T.				
Name of Preparer	Signature			
(717) 564-1121				
Telephone No.	Date			





PADEP Chapter 94 Spreadsheet Sewage Treatment Plants

Reporting Year: 2017

SHINGLEHOUSE BOROUGH WWTP **Facility Name:**

PA0036773 Permit No.:

Persons/EDU:

lbs BOD5/day

2.5

Existing Hydraulic Design Capacity: Upgrade Planned in Next 5 Years? **Future Hydraulic Design Capacity:**

0.16	MGD		
NO		Year:	
	MGD	,	

Existing Organic Design Capacity: Upgrade Planned in Next 5 Years? **Future Organic Design Capacity:**

Load/EDU

Load/Capita

Exist. Overload?

Proj. Overload?

0.090

0.036

NO

447 NO

Monthly Average BOD5 Loads for Past Five Years (lbs/day)

0.102

0.041

Projected BOD5 Loads for Next Five Years (lbs/day)

NO

0.128

0.051

NO

0.120

0.048

NO

NO

lbs BOD5/day Year:

Monthly Average FI	lows for Past Five	Years (MGD)
--------------------	--------------------	-------------

Month	2013	2014	2015	2016	2017
January	0.079	0.085	0.047	0.067	0.128
February	0.088	0.074	0.056	0.085	0.089
March	0.082	0.089	0.089	0.068	0.065
April	0.072	0.097	0.132	0.073	0.115
May	0.066	0.122	0.048	0.066	0.085
June	0.06	0.072	0.094	0.045	0.055
July	0.06	0.061	0.051	0.04	0.052
August	0.054	0.068	0.047	0.046	0.044
September	0.072	0.05	0.063	0.04	0.044
October	0.06	0.046	0.079	0.079	0.057
November	0.076	0.056	0.067	0.049	0.067
December	0.096	0.063	0.107	0.074	0.053
Annual Avg	0.072	0.074	0.073	0.061	0.071
Max 3-Mo Avg	0.083	0.103	0.092	0.086	0.097
Max : Avg Ratio	1.15	1.39	1.26	1.41	1.37
Existing EDUs	609.0	609.0	609.0	607.0	587.0*
Flow/EDU (GPD)	118.2	121.5	119.9	100.5	121.0
Flow/Capita (GPD)	47.3	48.6	47.9	40.2	48.4
Exist. Overload?	NO	NO	NO	NO	NO

2013	2014	2015	2016	2017
59	63	65	62	45
45	56	46	77	134
89	89	49	112	70
62	97	62	106	76
81	134	80	85	74
56	47	71	104	68
32	42	38	106	73
47	37	48	89	48
56	34	88	65	66
31	36	39	46	63
47	106	71	43	64
55	66	88	38	68
55	67	62	78	71
89	134	88	112	134
1.62	1.99	1.42	1.44	1.89
609	609	609	607	587
	59 45 89 62 81 56 32 47 56 31 47 55 55 89 1.62	59 63 45 56 89 89 62 97 81 134 56 47 32 42 47 37 56 34 31 36 47 106 55 66 55 67 89 134 1.62 1.99	59 63 65 45 56 46 89 89 49 62 97 62 81 134 80 56 47 71 32 42 38 47 37 48 56 34 88 31 36 39 47 106 71 55 66 88 55 67 62 89 134 88 1.62 1.99 1.42	59 63 65 62 45 56 46 77 89 89 49 112 62 97 62 106 81 134 80 85 56 47 71 104 32 42 38 106 47 37 48 89 56 34 88 65 31 36 39 46 47 106 71 43 55 66 88 38 55 67 62 78 89 134 88 112 1.62 1.99 1.42 1.44

Projected Flows for Next Five Years (MGD)

	2018	2019	2020	2021	2022
New EDUs	2.0	2.0	2.0	2.0	2.0
New EDU Flow	0.0002	0.0002	0.0002	0.0002	0.0002
Proj. Annual Avg	0.07	0.0702	0.0704	0.0706	0.0708
Proj. Max 3-Mo Avg	0.092	0.092	0.093	0.093	0.093
Proj. Overload?	NO	NO	NO	NO	NO

	2018	2019	2020	2021	2022
New EDUs	2	2	2	2	2
New EDU Load	0.220	0.220	0.220	0.220	0.220
Proj. Annual Avg	67	67	67	67	68
Proj. Max Avg	112	112	112	113	113

0.110

0.044

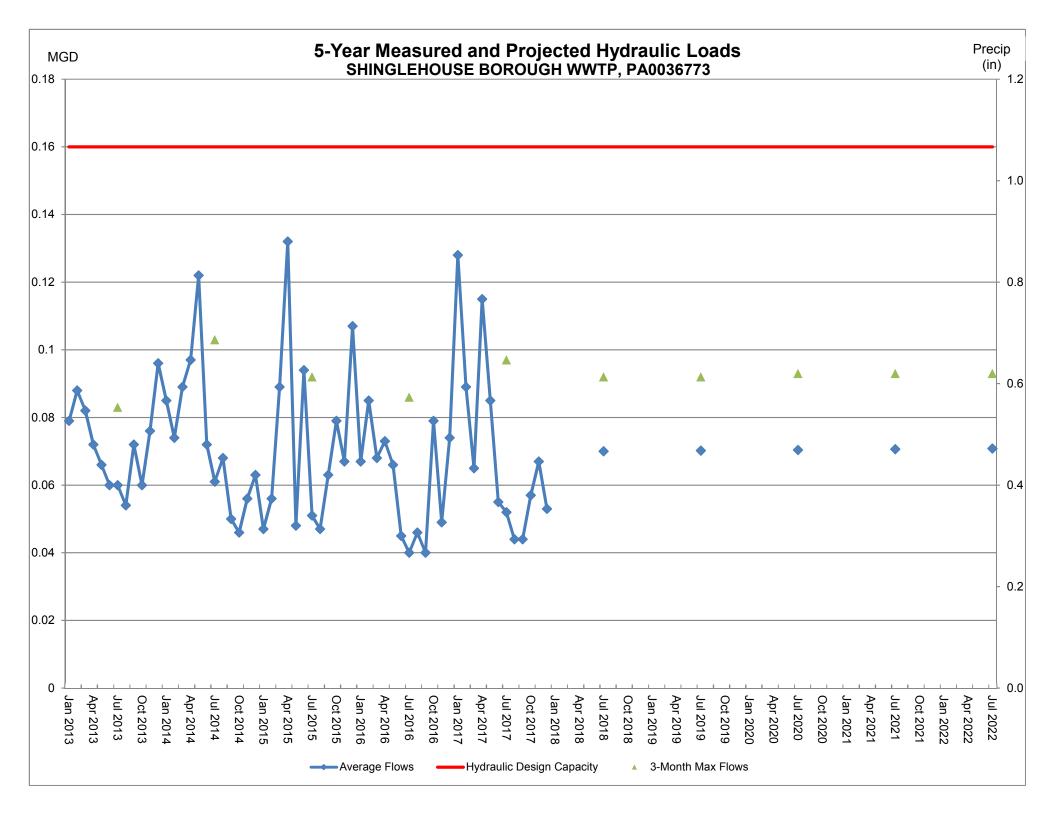
Show Precipitation Data on Hydraulic Graph?

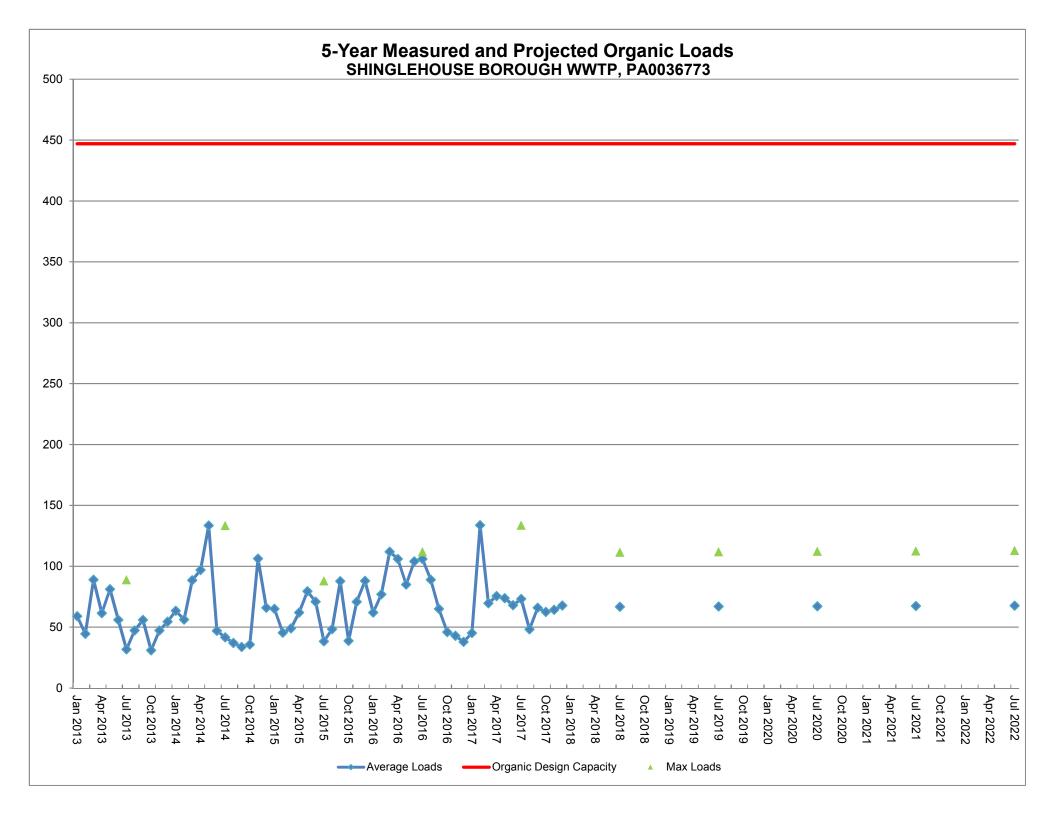
Total Monthly Precip	itation for	Past Five	Years	(Inches)

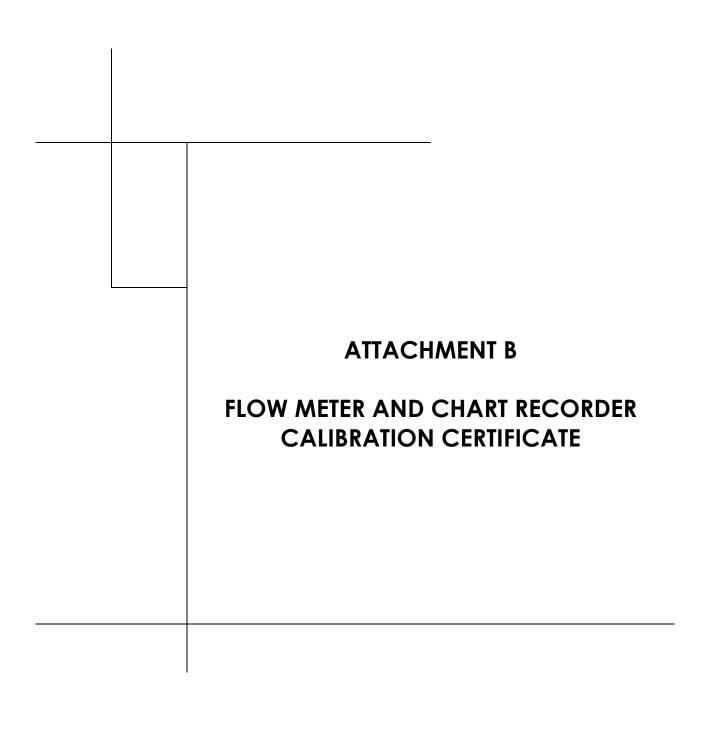
	lotal We	onthly Precip	itation for Pas	st rive Years	(inches)
Month	2013	2014	2015	2016	2017
January					
February					
March					
April					
May					
June					
July					
August					
September					
October					
November					
December					

*Existing EDUs listed from previous years were based on an estimated total. Actual accounts indicate a total of 587 EDUs were connected at the end of the 2017 calendar year.

NO









KWM CONTROLS INC.

P.O. Box 430 Camegle, PA 15106 412-276-4227 Fax: 412-276-7488 **Certificate of Calibration**

Customer Shinglehouse WWTP

P.O. Box 156

Shinglehouse, PA 16478

Date 12-6-17

814-697-6912

Type: Badger Serial#: 2855

Model#: 2100

Recorder: Partlow 5000

S# 1905771

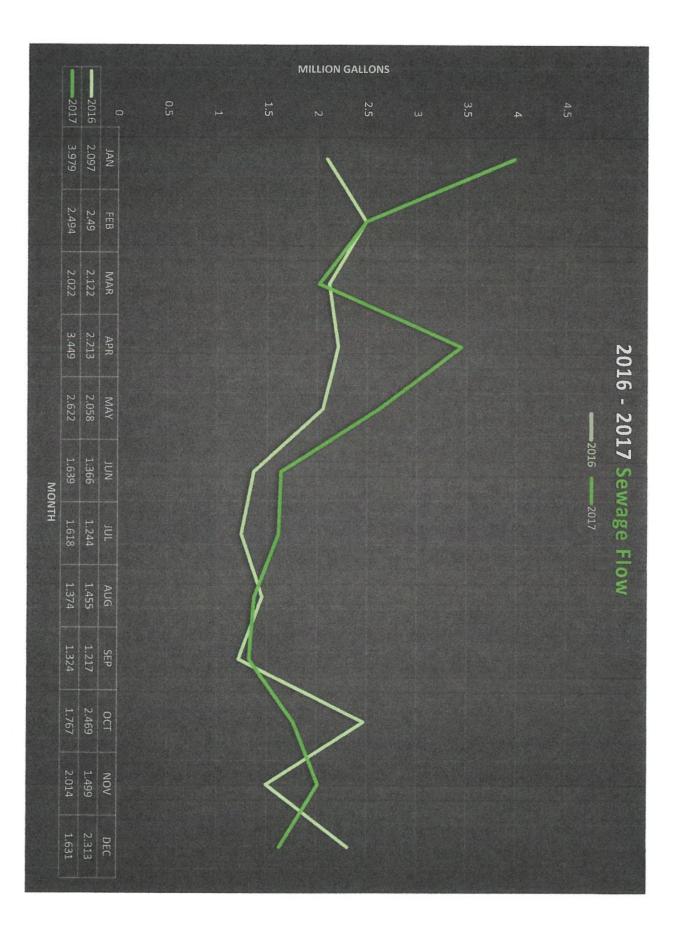
Flow Range: 0-1.2 MGD

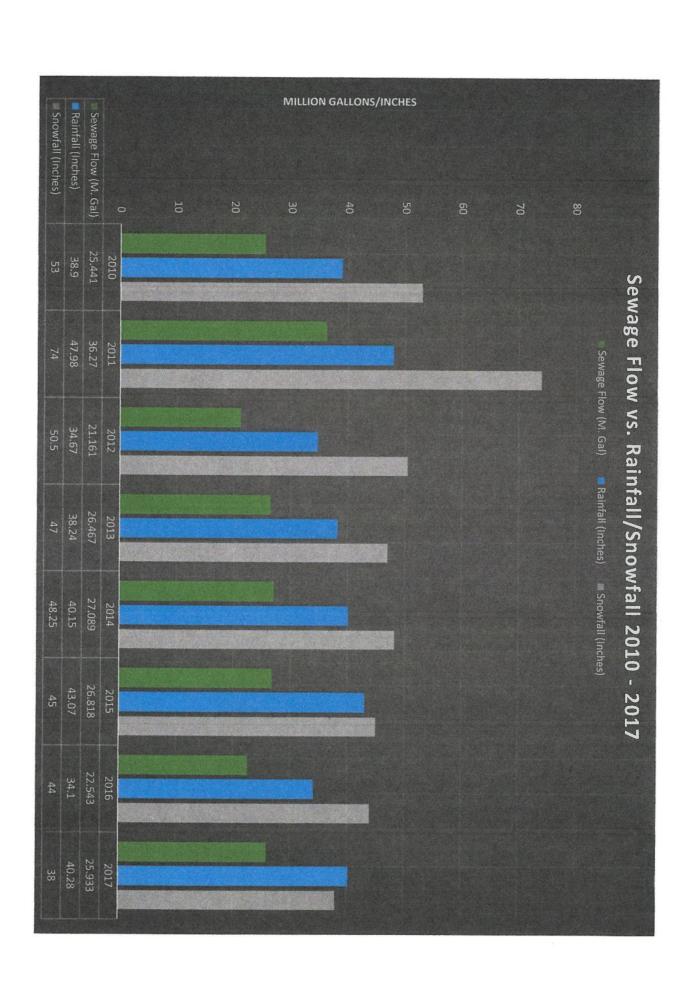
Primary Element: 8" manhole flume

Signal: 4-20maDC

	Pre Calibration	Post Calibration	Flow Reading
Reading thru primary element	.074 MGD	.074 MGD	1 low Reading
Signal Reading maDC			
0%	3.85 maDC	4.00 maDC	0 MGD
25%	7.87 maDC	8.00 maDC	.3 MGD
50%	11.88 maDC	12.00 maDC	.6 MGD
75%	15.89 maDC	16.00 maDC	.9 MGD
100%	19.91 maDC	20.00 maDC	1.2 MGD

Additional comments:

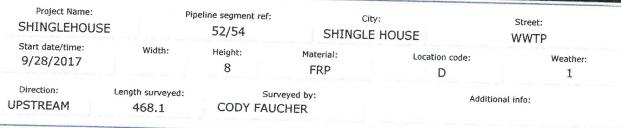


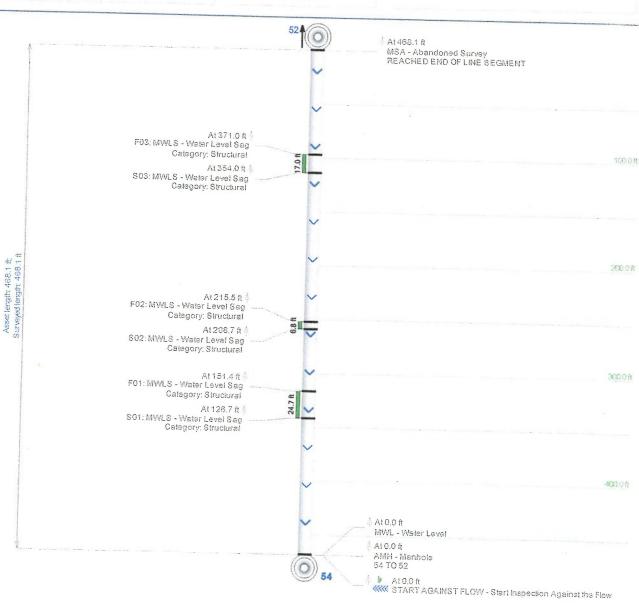


	ATTACHMENT C
	VIDEO INSPECTION REPORTS



Main Inspection with Pipe-Run Graph





PIPE-EYE SEWER SERVICES **75 HOLLEY AVENUE** BRADFORD, PENNSYLVANIA 16701



GraniteXP Observation Report with Still Images and Scores

Pipeline segment ref: 52/54

Project Name: SHINGLEHOUSE

Start date/time: 9/28/2017 12:34:04 PM

Weather:

Surveyed by: **CODY FAUCHER**

Upstream manhole No:

Downstream manhole No:

Total length:

468.1

Additional info:

52

Observations

Distance	Length	Code	Reversed	Clock Pos.	Severity	Category	Rating	Comment
0.0		START AGAINST FLOW	Yes	/				
0.0		AMH	Yes	/				54 TO 52
0.0		MWL	Yes	/				
126.7		MWLS	Yes	/		Structural		
151.4		MWLS	Yes	/		Structural		
208.7		MWLS	Yes	/		Structural		
215.5		MWLS	Yes	1		Structural		
354.0		MWLS	Yes	/		Structural		
371.0		MWLS	Yes	/		Structural		
468.1		MSA	Yes	/				REACHED END OF LINE SEGMENT



Main Inspection with Pipe-Run Graph os way & ST Project Name: Pipeline segment ref: City: Street: SHINGLEHOUSE 75/76 **SHINGLEHOUSE** RT.44 Start date/time: Width: Height: Material: Location code: Weather: 9/28/2017 8 **VCP** 1 C Direction: Length surveyed: Surveyed by: Additional info: **UPSTREAM CODY FAUCHER** 201.4 At 201.4 ft MSA - Abendoned Survey COULDNTGET PAST DEBRIS At 201.4 ft 10/12 CC - Crack Circumferential Category: Structural At 155.8 ft 3/. TF - Tap Factory Asset length: 299.0 ft. Surveyed length: 201.4 ft At 115.0 ft 3/. TFC - Tap Factory Capped At 93.1 ft 9/11 CC - Creck Circumferential Category: Structural At 85.1 ft 10/12 CM - Crack Multiple Category: Structural At 72.1 ft 3/. TB - Tap Break-in 200.08 At 70.1 ft 3/. TFC - Tap Factory Capped At 34,6 ft 10/. Category: Structural HAS POSSIBLY BEEN REPAIRED At 32.4 ft 2/. RPP - Repair Patch REPAIRED WITH VCP PIPE At 31.9 ft 3/. B - Broken Catagory: Structural At 12,6 ft 3/. TBI - Tap Break-in Intruding Category: O&M

At 10.7 ft 3/, TB - Tap Break-in

2

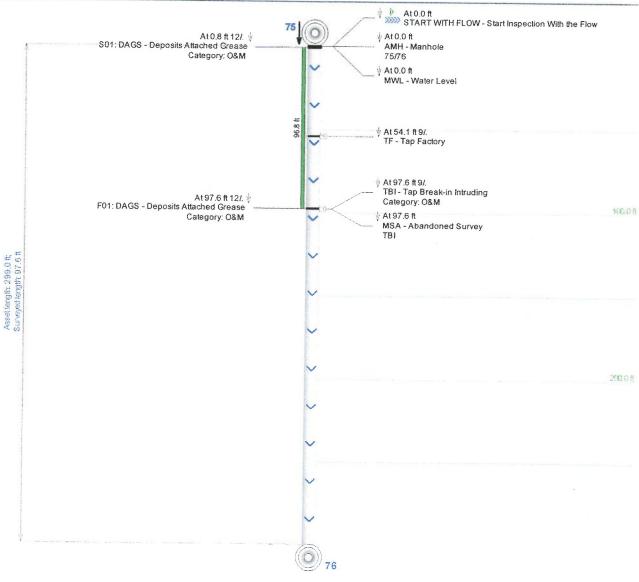


Project Name: SHINGLEHOUS		peline segment ref: 75/76	Cit SHINGLE	<u> </u>	Street: RT.44	
Start date/time: 9/28/2017	Width:	Height: 8	Material: VCP	Location code:	Weather:	
Direction: UPSTREAM	Length surveyed: 201.4			Addi	Additional info:	
0 Omitted: 277.8 ft			~ /	At 1.0 ft 8/10 CM - Crack Multiple Category: Structural		
Omitted: 277.8 ft				At 0.0 ft MWL - Water Level		
Sur			(O) 76	At 0.0 ft AMH - Manhole 76/75		
			- 1	At 0.0 ft START AGAINST FLOW	- Start inspection Against the Flo	



Main Inspection with Pipe-Run Graph

Project Name: Pipeline segment ref: City: Street: **SHINGLEHOUSE** 75/76 SHINGLEHOUSE RT.44 Start date/time: Width: Height: Material: Location code: Weather: 9/28/2017 8 **VCP** 1 C Direction: Length surveyed: Surveyed by: Additional info: Downstream **CODY FAUCHER** 97.6



PIPE-EYE SEWER SERVICES **75 HOLLEY AVENUE** BRADFORD, PENNSYLVANIA 16701



GraniteXP Observation Report with Still Images and Scores

75/76

Project Name: SHINGLEHOUSE

Start date/time: 9/28/2017 9:13:29 AM

Weather:

1

Surveyed by: CODY FAUCHER

Upstream manhole No:

Downstream manhole No:

Total length: 299.0

75

76

Additional info:

Observations

Distance	Length	Code	Reversed	Clo	ck Pos.	Severity	Category	Rating	Comment
0.0		START WITH FLOW	No		1				
0.0		AMH	No		/				75/76
0.0		MWL	No		/				
0.8		DAGS	No	12	/		0&M		
54.1		TF	No	9	/				
97.6		TBI	No	9	/		O&M		
97.6		DAGS	No	12	/		O&M		
97.6		MSA	No		/				TBI

PIPE-EYE SEWER SERVICES
75 HOLLEY AVENUE
BRADFORD , PENNSYLVANIA 16701



GraniteXP Observation Report with Still Images and Scores

Pipeline segment ref: 75/76

Project Name: SHINGLEHOUSE Start date/time: 9/28/2017 8:35:47 AM

Weather:

1

Surveyed by: CODY FAUCHER

Upstream manhole No:

Downstream manhole No:

Total length:

7

76

299.0

Additional info:

75

Observations

Distance	Length	Code	Reversed	Clock Po	os. Seve	erity	Category	Rating	Comment
0.0		START AGAINST FLOW	Yes	/					
0.0		AMH	Yes	/					76/75
0.0		MWL	Yes	/					
1.0		CM	Yes	8 / 1	10		Structural		
10.7		ТВ	Yes	3 /					
12.6		TBI	Yes	3 /			O&M		
31.9		В	Yes	3 /			Structural		



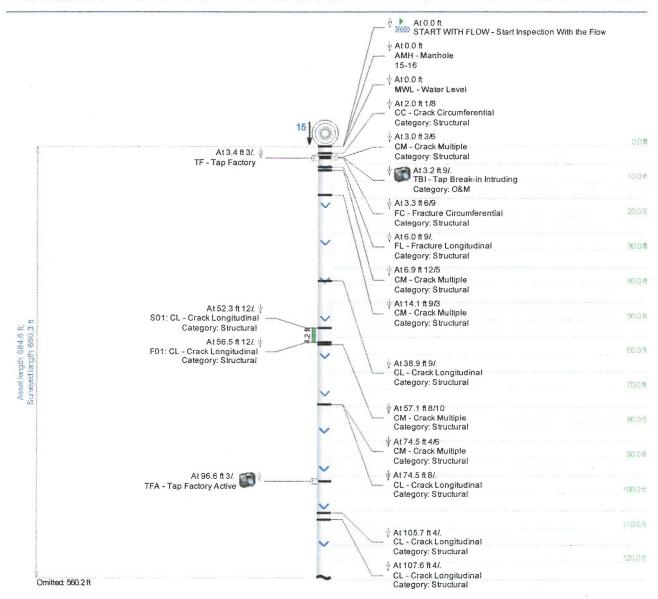
Extra:	Length	Code	Revers	ed C	lock	c Pos	Severity	Category	Dating	Comment
32.4		RPP	Yes		: /		Severity	Category	Kaung	Comment REPAIRED WITH VCP PIPE
		FT T			是 · · · · · · · · · · · · · · · · · · ·		0.1 P			
34.6		Н	Yes	10	/			Structural		HAS POSSIBLY BEEN REPAIRED
70.1		TFC	Yes	3	/					
72.1		TB	Yes	3	/					
85.1		CM	Yes	10	/	12		Structural		
93.1		CC	Yes	9	/	11		Structural		
115.0		TFC	Yes	3	/					
155.8		TF	Yes	3	/					
201.4		CC	Yes	10	/	12		Structural		
201.4		MSA	Yes		/					COULDNT GET PAST DEBRIS

COULDNT GET PAST DEBRIS



Main Inspection with Pipe-Run Graph

Project Name: Pipeline segment ref: City: Street: SHINGLEHOUSE 15/16 SHINGLEHOUSE S. MILL ST Start date/time: Weather: Width: Height: Material: Location code: 9/27/2017 1 **VCP** C 8 Surveyed by: Additional info: Direction: Length surveyed: CODY FAUCHER 660.3 Downstream



5



Project Name: Pipeline segment ref: City: Street: **SHINGLEHOUSE** 15/16 **SHINGLEHOUSE** S. MILL ST Start date/time: Width: Height: Material: Location code: Weather: 9/27/2017 8 **VCP** C 1 Direction: Length surveyed: Surveyed by: Additional info: **CODY FAUCHER** Downstream 660.3 At 120.0 ft 1/. CL - Crack Longitudinal Omitted: 115.2 ft Category: Structural At 125.8 ft 4/8 FM - Fracture Multiple Category: Structural 130,01 At 125.8 ft 8/. B - Broken Category: Structural At 144.6 ft 8/. 140.08 CL - Crack Longitudinal Category: Structural At 152.6 ft 5/. 150.0 ft B - Broken Category: Structural At 155.1 ft 8/11 160.0 N CM - Crack Multiple Category: Structural At 166.9 ft 170.0 % JOM - Joint Offset Medium Category: Structural ♦ At 171.9 ft 9/. 180.0 ft At 182.2 ft 2/. TB - Tap Break-in TFC - Tap Factory Capped 190,016 At 203.3 ft 3/. 2000 1 RFJ - Roots Fine Joint Category: O&M At 211.0 ft 3/.
TB - Tap Break-in 210.0 ft At 220.0 ft 12/12 CM - Crack Multiple Category: Structural 230.0 ft At 242.2 ft 4/. SSS - Surface Spalling At 241.2 ft 3/. 🛊 240.0 ft Category: Structural TFC - Tap Factory Capped At 244.2 ft 3/. CL - Crack Longitudinal Category: Structural 250.0 ft At 257.6 ft 9/. TB - Tap Break-in 260.0 ft At 257.6 ft 9/. CL - Crack Longitudinal Category: Structural Omitted: 414.5 ft



Pipeline segment ref: Project Name: City: Street: **SHINGLEHOUSE** 15/16 **SHINGLEHOUSE** S. MILL ST Start date/time: Width: Height: Material: Location code: Weather: 9/27/2017 8 VCP C 1 Direction: Length surveyed: Surveyed by: Additional info: **CODY FAUCHER** Downstream 660.3 ∜ At 355.0 ft 9/. TBI - Tap Break-in Intruding Omitted: 310.8 ft Category: O&M ⊕ At 355.3 ft 4/. HSV - Hole Soil Visible 320 oft Category: Structural 4 At 355.3 ft 3/. B - Broken 390.0 h Category: Structural At 355.3 ft 7/9 FC - Fracture Circumferential Category: Structural 340.01 HSV - Hole Soil Visible Category: Structural RECOMMEND SPOT LINER 350.0 h At 359.4 ft JOM - Joint Offset Medium 360.0 ft Category: Structural At 360.2 ft MMC - Material Change VCP TO PVC At 362.1 ft Asset length; 684,6 ft; Surveyed length; 68 0.3 ft MMC - Material Change PVC TO VCP 380.08 ♦ At 363.7 ft 3/. B - Broken 360008 Category: Structural At 363.7 ft 3/. HVV - Hole Void Visible 400.0 ft Category: Structural RECOMMEND SPOT LINER At 363.7 ft 2/4 410.01 CC - Crack Circumferential Category: Structural 420.0 m At 423.7 ft 3/. 🛊 At 383.6 ft 4/. TBI - Tap Break-in Intruding CL - Crack Longitudinal Category: Structural Category: O&M 45IQ.0 ft At 400.0 ft 9/. B - Broken 440,01 Category: Structural 460.08 ∳ At 426.4 ft MGO - General Observation PAUSED VIDEO TO CLEAN THE LINE 460 0 8

Omitted: 218.9 ft



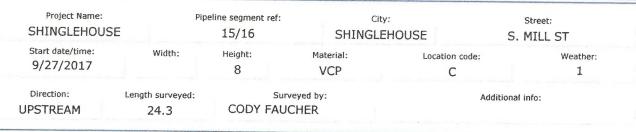
Project Name: Pipeline segment ref: City: Street: **SHINGLEHOUSE** 15/16 SHINGLEHOUSE S. MILL ST Start date/time: Width: Height: Material: Location code: Weather: 9/27/2017 8 **VCP** C 1 Direction: Surveyed by: Length surveyed: Additional info: **CODY FAUCHER** Downstream 660.3 At 452.8 ft 6/. Omitted: 425.6 ft Category: Structural 490.0 ft At 453.2 ft 9/. CL - Crack Longitudinal Category: Structural 本部(1) 行 At 453.2 ft 9/. ID - Infil Dripper Category: O&M At 465.3 ft 9/. CL - Crack Longitudinal Category: Structural 450.0 ft **460.0 名** At 492.9 ft 12/. TBI - Tap Break-in Intruding Category: O&M 420.0 h At 493.1 ft 12/. CL - Crack Longitudinal Category: Structural At 496.8 ft 9/. 480,08 TBD - Tap Break-in Defective Category: 0&M At 502.9 ft 9/. 490.0 ft TFC - Tap Factory Capped At 504.4 ft 12/3 FM - Fracture Multiple SCHOOL Category: Structural At 505 4 ft 1/ B - Broken 510.0 R Category: Structural At 505.4 ft 1/. HSV - Hole Soil Visible 520.0 A Category: Structural POSSIBLE CROSS BORE At 528.6 ft 12/. 530.0 ft CL - Crack Longitudinal Category: Structural 4 At 530.5 ft 3/. 540,0 K FL - Fracture Longitudinal Category: Structural At 532.8 ft 3/. CL - Crack Longitudinal 550.0 % Category: Structural At 542.4 ft MMC - Material Change 560.0 ft VCP TO PVC At 544.4 ft 10/. TF - Tap Factory At 545.1 ft MMC - Material Change At 574.3 ft 3/. 1 TFC - Tap Factory Capped PVC TO VCP 580.0% Omitted: 104.1 ft

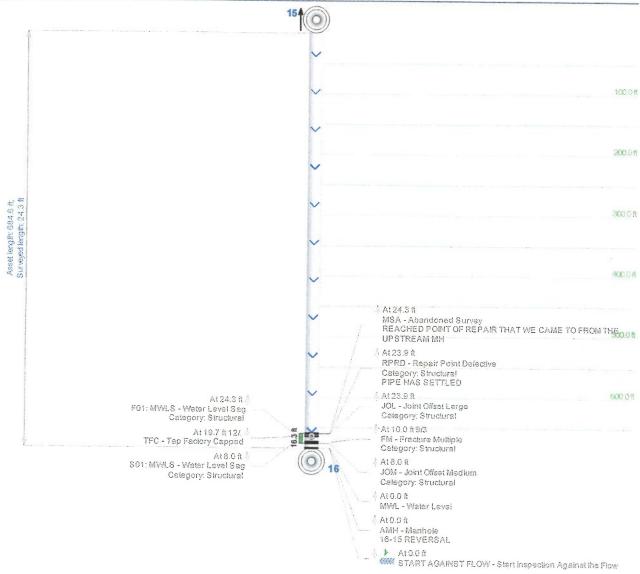


Project Name: Pipeline segment ref: City: Street: SHINGLEHOUSE 15/16 **SHINGLEHOUSE** S. MILL ST Start date/time: Width: Height: Material: Location code: Weather: 9/27/2017 8 1 **VCP** C Direction: Length surveyed: Surveyed by: Additional info: **CODY FAUCHER** Downstream 660.3 Omitted: 557.7 ft At 558.0 ft 9/ TFC - Tap Factory Capped 560.0 % At 574.3 ft 3/. TFC - Tap Factory Capped At 588.6 ft 4/. tD - Infil Dripper 580.0 ft Category: O&M LEAKING AROUND TAP At 587.1 ft 3/. ψ TB1 - Tap Break-in Intruding # At 593.7 ft 4/. Category: O&M 590.0% CL - Crack Longitudinal Category: Structural 600.01 At 616.2 ft 4/. CL - Crack Longitudinal Category: Structural Asset length: 684.6 ft. Surveyed length: 660.3 ft 610.08 At 616.5 ft 9/. CL - Crack Longitudinal Category: Structural 620.0 ft At 619.8 ft 9/. TBD - Tap Break-in Defective At 627.7 ft 3/. Category: O&M
POSSIBLE ROOTS NEXT JOINT UP TB - Tap Break-in 77 690.0# At 640.7 ft 9/10 CM - Crack Multiple Category: Structural 640.0 ft At 659.6 ft JOL - Joint Offset Large Category: Structural 660.08 At 659.6 ft RPRD - Repair Point Defective Category: Structural REPAIR IS A THIRD OR MORE OFF SET IN COMPARISON TO 660.0 ft **EXSISTING PIPE** ♦ At 660.3 ft MSA - Abandoned Survey RISK OF GETTING CAMERA STUCK. WILL COME IN FROM THE OTHER END 660.04



Main Inspection with Pipe-Run Graph





PIPE-EYE SEWER SERVICES
75 HOLLEY AVENUE
BRADFORD , PENNSYLVANIA 16701



GraniteXP Observation Report with Still Images and Scores

Pipeline segment ref:
Project Name:
Start date/time:
9/27/2017
8:58:01 AM

Upstream manhole No:
Downstream manhole No:
16

Additional info:

Start date/time:
9/27/2017
1
CODY FAUCHER

Surveyed by:
1 CODY FAUCHER

684.6

Observations

Distance	Length	Code	Reversed	Clock Pos.	Severity	Category	Rating	Comment
0.0		START WITH FLOW	No	/				
0.0		AMH	No	/				15-16
0.0		MWL	No	/				
2.0		CC	No	1 / 8		Structural		
3.0		CM	No	3 / 6		Structural		



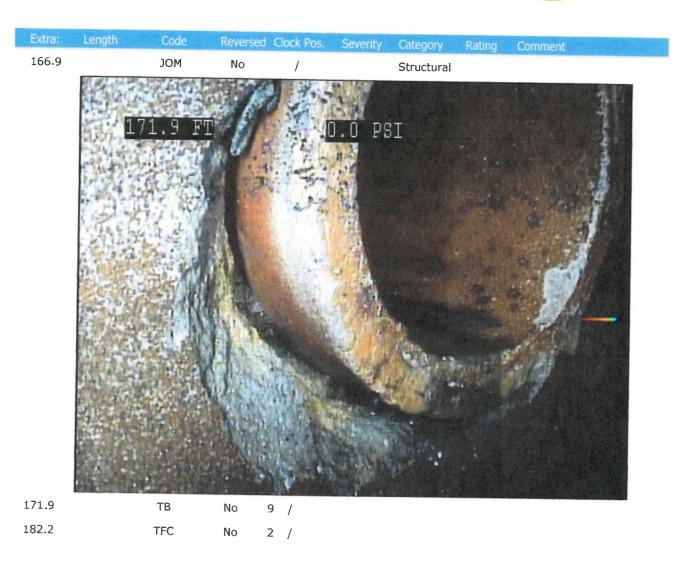
Extra:	Length	Code		d Clock Pos. Se		Rating Comment	
3.2	11 NOT 11 NO	TBI	No	9 /	O&M	10 1 3T T T TO THE	
	3.	3 FT			O PSI		
				**			
3.3		FC	No	6 / 9	Structural		•
3.4		TF	No	3 /			
6.0		FL	No	9 /	Structural		
6.9		CM	No	12 / 5	Structural		
14.1		CM	No	9 / 3	Structural		
38.9		CL	No	9 /	Structural		
52.3		CL	No	12 /	Structural		
56.5		CL	No	12 /	Structural		
57.1		CM	No	8 / 10	Structural		
74.5		CM	No	4 / 6	Structural		
74.5		CL	No	8 /	Structural		





Extra:	Length	Code				Severity	Category	Rating	Comment
120.0		CL	No	1	/		Structural		
	12	5.8 F				0.0 PS	I		
125.8		FM	No	4 /	8		Structural		
125.8		В	No	8 /	,		Structural		
144.6		CL	No	8 /	,		Structural		
152.6		В	No	5 /			Structural		
155.1		CM	No	8 /	11		Structural		





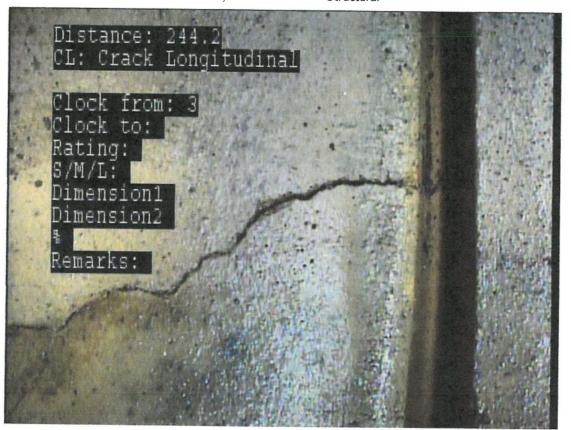


E 4	The Association of the Association			3600					
Extra:	Length	Code				Severity		Rating	Comment
203.3		RFJ	No	3	/		O&M		
	21	1.0 FT				J. O. P.	SI		
211.0		ТВ		3 /					- ,-
220.0		CM	No 1	12 /	12		Structural		
241.2		TFC	No :	3 /					
242.2		SSS	No .	4 /			Structural		



Extra: Length Code Reversed Clock Pos. Severity Category Rating Comment

244.2 CL No 3 / Structural





Extra: Length Code Reversed Clock Pos. Severity Category Rating Comment

244.2 CL No 3 / Structural

256.9 FT 0.0 PST

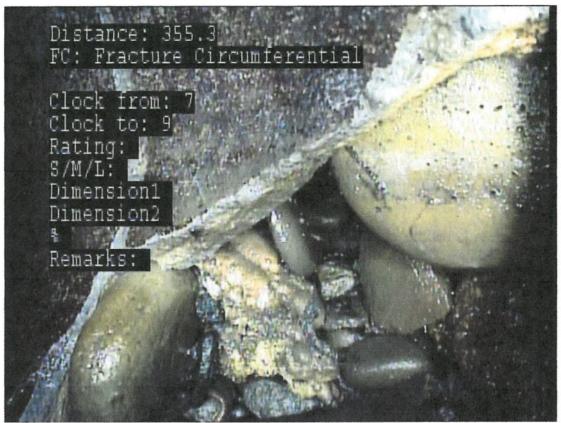


Extra:	Length	Code	Reverse	Clock Pos.	Severity	Category	Rating	Comment
257.6		CL	No	9 /		Structural		
	分學署 是	(F) (F) (A)	1					
	The state of							
	35	3.9 FI			0.0 PS	Ι		
		100		A				
	7 建设置				1			
	L THE				ALIGNA			
		1	MANAGE :		. 1			
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	4	THE .		t.	1			
							1 1 1 1 1 1	
				No.				
	N. V.							10 To
		1. T.						
355.0		TBI	No	9 /		O&M		
355.3		HSV	No	4 /		Structural		
355.3		В	No	3 /	150	Structural		
		_		- 1		Daractarar		



Extra: Length Code Reversed Clock Pos. Severity Category Rating Comment

355.3 FC No 7 / 9 Structural





Extra	Lonoth			40.00					
Extra: 355.3	Length	Code FC	No		Clock Pos.	Severity	Category	Rating	Comment
00010			NO	4	7 / 9		Structural		
	35	5.3 FI				0.1 PS			
359.4		HSV	No	4	1	THE PARTY	Structural		RECOMMEND SPOT LINER
359.4		JOM	No		/		Structural		and the same of th
360.2		MMC	No		1			,	VCP TO PVC
362.1		ММС	No		/				PVC TO VCP
363.7		В	No	3	/		Structural		
363.7		HVV	No	3	/		Structural	F	RECOMMEND SPOT LINER
363.7		CC	No	2	/ 4		Structural		
383.6		CL	No	4	/		Structural		



Extra: Length Code Reversed Clock Pos. Severity Category Rating Comment

400.0

B No 9 / Structural

Distance: 400.0

B: Broken

Clock from: 9!

Clock to:

Rating:

S/M/L:

Dimension1

Dimension2

Remarks:



Extra:	Length	Code	Reversed			Severity	Category	Rating	Comment
400.0		В	No	9	1		Structural	4	
									A STATE OF THE STA
	425	.1 FT			and it).O PS	'T		
	122	• + + +				J.U PC) I		1000
							1	1	THE REAL PROPERTY.
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									是 有 300 00
									1 4 P. M.
						Verilla L	08 July 125-4	用证	The state of the s
					*				建 医乳腺
						1977			
422 7									
423.7		TBI		3	/		O&M		
426.4		GO	No		/				PAUSED VIDEO TO CLEAN THE LINE
452.8		В	No e	6	/		Structural		Park T T Sua
453.2		CL	No 9	9	/		Structural		
453.2	1	D	No 9	9	/		O&M		



Extra:	Length	Code	Reversed	Clo	ck Pos.	Severity	Category	Rating	Comment
465.3		CL	No	9			Structural		
	490).2 FT				J. 1 PS			
492.9		TBI	No	12	/		O&M		
493.1		CL	No	12 ,	/	9	Structural		
496.8	•	TBD	No	9 /	1		O&M		

TFC

No

502.9



Reversed Clock Pos. Severity Category Length 504.4 FM No 12 / 3 Structural 505.4 В No

1 /

Structural



Euton				A TOWN				
Extra: 505.4	Length Code			ock Pos.	Severity	Category	Rating	Comment
305.4	HSV	No	1	/		Structural		POSSIBLE CROSS BORE
	Distance HSV: Ho. Clock for Clock to Rating: S/M/L: Dimension Pemarks: Remarks:	le Sc com: o: on1 on2	il 1	Vis		BORE		
528.6	CL	No	12	/	5	Structural		
530.5	FL	No	3	/	5	Structural		
532.8	CL	No	3	/	9	Structural		
542.4	MMC	No		/			١	/CP TO PVC
544.4	TF	No	10	/				
545.1	MMC	No		/			F	PVC TO VCP
558.0	TFC	No	9	/				
574.3	TFC	No	3	/				
587.1	TBI	No	3 ,	/		O&M		



	ACTION AND DESCRIPTION OF THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED I							
Extra:	Length	Code	Reversed	Clock Pos.	Severity	Category	Rating	Comment
588.6		ID	No	4 /		O&M		LEAKING AROUND TAP
	58	9.2 FI						
593.7		CL	No	4 /	WELL STREET, MARKET AND	Structural		
616.2		CL	No	4 /		Structural		
			140	1 /		Ju uctural		



Extra:	Length	Code	Reversed	C	ock Pos	s. Severity	Category	Rating	Comment
616.5		CL	No		1	Severity	Structural	Rating	Comment
	618	.6 FT		のないは、中では、中では、中では、中では、中では、中では、中では、中では、中では、中で		0.1 PS	I		
619.8		TBD	No	9	1		O&M		POSSIBLE ROOTS NEXT JOINT
627.7		ТВ	No	3	/				OF.
640.7		СМ	No	9	/ 10		Structural		
659.6		JOL	No		/		Structural		
659.6 660.3		PRD 1SA	No No		1		Structural		REPAIR IS A THIRD OR MORE OFF SET IN COMPARISON TO EXSISTING PIPE RISK OF GETTING CAMERA STUCK. WILL COME IN FROM THE OTHER END



GraniteXP Observation Report with Still Images and Scores

15/16

Project Name: SHINGLEHOUSE

Start date/time: 9/27/2017 11:27:37 AM

Weather:

Surveyed by: CODY FAUCHER

Upstream manhole No:

Downstream manhole No:

Total length:

16

684.6

Additional info:

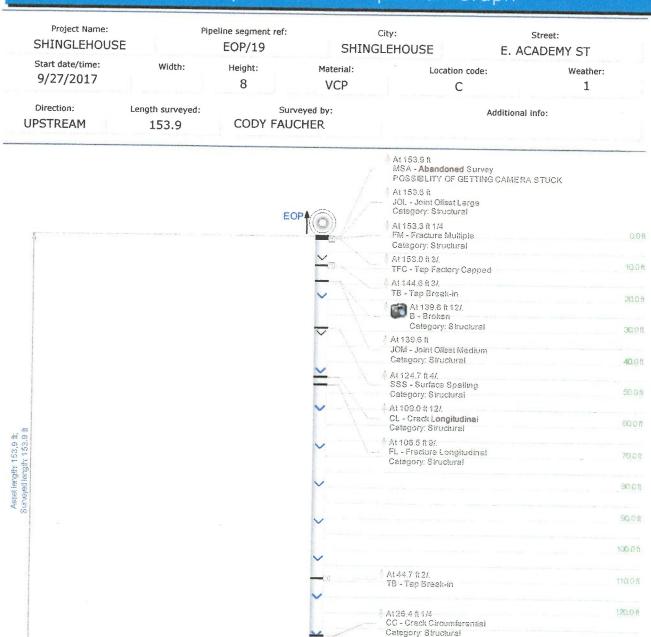
15

Observations

Distance	Length	Code	Reversed	I Ci	ock	Pos.	Severity	Category	Rating	Comment
0.0		START AGAINST FLOW	Yes		/					
0.0		AMH	Yes		/					16-15 REVERSAL
0.0		MWL	Yes		/					
8.0		MWLS	Yes		/			Structural		
8.0		MOC	Yes		/			Structural		
10.0		FM	Yes	9	/	3		Structural		
19.7		TFC	Yes	12	/					
23.9		JOL	Yes		/			Structural		
23.9		RPRD	Yes		/			Structural		PIPE HAS SETTLED
24.3		MWLS	Yes		/			Structural		
24.3		MSA	Yes		/					REACHED POINT OF REPAIR THAT WE CAME TO FROM THE UPSTREAM MH



Main Inspection with Pipe-Run Graph



Omitted: 1.7 ft

At 20.9 ft 12/; IS - Infil Stain

2

100.0 8

140.0 ft

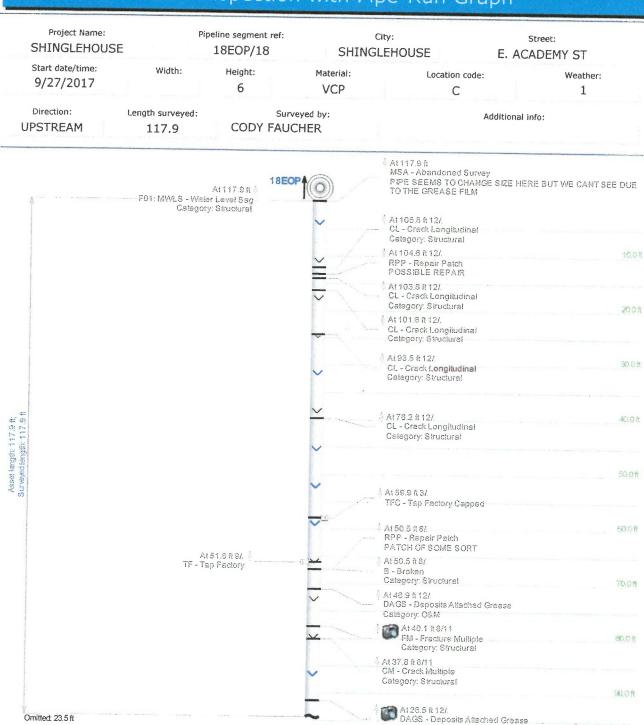
150.0 1



Project Name: SHINGLEHOUSE		eline segment ref: EOP/19		City: LEHOUSE	Street: E. ACADEMY ST		
Start date/time: 9/27/2017	Width:	Height: 8	Material: VCP	Location cod C	e;	Weather:	
Direction: UPSTREAM	Length surveyed: 153.9	Surve CODY FAUC	eyed by: HER		Additional info:		
Omitted: 148.0 ft				At 0.0 π MWL - Water Level			
Surveyad length			(O) 19	At 0.0 ft AMH - Manhole 19 TO END OF PIPE At 0.0 ft START AGAINST		150	



Main Inspection with Pipe-Run Graph



Category: O&M



Project Name: SHINGLEHOUSE		eline segment ref: 18EOP/18		ity: LEHOUSE	Street: E. ACADEMY ST		
Start date/time: 9/27/2017	Width:	Height:	Material: VCP	Location of		Weather:	
Direction: UPSTREAM	Length surveyed: 117.9	Surve CODY FAUC	eyed by: HER		Additional info:	:	
Omitted: 99.7 ft	S01: MWLS - Wets Category	At 16,1 ft Level Sag : Structural	101.8 #	At 11.3 % 5/. B - Broken Category: Structural At 10.1 % 6/9 FC - Fracture Ci	rcumferential	190	
Assettinger, 117.9 ft.				Category: Struci At 10.0 ft 5/, CL - Crack Longitudir Category: Structural	iural	110.0	
~ Ø	THE STATE OF THE S	· · · · · · · · · · · · · · · · · · ·	18	At 0.0 ft MWL - Water Level At 0.0 ft AMH - Manhole 18 TO 18E OP			
			\	At 0.0 ft	T FLOW - Steri inspe	action Against the Flow	



GraniteXP Observation Report with Still Images and Scores

Pipeline segment ref: EOP/19 Project Name: SHINGLEHOUSE Start date/time: 9/27/2017 12:26:48 PM

Weather:

1

Surveyed by: CODY FAUCHER

Upstream manhole No:

Downstream manhole No: 19

Total length: 153.9

EOP

Additional info:

Observations

Distance	Length	Code	Reversed	Clo	ck F	os.	Severity	Category	Rating	Comment
0.0		START AGAINST FLOW	Yes		/					
0.0		AMH	Yes		/					19 TO END OF PIPE
0.0		MWL	Yes		/					
20.9		IS	Yes	12	/					
26.4		CC	Yes	1	/	4		Structural		
44.7		ТВ	Yes	2	/					
106.5		FL	Yes	9	1			Structural		
109.0		CL	Yes	12	/			Structural		
124.7		SSS	Yes	4	/			Structural		
139.6		JOM	Yes		/			Structural		



		Contract Name of Street		(Parket)					
Extra:	Length					s. Severity	Category	Rating	Comment
139.6		В	Yes	12	/		Structural		
	14.	3.7 FT				O.1 PS	I		
144.6		ТВ	Yes	3	/				
153.0		TFC	Yes	3	1				
153.3		FM	Yes	1	1	1	Structural		
153.6		JOL	Yes		1		Structural		
153.9		MSA	Yes		/				POSSIBLITY OF GETTING CAMERA STUCK

Page



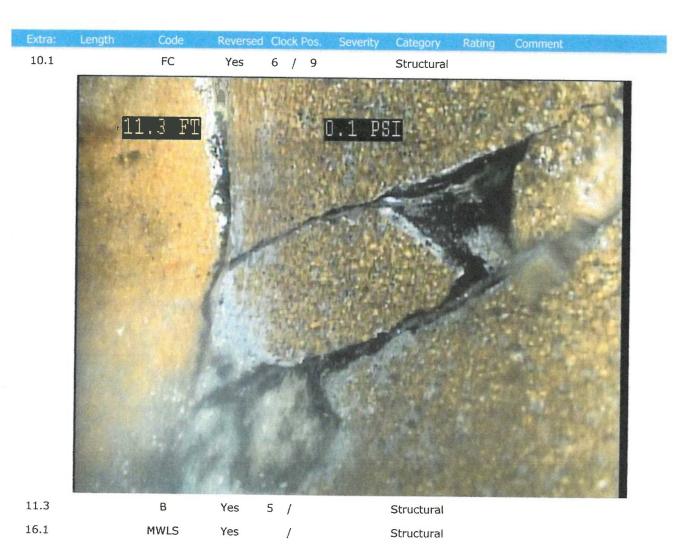
GraniteXP Observation Report with Still Images and Scores

Pipeline segment ref: Project Name: Start date/time: Surveyed by: Weather: 18EOP/18 SHINGLEHOUSE 9/27/2017 **CODY FAUCHER** 1:19:33 PM Upstream manhole No: Downstream manhole No: Total length: 18EOP 18 117.9 Additional info:

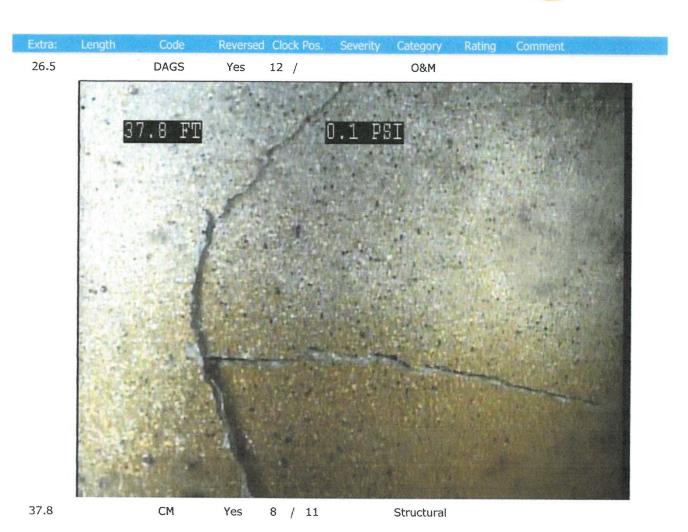
Observations

Distance	Length	Code	Reversed	Clock Pos.	Severity	Category	Rating	Comment
0.0		START AGAINST FLOW	Yes	/				
0.0		AMH	Yes	/				18 TO 18EOP
0.0		MWL	Yes	/				
10.0		CL	Yes	5 /		Structural		











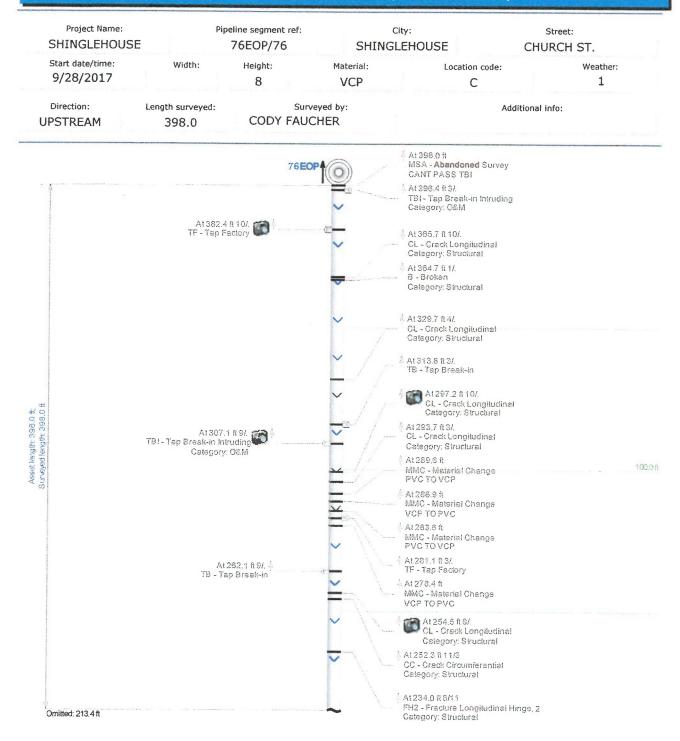
Extra: 40.1	Length Code			ock Pos.		Rating Comment
40.1	FM	Yes	8	/ 11	Structural	
		T A	3			
	46.0 FT			0	.1 PSI	7
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	And the second				Marie .	
		S. Carlo				
		TO STATE OF THE PARTY OF THE PA				
46.9	DAGS	Yes	12	/	O&M	
46.9 50.5	DAGS B	Yes Yes		/	O&M Structural	
			8			PATCH OF SOME SORT
50.5	В	Yes	8	/ /		PATCH OF SOME SORT
50.5 50.5	B RPP	Yes Yes	8	/ /		PATCH OF SOME SORT
50.5 50.5 51.8	B RPP TF	Yes Yes Yes	8 8 9	/ / /		PATCH OF SOME SORT
50.5 50.5 51.8 59.9	B RPP TF TFC	Yes Yes Yes Yes	8 8 9 3	/ / / /	Structural	PATCH OF SOME SORT
50.5 50.5 51.8 59.9 78.2	B RPP TF TFC CL	Yes Yes Yes Yes Yes	8 8 9 3 12	/ / / / /	Structural Structural	PATCH OF SOME SORT
50.5 50.5 51.8 59.9 78.2 93.5	B RPP TF TFC CL CL	Yes Yes Yes Yes Yes Yes	8 8 9 3 12	/ / / / / /	Structural Structural	PATCH OF SOME SORT
50.5 50.5 51.8 59.9 78.2 93.5 101.6	B RPP TF CL CL CL	Yes Yes Yes Yes Yes Yes Yes	8 9 3 12 12	/ / / / / / /	Structural Structural Structural	PATCH OF SOME SORT POSSIBLE REPAIR
50.5 50.5 51.8 59.9 78.2 93.5 101.6 103.8	B RPP TF TFC CL CL CL CL	Yes Yes Yes Yes Yes Yes Yes Yes	8 9 3 12 12 12	/ / / / / / / / / / / / / / / / / / /	Structural Structural Structural	



Extra:	Length	Code	Reversed	Clock Pos.	Severity	Category	Rating	Comment
117.9		MSA	Yes	/				PIPE SEEMS TO CHANGE SIZE HERE BUT WE CANT SEE DUE TO THE GREASE FILM



Main Inspection with Pipe-Run Graph



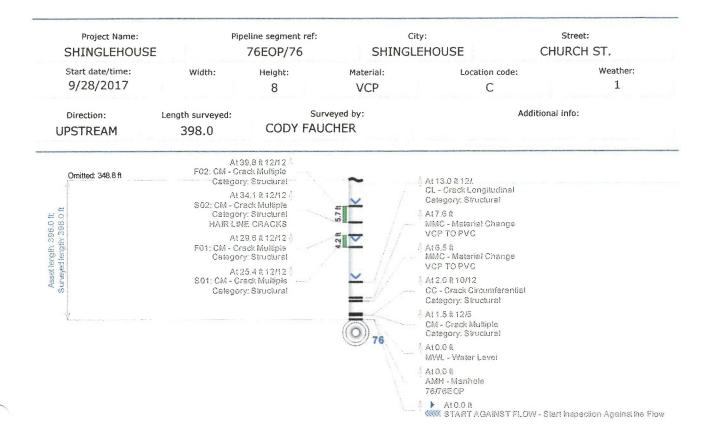


Project Name: Pipeline segment ref: City: Street: SHINGLEHOUSE 76EOP/76 **SHINGLEHOUSE** CHURCH ST. Start date/time: Width: Height: Material: Location code: Weather: 9/28/2017 8 VCP C 1 Direction: Surveyed by: Additional info: Length surveyed: **CODY FAUCHER UPSTREAM** 398.0 At 229.6 ft 9/2 CM - Crack Multiple Omitted: 168.1 ft Category: Structural At 208.9 ft 10/1 CC - Crack Circumferential At 208.3 ft 12/. 4 TB - Tap Break-in Category: Structural At 202.6 ft 9/.
TFC - Tap Factory Capped At 200.7 ft 3/. 200.01 TF - Tap Factory At 186.8 ft 6/. CL - Crack Longitudinal Category: Structural At 176.3 ft 12/. TB - Tap Break-in At 162.8 ft 12*l.* FL - Fracture Longitudinal Category: Structural At 160.8 ft 12/5 FH2 - Fracture Longitudinal Hinge, 2 At 143.3 ft 10/. # Category: Structural TBI - Tap Break-in Intruding Asset length, 398.0 ft, Surveyed length, 398.0 ft Category: 08.M At 145.5 R 3/L At 135.2 ft 9/.
TFC - Tap Factory Capped TFC - Tap Factory Capped At 131.2 ft 7/3 | F03: CM - Creck Multiple Category: Structural At 121.3 ft 9/. 1. TB - Tap Break-in At 116,3 ft 7/3 / S03: CM - Crack Multiple Category: Structural At 92.1 ft 1/. CL - Crack Longitudinal At 108,5 R9/ TFC - Tap Factory Capped 300.08 Category: Structural At 90.3 ft 1/. CL - Crack Longitudinal Category: Structural At 86.6 ft 1/. CL - Crack Longitudinal At71.8 ft 9/ Category: Structural TFC - Tap Factory Capped At 73.9 ft 3/. TFC - Tap Factory Capped At 47.7 ft 8/. CL - Crack Longitudinal Category: Structural

Omitted: 40.8 ft

of





of



GraniteXP Observation Report with Still Images and Scores

Pipeline segment ref: 76EOP/76

Project Name: SHINGLEHOUSE

Start date/time: 9/28/2017 10:48:59 AM

Weather:

1

Surveyed by: CODY FAUCHER

Upstream manhole No: 76EOP

76

Downstream manhole No:

Total length: 398.0

Additional info:

Observations

Distance	Length	Code	Reversed	Cloc	k F	⁰ 05.	Severity	Category	Rating	Comment
0.0		START AGAINST FLOW	Yes		/					
0.0		AMH	Yes		/					76/76EOP
0.0		MWL	Yes		/					
1.5		CM	Yes	12	/	5		Structural		
2.0		CC	Yes	10	1	12		Structural		
6.5		MMC	Yes		/					VCP TO PVC
7.6		MMC	Yes		/					VCP TO PVC
13.0		CL	Yes	12	/			Structural		
25.4		CM	Yes	12	/	12		Structural		
29.6		CM	Yes	12	/	12		Structural		
34.1		CM	Yes	12	1	12		Structural		HAIR LINE CRACKS
39.8		CM	Yes	12	/	12		Structural		
47.7		CL	Yes	8	/			Structural		
71.8		TFC	Yes	9	/					
73.9		TFC	Yes	3	/					
86.6		CL	Yes	1	/			Structural		
90.3		CL	Yes	1	/			Structural		
92.1		CL	Yes	1	/			Structural		
108.5		TFC	Yes	9	/					



Extra:	Length	Code	Reversed	Clo	ck l	os.	Severity	Category	Rating	Comment
116.3		CM	Yes	7	1	3		Structural		
121.3		ТВ	Yes	9	/					
131.2		CM	Yes	7	/	3		Structural		
135.2		TFC	Yes	9	/					



O&M		/	10	Yes	TBI	143.3
		/	3	Yes	TFC	145.5
Structural	5	/	12	Yes	FH2	160.8

Page



			varanti kanan							Control Control
Extra:	Length	Code			Pos. Severity		Rating	Comment		
162.8		FL	Yes	12 /		Structural				
		North Assessment				No.				
	10	C O TIT			0.2.00	1 T				
	11/	6.0 FI			0.2 PS	DΤ	Mile II.		178	
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	188		1				10			
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	and the state of the	1							· L	
176.3		TB	Yes	12 /						
186.8		CL	Yes	6 /		Structural				
200.7		TF	Yes	3 /						



									3 20
Extra:	Length	Code	Reverse	d Clock Pos.	Severity C	Category R	ating Con	nment	
202.6		TFC	Yes	9 /					
			7		The state of the s		1		
	2	07.8 F	1	Mary y	0.2 PSI				
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208.3	**************************************	ТВ	Yes	12 /					
208.9		CC	Yes	10 / 1		Structural			



Extra:	Length	Code	Reversed	Clock	Pos.	Severity	Category	Rating	Comment	
229.6		CM	Yes	9 /	2		Structural			
		4.0 FT				J. 2 PS				
		154								
234.0		FH2	Yes	8 /	11		Structural			

CC

Yes

11 / 3

252.3

Structural



				Testare			
Extra: 254.5			versed (Clock Po 3 /		gory Rating ctural	Comment
254,5	THE STATE OF THE S	ot. I	Co C	<i>3</i> /	Struc	Cturui	
	261	3 FT			O.2 PSI		
262.1	7	гв ү	es '	9 /			
278.4	М	MC Y	es/es	/			VCP TO PVC
281.1	5	ΓF Y	es :	3 /			
283.6	М	MC Y	es/es	/			PVC TO VCP
286.9	М	MC Y	'es	/			VCP TO PVC
289.6	М	MC Y	es/es	/			PVC TO VCP
293.7	(CL Y	es :	3 /	Stru	ictural	



Extra: Length Code Reversed Clock Pos. Severity Category Rating Comment

297.2 CL Yes 10 / Structural



PIPE-EYE SEWER SERVICES 75 HOLLEY AVENUE BRADFORD , PENNSYLVANIA 16701



Extra:	Length	Code	Reversed			Severity	Category	Rating	Comment
307.1		TBI	Yes	9	/		O&M		
	0								
	31	3.4 FT			* -	0.2 PS	T		
	9.1	J.I I.				U.L FO	<u></u>		- 120
		B	, Park						
		對方面發							
		2100							
		公園首							
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	100 to 100 to						的影響。	MARKET !	The state of the s
313.8		ТВ	Yes	3	/				
329.7		CL	Yes	4	/		Structural		
364.7		В	Yes	1	/		Structural		
365.7		CL	Yes	10	/		Structural		



Extra:	Length	Code	Reversed	Clo	ck Pos.	Severity	Category	Rating	Comment
382.4		TF	Yes	10					
	391	5 FT	17),2 PS			
396.4		ТВІ	Yes	3	/		O&M		A STATE OF THE STA

MSA

Yes

398.0

CANT PASS TBI

	ATT	ACHMENT D	
	PUA	AP STATIONS	

ATTACHMENT D

		2017 PUMP STATION	S FLOWS	
MONTH	Mill Street	Lifting Station	Low Street	Lifting Station
MONTH	Average Daily Flow (gpd)	Maximum Peak Flow (gpm)	Average Daily Flow (gpd)	Maximum Peak Flow (gpm)
January*	18,523	18.8	28,603	27.5
February*	13,886	36.3	19,286	56.8
March	9,029	11.9	50,272	41.7
April	15,180	20.6	62,268	60.5
May	12,135	23.1	18,105	42.8
June	6,720	9.4	6,048	8.0
July	2,874	6.2	2,950	5.5
August	3,542	4.4	2,346	5.2
September	5,160	9.4	3,552	5.0
October	4,819	8.1	3,832	7.8
November	11,760	49.4	13,932	22.7
December	7,781	13.1	8,175	11.3
Max	18,523	49.4	62,268	60.5

Pumping			2017 C	onditions
Station	Location	Rated Capacity (gpd)	Average Daily Flow (gpd) ⁽¹⁾	Remaining Facility Capacity (gpd)
1	Mill Street Pump Station	54,000	165	53,835
2	Low Street Pump Station	21,600	253	21,347

Notes:

(1) Average Daily Flows are calculated based on the monthly pump run-times and the rated capacity of the pumps as supplied by the pump manufacturers. Peaking Factor of 4.0 was assumed.

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Month	

	Down	Pump 1 (GPM) Pump 2 (GPM)																																
Low Street Lifting Station	(Use)	bump 2 (353	350	3661	7	60	5 .	200	2-	 - 	3401	0,	_	1	-	+	+	4	4	7	11.3	% T	6445		-		1-	+	1	<u> </u>	9	+	7 126.5
Draw Down Low St	2 (GPIMI		847.8	35010	35.3,	326	358	195	365	150	15	100	380	5831	000	371.	345,	341	8,504	120018		2017	787	Tet !	サング、		7 -	7/	NAME OF THE PARTY	1784	Heore	462	100	17.1
	Pump 1 (G	+		8	7		9		3	0			0		2			8	7		0				9	3								
Mill Street Lifting Station	Pump 1 (Hrs.) Pump 2 (Hrs.)	120,1 135.	0	0	2,7	123.7 128.	134.6 139.1	125,4 13ci		3 13	1	1	'n	00					1		12	7	39.9 145,1	40,7	148:	142,3 150,	43, 3 152,	44,3 154,0	512	46.1 156.6	7.	48,6 1.59,6	2815 34.6	-
Rain			L	-	1,50	1	1	1	ſ	L	1	4	ME, 15	1,58)		T	1	,48 84.	101	1	4				M. 18 -	1 201	1	71	1	14		3 20	
Dav		1	2	က	4	2	9	7	∞	6	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	- 1	* 31	Total	AVG

Month / Year Fehrary / 2017

Pump 1 (Hrs.) Pump 2 (Hrs.) Pump 1 (Grav) Pump 2 (Grav) Pump 2 (Hrs.) Pump 2 (Hrs.) Pump 2 (Grav) Pump 2 (Grav	Day	Rain		Seation Seation	Draw	Draw Down	Low Street	Hing Ctation		The same of the sa
1494 160, 3 140, 160, 3 140, 5			Pump 1 (Hrs.)	Pump 2 (Hrs.)	Pump 1 (GPIM)	Dumn 2 (Chan)	Taging man	Titulg Station	Draw	Down
149,4 160,7 149,6 149,5 149,5 149,5 149,5 150,2 140,5 150,2 140,5 150,	1		IMG	11.0		rump z (GPIM)	Pump 1 (Hrs.)	Pump 2 (Hrs.)	1 (GPM)	Pump 2 (GPIM)
149.8 160.7 148.9 148.0 148.	2		1.01.	11.6 2			466,5	5'184		
150.2 161.1 170.10 187.2 187	3		2.641	-			5.69.4	482.9		
150.8 161.16 170.10 17	4		1500	1601			HIST P	483,4		
152.0 162.7 179.3 179.	5		150,8	161.10			470,6	8. KSH		
193 153.6 166.5 166.5 17.4 17.3 198.4 167.4 168.4 168.4 168.4 168.4 168.4 168.4 168.4 168.4 168.4 168.4 168.4 168.4 168.4 168.4 17.5 16.3 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5	9		15%	1/3			473	486.4		
156 152.0 166.5 168.4 168.5 158.4 168.5 158.4 168.5	7		152,0	7, 601			473	438		
156.9 162.4 162.4 162.4 162.5 157.9 162.5 157.9 162.5 157.9 162.5 157.9 162.5 157.9 162.5 157.9 162.5 157.9 162.5 157.9 162.5 157.9 162.5 157.9 162.5 157.9 162.5 157.9 162.5 157.9 162.5 157.9 162.5 157.9 162.5 157.9 162.5 162.7 157.8 162.7 157.9 162.5 162.7 157.8 162.7 157.9 162.5 162.7 157.9 162.5 162.7 157.9 162.5 162.7 157.9 162.5 162.7 157.9 162.5 162.7 157.9 162.5	8		150,0	100.5			5.454	4847		
157.9 1181.4 569 105 159.4 1181.3 569.4 5	6		1	1,00,1			485.9	501.0		
105 158.4 16413 504 494 504 16413 105 158.4 16413 178.3 166.3 178.4 178.	10		152,0	11.89.11			19 P	50,4		
1.05 159.14 170.3 1.05 160.1 171.2 1.05.1 20.2 50.2 1.03.7 175.0 1.03.7 175.0 1.03.7 175.0 1.03.7 175.0 1.03.7 175.0 1.04.2 175.0 1.05.4 176.0 1.05.4 176.0 1.05.4 176.0 1.05.4 176.0 1.05.4 176.0 1.05.4 176.0 1.05.4 176.0 1.05.4 180.2 1.05.5 160.1 1.05.6 183.4 1.05.6 183.4 1.05.6 183.4 1.05.6 183.4 1.05.7 183.5 1.05.8 183.5 1.05.1 183.8 1.05.1 183.8 1.05.2 160.1 1.05.1 183.8 1.05.1 183.8 1.0	11		1524.4	1.4.2			194	509,2		
(15.2) 17.3 516 503.4 518 503.4 518 503.4 518 518.5 173.4 518 518.5 519.5	12	105	159.4	1,00,1			मंबद क	513.5		
	13		160:1	171.3			- 34	516,1		
162,5 173,4 512,4 512,4 512,4 512,4 174,4 175,1 512,4 512,4 512,4 175,2	14		161.3	100			1	21818		No. of the last of
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163.7 175.0 164.3 175.4 164.3 175.4 1655.1 176.0 1655.1 176.0 1655.1 176.0 165.4 177.3 166.3 177.3 166.7 178.8 167.1 186.2 167.1 186.2 167.1 186.2 167.1 186.2 167.1 186.2 167.1 186.2 167.1 187.8 534.6 534.6 534.6 534.6 534.6 534.6 534.6 534.6 534.6 537.1	16		1634	174,4			- 1	529,0		
164.3 175.4 578.9 578.9 578.1 14.3 175.8 578.1 176.0 578.2 524.9 522.0 5	17		163.9	17510			- 1	5324		
165.4 176.6 5226 165.4 176.0 52249 165.4 176.1 5249 165.4 177.3 5226 167.1 180.2 5220 167.1 180.2 523.0 167.1 180.2 534.8 167.1 180.5 534.8 168.0 183.4 534.8	18		164.3	1		T	5.18.4	5.4.8.		
165.4 176.0 524,9 524,9 524,9 176.1 176.0 524,9 522,5 126,0	19		164.7	7			528.1			
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165.8 177.3 520.0 520.0 177.8 520.0 520.0 177.8 520.0 520.0 520.0 520.0 160.7 178.8 531.0 531.0 531.0 532.5 160.5 180.5 180.5 531.0 532.5 160.0 160.0 180.5 180.4 534.8 534.8 534.8 534.8 534.8 534.8 534.5	21			17.11			524,9	540.1		
103 117.8 527.0 5239.0 102.1 118.8 1239.2 539.0 531.0 52.1 120.1 120.2 120.1 120.2 120.1 120.2 1	22		15	1000			4703	542.7		
162 166.7 178.8 538.0 167.1 180.2 531.0 531.0 532.5 180.2 532.5 180.2 532.5 162.0 182.4 537.1 534.8 537.1 534.8 537.1 534.8 537.1 5334.8 537.1 5334.8	23	503	166,3	177.8	1		527.0	544,2		
167,1 180,2 531,0 167,1 180,2 532,5 162,4 182,4 534,6 537,1 537,1 537,1 537,1 537,1 537,1 537,1		102	166.7	178.8			53910	546.0		
169.0 183.4 169.0 183.4 3.11 19 23.4	25		1/671	100.3			0,100	247.0		
169.0 192.4 534.8 534.8 534.8 534.8 534.5 534.5 534.5 534.5 534.5 534.5 534.5 534.5		12	167.5	101	1		532.5	2491		
337,1 311 jh 23.4	27		11.7.4	182.4	1		5348	551,0		
211 19 23.4	28		1/20.0	103.4	1		537,1	1553,4		
211 19 23.4	59			1.701	1		539,5	5550		
23.4	30									
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	Pump 1 (Hrs.) Pump 2 (Hrs.)	Pumn 2 (Hrg.)	Draw Down		Low Street Lifting Station		
Section 1	12. X. H	. cos	Pump 1 (GPM) Pump 2 (GPM)		Dime of		nwo.
	11.0.1	82.8		2001	rump 2 (Mrs.)	Pump 1 (GPM) Pr	Pump 2 (GPM)
-	11,9,7	187.4			2571		
_	1.0.1	0) 1/81		1000	3630		
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	1000	1		36	1		
	13117			501.5	577.8		
	1719	136.2		Kar	28214		
	1002	-		(0.001)	7	-	
	1,000	- 1		SI -	3		
	17201	1 8		1000	547,4		
	1220	187,8		2	602,0		
		88.		6.515	602,1		
1	815/	18814		-	(012,3		
	14:3	188.8		S. PHO.	617,1		
	8/4/1	189.2		658.8	(022.8	-	
	2121	199.6		10/08/5	2		
	135,9	0'061		(84.7)	632,5		
	1,07/	190,4		1087.9	1		
ě	177,2	190,7		1097.6	1		
- 1	179,7	1911		7073	という		
- 1	5'841	191.6	1	787	1.03		
- 1	179.60	101.01	1	736.7	7		
- 1	180,4	193 3		136,4	1000		
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	18217	193.	1	758,4	15		
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- 1		יסחים	+	8:164	sh		
	186,8	0.00		L	200		
-		195.3		\$100 P	1.98.3		
-	3 1	95.7	1	K18.14	80 70C		
- 1	17.9	1.9		3 920	503,0		
				284	145.9		
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Day	Rain	Mill Street Lifting Statio	ifting Station	Draw	Draw Down	Low Street	Low Street Lifting Station		Cross Desire
		Pump 1 (Hrs.)	Pump 2 (Hrs.)	Pump 1 (GPM)	Pump 2 (GPM)	Dirmn 1 (Live)	0.00	Dia	
1	58:	187,2	19/0,9			(SIII) - (III)	rump 2 (mrs.)	Pump I (GPM)	Pump 2 (GPM)
2	20%	1881	1961			200	2100		
3		189.0	2000			140	8		
4	1.7	189,9	3000			854,7			
2	318	1:061	203.0			86512	7 5615		
9		191.1/2	7.27			2000 A	144,7		
7	173	193.8	2617			286.2	3117		
00	20.	193,7	201.00			21116	16014		
6		194.4	267 (91106	1,0%		
10		10/5/14	ひてつの			730.			
11		195.8	2000			150:7	1.88%		
12	434	- -	2000			7.87	294,2		
13		196	01108			4.50,16	00		
14		197.3	25.0			20110	805.9		
15			20.00			4,00,4	8/01/		
16	,03	192	3-1-1			481.7	15.		
17	1 50	S mee	2000	6.60	11.12	2000	2.9.9		
18	132	325	1200	1000	811.7	1861	12/4	997.1	824,3
19		71 - 00	213 9	1	211,7	1131611	1	COCK.S	22716
20	1,10	202.60	212.9			2.7.01	838.2		
21	56.		315.61			128.15	1		
22		い、カラウ	2000			103910	852,2		
23		2 400	2000			1051.2	さらから		
24		205.8	7102			1043	2.875		
25		30/05	219.9			4, 220	-		
26	201	H. COE	3.90.5			187	1		
27		208,8	22/1/2			2,8,0	6.120		
28	50.00	209.0	222.2				1 81.8		
		309,6	233.8			7. 1. 2	701.7		
※ 30	,02	210,0	323.1			180	706.7		
31						01.8614	214,0		
Total	4.87	22,6	36.2			2,00	200	-	
AVG						33	200		
			The state of the s	AND REAL PROPERTY OF THE PROPERTY OF THE PARTY OF THE PAR	The second secon				

Month/ Year / 3017

Pump 1 (Hrs.) Pump 2 (Hrs.	Day	Rain	Mill Street Lifting Station	ifting Station	Draw Down	I OW Stroot 1 Per		
2 210.14 223.5	1		Pump 1 (Hrs.)	Pump 2 (H	(GPM)	(Const	ing Station	Draw Down
1135.7 225.7 1135.0 918.5 115.1 225.3 115.1 115.1 93.1 115.1 93.1 115.1 115.1 93.1 115.1 115.1 93.1 115.1 115.1 93.1 115.2 93.1 115.	T	,53	41012	500		(Srivi) Pump 1 (Hrs.)	Jump 2 (Hrs.)	Pump 1 (GPM) Pump 2 (GPM)
25.5 225.6 1155.7 975.7 1156.0 934.2 215.2 225.6 1156.2 938.4 12.5 225.6 1156.2 938.4 1156.2 225.6 1156.2 938.4 1156.2 235.4 11170.4 944.4 1170.4 235.2 235.4 1170.4 944.4 1170.4 235.4 235.4 1186.4 95.4 1186.4 95.4 1186.4 95.4 1186.4 975.4	7	101	21116	とうにか		1145.2		
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ار در	Fe	9h1,	H	17.10		12.1	0,8	
20				41.12			6.1	

	Pump 1 (Hrs.)	Pump 1 (Hrs.) Pump 2 (Hrs.)	-	laane won	LOW Street LITTING Station	Draw Down
	230.2	D L C	Pump 1 (GPM) Pump 2 (GPM)	Pump 1 (Hrs.)	Pump 2 (Hrs.)	Pump 1 (GPM) Pumn 2 (GDM)
	2307	クゴンゴン		1212,6	8166	
102	231,0	つったつ		1213.4	992,2	
	231.4	2.46.4		J	992,9	
	231.8	246.9		12 14,2	993.5	
40,	2320	247.2		1215.0	994.2	
	232.3	7475		1215,6	3.456	
	232.7	S. L. M.C		1216.7	995.10	
	233.0	2491		1217.8	396.5	
7	233,3	248.4		1218161	997.5	
		248.7		ナング・ナ	998.7	
	1 4	2490		1220.1	849.3	
	234 0	249.5		123012	1000,7	
	234.5	2199		122010	10001	
	23478	250.2		1222,1	1001.5	
1,24	A "	240.7		-23	10001	
	235.7	351.0		1223.8	1003,3	
	236,0	251.2		1224.4	1,004.3	
7	236.3	1:		1235.1	100A,7	
130	336.6	20.100		1225.9	1005,9	
	236.9	353.3		1236,7	100019	
-	327.2			1,227,3	1,00812	
63	337.6	15.00 15.00		1228,8	1,000,4	
-	1 -	7 53 4		1239,9	1,010,9	
-	238.5	7529		1231,0	1,012,1	
70.	3388			1232,1	1,014,2	
-		2000		1232.7	1013,6	
	15.	755		1233.5	1014,6	
	0	2510 6		1234.6	1.015,7	
	6	75. 11		1235,5	1,016.5	
Н				1,236011	2,710,	
133	2010			200		
en an				776	- 1	

Month/ Year 50 1

Day	Rain	Mill Street	Mill Street Lifting Station	Draw Down			
		Pump 1 (Hrs.)	Pump 2 (Hre)			Low Street Lifting Station	
1	163	77.00	1	rump I (GPM) Pump 2 (GPM)		Direct of the	Draw Down
2	35	- 1 -	-15		1 2 3 2 7 1		Pump 1 (GPM) Pump 2 (GPM)
m		H	257.0		Circa t		
	I	1112	257.7		1,238,1	1,019,3	
		242	258		1,239,1	1.030.1	
		242	250		6240	100/	
9		242	25.70		CHC1	100	
7		2412	458		1 2 1 1	109	
00	i.	410	258			1,022	
6	150	273.3	258			1.023	
, ,	203	242.0	3,68		4.241,3	1.072.3	
77		241.7	258.32		1241.6	6.022.10	
	60.	CUC			1247.0	0	
12		21810			of click	トランナン	
13	1	d 79.5			イベルイント	4033.	
	102	242.9			7.5 Hg1	1,023.4	
14	275	542 2			8676	1 200	
15		2017	1		1945 2	4047	
16					1848	0,4%0,	
17		3440			-1	1,024 4	
		244.9	1		(243,9	1 A2H 7	
18		244.8	1		1244.2	1976	
19			1		1344 2	10000	
20		4	24		1047	1,025 3	
21		21.01.0	u		2777	1,025,9	
22		1	a		1,414	1,026.4	
23	+	3460	4		1843:	1.6407	
	9	N	12		1245,5	1,027,5	
12	1	246.9	3		1245,8	1,027.4	
1		247.3			1246,1	1024	
1	102	D 43 2	1		1246.W		
27		240	+			1,8200	
28	1				N. S.	(000	
29	1	200	-		0.1/471	1.029.1	
000		978			1247.3	1,029,4	
- 1	18	248,9			1247:6	7.680	
¥ 31	7	24912			1247,9	1020	
	2,69	100			1248,2	0.50.0	
AVG			1		-	21.6	
	THE OWNER WHEN PERSON NAMED IN COLUMN SAME		Total Control of the		611	4,7	
							Contract of the Contract of th

	Draw Down	(GPNA) I D	1 55																															
	SH	Pump 2 (Hrs.) Pump	r	1,034,1	1,031.4	1,031,7	1032,0	1,032.3	1,032,4	1,032,9	4,033.3	1,033.9	1,03M.C	1034.3	1034,6	1034.9	1075.1	1035,3	1035,6	1035.8	10360	1036.1	1034.5	1036.9	1037.1	1037,5	0378	18801	1038,5	338.8	039,1	1639.5	0 57.8	5
			4	1,250,3	1,350.7	351	13213	7.156,1	1.351,8			1,352, 8	018591	6.834	1,28.6	1,353.9	1,254,2	1254.5	8:4581	1 1		1255.9	1256,0	1.56.3	13.56,6	12569	1757 1	1052.5	22.00	1:85	58,5	1258.8	1	
Draw Down	Pump 1 (GPM) Pump 2 (GPM)																																	228 B
ifting Station	Pump 2 (Hrs.)	1				1				1	1		4	La			/	70	2 /4						7581	258.3	258.5	258.7	638.67	259,0	2.59.3	23.15	42	
Mill Street Lifting Statio	5 Jan (Hrs.)	3490	84118	-	1000	36.5	20.00	2010	3630	1000	+	1	7	Cep	0.50	いのから	1000	1	000	1.	336.4	436.7	2000	1	2016	1	000	00	+	1	7	-	1	TOTAL STREET,
Rain		70	17.		533			201										103		20%	I	10	1		1		1		1	2	100	9		
Day	1	2	3	4	S	9	7	00	6	10	11	12	13	14	15	16	17	18	19	20	21	T	23 19	24	25	26	27	28	29	30	* 31	Total 1.7	AVG	

Month/ Year Sep7

Mill Street Lifting Station Draw Down 2 Leo	Proof life:	āŀ	Pump 2 (Hrs.) Pump 1 (G	1,040,1	040)	0.	4	4,140,1 6,00	1,041,7 8.00	10 1 C	1.045	1-	1-	1	1,043,6	1,044,1	1,044.1.	7	1	Į.	ושומי	104/10	CHO!	1877	1,04% 2	0,440	2	1	1051,5		1024.1	1052,7	200	2000	1053 1053,	1053. 1053. 1053. 1054.7
Rain Mill Street Lifting Station 1.2. 2460.2 2460.2 2460.2 2460.3 2460.3 2460.3 2460.3 2460.3 2460.4 2460.3 2460.4 2460.3 2460.3		(GPM) Pump 2 (GPM)		100		-		9	09	1201	1,261	1	110	2000	11267,6	1,263,4	01870	1264.7	1205,6	200	11/1/2	1338.0	2/17	-	17971	01998	C'59%.	-	24.5	20767		121,5	2,11561 Overs	2,1741 5,2741 5,4741	2222	2,117.61 5.27.61 5.27.61 5.27.7.1
# 2 0 1 2 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	reet Lifting Station	Pump 2 (Hrs.)	259,	2000	2/60,	alco	461,	1 261.7	3)	781	1-	7000	25 S.C.	383.6	2841	2446	284,9	4				2000	487.4	287.7	288.	288,7	289.3	369.8	390.3	-		291.1	1	291,10	1910	19191
		t	+	F	-	20	7	1	2 ACA	188	175					7	100	183			101	2		21	1		D ⁴		21 7	30	3)		1			

291.0 291.0	1973, 1973	Rain		ifting Station	Draw Down	Low Street	Spins Ch.		
24円1, 6	241, 0 24	-	rump I (Hrs.)	Pump 2 (Hrs.)	Pump 1 (GPM) Pump 2 (GPM)	Dime 1 (1)	iting Station	Draw Dowr	- L
	241,0 24	1				14 Cut 2	Pump 2 (Hrs.)	(GPM)	
241.4 295.1 125.1	241.4 175.6 125.7	1		29 N. C		14.4.7	1055,		
245.2. 245.2. 127.0. 1276.0. 1	245.2 125.6	1		7.4.4		1011	7		
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29512 2910 1277.5 1257.	241.6 24.6 24.6 24.6 24.6 24.6 24.6 24.7 24.7 24.7 24.7 24.7 24.7 24.7 24.7	1	1	295,2					
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291.7.3	24.1.7 394.67 1,25%.4	8/-		2565		3,500,1			T
291.9 297.9 1,279.4 1,659.4 1,	247.73 247.73 247.73 248.8 248.8 248.8 248.8 248.14 248.8 248.8 248.14 248.8 248.14 248.8 248.14 248.8 248.17 248.14 248.14 248.14 250.12 248.17 250.12 250.12 250.12 250.12 250.13 250.13 250.13 250.14 250.	4	8	3969		- 7	4		
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	er de la	+	+	12,3		1 000	571.5		T

Day	Rain	Mill Street Lifting Stat	ifting Station	Draw Down		
		Pump 1 (Hrs.)	Pumn 2 (Hee)	1	Low Street Lifting Station	Draw Down
1		2.700	7 (113.)	rump I (GPM) Pump 2 (GPM)		Con and Continue
2	M.	61586	306.7		+	rump 1 (GPM) Pump 2 (GPM)
a	5		307.7		1075	
	28	280,3	308.8		1	
4	113	288, 1	2006.9		33	
2		384,0	2090		1,293.7 1,094.0	
9	12	289.9	210.1		1,294,7	
7	45.	290.8	2110		3000	
00	76	200	2/11/0		1001	
6		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	51011		7607/	
10		774.5	313,4		1	
TOT		2513, 8	314.7		1,208.2 1,089,1	
		2945	1		6311cl 1,093,2	
12		295.3	2/1/2		1/315,2 1,097.9	
13		296	200		13:8.2	
14	~ .	21.6	21/10		1 6	
10,	247	01/20	318.4		2 (
45		297,9	319,5		ol.	
97	2010	298,2	320,9		4327,5 1,111,2	
17	420	399,1	377 1		1,332,2 1,115,6	
18	101	300.0	7277		7.0 1.11	
19	88	2 190	343,0		-	
20	150	300.00	323.2		7	
21		200,00	323.4			
22	3	15,000	323.6			
22	107	300.0	323.8		1	
57		301,1	324.0		1,341.8 1,34.9	
74		301,5	324.2		1,343.5 1,125,6	
57		301.9	3241		1,126.	
26	011	302,2	376		1,344,5	
27		3001	757.0		-	
28		9 6	342,3		1	
29	9 8	+	375.5		1	
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t					1,546,7 6,129.9	
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Month/Year NOU 17

1	Day	Rain	Mill Street Lifting Station	ifting Station	Draw Down					
1 1,			Pump 1 (Hrs.)	Pump 2 (Hrs.)	- Property		Low Street L	ifting Station	Draw.	
2 304.1 324.2 132.	Н	17.	72.27	7.1.7.	eeee ()	(GPM)	Pump 1 (Hrs.)	Primm 2 / Lime 1	Olaw.	Down
3 3004.5 320.6 1.349.3 1.1 6 50 305.4 320.5 1.349.3 1.1 7 305.6 320.6 1.350.7 1.14 1.350.7 1.14 1.350.7 1.14 1.350.7 1.14 1.350.7 1.14 1.350.7 1.14 1.350.7 1.14	2		2.01	2006.5			1.340.1	· dump c (mrs.)	(GPM)	N
4 327.5 1327.5 1327.7	m		1 200	326.9			2000	1,130,5		
100% 300% 310% 110%	4		207.5	327,5			21317.5	1131,2		
10 100	U		-	727.9				-		
1905.6 328.6 1935.4 19		108	305.4				1,350,7	1,332,6		
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8 36.6 320.6 132.4 1134. 10 327.7 320.4 1137. 11 320.7 330.6 132.4 1137. 12 308.1 371.2 1137. 13 320.4 371.2 1137. 14 308.5 321.6 1137. 15 309.6 322.6 1137. 16 309.6 322.6 1140. 17 31.6 322.6 1140. 18 32.7 322.7 1140. 19 31.6 322.7 1140. 10 31.6 320.7 1140. 11 43 12 327.1 1140. 11 43 12 327.1 1140. 11 31.6 320.7 1140. 11 43 12 327.1 1140. 11 43 12 12 327.1 1140. 12 310.2 327.1 1140. 13 310.1 327.1 1140. 14 31.6 320.7 1140. 15 31.7 1140. 16 320.7 1140. 17 43 12 6 12 12 1140. 18 32.7 1 1140			306	259			7	7216		
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