



**WEST NORRITON TOWNSHIP
MONTGOMERY COUNTY, PENNSYLVANIA**

**2016 Municipal Wasteload Management Report
(Chapter 94 Report)**

Prepared For:

**West Norriton Township
1630 W. Marshall Street
Jeffersonville, PA 19403**

March 2017

File No. 2017-01101T

Prepared By:

**Gilmore & Associates, Inc.
Engineers ♦ Land Surveyors ♦ Planners ♦ GIS Consultants
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GILMORE & ASSOCIATES, INC.
ENGINEERING & CONSULTING SERVICES



1918 TO 2008; CELEBRATING NINETY YEARS OF ENGINEERING EXCELLENCE



CHAPTER 94 MUNICIPAL WASTELOAD MANAGEMENT ANNUAL REPORT

For Calendar Year: 2016

- 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			
Permittee Name:	West Norriton Township	Permit No.:	PA (N/A)
Mailing Address:	1630 W. Marshall Street	Effective Date:	N/A
City, State, Zip:	Jeffersonville, PA 19403	Expiration Date:	N/A
Contact Person:	Jason Bobst	Renewal Due Date:	N/A
Title:	Township Manager	Municipality:	West Norriton Township
Phone:	(610) 631-0450	County:	Montgomery County
Email:	JBobst@WNTwp.com	Consultant Name:	Gilmore & Associates, Inc.
CHAPTER 94 REPORT COMPONENTS			
<p>1. 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. <u>(25 Pa. Code § 94.12(a)(1))</u></p> <p>Check the appropriate boxes:</p> <p><input type="checkbox"/> Line graph for flows attached (Attachment)</p> <p><input type="checkbox"/> DEP Chapter 94 Spreadsheet used (Attachment)</p> <p><input checked="" type="checkbox"/> Section 1 is not applicable (report is for a collection system).</p>			
<p>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. <u>(25 Pa. Code § 94.12(a)(2))</u></p> <p>Check the appropriate boxes:</p> <p><input type="checkbox"/> Line graph for organic loads attached (Attachment)</p> <p><input type="checkbox"/> DEP Chapter 94 Spreadsheet used (Attachment)</p> <p><input checked="" type="checkbox"/> Section 2 is not applicable (report is for a collection system).</p>			
<p>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. <u>(25 Pa. Code § 94.12(a)(3))</u></p> <p>All flow is treated by Norritown Municipal Waste Authority at their wastewater treatment plant. See Attachment E.</p>			

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 (**Attachment B**)
- List summarizing each extension or project attached (**Attachment A**)
- Schedules describing how each project will be completed over time and effects attached (**Attachment A**)

Comments:

No new sewer extensions were constructed in the 2016. One (1) new connection occurred in 2016 (71 W. Indian Lane). Additionally, 2 EDUs were purchased by Burger King for their existing connection for their expansion.

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))

See Attachment C

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:

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 (Number – 6)
 Discussion of condition of each pump station attached (**Attachment D**)

8. If the sewage collection system receives industrial wastes (i.e., non-sanitary wastes), attach a report with the information listed 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.

Check the appropriate boxes:

- Industrial waste report as described in 8 a., b. and c. attached (**Attachment F**)
 Industrial pretreatment report as required in an NPDES permit attached (**Attachment**)

9. Existing or Projected Overload.

Check 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.

If one or more boxes above have been checked, attach a Corrective Action Plan (CAP) to reduce or eliminate present or projected overloaded conditions under §§ 94.21 and/or 94.22 (relating to existing overload and projected overload). (25 Pa. Code § 94.12(a)(9))

- Corrective Action Plan attached (**Attachment**)

10. Where required by the NPDES permit, attach a Sewage Sludge Management inventory that demonstrates a mass balance of solids coming in and leaving the facility over the previous calendar year.

- Sewage Sludge Management Inventory attached (**Attachment**)

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 (**Attachment**)

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))

Flow calibration report attached (**Attachment G**)

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).

Jason Bobst, Township Manager

Name of Responsible Official

Signature

(610) 631-0450

Telephone No.

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).

Thomas J. Figaniak, P.E.

Name of Preparer

Signature

(215) 345-4330

Telephone No.

Date

ATTACHMENT A

ACTIVE, APPROVED AND PLANNED DEVELOPMENT

**TABLE 1
ACTIVE, APPROVED AND PLANNED DEVELOPMENTS
WEST NORRITON TOWNSHIP**

NAME		Map Reference ⁽¹⁾	Drainage Basin	Status	Total EDUs	Total Flow ⁽²⁾	Projected Buildout Schedule											
							2016		2017		2018		2019		2020		2021	
							EDUs	Flow	EDUs	Flow	EDUs	Flow	EDUs	Flow	EDUs	Flow	EDUs	Flow
1	The Reserve at Stoney Creek	1	Whitehall	Under Construction	51	14,535	0	0	20	5,700	20	5,700	11	3,135	0	0	0	0
2	Norristown School District	2	Whitehall	Approved	10	2,850	0	0	0	0	0	0	0	0	0	0	10	2,850
3	Apartments at Schuylkill & Main Street	3	Rittenhouse	Approved	22	6,270	0	0	0	0	10	2,850	12	3,420	0	0	0	0
4	Burger King (Trooper Rd & Main St)	4	Port Indian	Connected	2	570	2	570	0	0	0	0	0	0	0	0	0	0
5	71 W. Indian Lane	5	Rittenhouse	Connected	1	285	1	285	0	0	0	0	0	0	0	0	0	0
6	68 W. Indian Lane	6	Rittenhouse	Under Construction	1	285	0	0	1	285	0	0	0	0	0	0	0	0
Approved Sub Total EDUs / Flow					87	23,655	3	855	21	5,985	30	8,550	23	6,555	0	0	10	2,850

Planned Developments		Map Reference ⁽¹⁾	Drainage Basin	Status	Total EDUs	Total Flow ⁽²⁾	Projected Buildout Schedule											
							2016		2017		2018		2019		2020		2021	
							EDUs	Flow	EDUs	Flow	EDUs	Flow	EDUs	Flow	EDUs	Flow	EDUs	Flow
7	Office Building at 239 Egypt Road	7	Rittenhouse	In Planning Stages	11	3,135	0	0	0	0	10	2,850	0	0	0	0	0	0
8	Markley Farms	8	Whitehall	In Planning Stages	79	22,515	0	0	20	5,700	25	7,125	20	5,700	14	3,990	14	3,990
9	Fill in Lots and OLDs			As Needed	5	1,425	-	-	1	285	1	285	1	285	1	285	1	285
Planned Sub Total EDUs / Flow					95	27,075	0	0	21	5,985	36	10,260	21	5,985	15	4,275	15	4,275

TOTAL	182	50,730	3	855	42	11,970	66	18,810	44	12,540	15	4,275	25	7,125
Approved EDU's issued to WNT from NMWA/PADEP	241													
Remaining EDU's	154													

Notes:
(1) See Attachment B for Development locations
(2) Total Flow based on 1 EDU = 285 gpd

ATTACHMENT B
SANITARY SEWER SYSTEM MAP

ATTACHMENT C

SANITARY SEWER SYSTEM

MONITORING, MAINTENANCE, REPAIR & REHABILITATION

SANITARY SEWER SYSTEM **MONITORING, MAINTENANCE, REPAIR & REHABILITATION**

Pump Stations

West Norriton Township (WNT) currently performs routine maintenance on all pump stations owned and operated. Routine maintenance of the pump stations generally includes, but is not limited to, the following tasks:

- Inspected daily
- Wet wells cleaned
- Floats cleaned
- Standby pumps exercised
- Pumps lubricated
- Filter(s) cleaned
- Compressor tank drained of condensation and inspected
- Oil and coolant checked in generators
- Exercise generators
- Exercise alarms
- Bubbler system and sump pumps inspected
- Grease removed
- Basket cleaned
- Building(s) cleaned
- Grounds maintained

Specific maintenance performed and improvements made on the pump stations during 2016 can be found within Attachment D.

Collection System

WNT is continuously working to remove Inflow & Infiltration (I&I) from the sanitary sewer system. During 2016, WNT concentrated on the Upper Jackson Street drainage basin area. A majority of the televising took place predominantly in the area tributary to the Whitehall Pump Station. Additionally, some televising took place in the Chestnut Street Pump Station and Port Indian Interceptor tributary areas. The following Tables show the sewers and manholes that were televised and repaired during 2016. Repairs to the sanitary sewers and manholes are being prioritized. Corrective repair has commenced during 2016. WNT has contracted with Sewer Specialty Services Co., Inc. and they are repairing mains/laterals utilizing trenchless technologies such as grouting and cured in place pipe (CIPP) repair liners.

As I&I is reduced in the system, WNT will request additional EDUs be released by the DEP. WNT is slowly running out of funding to complete the repairs to the sanitary sewer system and the release of some EDUs will be required to obtain the additional funding to accomplish the repairs.

WNT is committed to continue with I&I remediation until the system has controlled its peak hourly flows. WNT is committed to eliminate all illegal connections to the system, such as sump pumps, rain water conductors, and deficient laterals. WNT will continue inspections of properties at time of sale to locate any potential remaining connections.

West Norriton Township
 Manhole Sewer Inspection Services Contract
 (Video Pipe Services)

Date	Manhole		Lateral	Main	House #	LF	Street
	#1	#2					
1/27/2016	1282	1281	Lateral		936	23	Craftsman Rd
1/27/2016	1282	1281	Lateral		938	25.2	Craftsman Rd
1/27/2016	1282	1281	Lateral		931	20	Craftsman Rd
1/27/2016	1282	1281	Lateral		940	28	Craftsman Rd
1/27/2016	1282	1281	Lateral		933	18	Craftsman Rd
1/27/2016	1282	1281	Lateral		942	28	Craftsman Rd
1/27/2016	1282	1281	Lateral		935	18	Craftsman Rd
1/27/2016	1282	1281	Lateral		944	28	Craftsman Rd
1/27/2016	1282	1281	Lateral		937	17.5	Craftsman Rd
1/27/2016	1282	1281	Lateral		946	28	Craftsman Rd
1/27/2016	1282	1281	Lateral		948	28	Craftsman Rd
1/27/2016	1282	1281	Lateral		950	28	Craftsman Rd
1/27/2016	1286	1285	Lateral		2446	18	Hillendale Dr.
1/27/2016	1286	1285	Lateral		2448	18	Hillendale Dr.
1/27/2016	1286	1285	Lateral		2450	18	Hillendale Dr.
1/27/2016	1286	1285	Lateral		2452	18	Hillendale Dr.
1/27/2016	1286	1285	Lateral		2454	18	Hillendale Dr.
1/27/2016	1286	1285	Lateral		2456	20	Hillendale Dr.
1/28/2016	987	986	Lateral		28	24	Penfield Ave
1/28/2016	987	986	Lateral		29	14	Penfield Ave
1/28/2016	987	986	Lateral		33	15	Penfield Ave
1/28/2016	987	986	Lateral		32	28	Penfield Ave
1/28/2016	987	986	Lateral		36	15	Penfield Ave
1/28/2016	987	986	Lateral		37	25	Penfield Ave
1/28/2016	987	986	Lateral		41	24	Penfield Ave
1/28/2016	987	986	Lateral		42	4	Penfield Ave
1/28/2016	987	986	Lateral		45	14	Penfield Ave
1/28/2016	987	986	Lateral		48	15.6	Penfield Ave
1/28/2016	987	986	Lateral		52	11	Penfield Ave
1/28/2016	1047A	1047	Lateral		2429	44	Chestnut Ave
1/28/2016	1047A	1047	Lateral		2450	27.1	Chestnut Ave
1/28/2016	1047A	1047	Lateral		2433	46.6	Chestnut Ave
1/28/2016	1047A	1047	Lateral		2464	10.9	Chestnut Ave
1/28/2016	1047A	1047	Lateral		2437	35	Chestnut Ave
1/28/2016	1047A	1047	Lateral		2458	28	Chestnut Ave
1/28/2016	1047A	1047	Lateral		2441	47	Chestnut Ave
1/27/2016		1279	Lateral		902	28	Craftsman Rd
1/27/2016		1279	Lateral		904	28	Craftsman Rd
1/27/2016		1279	Lateral		901	18	Craftsman Rd
1/27/2016		1279	Lateral		906	28	Craftsman Rd
1/27/2016		1279	Lateral		903	18	Craftsman Rd
1/27/2016		1279	Lateral		908	28	Craftsman Rd
1/27/2016		1279	Lateral		905	17	Craftsman Rd

West Norriton Township
 Manhole Sewer Inspection Services Contract
 (Video Pipe Services)

Date	Manhole		Lateral	Main	House #	LF	Street
	#1	#2					
1/27/2016		1279	Lateral		910	28	Craftsman Rd
1/27/2016		1279	Lateral		907	17	Craftsman Rd
1/27/2016		1279	Lateral		912	28	Craftsman Rd
1/27/2016		1279	Lateral		909	17	Craftsman Rd
1/27/2016		1279	Lateral		914	28	Craftsman Rd
1/27/2016		1279	Lateral		911	18	Craftsman Rd
1/27/2016		1279	Lateral		2432	26	Hillendale Dr.
1/27/2016		1279	Lateral		2434	26	Hillendale Dr.
1/27/2016		1279	Lateral		2436	26	Hillendale Dr.
1/27/2016		1279	Lateral		2438	26	Hillendale Dr.
1/27/2016		1279	Lateral		2440	26	Hillendale Dr.
1/27/2016		1279	Lateral		2442	23	Hillendale Dr.
1/27/2016		1279	Lateral		2444	20	Hillendale Dr.
1/27/2016		1278	Lateral		1612	26	Countryside Lane
1/27/2016		1278	Lateral		1613	18	Countryside Lane
1/27/2016		1278	Lateral		1614	26	Countryside Lane
1/27/2016		1278	Lateral		1615	18	Countryside Lane
1/27/2016		1278	Lateral		1616	26	Countryside Lane
1/27/2016		1278	Lateral		1617	18	Countryside Lane
1/27/2016		1278	Lateral		1618	26	Countryside Lane
1/27/2016		1278	Lateral		1620	26	Countryside Lane
1/27/2016		1278	Lateral		1622	26	Countryside Lane
1/27/2016		1278	Lateral		1624	26	Countryside Lane
1/28/2016		1264	Lateral		1113	27.5	Cathedral Lane
1/28/2016		1264	Lateral		1115	27	Cathedral Lane
1/28/2016		1264	Lateral		1117	27	Cathedral Lane
1/28/2016		1264	Lateral		1119	27	Cathedral Lane
1/28/2016		1264	Lateral		1112	21.9	Cathedral Lane
1/28/2016		1264	Lateral		1121	27	Cathedral Lane
1/28/2016		1264	Lateral		1114	21.9	Cathedral Lane
1/28/2016		1264	Lateral		1123	27	Cathedral Lane
1/28/2016		1264	Lateral		1116	21.9	Cathedral Lane
1/28/2016		1264	Lateral		1125	27	Cathedral Lane
1/28/2016		1264	Lateral		1118	21	Cathedral Lane
1/28/2016		1264	Lateral		1127	27	Cathedral Lane
1/28/2016		1269	Lateral		2415	18	Hillendale Dr.
1/28/2016		1269	Lateral		2413	18	Hillendale Dr.
1/28/2016		1269	Lateral		2411	18	Hillendale Dr.
1/28/2016		1269	Lateral		2409	18	Hillendale Dr.
1/28/2016		1269	Lateral		2407	18	Hillendale Dr.
1/28/2016		1269	Lateral		2405	18	Hillendale Dr.
1/28/2016		1269	Lateral		2403	18	Hillendale Dr.
1/28/2016		1269	Lateral		2401	18	Hillendale Dr.

West Norriton Township
 Manhole Sewer Inspection Services Contract
 (Video Pipe Services)

Date	Manhole		Lateral	Main	House #	LF	Street
	#1	#2					
1/29/2016		1258	Lateral		1324	7	Statesman Lane
1/29/2016		1258	Lateral		1326	28	Statesman Lane
1/29/2016		1258	Lateral		1319	21.9	Statesman Lane
1/29/2016		1258	Lateral		1321	17	Statesman Lane
1/29/2016		1258	Lateral		1328	27.5	Statesman Lane
1/29/2016		1258	Lateral		1330	27	Statesman Lane
1/29/2016		1258	Lateral		1323	17	Statesman Lane
1/29/2016		1258	Lateral		1332	27	Statesman Lane
1/29/2016		1258	Lateral		1334	22.6	Statesman Lane
1/29/2016		1258	Lateral		1336	17	Statesman Lane
1/29/2016		1257	Lateral		1312	27.5	Statesman Lane
1/29/2016		1257	Lateral		1314	27.5	Statesman Lane
1/29/2016		1257	Lateral		1309	21	Statesman Lane
1/29/2016		1257	Lateral		1316	32.5	Statesman Lane
1/29/2016		1257	Lateral		1311	17	Statesman Lane
1/29/2016		1257	Lateral		1318	33	Statesman Lane
1/29/2016		1257	Lateral		1313	12	Statesman Lane
1/29/2016		1257	Lateral		1320	32	Statesman Lane
1/29/2016		1257	Lateral		1315	17	Statesman Lane
1/29/2016		1257	Lateral		1322	32	Statesman Lane
1/29/2016		1257	Lateral		1317	21.9	Statesman Lane
1/29/2016	1219	1218		Main		321	Trooper Rd
3/23/2016	1221	1220	Lateral		214	40	Trooper Rd
3/23/2016	1221	1220	Lateral		212	3	Trooper Rd
3/23/2016	1221	1220	Lateral		210	7	Trooper Rd
3/23/2016	1221	1220	Lateral		208	3	Trooper Rd
3/23/2016	1221	1220	Lateral		206	17	Trooper Rd
3/24/2016	1219	1218	Lateral		226	20.6	Trooper Rd
3/24/2016	1219	1218	Lateral		226	2	Trooper Rd
3/24/2016	1219	1218	Lateral		224	24	Trooper Rd
3/24/2016	1219	1218	Lateral		222	1.3	Trooper Rd
3/24/2016	1219	1218	Lateral		220	1	Trooper Rd
3/24/2016	1116	1115	Lateral		1909	39.6	Sterigere
3/25/2016	1116	1115	Lateral		1904	15.5	Sterigere
3/25/2016	1116	1115	Lateral		1905	33	Sterigere
3/25/2016	1116	1115	Lateral		1900	44	Sterigere
3/25/2016	1116	1115	Lateral		1901	31	Sterigere
3/26/2016	1115	1114	Lateral		1912	17.4	Sterigere
3/27/2016	1115	1114	Lateral		1908	18	Sterigere
3/28/2016	1179	1178	Lateral		1913	15.5	Wayne dr
3/28/2016	1179	1178	Lateral		1916	23	Wayne dr
3/28/2016	1180	1178	Lateral		1908	16.5	Wayne dr
3/28/2016	1180	1178	Lateral		1907	24	Wayne dr

West Norriton Township
 Manhole Sewer Inspection Services Contract
 (Video Pipe Services)

Date	Manhole		Lateral	Main	House #	LF	Street
	#1	#2					
3/28/2016	1180	1178	Lateral		1905	23	Wayne dr
3/28/2016	1180	1178	Lateral		1903	25	Wayne dr
3/28/2016	1183	1181	Lateral		1901	24.4	Wayne dr
3/28/2016	1182	1181	Lateral		1933	24.5	Wayne dr
3/28/2016	1182	1181	Lateral		1914	23.6	Wayne dr
3/28/2016	1182	1181	Lateral		1931	24.5	Wayne dr
3/31/2016	1268	1267	Lateral		2423	18.6	Hillendale Dr.
3/31/2016	1268	1267	Lateral		2421	14.7	Hillendale Dr.
3/31/2016	1268	1267	Lateral		2419	15	Hillendale Dr.
3/31/2016	1268	1267	Lateral		2417	18	Hillendale Dr.
3/31/2016	1271	1266	Lateral		1401	12.7	Cranberry Dr
3/31/2016	1271	1266	Lateral		1502	13.1	Cranberry Dr
3/31/2016	1276	1271	Lateral		1501	13.2	Cranberry Dr
3/31/2016	1264	1263	Lateral		1101	39.5	Cathedral Lane
4/1/2016	1264	1263	Lateral		1104	43	Cathedral Lane
4/1/2016	1264	1263	Lateral		1103	42	Cathedral Lane
4/1/2016	1264	1263	Lateral		1106	71	Cathedral Lane
4/1/2016	1264	1263	Lateral		1105	42	Cathedral Lane
4/1/2016	1264	1263	Lateral		1108	71	Cathedral Lane
4/1/2016	1264	1263	Lateral		1107	42	Cathedral Lane
4/1/2016	1264	1263	Lateral		1110	61	Cathedral Lane
4/1/2016	1264	1263	Lateral		1109	37	Cathedral Lane
4/1/2016	1264	1263	Lateral		1111	32	Cathedral Lane
4/1/2016	1277	1276	Lateral		1602	18	Countryside Lane
4/1/2016	1266	1256	Lateral		1404	18.5	Sentry Lane
4/1/2016	1261	1260	Lateral		1202	23.3	Windmill Cir
3/28/2016	1271	1276		Main		243	Cranberry Dr
3/28/2016	1277	1276		Main		0	Cranberry Dr
3/28/2016	1271	1266		Main		316.1	Cranberry Dr
3/28/2016	1266	1256		Main		254.2	Cranberry Dr
3/28/2016	1277	1276		Main		167.7	Countryside Lane
4/4/2016	952	950	Lateral		1107	58	Chestnut Ave
4/4/2016	952	950	Lateral		1109	54.9	Chestnut Ave
4/4/2016	952	950	Lateral		1110	43	Chestnut Ave
4/4/2016	952	950	Lateral		1110	66	Chestnut Ave
4/4/2016	951	950	Lateral		1108	52	Acorn Way
4/4/2016	951	950	Lateral		1104	41	Acorn Way
4/4/2016	951	950	Lateral		102	37	Acorn Way
4/4/2016	951	950	Lateral		101	55	Acorn Way
4/4/2016	951	950	Lateral		104	78	Acorn Way
4/4/2016	951	950	Lateral		103	79	Acorn Way
4/4/2016	952	950		Main		240	Acorn Way
4/4/2016	951	950		Main		247.8	Acorn Way

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Date	Manhole		Lateral	Main	House #	LF	Street
	#1	#2					
4/4/2016	950	949		Main		251.1	Chestnut Ave
4/5/2016	953	952		Main		112.6	Chestnut Ave
4/5/2016	953	952	Lateral		1112	29	E Chestnut Ave
4/5/2016	953	952	Lateral		1115	60	E Chestnut Ave
4/5/2016	953	952	Lateral		1117	62	E Chestnut Ave
4/5/2016	954	953		Main		92.1	E Chestnut Ave
4/5/2016	954	953	Lateral		1119	34	E Chestnut Ave
4/5/2016	954	953	Lateral		1114	66	E Chestnut Ave
4/5/2016	954	953	Lateral		1121	50	E Chestnut Ave
4/5/2016	954	953	Lateral		1116	68	E Chestnut Ave
4/5/2016		954	Lateral		1118	52	E Chestnut Ave
4/5/2016		949	Lateral		1102	37	E Chestnut Ave
4/5/2016		949	Lateral		1101	33	E Chestnut Ave
4/5/2016		949	Lateral		1103	43.9	E Chestnut Ave
4/5/2016		949	Lateral		1105	43	E Chestnut Ave
4/7/2016	971	970		Main		283	Rebuplic Ave
4/7/2016	990	989		Main		112.2	Union st
4/7/2016	989	984		Main		435.1	Union st
4/7/2016	984	981		Main		198.9	Union st
4/7/2016	976	975		Main		198.9	New st
4/8/2016	986	985		Main		229.1	Pennfield Ave
4/8/2016	985	984		Main		184	Pennfield Ave
4/8/2016		985	Lateral		6	18.2	Pennfield Ave
4/8/2016		985	Lateral		13	26	Pennfield Ave
4/8/2016		985	Lateral		17	32	Pennfield Ave
4/8/2016		985	Lateral		20	21	Pennfield Ave
4/11/2016	992	991		Main		283.1	Pennfield Ave
4/11/2016	992	992	Lateral		35	35	Burnside Ave
4/11/2016	992	992	Lateral		37	26	Burnside Ave
4/11/2016	992	992	Lateral		41	45	Burnside Ave
4/11/2016	992	992	Lateral		43	41	Burnside Ave
4/12/2016	993	992		Main		300.9	Burnside Ave
4/12/2016	993	994		Main		301.1	Burnside Ave
4/12/2016		993	Lateral		17	33	Burnside Ave
4/13/2016		993	Lateral		19	30.6	Burnside Ave
4/13/2016		993	Lateral		31	37.5	Burnside Ave
4/13/2016		992	Lateral		45	0	Burnside Ave
4/14/2016		975	Lateral		UH	6	New st
4/14/2016		975	Lateral		157	5	New st
4/14/2016		975	Lateral		167	5	New st
4/14/2016		989	Lateral		38	10.9	Union st
4/14/2016		989	Lateral		42	5	Union st
4/14/2016		989	Lateral		2	17	Union st

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Date	Manhole		Lateral	Main	House #	LF	Street
	#1	#2					
4/14/2016		989	Lateral		6	25	Union st
4/14/2016		970	Lateral		30	15.5	Rebuplic Ave
4/14/2016		970	Lateral		27	10.5	Rebuplic Ave
4/14/2016		970	Lateral		26	13	Rebuplic Ave
4/14/2016		970	Lateral		22	20	Rebuplic Ave
4/14/2016		970	Lateral		21	9	Rebuplic Ave
4/14/2016		970	Lateral		18	21.9	Rebuplic Ave
4/14/2016		970	Lateral		14	21.9	Rebuplic Ave
4/14/2016		970	Lateral		13	7.5	Rebuplic Ave
4/14/2016		970	Lateral		10	24	Rebuplic Ave
4/15/2016		970	Lateral		2	24	Penfield Ave
4/15/2016		984	Lateral		5	13.5	Penfield Ave
4/15/2016		984	Lateral		9	25	Penfield Ave
4/18/2016		984	Lateral		6	15	Penfield Ave
4/18/2016		984	Lateral		10	25	Union ave
4/18/2016		984	Lateral		1	16	Union ave
4/18/2016		984	Lateral		14	16	Union ave
4/18/2016		984	Lateral		18	16	
4/18/2016		984	Lateral		17	16	
4/18/2016		984	Lateral		21	15	
4/18/2016		984	Lateral		22	15	
4/18/2016		984	Lateral		26	16	
4/18/2016		984	Lateral		25	13	
4/18/2016		984	Lateral		30	25.5	
4/18/2016		984	Lateral		29	16	
4/18/2016		984	Lateral		34	25	
4/18/2016		984	Lateral		38	15	
4/18/2016		981	Lateral		148	27	Liberty
4/18/2016		981	Lateral		2	17	Union ave
4/19/2016		1050B	Lateral		53	15	Potts Ave
4/19/2016		1050B	Lateral		50	19	Potts Ave
4/19/2016		1050B	Lateral		51	15	Potts Ave
4/19/2016		1050B	Lateral		49	15	Potts Ave
4/19/2016		1050B	Lateral		46	17	Potts Ave
4/19/2016		1050B	Lateral		45	15	Potts Ave
4/19/2016		1050B	Lateral		44	15	Potts Ave
4/19/2016		1050B	Lateral		43	16	Potts Ave
4/19/2016		1050B	Lateral		40	14	Potts Ave
4/19/2016		1050B	Lateral		41	15	Potts Ave
4/19/2016		1050B	Lateral		39	16	Potts Ave
4/19/2016		1050B	Lateral		36	14	
4/19/2016		1050B	Lateral		35	16	
4/19/2016		1050B	Lateral		28	15	

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Date	Manhole		Lateral	Main	House #	LF	Street
	#1	#2					
4/19/2016		1050	Lateral		2332	6	Chestnut Ave
4/19/2016		1050	Lateral		2325	6	
4/20/2016		1051	Lateral		231	0.1	
4/20/2016		1051	Lateral		2124	6	
4/20/2016		1052	Lateral		2122	6	
4/20/2016		1052	Lateral		2125		
4/20/2016		1049	Lateral		2401	26	
4/20/2016		1049	Lateral		67	10.9	Potts Ave
4/20/2016		1049	Lateral		62	2	Potts Ave
4/20/2016		1050	Lateral		63	17	
4/20/2016		1050	Lateral		61	17	Potts Ave
4/20/2016		1050	Lateral		58	15	Potts Ave
4/20/2016		1050	Lateral		59	16	Potts Ave
4/20/2016		1050	Lateral		54	26	Potts Ave
4/20/2016		1050	Lateral		55	17.5	
4/20/2016		1050	Lateral		52	17	
4/21/2016	1215	1214		Main		109.1	Farm Cir
4/22/2016	1218	1217		Main		142.1	Trooper Rd
4/22/2016	1217	1216		Main		244.9	Trooper Rd
4/22/2016	1216	1213		Main		156.1	Trooper Rd
4/22/2016	1213	1212		Main		222	Trooper Rd
4/22/2016		1218	Lateral		228	0.1	Trooper Rd
4/18/2016	1050A	1050B		Main		441.8	Potts Ave
4/18/2016	1050B	1050		Main		419.1	Potts Ave
4/18/2016	1053	1052		Main		228.4	Chestnut Ave
4/18/2016	1052	1051		Main		284.1	Chestnut Ave
4/18/2016	1050	1051		Main		297.6	Chestnut Ave
4/18/2016	1050	1049		Main		326.3	Chestnut Ave
4/18/2016	1049	1048		Main		63.1	Chestnut Ave
4/27/2016	1258	1257		Main		183.8	Statesman Lane
4/29/2016	1256	1255		Main		97.1	Statesman Lane
4/29/2016	1255	1254		Main		162.3	Statesman Lane
4/29/2016	1254	1147		Main		222.2	Statesman Lane
4/29/2016	1152	1151		Main		189.8	Statesman Lane
4/25/2016	1209	1208		Main		93.5	Spring Cir
4/25/2016	1210	1209		Main		133.6	Spring Cir
4/21/2016	1212	1211		Main		207.4	Spring Cir
4/25/2016	1211	1208		Main		206.2	Spring Cir
4/25/2016	1227	1226		Main		178.9	Fieldcrest Ave
4/26/2016	1226	1224		Main		263.1	Fieldcrest Ave
4/26/2016	1225	1224		Main		241	Rockwood Ave
4/26/2016	1224	1223		Main		146.1	Cobblestone Cir
4/26/2016	1223	1212		Main		148.3	Cobblestone Cir

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Date	Manhole		Lateral	Main	House #	LF	Street
	#1	#2					
4/26/2016	1223	1224	Lateral		2498	21	Rockwood Ave
4/26/2016	1223	1224	Lateral		2497	34	Rockwood Ave
4/26/2016	1223	1224	Lateral		2500	16	Rockwood Ave
4/26/2016	1223	1224	Lateral		2499	34	Rockwood Ave
4/26/2016	1223	1224	Lateral		2501	35	Rockwood Ave
4/26/2016	1223	1224	Lateral		2502	16	Rockwood Ave
4/26/2016	1223	1224	Lateral		2504	16	Rockwood Ave
4/26/2016	1223	1224	Lateral		2503	37	Rockwood Ave
4/26/2016	1223	1224	Lateral		2505	37	Rockwood Ave
4/26/2016	1223	1224	Lateral		2506	21.9	Rockwood Ave
4/26/2016	1223	1224	Lateral		2508	21.9	Rockwood Ave
4/26/2016	1223	1224	Lateral		2507	38	Rockwood Ave
4/26/2016	1223	1224	Lateral		2509	38	Rockwood Ave
4/26/2016	1223	1224	Lateral		2510	68	Rockwood Ave
4/26/2016	1223	1224	Lateral		2512	68	Rockwood Ave
4/26/2016	1223	1224	Lateral		2511	42	Rockwood Ave
4/26/2016	1223	1224	Lateral		2513	42	Rockwood Ave
4/26/2016	1223	1224	Lateral		2514	82	Rockwood Ave
4/26/2016	1223	1224	Lateral		2515	45	Rockwood Ave
5/2/2016	1196	1195		Main		140	Horseshoe Rd
5/2/2016	1195	1194		Main		239	Horseshoe Rd
5/2/2016	1194	1193		Main		213	Horseshoe Rd
5/2/2016	1193	1151		Main		184.2	Horseshoe Rd
5/3/2016	129	128		Main		328	Prospect Ave
5/3/2016	128	127		Main		301.1	Prospect Ave
5/3/2016	127	126		Main		158.1	Prospect Ave
5/4/2016		1223	Lateral		2487	33	Cobblestone Cir
5/4/2016		1223	Lateral		2489	32	Cobblestone Cir
5/4/2016		1223	Lateral		2490	63	Cobblestone Cir
5/4/2016		1223	Lateral		2491	32	Cobblestone Cir
5/4/2016		1223	Lateral		2493	32	Cobblestone Cir
5/4/2016		1223	Lateral		2492	24	Cobblestone Cir
5/4/2016		1223	Lateral		2494	29	Cobblestone Cir
5/4/2016		1223	Lateral		2495	32	Cobblestone Cir
5/4/2016		1223	Lateral		2496	21	Cobblestone Cir
5/4/2016		1212	Lateral		2479	32	Cobblestone Cir
5/4/2016		1212	Lateral		2488	21	Cobblestone Cir
5/4/2016		1212	Lateral		2481	31	Cobblestone Cir
5/4/2016		1212	Lateral		2483	32	Cobblestone Cir
5/4/2016		1212	Lateral		2485	32	Cobblestone Cir
5/5/2016		1226	Lateral		2496	16.5	Fieldcrest Ave
5/5/2016		1226	Lateral		2498	16	Fieldcrest Ave
5/5/2016		1226	Lateral		2503	26	Fieldcrest Ave

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Date	Manhole		Lateral	Main	House #	LF	Street
	#1	#2					
5/5/2016		1226	Lateral		2505	26	Fieldcrest Ave
5/5/2016		1226	Lateral		2500	25.5	Fieldcrest Ave
5/5/2016		1226	Lateral		2502	32	Fieldcrest Ave
5/5/2016		1226	Lateral		2507	13	Fieldcrest Ave
5/5/2016		1226	Lateral		2509	13	Fieldcrest Ave
5/5/2016		1226	Lateral		2504	35	Fieldcrest Ave
5/5/2016		1226	Lateral		2511	16	Fieldcrest Ave
5/5/2016		1226	Lateral		2513	16	Fieldcrest Ave
5/5/2016		1226	Lateral		2506	21	Fieldcrest Ave
5/5/2016		1226	Lateral		2508	25	Fieldcrest Ave
5/5/2016		1226	Lateral		2515	20	Fieldcrest Ave
5/5/2016		1226	Lateral		2510	25	Fieldcrest Ave
5/5/2016		1226	Lateral		2512	25	Fieldcrest Ave
5/5/2016		1226	Lateral		2514	19	Fieldcrest Ave
5/9/2016	1207	1206		Main		153.3	Spring Cir
5/9/2016	1206	1205		Main		265.7	Spring Cir
5/9/2016	1205	1195		Main		267	Spring Cir
5/9/2016	1151	1150		Main		265.6	Harvest Cir
5/9/2016	1150	1147		Main		226.4	Harvest Cir
5/9/2016	1149	1148		Main		238.4	Paddock Cir
5/9/2016	1148	1147		Main		67.4	Paddock Cir
5/10/2016	1149	1148	Lateral		213	1.2	Paddock Cir
5/11/2016	1149	1148	Lateral		210	69	Paddock Cir
5/11/2016	1149	1148	Lateral		209	52	Paddock Cir
5/11/2016	1149	1148	Lateral		206	40	Paddock Cir
5/11/2016	1149	1148	Lateral		205	19	Paddock Cir
5/11/2016	1149	1148	Lateral		201	41.6	Paddock Cir
5/11/2016	1149	1148	Lateral		202	50.5	Paddock Cir
5/11/2016	1152	1151	Lateral		209	5	Harvest Cir
5/11/2016	1152	1151	Lateral		205	36	Harvest Cir
5/11/2016	1152	1151	Lateral		206	63	Harvest Cir
5/12/2016	129	128	Lateral		31	28	Prospect Ave
5/12/2016	129	128	Lateral		32	8	Prospect Ave
5/12/2016	129	128	Lateral		27	19	Prospect Ave
5/12/2016	129	128	Lateral		28	17	Prospect Ave
5/12/2016	129	128	Lateral		24	8.5	Prospect Ave
5/12/2016	129	128	Lateral		23	21	Prospect Ave
5/12/2016	129	128	Lateral		19	28.8	Prospect Ave
5/12/2016	129	128	Lateral		20	8.5	Prospect Ave
5/12/2016	129	128	Lateral		15	23.7	Prospect Ave
5/12/2016	129	128	Lateral		16	11.5	Prospect Ave
5/12/2016	129	128	Lateral		9	17.7	Prospect Ave
5/12/2016	129	128	Lateral		14	18	Prospect Ave

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Date	Manhole		Lateral	Main	House #	LF	Street
	#1	#2					
5/12/2016	129	128	Lateral		10	9	Prospect Ave
5/13/2016	128	127		Main		301	Prospect Ave
5/13/2016	127	126		Main		298.8	Prospect Ave
5/13/2016	127	126	Lateral		55	27.7	Prospect Ave
5/13/2016	128	127	Lateral		56	20	Prospect Ave
5/13/2016	128	127	Lateral		50	18	Prospect Ave
5/13/2016	128	127	Lateral		47	29	Prospect Ave
5/13/2016	128	127	Lateral		48	15	Prospect Ave
5/13/2016	128	127	Lateral		42	17	Prospect Ave
5/13/2016	128	127	Lateral		43	29	Prospect Ave
5/13/2016	128	127	Lateral		39	30	Prospect Ave
5/13/2016	128	127	Lateral		35	28.5	Prospect Ave
5/13/2016	128	127	Lateral		36	17	Prospect Ave
5/16/2016	1163	1162	Lateral		1917	31	Wayne dr
5/16/2016	1163	1162	Lateral		1919	29	Wayne dr
5/16/2016	1163	1162	Lateral		1921	36	Wayne dr
5/16/2016	1164	1163	Lateral		1923	49	Wayne dr
5/16/2016	986	985	Lateral		21	29.5	Penfield Ave
5/16/2016	986	985	Lateral		24	14	Penfield Ave
5/16/2016	986	985	Lateral		25	29.5	Penfield Ave
5/16/2016	1210	1209	Lateral		309	64.5	Spring Cir
5/16/2016	1210	1209	Lateral		310	33	Spring Cir
5/16/2016	1210	1209	Lateral		305	23	Spring Cir
5/16/2016	1210	1209	Lateral		306	24	Spring Cir
5/16/2016	1226	1224	Lateral		2486	35.7	Fieldcrest Ave
5/17/2016	1226	1224	Lateral		2488	35.8	Fieldcrest Ave
5/17/2016	1226	1224	Lateral		2490	36.1	Fieldcrest Ave
5/17/2016	1226	1224	Lateral		2501	20	Fieldcrest Ave
5/17/2016	1226	1224	Lateral		2492	26	Fieldcrest Ave
5/17/2016	1226	1224	Lateral		2494	25.7	Fieldcrest Ave
5/17/2016	2415	2414	Lateral		310	40	Farm Cir
5/17/2016	2415	2414	Lateral		306	26.7	Farm Cir
5/17/2016	1129	1128	Lateral		2106	35.5	Oakland Dr
5/17/2016	1129	1128	Lateral		-	40	Oakland Dr
5/18/2016	1022	1020		Main		291.6	Ridge Pike
5/18/2016	1024	1022		Main		305.1	Ridge Pike
5/18/2016	1024	1022		Main		318.4	Ridge Pike
5/18/2016	1016	1012		Main		291.1	Ridge Pike
5/18/2016	1020	1016		Main		318.2	Ridge Pike
5/18/2016	1013	1012	Lateral		242	21	Rose Ave
5/18/2016	1013	1012	Lateral		5	21	Rose Ave
5/18/2016	1013	1012	Lateral		6	18.6	Rose Ave
5/18/2016	1013	1012	Lateral		8	21	Rose Ave

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Date	Manhole		Lateral	Main	House #	LF	Street
	#1	#2					
5/18/2016	1013	1012	Lateral		7	21	Rose Ave
5/19/2016	627	626		Main		89	Trooper Rd
5/19/2016	628	627		Main		187.8	Trooper Rd
5/19/2016	628	627	Lateral		Lot	8.2	Trooper Rd
5/19/2016	628	627	Lateral		Lot	28.8	Trooper Rd
5/19/2016	992	991	Lateral		35	35	Burnside Ave
5/19/2016	992	991	Lateral		37	28	Burnside Ave
5/19/2016	992	991	Lateral		41	46	Burnside Ave
5/19/2016	992	991	Lateral		43	16.6	Burnside Ave
5/20/2016	707	706		Main		312	School Lane
5/20/2016	706	705		Main		169.1	School Lane
5/20/2016	705	704		Main		315.7	School Lane
5/20/2016	707	706	Lateral		-	22	School Lane
5/20/2016	707	706	Lateral		26	5	School Lane
5/20/2016	707	706	Lateral		-	20	School Lane
5/20/2016	707	706	Lateral		16	9.5	School Lane
5/20/2016	707	706	Lateral		-	9.5	School Lane
5/24/2016	706	705	Lateral		43	14	School Lane
5/24/2016	706	705	Lateral		45	18.5	School Lane
5/24/2016	706	705	Lateral		45	36.5	School Lane
5/24/2016	706	705	Lateral		-	6	School Lane
5/24/2016	706	705	Lateral		35	21.5	School Lane
5/24/2016	706	705	Lateral		-	27	School Lane
5/24/2016	1045	1044	Lateral		2501	0.5	Stable Rd
5/24/2016	1045	1044	Lateral		2453	0.5	Stable Rd
5/24/2016	1045	1044	Lateral		105	0.5	Stable Rd
5/24/2016	1045	1044	Lateral		109	0.5	Stable Rd
5/25/2016	127	126	Lateral		76	8.2	Prospect Ave
5/25/2016	127	126	Lateral		73	22.2	Prospect Ave
5/25/2016	127	126	Lateral		74	3	Prospect Ave
5/25/2016	127	126	Lateral		66	23	Prospect Ave
5/25/2016	127	126	Lateral		67	29	Prospect Ave
5/25/2016	127	126	Lateral		64	20	Prospect Ave
5/25/2016	127	126	Lateral		63	21	Prospect Ave
5/25/2016	127	126	Lateral		59	29	Prospect Ave
5/25/2016	127	126	Lateral		58	24	Prospect Ave
5/25/2016	1011	1007		Main		327.9	Ridge Pike
5/25/2016	1007	1006		Main		241.6	Ridge Pike
5/25/2016	1006	1002		Main		181	Ridge Pike
5/26/2016	1002	1001		Main		121.4	Ridge Pike
5/26/2016	1001	997		Main		276.8	Ridge Pike
5/26/2016	997	996		Main		246.6	Ridge Pike
5/26/2016	996	995		Main		170	Ridge Pike

West Norriton Township
 Manhole Sewer Inspection Services Contract
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Date	Manhole		Lateral	Main	House #	LF	Street
	#1	#2					
5/26/2016	995	994		Main		138	Ridge Pike
5/27/2016	1015	1011		Main		306.4	Ridge Pike
5/27/2016	1019	1015		Main		274.1	Ridge Pike
5/27/2016	1008	1007		Main		296.1	Potts Ave
5/27/2016	1009	1008		Main		122.6	Potts Ave
6/1/2016	1003	1002		Main		252.8	Galbraith Ave
6/1/2016	1003	1002	Lateral		14	27	Galbraith Ave
6/1/2016	1003	1002	Lateral		13	3	Galbraith Ave
6/1/2016	998	997		Main		19.4	Miami Ave
6/1/2016	1001	997	Lateral		2201	6.5	Ridge Pike
6/1/2016	1001	997	Lateral		1122	0.6	Ridge Pike
6/1/2016	705	704	Lateral		65	28	School Lane
6/1/2016	705	704	Lateral		-	12.5	School Lane
6/1/2016	705	704	Lateral		63	14.4	School Lane
6/1/2016	705	704	Lateral		47	18	School Lane
6/3/2016	1022	1020	Lateral		-	0.5	Ridge Pike
6/3/2016	1022	1020	Lateral		2508	2	Ridge Pike
6/3/2016	1022	1020	Lateral		2512	6	Ridge Pike
6/3/2016	1022	1020	Lateral		-	3.5	Ridge Pike
6/3/2016	1022	1020	Lateral		-	6.5	Ridge Pike
6/3/2016	1022	1020	Lateral		-	0	Ridge Pike
6/3/2016	1022	1020	Lateral		-	3	
6/6/2016	1016	1012	Lateral		-	9	
6/6/2016	1016	1012	Lateral		2440	0.1	
6/6/2016	1020	1016	Lateral		-	0.5	
6/6/2016	1020	1016	Lateral		2502	0.5	
6/6/2016	1015	1011	Lateral		2431	8	
6/6/2016	1015	1011	Lateral		-	0.5	
6/6/2016	1015	1011	Lateral		-	0	
6/6/2016	1015	1011	Lateral		-	5	
6/6/2016	1015	1011	Lateral		-	1	
6/6/2016	1019	1015	Lateral		2453	10	
6/6/2016	1019	1015	Lateral		2491	0.5	
6/7/2016	1008	1007	Lateral		-	31.5	Potts Ave
6/7/2016	1008	1007	Lateral		8	25	
6/7/2016	1008	1007	Lateral		10	14	
6/7/2016	1008	1007	Lateral		12	16.6	
6/7/2016	1011	1007	Lateral		-	0	
6/7/2016	1011	1007	Lateral		-	8.2	
6/7/2016	998	997		Main		278.8	Miami Ave
6/7/2016	998	997	Lateral		17	78	Miami Ave
6/7/2016	998	997	Lateral		18	32	
6/7/2016	998	997	Lateral		19	28	

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Date	Manhole		Lateral	Main	House #	LF	Street
	#1	#2					
6/8/2016	994	993	Lateral		-	38	Burnside Ave
6/8/2016			Lateral		-	25	Burnside Ave
6/9/2016	996	995	Lateral		-	0	Burnside Ave
6/9/2016			Lateral		-	0	Burnside Ave
6/9/2016	997	996	Lateral		-	0	Burnside Ave
6/9/2016	997	996	Lateral		-	0	Burnside Ave
6/9/2016			Lateral		-	0	Burnside Ave
6/9/2016	1106	1105		Main		158.7	Burnside Ave
6/10/2016	718	717		Main		270.1	Ridge Pike
6/10/2016	717	716		Main		137.9	Ridge Pike
6/10/2016	716	715		Main		161.4	Ridge Pike
6/10/2016	715	714		Main		273.9	Ridge Pike
6/10/2016	719	714		Main		190.8	Ridge Pike
6/16/2016	717	716	Lateral		-	6.6	Ridge Pike
6/16/2016			Lateral		-	7.3	
6/16/2016	718	717	Lateral		-	1	
6/16/2016	718	717	Lateral		-	11.7	
6/16/2016	718	717	Lateral		-	7	
6/16/2016	718	717	Lateral		-	5	
6/16/2016	716	715	Lateral		2076	7	
6/16/2016	716	715	Lateral		2082	11	
6/16/2016	716	715	Lateral		2082	1	
6/16/2016			Lateral		-	1	
6/17/2016	715	714	Lateral		2062	0.6	
6/17/2016	715	714	Lateral		2062	5	
6/17/2016	715	714	Lateral		2062	9	
6/17/2016	719	714	Lateral		2050	3	
6/17/2016	719	714	Lateral		-	1	
6/17/2016			Lateral		-	8	
6/20/2016	1106	1105		Main		182.7	Burnside Ave
6/20/2016	1107	1106		Main		302.1	Burnside Ave
6/20/2016	1108	1107		Main		301.5	Burnside Ave
6/20/2016	1106	1105	Lateral		142	10.9	Burnside Ave
6/20/2016	1106	1105	Lateral		138	11.7	Burnside Ave
6/20/2016	1106	1105	Lateral		134	9	Burnside Ave
6/21/2016	1108	1107	Lateral		162	16	Burnside Ave
6/21/2016	1108	1107	Lateral		158	11.5	Burnside Ave
6/21/2016	1108	1107	Lateral		154	9.6	Burnside Ave
6/21/2016	1107	1106	Lateral		150	15.4	Burnside Ave
6/21/2016	1107	1106	Lateral		2040	17	Burnside Ave
6/21/2016	1036	1035		Main		302.8	Trooper Rd
6/21/2016	1037	1036		Main		302.3	Trooper Rd
6/21/2016	1038	1037		Main		246.7	Trooper Rd

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Date	Manhole		Lateral	Main	House #	LF	Street
	#1	#2					
6/22/2016	1034	1033		Main		291.6	Trooper Rd
6/22/2016	1033	1032		Main		22	Trooper Rd
6/22/2016	1035	1034		Main		299	Trooper Rd
6/23/2016	1031	1030		Main		252.4	Trooper Rd
6/23/2016	1032	1031		Main		241	Trooper Rd
6/23/2016	1029	1028		Main		224.1	Trooper Rd
6/23/2016	1030	1029		Main		250	Trooper Rd
6/23/2016	1027	1025		Main		249.8	Trooper Rd
6/23/2016	1025	1023		Main		300.4	Ridge Pike
6/24/2016	720	719	Lateral		2030	4	Ridge Pike
6/24/2016	720	719	Lateral		2030	0	Ridge Pike
6/24/2016	720	719	Lateral		2020	0	Ridge Pike
6/24/2016	913	912		Main		163.4	Ridge Pike
6/24/2016	913	912	Lateral		2009	5.4	Ridge Pike
6/24/2016	913	912	Lateral		2007	0	Ridge Pike
6/24/2016	721	720		Main		76.8	Ridge Pike
6/24/2016	720	719		Main		347.71	Ridge Pike
6/24/2016	913	912		Main		200.8	Ridge Pike
6/16/2016	717	716	Lateral		-	6.6	Ridge Pike
6/16/2016	717	716	Lateral		-	7.3	Ridge Pike
6/16/2016	718	717	Lateral		-	1	Ridge Pike
6/16/2016	718	717	Lateral		-	11.7	Ridge Pike
6/16/2016	718	717	Lateral		-	7	Ridge Pike
6/16/2016	718	717	Lateral		-	5	Ridge Pike
6/16/2016	716	715	Lateral		2076	7	Ridge Pike
6/16/2016	716	715	Lateral		2082	11	Ridge Pike
6/16/2016	716	715	Lateral		2082	1	Ridge Pike
6/16/2016	716	715	Lateral		-	1	Ridge Pike
6/17/2016	715	714	Lateral		2062	0.6	Ridge Pike
6/17/2016	715	714	Lateral		2062	5	Ridge Pike
6/17/2016	715	714	Lateral		2062	9	Ridge Pike
6/17/2016	719	714	Lateral		2050	3	Ridge Pike
6/17/2016	719	714	Lateral		-	1	Ridge Pike
6/17/2016	719	714	Lateral		-	8	Ridge Pike
6/20/2016	1105	1106		Main		182.7	Burnside Ave
6/20/2016	1107	1106		Main		302.1	Burnside Ave
6/20/2016	1108	1107		Main		301.5	Burnside Ave
6/20/2016	1106	1105	Lateral		142	10.9	Burnside Ave
6/20/2016	1106	1105	Lateral		138	11.7	Burnside Ave
6/20/2016	1106	1105	Lateral		134	9	Burnside Ave
6/21/2016	1108	1107	Lateral		162	16	Burnside Ave
6/21/2016	1108	1107	Lateral		158	11.5	Burnside Ave
6/21/2016	1108	1107	Lateral		154	9.6	Burnside Ave

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Date	Manhole		Lateral	Main	House #	LF	Street
	#1	#2					
6/21/2016	1107	1106	Lateral		150	15.4	Burnside Ave
6/21/2016	1107	1106	Lateral		2040	17	Burnside Ave
6/21/2016	1036	1035		Main		302.8	Trooper Rd
6/21/2016	1037	1036		Main		302.3	Trooper Rd
6/21/2016	1038	1037		Main		246.7	Trooper Rd
6/22/2016	1034	1033		Main		291.6	Trooper Rd
6/22/2016	1033	1032		Main		22	Trooper Rd
6/22/2016	1035	1034		Main		299.1	Trooper Rd
6/23/2016	1031	1030		Main		252.4	Trooper Rd
6/23/2016	1032	1031		Main		241	Trooper Rd
6/23/2016	1029	1028		Main		224.1	Trooper Rd
6/23/2016	1030	1029		Main		250	Trooper Rd
6/23/2016	1027	1025		Main		249.8	Ridge Pike
6/23/2016	1025	1023		Main		300.4	Ridge Pike
6/24/2016	720	719	Lateral		2030	4	Ridge Pike
6/24/2016	720	719	Lateral		2030	0	Ridge Pike
6/24/2016	720	719	Lateral		2020	0	Ridge Pike
6/24/2016	913	912		Main		163.4	Ridge Pike
6/24/2016	913	912	Lateral		2009	5.4	Ridge Pike
6/24/2016	913	912	Lateral		2007	0	Ridge Pike
6/24/2016	721	720		Main		76.8	Ridge Pike
6/24/2016	720	719		Main		347.71	Ridge Pike
6/24/2016	913	912		Main		200.8	Ridge Pike
6/27/2016	915	914		Main		385.5	Ridge Pike
6/27/2016	916	915		Main		40	Ridge Pike
6/27/2016	914	913	Lateral		-	0	Ridge Pike
6/27/2016	914	913	Lateral		2011	5	Ridge Pike
7/1/2016	1145	1144		Main		201	Splitrail Cir
7/1/2016	1144	1143		Main		212.7	Splitrail Cir
7/1/2016	1145	1144	Lateral		210	27.5	Splitrail Cir
7/1/2016	1145	1144	Lateral		205	49	Splitrail Cir
7/1/2016	1145	1144	Lateral		206	14	Splitrail Cir
7/1/2016	1145	1144	Lateral		201	43.9	Splitrail Cir
7/1/2016	1145	1144	Lateral		202	38	Splitrail Cir
7/1/2016	1137	1141		Main		230.9	Oakland Dr
7/1/2016	1141	1142		Main		277.6	Oakland Dr
7/8/2016	1031	1030	Lateral		18	5	Trooper Rd
7/8/2016	1031	1030	Lateral		20	3.6	Trooper Rd
7/8/2016	1031	1030	Lateral		20	4.6	Trooper Rd
7/8/2016	1031	1030	Lateral		22	11.6	Trooper Rd
7/8/2016	1031	1030	Lateral		24	4.7	Trooper Rd
7/8/2016	1032	1031	Lateral		26	14.8	Trooper Rd
7/8/2016	1032	1031	Lateral		28	11.6	Trooper Rd

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Date	Manhole		Lateral	Main	House #	LF	Street
	#1	#2					
7/8/2016	1032	1031	Lateral		30	11.4	Trooper Rd
7/8/2016	1032	1031	Lateral		32	1	Trooper Rd
7/8/2016	1029	1028	Lateral		-	2	Trooper Rd
7/8/2016	1030	1029	Lateral		10	18	Trooper Rd
7/8/2016	1030	1029	Lateral		14	4.8	Trooper Rd
7/8/2016	1030	1029	Lateral		14	5.4	Trooper Rd
7/8/2016	1030	1029	Lateral		16	0	Trooper Rd
7/8/2016	1035	1034	Lateral		-	8	Trooper Rd
7/8/2016	1035	1034	Lateral		-	1	Trooper Rd
7/5/2016	1298	1297		Main		241.8	Trooper Rd
7/5/2016	1294	1297		Main		258.3	Burnside Ave
7/5/2016	1294	1293		Main		290.5	Burnside Ave
7/5/2016	1142	1292		Main		259.6	Oakland Dr
7/5/2016	1293	1292	Lateral			7.7	Oakland Dr
7/5/2016	1139	1138		Main		235.8	Barnwood Cir
7/6/2016	1037	1036	Lateral		-	10.3	Trooper Rd
7/6/2016	1037	1036	Lateral		-	11.6	Trooper Rd
7/6/2016	1034	1033	Lateral		34	7	Trooper Rd
7/6/2016	1034	1033	Lateral		36	16.7	Trooper Rd
7/6/2016	1034	1033	Lateral		38	14.3	Trooper Rd
7/6/2016	1034	1033	Lateral		40	16.5	Trooper Rd
7/6/2016	1031	1030	Lateral		18	12.7	Trooper Rd
6/3/2016	1022	1020	Lateral		-	0.5	Ridge Pike
6/3/2016	1022	1020	Lateral		2508	2	Ridge Pike
6/3/2016	1022	1020	Lateral		2512	6	Ridge Pike
6/3/2016	1022	1020	Lateral		-	3.5	Ridge Pike
6/3/2016	1022	1020	Lateral		-	6.5	Ridge Pike
6/3/2016	1024	1022	Lateral		-	0	Ridge Pike
6/3/2016	1024	1022	Lateral		-	8	Ridge Pike
6/3/2016	1024	1022	Lateral		-	3	Ridge Pike
6/6/2016	1016	1012	Lateral		-	9	Ridge Pike
6/6/2016	1016	1012	Lateral		2440	0.1	Ridge Pike
6/6/2016	1020	1016	Lateral		-	0.5	Ridge Pike
6/6/2016	1020	1016	Lateral		2502	0.5	Ridge Pike
6/6/2016	1015	1011	Lateral		2431	8	Ridge Pike
6/6/2016	1015	1011	Lateral		-	0.5	Ridge Pike
6/6/2016	1015	1011	Lateral		-	0	Ridge Pike
6/6/2016	1015	1011	Lateral		-	5	Ridge Pike
6/6/2016	1015	1011	Lateral		2453	1	Ridge Pike
6/6/2016	1019	1015	Lateral		2453	10	Ridge Pike
6/6/2016	1019	1015	Lateral		2491	0.5	Ridge Pike
6/7/2016	1008	1007	Lateral		-	31.5	Potts Ave
6/7/2016	1008	1107	Lateral		8	25	Potts Ave

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Date	Manhole		Lateral	Main	House #	LF	Street
	#1	#2					
6/7/2016	1008	1007	Lateral		10	14	Potts Ave
6/7/2016	1008	1007	Lateral		12	16.6	Potts Ave
6/7/2016	1011	1007	Lateral		-	0	Ridge Pike
6/7/2016	1011	1007	Lateral		Lot	8.2	Ridge Pike
6/7/2016	998	997		Main		278.8	Miami Ave
6/7/2016	998	997	Lateral		17	78	Miami Ave
6/7/2016	998	997	Lateral		18	32	Miami Ave
6/7/2016	998	997	Lateral		19	28	Miami Ave
6/8/2016	994	993	Lateral		-	38	Burnside Ave
6/8/2016	994	993	Lateral		-	25	Burnside Ave
6/9/2016	996	995	Lateral		-	0	Burnside Ave
6/9/2016	996	995	Lateral		-	0	Burnside Ave
6/9/2016	997	996	Lateral		-	0	Burnside Ave
6/9/2016	997	996	Lateral		-	0	Burnside Ave
6/9/2016	997	996	Lateral		-	0	Ridge Pike
6/9/2016	1106	1105		Main		158.7	Burnside Ave
6/10/2016	718	717		Main		270.1	Ridge Pike
6/10/2016	717	716		Main		137.9	Ridge Pike
6/10/2016	716	715		Main		161.4	Ridge Pike
6/10/2016	715	714		Main		273.9	Ridge Pike
6/10/2016	719	714		Main		190.8	Ridge Pike
7/11/2016	1294	1293		Main		304.7	Burnside Ave
7/11/2016	1293	1292		Main		307	Burnside Ave
7/11/2016	1295	1294		Main		136.6	Burnside Ave
7/12/2016	917	914		Main		224.9	Ridge Pike
7/12/2016	918	917		Main		300.6	Ridge Pike
7/12/2016	919	918		Main		303.4	Ridge Pike
7/12/2016	920	919		Main		240.8	Ridge Pike
7/12/2016	917	914		Main		75	Ridge Pike
7/12/2016	719	714	Lateral		2030	4.5	Ridge Pike
7/12/2016	719	714	Lateral		2030	0	Ridge Pike
7/12/2016	719	714	Lateral		2020	0	Ridge Pike
7/13/2016	975	974		Main		167.7	New st
7/13/2016	974	973		Main		74.5	New st
7/13/2016	973	944		Main		58.1	Pennburn Rd
7/13/2016	973	944	Lateral		1989	29	Pennburn Rd
7/13/2016	973	944	Lateral		1997	0	Pennburn Rd
7/13/2016	1025	1023	Lateral		2525	6.3	Ridge Pike
7/13/2016	1025	1023	Lateral		2541	7.4	Ridge Pike
7/13/2016	1025	1023	Lateral		2551	0	Ridge Pike
7/13/2016	1023	1021		Main		202.2	Ridge Pike
7/13/2016	1021	1019		Main		251.4	Ridge Pike
7/18/2016	1021	1019	Lateral		2501	1	Ridge Pike

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Date	Manhole		Lateral	Main	House #	LF	Street
	#1	#2					
7/18/2016	1021	1019	Lateral		-	9.5	Ridge Pike
7/18/2016	1023	1021	Lateral		-	8	Ridge Pike
7/18/2016	1023	1021	Lateral		-	2.5	Ridge Pike
7/18/2016	1220	1219	Lateral		218	0	Trooper Rd
7/18/2016	1220	1219	Lateral		216	0	Trooper Rd
7/19/2016	714	713		Main		231.5	Ridge Pike
7/19/2016	713	712		Main		227.4	Ridge Pike
7/19/2016	712	711		Main		75.8	Ridge Pike
7/19/2016	711	710		Main		299.5	Ridge Pike
7/19/2016	710	709		Main		148	Ridge Pike
7/26/2016	704	703		Main		61.3	School Lane
7/26/2016	703	702		Main		128.7	School Lane
7/26/2016	702	701		Main		97.1	School Lane
7/26/2016	701	700		Main		244.8	School Lane
7/26/2016	704	703	Lateral		70	6.8	School Lane
7/26/2016	701	700	Lateral		99	17.7	School Lane
7/27/2016	1009	1008		Main		302.2	Potts Ave
7/27/2016	1009	1008	Lateral		12	16.4	Potts Ave
7/27/2016	1009	1008	Lateral		18	17.3	Potts Ave
7/27/2016	1009	1008	Lateral		20	0.5	Potts Ave
7/27/2016	1009	1008	Lateral		25	35.2	Potts Ave
7/27/2016	1009	1008	Lateral		22	2	Potts Ave
7/27/2016	1009	1008	Lateral		29	7.8	Potts Ave
7/28/2016	1188	1187	Lateral		2417	20.7	Potts Ave
7/28/2016	1187	1186	Lateral		2401	29.9	Oakland Dr
7/28/2016	1187	1186	Lateral		2405	0.1	Oakland Dr
7/29/2016	709	708		Main		246	School Lane
7/29/2016	708	701		Main		176	School Lane
8/1/2016	1202	1201		Main	218	115.7	Horseshoe Rd
8/1/2016	979	978	Lateral		209	25.7	Liberty
8/1/2016	979	978	Lateral		213	25.5	Liberty
8/4/2016	985	984	Lateral		5	13.8	Penfield Ave
8/4/2016	985	984	Lateral		9	24.1	Penfield Ave
8/5/2016	988	986	Lateral		28	22.5	Penfield Ave
8/5/2016	988	986	Lateral		32	102	Penfield Ave
8/5/2016	988	986	Lateral		29	17	Penfield Ave
8/5/2016	988	986	Lateral		33	15	Penfield Ave
8/5/2016	988	986	Lateral		57	12	Penfield Ave
11/14/2016	1223	1222		Main		293.3	Plowshare
11/14/2016	1223	1222	Lateral		117	28.2	Plowshare
11/14/2016	1223	1222	Lateral		106	18.1	Plowshare
11/14/2016	1223	1124		Main		295	Plowshare
11/14/2016	1123	1124	Lateral		134	28.8	Plowshare

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Date	Manhole		Lateral	Main	House #	LF	Street
	#1	#2					
11/14/2016	1223	1124	Lateral		130	18.8	Plowshare
11/14/2016	1223	1124	Lateral		125	30.1	Plowshare
11/14/2016	1223	1124	Lateral		126	19.3	Plowshare
11/14/2016	1126	1125		Main		129.6	Plowshare
11/14/2016	1126	1125	Lateral		154	28	Plowshare
11/14/2016	1126	1125	Lateral		153	24.9	Plowshare
11/14/2016	1125	1124		Main		196.9	Plowshare
11/14/2016	1125	1124	Lateral		149	18.5	Plowshare
11/14/2016	1190	1189		Main		299.1	Plowshare
11/15/2016	1190	1189	Lateral		2442	29	Oakland Dr
11/15/2016	1168	1167		Main		358.5	Oakland Dr
11/15/2016	1168	1167	Lateral		1814	18.5	Ardin
11/16/2016	R989	R984	Lateral		-	-	Union
12/12/2016	1057	1056	Lateral		61	6.5	Galbraith Ave
12/13/2016	1057	1056	Lateral		60	0.1	Galbraith Ave
12/14/2016	1057	1056	Lateral		59	5.7	Galbraith Ave
12/15/2016	1058	1057	Lateral		49	14.9	Galbraith Ave
12/16/2016	1058	1060	Lateral		50	15.8	Crawford

West Norriton Township
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Report Date	CIPP			Lateral Grouting			Joint Grouting	
	MH	MH	FT	House #	Street Name		MH	MH
1/27/2016				House #28	Penfield Ave	986		
1/27/2016				House #29		986		
1/27/2016				House #33		986		
1/27/2016				House #32		986		
1/27/2016				House #45		986		
1/27/2016				House #52		986		
1/27/2016				House #2464		1047		
2/17/2016							85-87 Egypt Road	1
2/17/2016							2 85-87 Egypt Road	
3/5/2016	1115	1116	5.7				1116	1115
4/18/2016				House #1121	E Chestnut St	953		
4/18/2016	971	970	83.1				971	970
4/18/2016							971	970
4/18/2016							989	984
4/18/2016							989	984
4/18/2016							989	984
4/18/2016	984	981	191.8					
4/18/2016	975	976	79.9					
4/18/2016							975	976
4/18/2016				House #6	Pennfield Ave	985		
4/18/2016				House #20	Pennfield Ave	985		
4/22/2016	992	991	193.7					
4/22/2016				House #37	Burnside RD	992	992	991
4/22/2016	993	994	153.8					
4/22/2016	993	992	242.2					
4/22/2016				House #30	Republic Ave	970		
4/22/2016				House #27	Republic Ave	970		
4/22/2016				House #26	Republic Ave	970		
4/22/2016				House #22	Republic Ave	970		
4/22/2016				House #21	Republic Ave	970		
4/22/2016				House #18	Republic Ave	970		
4/22/2016				House #14	Republic Ave	970		
4/22/2016				House #13	Republic Ave	970		
4/22/2016				House #5	Penfield Ave	984		
4/22/2016				House #9	Penfield Ave	984		
4/27/2016				House #6	Union Ave	984		
4/27/2016				House #10	Union Ave	984		
4/27/2016				House #18	Union Ave	984		
4/27/2016				House #17	Union Ave	984		
4/27/2016				House #21	Union Ave	984		
4/27/2016				House #25	Union Ave	984		
4/27/2016				House #30	Union Ave	984		
4/27/2016				House #53	Potts Ave	1050B		
4/27/2016				House #50	Potts Ave	1050B		
4/27/2016				House #44	Potts Ave	1050B		
4/27/2016				House #40	Potts Ave	1050B		
4/27/2016				67 Potts Ave		1049		
4/27/2016				House #63	Potts Ave	1050		
4/27/2016				House #58	Potts Ave	1050		
4/27/2016				House #55	Potts Ave	1050		
4/27/2016				House #52	Potts Ave	1050		
4/27/2016							914	915
4/27/2016							1216	1213
4/27/2016							1216	1213
4/27/2016	1216	1213	122					
4/27/2016							1213	1212
5/5/2016							1209	1208
5/5/2016							1223	1212
5/12/2016	1194	1193	204.4					
5/12/2016							129	128
5/12/2016							129	128
5/12/2016							129	128
5/12/2016							129	128
5/12/2016							129	128
5/12/2016							128	127
5/12/2016							128	127
5/12/2016							128	127
5/12/2016							1149	1148
5/12/2016							1149	1148
5/12/2016				House #30	Prospect Ave			
5/12/2016				House #19	Prospect Ave			
5/12/2016				House #16	Prospect Ave			
5/12/2016							127	128

West Norriton Township
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Report Date	CIPP			Lateral Grouting		Joint Grouting	
	MH	MH	FT	House #	Street Name	MH	MH
5/12/2016	127	126	294.9				
5/12/2016				House #55	Prospect Ave		
5/12/2016				House #43	Prospect Ave		
5/12/2016				House #40	Prospect Ave		
5/12/2016				House #35	Prospect Ave		
5/27/2016				House #21	Penfield Ave	985	
5/27/2016				House #24	Penfield Ave	985	
5/27/2016				House #305	Spring Cir	1209	
5/27/2016	1129	1128		Unnumbered Residence	Oakland Dr	1128	
5/27/2016	1020	1022	68.1				
5/27/2016	1024	1022	137.7				
5/27/2016	1024	1026	48.2			1024	1026
5/27/2016						1016	1020
5/27/2016						627	628
5/27/2016				Vacant Lot	Trooper RD	627	628
5/27/2016				House #35	Burnside Rd	992	
5/27/2016				House #37	Burnside Rd	992	
5/27/2016						707	706
5/27/2016						706	705
5/27/2016	706	707	0.6				
6/7/2016				House #64	Prospect Ave	126	
6/7/2016				House #59	Prospect Ave	126	
6/7/2016				House #58	Prospect Ave	126	
6/7/2016	1001	997	174.6				
6/7/2016	1001	997	175.7				
6/7/2016	1001	997	196.6				
6/7/2016	1001	997	202.6				
6/7/2016	1001	997	211.8				
6/7/2016	997	996	13.7				
6/7/2016	1015	1011	135.7			1015	1011
6/7/2016	1015	1019	68.3				
6/7/2016	1015	1019	69.9				
6/7/2016	1015	1019	75.1				
6/7/2016	1015	1019	79.6				
6/7/2016	1015	1019	85.2				
6/7/2016	1015	1019	88.4				
6/7/2016	1015	1019	106.4				
6/7/2016	1008	1007	251.4				
6/7/2016						1002	1003
6/7/2016				House #14	Galbraith Ave	1002	
6/7/2016	1002	1003	2.2				
6/7/2016				House #47	School Lane	704	
6/17/2016				House #12	Potts Ave	1007	
6/17/2016				House #17	Miami Ave	997	
6/17/2016						1105	1106
6/17/2016	718	717	156.4				
6/17/2016	718	717	159.3				
6/17/2016	718	717	162.2				
6/17/2016	1105	1106	84.5				
6/17/2016				House #138	Burnside RD		
6/17/2016				House #158	Burnside RD		
6/17/2016	1036	11037	49.8				
6/17/2016	1037	1038	89				
6/17/2016	1033	1034	32.4				
6/17/2016	1035	1034	94.4			1035	1034
6/17/2016	1035	1034	130.4				
6/17/2016	1035	1034	142.4				
6/17/2016						1031	1032
6/17/2016	1029	1030	110.7				
6/17/2016	1029	1030	157.5			1029	1030
6/17/2016	1029	1030	163.6				
6/17/2016	721	720	5.24			1025	1023
6/17/2016	721	720	31.27				
6/17/2016	721	720	67.19				
6/17/2016						720	719
6/17/2016						720	719
6/17/2016	720	719	159.9				
6/17/2016	720	719	163.17				
6/17/2016						720	719
6/17/2016						720	719
6/17/2016	913	912	58.08			913	912
6/17/2016	913	912	91.33				
6/17/2016	913	912	127.65				
6/17/2016						1011	1015

West Norriton Township
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Report Date	CIPP			Lateral Grouting			Joint Grouting	
	MH	MH	FT	House #	Street Name		MH	MH
6/17/2016				Shopping Plaza			1007	1008
6/17/2016						1007	1008	
6/17/2016						997	998	
6/17/2016						997	998	
6/17/2016						997	998	
6/17/2016						997	998	
6/17/2016						997	998	
6/17/2016						1105	1106	
6/17/2016						1105	1106	
6/17/2016						1105	1106	
6/17/2016						1105	1106	
6/17/2016	718	717	156.4			1105	1106	
6/17/2016	718	717	159.3					
6/17/2016	718	717	162.2					
6/17/2016				BLDG # 2076	Ridge Pike	1011		
6/28/2016	1105	1106	84.5					
6/28/2016	1105	1106	139.4					
6/28/2016						1105	1106	
6/28/2016				House #142	Burnside Rd	1106		
6/28/2016				House #138	Burnside Rd	1106		
6/28/2016				House #158	Burnside Rd	1108		
6/28/2016	1036	1037	49.8					
6/28/2016	1037	1038	89					
6/28/2016	1033	1034	32.4					
6/28/2016						1035	1034	
6/28/2016	1035	1034	94.4					
6/28/2016						1035	1034	
6/28/2016						1035	1034	
6/28/2016						1031	1032	
6/28/2016						1029	1030	
6/28/2016	1029	1030	110.7					
6/28/2016	1029	1030	157.5					
6/28/2016						1029	1030	
6/28/2016	1029	1030	163.6					
6/28/2016	1025	1023	198.1					
6/28/2016						721	720	
6/28/2016						721	720	
6/28/2016	721	720	67.19					
6/28/2016						720	719	
6/28/2016						720	719	
6/28/2016						720	719	
6/28/2016						720	719	
6/28/2016						720	719	
6/28/2016						720	719	
6/28/2016						720	719	
6/28/2016	913	912	58.08			913	912	
6/28/2016						913	912	
6/28/2016	913	912	127.65					
7/6/2016	914	915	40.2					
7/6/2016						914	913	
7/6/2016				House #201	Splitrail Cir			
7/6/2016				House #22	Trooper RD			
7/6/2016				House #28	Trooper RD			
7/6/2016				House #30	Trooper RD			
7/6/2016				House #10	Trooper RD			
7/6/2016	1297	1294	102.4					
7/6/2016	1294	1293	79.3					
7/6/2016	1139	1138	122.6					
7/6/2016				House #34	Trooper RD			
7/6/2016				House #36	Trooper RD			
7/6/2016				House #38	Trooper RD			
7/6/2016				House #34	Trooper RD			
7/6/2016				House #18	Trooper RD			
7/6/2016	914	915	40.2					
7/6/2016						914	913	
7/11/2016				House #201	Splitrail Cir	1144		
7/11/2016				House #22	Trooper RD	1030		
7/11/2016				House #28	Trooper RD	1031		
7/11/2016				House #30	Trooper RD	1031		
7/11/2016				House #10	Trooper RD	1029		
7/11/2016							1297	1298
7/11/2016	1297	1294	102.4					
7/11/2016	1294	1293	79.3					

West Norriton Township
Sanitary Sewer Repairs Contract
(Sewer Specialties Services Co., Inc.)

Report Date	CIPP			Lateral Grouting			Joint Grouting	
	MH	MH	FT	House #	Street Name		MH	MH
7/11/2016	1139	1138	122.6					
7/11/2016				House #34	Trooper RD	1033		
7/11/2016				House #36	Trooper RD	1033		
7/11/2016				House #38	Trooper RD	1033		
7/11/2016				House #40	Trooper RD	1033		
7/11/2016				House #18	Trooper RD	1030		
7/21/2016	918	919	115.4					
7/21/2016	918	919	197.1					
7/21/2016	918	919	236.4					
7/21/2016	975	974	3.5					
7/21/2016	975	974	90.3					
7/21/2016							974	973
7/21/2016							973	944
7/21/2016	1023	1021	5					
7/21/2016	1023	1021	6.7					
7/21/2016	1023	1021	15.1					
7/21/2016	1023	1021	198.4					
7/21/2016	1021	1019	69.3				1021	1019
7/21/2016	1021	1019	102.4					
7/21/2016	1021	1019	156.4					
7/21/2016	1021	1019	162.5					
7/21/2016	714	713	97.8					
7/21/2016							714	713
7/21/2016							714	713
7/21/2016							713	712
7/21/2016							713	712
7/21/2016							713	712
7/21/2016	713	712	77.2					
7/21/2016	713	712	119.4					
7/21/2016							1294	1293
7/21/2016							1293	1292
7/21/2016							918	919
7/21/2016	918	919	197.1					
7/21/2016	918	919	236.4					
7/21/2016	975	974	90.3					
7/21/2016							974	973
7/21/2016							944	973
7/21/2016	1023	1021	5					
7/21/2016	1023	1021	6.7					
7/21/2016	1023	1021	15.1					
7/21/2016	1023	1021	198.4					
7/21/2016	1021	1019	69.3					
7/21/2016							1021	1019
7/21/2016	1021	1019	102.4					
7/21/2016	1021	1019	156.4					
7/21/2016	1021	1019	162.5					
7/21/2016	714	713	97.8					
7/21/2016							714	713
7/21/2016							714	713
7/21/2016							713	712
7/21/2016							713	712
7/21/2016							713	712
7/21/2016	713	712	77.2					
7/21/2016	713	712	119.4					
8/1/2016	701	700	233.4					
8/1/2016				House #99	School Lane	700		
8/1/2016				House #2401	Oakland	1187		
8/1/2016	708	709	126.9					
8/1/2016	708	701	4.5					
8/1/2016	701	700	233.4					
8/1/2016							700	701
8/1/2016							700	701
8/1/2016							1187	1186
8/1/2016							1187	1186
8/1/2016	708	709	126.9					
8/1/2016	708	701	4.5					
8/11/2016				House #29	Penfield	986		
8/11/2016				House #33	Penfield	986		
8/11/2016				House #57	Penfield	986		
11/22/2016				House # 2442	Oakland			

ATTACHMENT D
PUMP STATION INFORMATION

PUMP STATION INFORMATION

The Township owns and maintains six (6) pump stations within the existing collection system:

- Rittenhouse Pump Station
- Whitehall Pump Station
- Forrest Avenue Pump Station
- Port Indian Pump Station
- Chestnut Avenue Pump Station
- Halford Hills Pump Station

1. Rittenhouse Pump Station: Originally constructed in 1965, was comprised of three (3)-75 hp pumps, each capable of 1,750 gpm. The pump station was configured in a wet/well dry well orientation. This station was upgraded circa 1983 and 1995, each time with larger pumps to accommodate additional flow. A new submersible pump station with an emergency generator was constructed in 2015 on the same site. The firm pumping capacity for the new pump station is 3,680 gallons per minute (gpm) (5.3 mgd) with two pumps operating. The system has a standard alarm system with a dialer to notify the Township of any problems.
2. Whitehall Pump Station: Constructed in 1965, is comprised of three (3)-60 hp pumps, each capable of 950 gpm. This station was upgraded in 1995 with pumps relocated from Rittenhouse Pump Station, each pump is 100 hp and capable of 1,750 gpm as part of the upgrade. PA DEP Water Quality Management (WQM) permit application for Whitehall Pump Station is approved. Project is currently on hold until funding is available.
3. Forrest Avenue Pump Station: Constructed in the 1960s, is comprised of two (2)-50 hp pumps, each capable of 600 gpm. This station was upgraded in the 1980s with the addition of an emergency generator. Pumps have been rebuilt in 2013.
4. Port Indian Pump Station: Constructed in the 1990s, is comprised of two (2)-40 hp pumps, each capable of 1,000 gpm. Pumps have been rebuilt in 2013.
5. Chestnut Avenue Pump Station: Constructed in the 1970s, is comprised of two (2)-15 hp pumps, each capable of 150 gpm. This pump station was replaced in 2004 with a new station with two (2)-20 pumps, capable of 180 gpm and an emergency generator.
6. Halford Hills Pump Station: Constructed in the 1970s, is comprised of two (2)-5 hp pumps, each capable of 25 gpm.

The following tables represent pump run times and flows for the six (6) collection system pump stations operated by the Township. Flow data has been included in the appendices to show the five (5) year summary of pump station flows for each pumping station.

ATTACHMENT D
TABLE 4
PUMP STATION INFORMATION
WEST NORRITON TOWNSHIP

Name and Location of Pumping Station	Installation / Expansion Date	Number of Pumps	Pump Manufacturer	Drive Type	Capacity (gpm) each Pump	Maximum Pumping Capacity	Flow Meter	Standby Generator	Estimated Connected EDUs	Flow (mgd) Average / Peak	Instantaneous ave. Peak flow (mgd)	Additional EDUs Projected in Next 2 Years	Additional Flow (mgd) Projected in Next 2 Years Average / Peak
Rittenhouse Boulevard	1994	3	Fairbanks-Morse	Variable	2700 gpm @165 ft. TDH	4618 gpm - 6.65 mgd with 2 pumps	Yes	Yes	3,197	1.51/4.323	4.9mgd	415	1.3/5.3
Whitehall Road	2004	2	Hydromatic	Fixed	180 gpm @30 ft. TDH	180 gpm - 0.259 mgd	Yes	Yes	280	0.06/0.11	0.16 mgd	0	1
Whitehall Road	1994	3	Fairbanks-Morse	Variable	1750 gpm @220 ft. TDH	2625 gpm - 3.78 mgd with 2 pumps	Yes	Yes	1,550	0.51/0.97	2.75 mgd	0	0.53/2.1
Forrest Avenue	1987	2	Chicago	Fixed	600 gpm @63 ft. TDH	600 gpm - 0.864 mgd	No	Yes	530	0.15/0.5	0.5 mgd*	0	0.15/0.5**
Port Indian Road	1999	2	Fairbanks-Morse	Fixed	1000 gpm @113 ft. TDH	1000 gpm -1.44 mgd	Yes	Yes	1,230	0.40/1.0	0.9 mgd	0	0.41/1.33
Halford Hills	1995	2	Hydromatic	Fixed	25 gpm @50 ft. TDH	25 gpm - 0.036 mgd	No	No	10	0.03/0.09	0.09 mgd*	0	0.003/0.009**

1 EDU = 285 gpd

* Peak pump station flows estimated based on maximum month daily average times peaking factor of 2 to 3

** Projected peak flows estimated based on average new EDU flow times 2.5 peaking factor added to estimated current peak flows

TABLE 5
PUMP STATIONS MONTHLY AVERAGE DAILY FLOWS
WEST NORRITON TOWNSHIP

Month	Rittenhouse Blvd (gpd)	Whitehall Road (gpd)	Port Indian Road (gpd)	Forrest Avenue (gpd)	Chestnut Avenue (gpd)	Halford Hills (gpd)
January	1,418,064	501,764	308,996	140,040	60,984	2,430
February	2,902,034	873,631	674,628	234,936	88,886	3,110
March	1,724,129	562,500	148,232	160,560	64,681	2,625
April	1,401,366	472,750	334,800	83,520	59,770	2,850
May	1,766,419	577,984	434,400	160,560	62,203	2,745
June	1,128,400	388,640	277,200	131,760	51,210	2,585
July	1,043,032	373,894	249,000	119,880	48,103	2,415
August	887,709	314,706	226,200	117,360	46,554	2,640
September	986,100	300,220	241,200	119,520	50,026	2,745
October	897,483	290,625	190,200	105,480	44,274	2,460
November	1,054,833	98,219	219,000	117,720	48,216	2,910
December	1,350,677	439,167	259,800	149,400	64,865	3,195
Average	1,380,021	432,842	296,971	136,728	57,481	2,726

2016 Chestnut Avenue Pump Station Annual Report
West Norriton Township
Montgomery County, Pennsylvania

PERIODS	PUMP #1		PUMP #2		PUMP STATION TOTAL FLOW	
	TOTAL RUN HOURS	AVE HOURS/DAY	TOTAL RUN HOURS	AVE HOURS/DAY	GALLON	GAL/DAY
1/1/2015 - 2/1/2015	100.59	3.24	145.74	4.70	1,890,500	60,984
2/1/2015 - 3/1/2015	138.59	4.78	200.89	6.93	2,577,700	88,886
3/1/2015 - 4/1/2015	101.45	3.27	173.24	5.59	2,005,100	64,681
4/1/2015 - 5/1/2015	97.60	3.25	117.57	3.92	1,793,100	59,770
5/1/2015 - 6/1/2015	99.93	3.22	131.48	4.24	1,928,300	62,203
6/1/2015 - 7/1/2015	71.53	2.38	104.49	3.48	1,536,300	51,210
7/1/2015 - 8/1/2015	79.01	2.55	101.26	3.26	1,491,200	48,103
8/1/2015 - 9/1/2015	78.42	2.53	99.39	3.21	1,443,200	46,554
9/1/2015 - 10/1/2015	68.37	2.28	106.12	3.54	1,500,800	50,026
10/1/2015 - 11/1/2015	64.31	2.07	101.74	3.17	1,372,500	44,274
11/1/2015 - 12/1/2015	66.86	2.23	107.95	3.59	1,446,800	48,216
12/1/2015 - 1/1/2016	94.91	3.05	157.97	5.09	2,010,800	64,865
					Average	57,481

Months	Comments
March	McGovern in to clean out wet well. Meter Guys in to calibrate flow meter at pump station
June	Meter Guys in to calibrate flow meter.
September	McGovern in to clean out wet well. Meter Guys in to calibrate flow meter at pump station. PennPower replaced block heater on generator.

2016 Whitehall Road Pump Station Annual Report
West Norriton Township
Montgomery County, Pennsylvania

PERIODS	PUMP #1		PUMP #2		PUMP #3		PUMP STATION TOTAL FLOW	
	TOTAL RUN HOURS	AVE HOURS/DAY	TOTAL RUN HOURS	AVE HOURS/DAY	TOTAL RUN HOURS	AVE HOURS/DAY	GALLON	GAL/DAY
1/1/2015 - 2/1/2015	73.10	2.36	342.50	11.05	214.60	6.92	15,554,700	501,764
2/1/2015 - 3/1/2015	259.50	8.95	276.40	9.53	397.50	10.26	25,335,300	873,631
3/1/2015 - 4/1/2015	74.60	2.41	392.50	12.66	268.60	8.66	17,437,500	562,500
4/1/2015 - 5/1/2015	-	-	473.20	15.77	265.80	8.86	14,182,500	472,750
5/1/2015 - 6/1/2015	171.20	5.52	116.10	3.75	216.50	6.98	17,917,500	577,984
6/1/2015 - 7/1/2015	238.50	7.95	246.10	8.20	235.60	7.85	11,659,200	388,640
7/1/2015 - 8/1/2015	207.90	6.71	269.30	8.69	269.20	8.68	11,590,700	373,894
8/1/2015 - 9/1/2015	146.50	4.73	361.00	11.64	233.20	7.52	9,755,900	314,706
9/1/2015 - 10/1/2015	215.30	7.18	330.70	11.02	222.30	7.41	9,006,730	300,220
10/1/2015 - 11/1/2015	222.10	7.16	213.00	6.87	260.70	8.41	9,009,400	290,625
11/1/2015 - 12/1/2015	244.80	8.16	259.50	8.65	223.40	7.44	9,821,900	98,219
12/1/2015 - 1/1/2016	145.70	4.70	309.90	9.99	338.60	10.92	13,614,200	439,167
							Average	432,842

Months	Comments
February	McGovern cleaned rags out of wetwell from bow screen. Grease shafts, pumps & bearings. Sealy cleaned out check valve in #2 pump. Sealy replaced limit switch on #2 pump.
March	Meter guys in to calibrate flow meter. McGovern cleared top of wet well of.
April	Comminutor installed in wetwell. Pump #1 pulled for repair. McGovern cleaned wetwell.
May	Pump #1 installed back to service.
June	Meter guys in to calibrate flow meter.
September	Meter guys in to calibrate flow meter.
December	Meter guy in to calibrate the flow meter.

2016 Forest Avenue Pump Station Annual Report
West Norriton Township
Montgomery County, Pennsylvania

PERIODS	PUMP #1			PUMP #2			PUMP STATION TOTAL FLOW	
	TOTAL RUN HOURS	AVE HOURS/DAY	GAL/DAY	TOTAL RUN HOURS	AVE HOURS/DAY	GAL/DAY	GALLON	GAL/DAY
1/1/2015 - 2/1/2015	26.10	0.84	30,240	94.40	3.05	109,800	4,338,000	140,040
2/1/2015 - 3/1/2015	89.60	3.09	111,204	99.70	3.44	123,732	6,814,800	234,936
3/1/2015 - 4/1/2015	67.30	2.17	78,120	71.00	2.29	82,440	4,978,800	160,560
4/1/2015 - 5/1/2015	34.60	1.15	41,400	35.20	1.17	42,120	2,512,800	83,520
5/1/2015 - 6/1/2015	68.50	2.20	79,200	70.10	2.26	81,360	4,989,600	160,560
6/1/2015 - 7/1/2015	54.80	1.83	65,880	55.00	1.83	65,880	3,952,800	131,760
7/1/2015 - 8/1/2015	51.70	1.66	59,760	51.80	1.67	60,120	3,726,000	119,880
8/1/2015 - 9/1/2015	50.60	1.63	58,680	50.70	1.63	58,680	3,646,800	117,360
9/1/2015 - 10/1/2015	49.50	1.65	59,400	50.30	1.67	60,120	3,592,800	119,520
10/1/2015 - 11/1/2015	45.30	1.46	52,560	45.60	1.47	52,920	3,272,400	105,480
11/1/2015 - 12/1/2015	48.70	1.62	58,320	49.50	1.65	59,400	3,535,200	117,720
12/1/2015 - 1/1/2016	63.60	2.05	73,800	65.10	2.10	75,600	4,633,200	149,400
							Average	136,728

Months	Comments
January	Sealy installed Pump #1
February	McGovern in to clean wetwell.
April	Installed new ransducer. Cleaned gravity sewer to station

2016 Port Indian Pump Station Annual Report
West Norriton Township
Montgomery County, Pennsylvania

PERIODS	PUMP #1		PUMP #2		PUMP STATION TOTAL FLOW	
	TOTAL RUN HOURS	AVE HOURS/DAY	TOTAL RUN HOURS	AVE HOURS/DAY	GALLON	GAL/DAY
1/1/2015 - 2/1/2015	-	-	194.47	6.27	9,578,900	308,996
2/1/2015 - 3/1/2015	175.53	6.05	197.19	6.80	19,564,200	674,628
3/1/2015 - 4/1/2015	116.83	3.77	112.22	3.62	4,595,200	148,232
4/1/2015 - 5/1/2015	87.41	2.91	80.12	2.67	10,051,800	334,800
5/1/2015 - 6/1/2015	118.82	3.83	105.76	3.41	13,474,800	434,400
6/1/2015 - 7/1/2015	72.38	2.41	66.47	2.21	8,331,000	277,200
7/1/2015 - 8/1/2015	68.02	2.19	60.70	1.96	7,723,200	249,000
8/1/2015 - 9/1/2015	61.75	1.99	55.31	1.78	7,023,600	226,200
9/1/2015 - 10/1/2015	63.85	2.13	56.81	1.89	7,239,600	241,200
10/1/2015 - 11/1/2015	41.62	1.34	56.80	1.83	5,905,200	190,200
11/1/2015 - 12/1/2015	56.43	1.88	53.35	1.77	6,586,800	219,000
12/1/2015 - 1/1/2016	89.21	2.87	85.86	2.77	8,053,800	259,800
					Average	296,971

Date	Comments
February	EEC installed pump #1
March	Meter guys in to calibrate flow meter
September	EEC installed new air relief valve on forcemain
October	McGovern cleaned wetwell. Sealy installed new quick connect seal on #2 pump.
December	Meter guys in to calibrate flow meter

Note:

1. Pump Station Total Flow for April through November based upon pump capacity of 1,000 gpm at 113 TDH

2016 Halford Hills Estates Pump Station Annual Report
West Norriton Township
Montgomery County, Pennsylvania

PERIODS	PUMP #1			PUMP #2			PUMP STATION TOTAL FLOW	
	TOTAL RUN HOURS	AVE HOURS/DAY	GAL/DAY	TOTAL RUN HOURS	AVE HOURS/DAY	GAL/DAY	GALLON	GAL/DAY
1/1/2015 - 2/1/2015	27.78	0.89	1,335	22.64	0.73	1,095	75,630	2,430
2/1/2015 - 3/1/2015	33.75	1.16	1,745	26.51	0.91	1,365	90,390	3,110
3/1/2015 - 4/1/2015	31.04	1.00	1,500	23.31	0.75	1,125	81,525	2,625
4/1/2015 - 5/1/2015	31.67	1.05	1,575	25.50	0.85	1,275	85,755	2,850
5/1/2015 - 6/1/2015	31.77	1.02	1,530	25.28	0.81	1,215	85,575	2,745
6/1/2015 - 7/1/2015	28.47	0.95	1,424	23.22	0.77	1,161	77,535	2,585
7/1/2015 - 8/1/2015	26.72	0.86	1,292	23.22	0.75	1,124	74,910	2,415
8/1/2015 - 9/1/2015	29.48	0.95	1,425	25.13	0.81	1,215	81,915	2,640
9/1/2015 - 10/1/2015	29.41	0.98	1,470	25.60	0.85	1,275	82,515	2,745
10/1/2015 - 11/1/2015	27.62	0.89	1,335	23.34	0.75	1,125	76,440	2,460
11/1/2015 - 12/1/2015	31.40	1.05	1,575	26.71	0.89	1,335	87,165	2,910
12/1/2015 - 1/1/2016	35.96	1.16	1,740	30.04	0.97	1,455	99,000	3,195
							Average	2,726

Months	Comments
September	McGovern in to clean the wetwell at the pump station.

2016 Rittenhouse Pump Station Annual Report
West Norriton Township
Montgomery County, Pennsylvania

PERIODS	PUMP #1		PUMP #2		PUMP #3		PUMP STATION TOTAL FLOW	
	TOTAL RUN HOURS	AVE HOURS/DAY	TOTAL RUN HOURS	AVE HOURS/DAY	TOTAL RUN HOURS	AVE HOURS/DAY	GALLON	GAL/DAY
1/1/2015 - 2/1/2015	207.00	6.69	192.00	6.19	184.30	5.94	43,960,000	1,418,064
2/1/2015 - 3/1/2015	284.90	9.82	299.10	10.31	289.20	9.97	84,159,000	2,902,034
3/1/2015 - 4/1/2015	202.70	6.54	210.70	6.79	203.70	6.57	53,448,000	1,724,129
4/1/2015 - 5/1/2015	207.40	6.91	200.00	6.66	200.00	6.66	42,041,000	1,401,366
5/1/2015 - 6/1/2015	222.30	7.17	232.30	7.49	232.30	7.49	54,759,000	1,766,419
6/1/2015 - 7/1/2015	179.70	5.99	176.00	5.86	168.50	5.61	33,852,000	1,128,400
7/1/2015 - 8/1/2015	157.20	5.07	161.10	5.19	157.70	5.08	32,334,000	1,043,032
8/1/2015 - 9/1/2015	163.4	5.27	90.9	2.93	154.7	4.99	27,519,000	887,709
9/1/2015 - 10/1/2015	220.00	7.33	-	-	222.90	7.43	39,583,000	986,100
10/1/2015 - 11/1/2015	176.80	5.70	96.00	3.09	1.70	5.47	27,822,000	897,483
11/1/2015 - 12/1/2015	161.00	5.36	162.40	5.41	164.40	5.48	31,645,000	1,054,833
12/1/2015 - 1/1/2016	201.30	6.49	195.90	6.31	200.00	6.45	41,841,000	1,350,677
							Average	1,380,021

Months	Comments
February	Sealy insalled new PLC. Whitemarsh in to work on exhasut fan in wet well.
March	Meter guys in to calibrate flow meter
June	Meter guys in to calibrate flow meter
August	Sealy pulled #2 pump for repair.
September	Meter guys in to calibrate flow meter
October	Sealy installed pump #2
December	Meter guys in to calibrate flow meter

CHESTNUT AVENUE

Operator: Ed Chelius

Date: Jan 2016

<u>Item</u>	<u>Priority</u>	<u>Remarks</u>
<u>Control Panel</u>		
Level Controls	3	
Backup System	3	
<u>#1 Pump</u>		
Operation	3	
Check Valve	3	
Valving	3	
<u>#2 Pump</u>		
Operation	3	
Check Valve	3	
Valving	3	
<u>Generator</u>		
Operational	3	
Generator Run Hours ____		
<u>Air Relief Valve</u>		
Operation	3	
<u>Auto Dialer</u>		
Operational	3	
<u>Wetwell</u>		
Condition	3	
<u>Building Condition</u>		
Exterior	3	
Interior	3	
Driveway	3	
Grounds, Weeds	3	

1- Immediate Priority; 2- Priority; 3 – Needs No Attention

DATE	PUMP 1		PUMP 2	
	Run Hour	Per Day	Run Hour	Per Day
1/1/2016 – 2/1/2016	100.59	3.24	145.74	4.70

<u>DATE</u>	<u>TOTAL GALLONS</u>	<u>GALLONS/DAY</u>
1/1/2016 - 2/1/2016	1,890,500	60,984

Comments: Generator hours= 1.34

CHESTNUT AVENUE

Operator: Ed Chelius

Date: Feb 2016

<u>Item</u>	<u>Priority</u>	<u>Remarks</u>
<u>Control Panel</u>		
Level Controls	3	
Backup System	3	
<u>#1 Pump</u>		
Operation	3	
Check Valve	3	
Valving	3	
<u>#2 Pump</u>		
Operation	3	
Check Valve	3	
Valving	3	
<u>Generator</u>		
Operational	3	
Generator Run Hours ____		
<u>Air Relief Valve</u>		
Operation	3	
<u>Auto Dialer</u>		
Operational	3	
<u>Wetwell</u>		
Condition	3	
<u>Building Condition</u>		
Exterior	3	
Interior	3	
Driveway	3	
Grounds, Weeds	3	

1- Immediate Priority; 2- Priority; 3 – Needs No Attention

DATE	PUMP 1		PUMP 2	
	Run Hour	Per Day	Run Hour	Per Day
2/1/2016 – 3/1/2016	138.59	200.89	4.78	6.93

DATE	TOTAL GALLONS	GALLONS/DAY
2/1/2016 - 3/1/2016	2,577,700	88,886

Comments: Generator hours= 1.25

CHESTNUT AVENUE

Operator: Ed Chelius

Date: March 2016

<u>Item</u>	<u>Priority</u>	<u>Remarks</u>
<u>Control Panel</u>		
Level Controls	3	
Backup System	3	
<u>#1 Pump</u>		
Operation	3	
Check Valve	3	
Valving	3	
<u>#2 Pump</u>		
Operation	3	
Check Valve	3	
Valving	3	
<u>Generator</u>		
Operational	3	
Generator Run Hours ____		
<u>Air Relief Valve</u>		
Operation	3	
<u>Auto Dialer</u>		
Operational	3	
<u>Wetwell</u>		
Condition	3	
<u>Building Condition</u>		
Exterior	3	
Interior	3	
Driveway	3	
Grounds, Weeds	3	

1- Immediate Priority; 2- Priority; 3 – Needs No Attention

DATE	PUMP 1		PUMP 2	
	Run Hour	Per Day	Run Hour	Per Day
3/1/2016 – 4/1/2016	101.45	3.27	173.24	5.59

DATE	TOTAL GALLONS	GALLONS/DAY
3/1/2016 - 4/1/2016	2,005,100	64,681

Comments: Generator hours= 1.51

3/3 – McGovern at station to clean the wet well of debris.

3/30 – Meter guys in to calibrate flow meter.

CHESTNUT AVENUE

Operator: Ed Chelius

Date: Apr 2016

<u>Item</u>	<u>Priority</u>	<u>Remarks</u>
<u>Control Panel</u>		
Level Controls	3	
Backup System	3	
<u>#1 Pump</u>		
Operation	3	
Check Valve	3	
Valving	3	
<u>#2 Pump</u>		
Operation	3	
Check Valve	3	
Valving	3	
<u>Generator</u>		
Operational	3	
Generator Run Hours ____		
<u>Air Relief Valve</u>		
Operation	3	
<u>Auto Dialer</u>		
Operational	3	
<u>Wetwell</u>		
Condition	3	
<u>Building Condition</u>		
Exterior	3	
Interior	3	
Driveway	3	
Grounds, Weeds	3	

1- Immediate Priority; 2- Priority; 3 – Needs No Attention

DATE	PUMP 1		PUMP 2	
	Run Hour	Per Day	Run Hour	Per Day
4/1/2016 - 5/1/2016	97.6	3.25	117.57	3.92

<u>DATE</u>	<u>TOTAL GALLONS</u>	<u>GALLONS/DAY</u>
4/1/2016 - 5/1/2016	1,793,100	59,7700

Comments: Generator hours= 1.31

CHESTNUT AVENUE

Operator: Ed Chelius

Date: May2016

<u>Item</u>	<u>Priority</u>	<u>Remarks</u>
<u>Control Panel</u>		
Level Controls	3	
Backup System	3	
<u>#1 Pump</u>		
Operation	3	
Check Valve	3	
Valving	3	
<u>#2 Pump</u>		
Operation	3	
Check Valve	3	
Valving	3	
<u>Generator</u>		
Operational	3	
Generator Run Hours ____		
<u>Air Relief Valve</u>		
Operation	3	
<u>Auto Dialer</u>		
Operational	3	
<u>Wetwell</u>		
Condition	3	
<u>Building Condition</u>		
Exterior	3	
Interior	3	
Driveway	3	
Grounds, Weeds	3	

1- Immediate Priority; 2- Priority; 3 – Needs No Attention

DATE	PUMP 1		PUMP 2	
	Run Hour	Per Day	Run Hour	Per Day
5/1/2016 - 6/1/2016	99.93	3.22	131.48	4.24

DATE	TOTAL GALLONS	GALLONS/DAY
5/1/2016 - 6/1/2016	1,928,300	62,203

Comments: Generator hours = 1.67

CHESTNUT AVENUE

Operator: Ed Chelius

Date: June2016

<u>Item</u>	<u>Priority</u>	<u>Remarks</u>
<u>Control Panel</u>		
Level Controls	3	
Backup System	3	
<u>#1 Pump</u>		
Operation	3	
Check Valve	3	
Valving	3	
<u>#2 Pump</u>		
Operation	3	
Check Valve	3	
Valving	3	
<u>Generator</u>		
Operational	3	
Generator Run Hours ____		
<u>Air Relief Valve</u>		
Operation	3	
<u>Auto Dialer</u>		
Operational	3	
<u>Wetwell</u>		
Condition	3	
<u>Building Condition</u>		
Exterior	3	
Interior	3	
Driveway	3	
Grounds, Weeds	3	

1- Immediate Priority; 2- Priority; 3 – Needs No Attention

DATE	PUMP 1		PUMP 2	
	Run Hour	Per Day	Run Hour	Per Day
6/1/2016 - 7/1/2016	71.53	2.38	104.49	3.48

DATE	TOTAL GALLONS	GALLONS/DAY
6/1/2016 - 7/1/2016	1,536,300	51,210

Comments: Generator hours = 1.7

6/15/16 – Meter Guys in to calibrate meters.

CHESTNUT AVENUE

Operator: Ed Chelius

Date: July 2016

<u>Item</u>	<u>Priority</u>	<u>Remarks</u>
<u>Control Panel</u>		
Level Controls	3	
Backup System	3	
<u>#1 Pump</u>		
Operation	3	
Check Valve	3	
Valving	3	
<u>#2 Pump</u>		
Operation	3	
Check Valve	3	
Valving	3	
<u>Generator</u>		
Operational	3	
Generator Run Hours		
<u>Air Relief Valve</u>		
Operation	3	
<u>Auto Dialer</u>		
Operational	3	
<u>Wetwell</u>		
Condition	3	
<u>Building Condition</u>		
Exterior	3	
Interior	3	
Driveway	3	
Grounds, Weeds	3	

1- Immediate Priority; 2- Priority; 3 – Needs No Attention

DATE	PUMP 1		PUMP 2	
	Run Hour	Per Day	Run Hour	Per Day
7/1/2016 - 8/1/2016	79.01	2.55	101.26	3.26

DATE	TOTAL GALLONS	GALLONS/DAY
7/1/2016 - 8/1/2016	1,491,200	48,103

Comments: Generator hours = 1.34

CHESTNUT AVENUE

Operator: Ed Chelius

Date: August 2016

<u>Item</u>	<u>Priority</u>	<u>Remarks</u>
<u>Control Panel</u>		
Level Controls	3	
Backup System	3	
<u>#1 Pump</u>		
Operation	3	
Check Valve	3	
Valving	3	
<u>#2 Pump</u>		
Operation	3	
Check Valve	3	
Valving	3	
<u>Generator</u>		
Operational	3	
Generator Run Hours ____		
<u>Air Relief Valve</u>		
Operation	3	
<u>Auto Dialer</u>		
Operational	3	
<u>Wetwell</u>		
Condition	3	
<u>Building Condition</u>		
Exterior	3	
Interior	3	
Driveway	3	
Grounds, Weeds	3	

1- Immediate Priority; 2- Priority; 3 – Needs No Attention

DATE	PUMP 1		PUMP 2	
	Run Hour	Per Day	Run Hour	Per Day
8/1/2016 - 9/1/2016	78.42	2.53	99.39	3.21

DATE	TOTAL GALLONS	GALLONS/DAY
8/1/2016 - 9/1/2016	1,443,200	46,554

Comments: Generator hours = 1.34

CHESTNUT AVENUE

Operator: Ed Chelius

Date: September 2016

<u>Item</u>	<u>Priority</u>	<u>Remarks</u>
<u>Control Panel</u>		
Level Controls	3	
Backup System	3	
<u>#1 Pump</u>		
Operation	3	
Check Valve	3	
Valving	3	
<u>#2 Pump</u>		
Operation	3	
Check Valve	3	
Valving	3	
<u>Generator</u>		
Operational	3	
Generator Run Hours ____		
<u>Air Relief Valve</u>		
Operation	3	
<u>Auto Dialer</u>		
Operational	3	
<u>Wetwell</u>		
Condition	3	
<u>Building Condition</u>		
Exterior	3	
Interior	3	
Driveway	3	
Grounds, Weeds	3	

1- Immediate Priority; 2- Priority; 3 – Needs No Attention

DATE	PUMP 1		PUMP 2	
	Run Hour	Per Day	Run Hour	Per Day
9/1/2016 - 10/1/2016	68.37	2.279	106.12	3.537

<u>DATE</u>	<u>TOTAL GALLONS</u>	<u>GALLONS/DAY</u>
9/1/2016 - 10/1/2016	1,500,800	50,026

Comments: Generator hours = 1.09

9/23 – Penn Power in to replace block heater on generator.

9/26 – McGovern in to clean wet well.

9/27 – Meter guys in to calibrate meter at station.

CHESTNUT AVENUE

Operator: Ed Chelius

Date: October 2016

<u>Item</u>	<u>Priority</u>	<u>Remarks</u>
<u>Control Panel</u>		
Level Controls	3	
Backup System	3	
<u>#1 Pump</u>		
Operation	3	
Check Valve	3	
Valving	3	
<u>#2 Pump</u>		
Operation	3	
Check Valve	3	
Valving	3	
<u>Generator</u>		
Operational	3	
Generator Run Hours ____		
<u>Air Relief Valve</u>		
Operation	3	
<u>Auto Dialer</u>		
Operational	3	
<u>Wetwell</u>		
Condition	3	
<u>Building Condition</u>		
Exterior	3	
Interior	3	
Driveway	3	
Grounds, Weeds	3	

1- Immediate Priority; 2- Priority; 3 – Needs No Attention

DATE	PUMP 1		PUMP 2	
	Run Hour	Per Day	Run Hour	Per Day
10/1/2016 - 11/1/2016	64.31	2.07	101.74	3.17

DATE	TOTAL GALLONS	GALLONS/DAY
10/1/2016 - 11/1/2016	1,372,500	44,274

Comments: Generator hours = 1.7

CHESTNUT AVENUE

Operator: Ed Chelius

Date: November 2016

<u>Item</u>	<u>Priority</u>	<u>Remarks</u>
<u>Control Panel</u>		
Level Controls	3	
Backup System	3	
<u>#1 Pump</u>		
Operation	3	
Check Valve	3	
Valving	3	
<u>#2 Pump</u>		
Operation	3	
Check Valve	3	
Valving	3	
<u>Generator</u>		
Operational	3	
Generator Run Hours ____		
<u>Air Relief Valve</u>		
Operation	3	
<u>Auto Dialer</u>		
Operational	3	
<u>Wetwell</u>		
Condition	3	
<u>Building Condition</u>		
Exterior	3	
Interior	3	
Driveway	3	
Grounds, Weeds	3	

1- Immediate Priority; 2- Priority; 3 – Needs No Attention

DATE	PUMP 1		PUMP 2	
	Run Hour	Per Day	Run Hour	Per Day
11/1/2016 - 12/1/2016	66.86	2.23	107.95	3.59

DATE	TOTAL GALLONS	GALLONS/DAY
11/1/2016 - 12/1/2016	1,446,500	48,216

Comments: Generator hours = 1.7

CHESTNUT AVENUE

Operator: Ed Chelius

Date: December 2016

<u>Item</u>	<u>Priority</u>	<u>Remarks</u>
<u>Control Panel</u>		
Level Controls	3	
Backup System	3	
<u>#1 Pump</u>		
Operation	3	
Check Valve	3	
Valving	3	
<u>#2 Pump</u>		
Operation	3	
Check Valve	3	
Valving	3	
<u>Generator</u>		
Operational	3	
Generator Run Hours ____		
<u>Air Relief Valve</u>		
Operation	3	
<u>Auto Dialer</u>		
Operational	3	
<u>Wetwell</u>		
Condition	3	
<u>Building Condition</u>		
Exterior	3	
Interior	3	
Driveway	3	
Grounds, Weeds	3	

1- Immediate Priority; 2- Priority; 3 – Needs No Attention

DATE	PUMP 1		PUMP 2	
	Run Hour	Per Day	Run Hour	Per Day
12/1/2016 - 1/1/2016	94.61	3.05	157.97	5.09

DATE	TOTAL GALLONS	GALLONS/DAY
12/1/2016 - 1/1/2016	2,010,800	64,865

Comments: Generator hours = 1.5

WHITEHALL ROAD

Operator: Ed Chelius

Date: Jan 2016

<u>Item</u>	<u>Priority</u>	<u>Remarks</u>
<u>Exterior</u>		
Fascia & Cornice	3	
Roof	1	
Grounds, Weeds	3	
Driveway	3	
<u>Wetwell</u>		
Grease Buildup	3	
Stairwell	3	
Comminutor	3	
<u>Station Interior</u>		
<u>#1 Pump</u>		
Motor	3	
Rings	3	
Brushes	3	
Bearings	3	
Drive Shafts	3	
U-Joints	3	
Pump Bearings	3	
Valves	3	
Flow Matcher Unit	3	
Pillow Block	3	
Bearing	3	
<u>#2 Pump</u>		
Motor	3	
Rings	3	
Brushes	3	
Bearings	3	
Drive Shafts	3	
Flow Matcher	3	
U-Joints	3	
Pillow Block		
Bearing	3	
Pump Bearings	3	
Valves	3	
<u>#3 Pump</u>		
Motor	3	
Rings	3	
Brushes	3	
Drive Shafts	3	
Flow Matcher	3	
U-Joints	3	
Pillow Block	3	
Bearing	3	
Valves	3	
Pump Bearings	3	

Valves

3

WHITEHALL ROAD

Operator: Ed Chelius

Date: Jan 2016

<u>Item</u>	<u>Priority</u>	<u>Remarks</u>
Generator	3	
Plant Air		
Compressor	3	
Pumps Packing	3	
Sump Pump	3	

Ventilation

Drywell	3
Wetwell	3

Electric Heaters 3

1 - Immediate Priority; 2 - Priority; 3 - Needs No Attention

Readings:

<u>DATE</u>	<u>TOTAL GALLONS</u>	<u>GALLONS/DAY</u>
1/1/2016 - 2/1/2016	15,554,700	501,764

<u>DATE</u>	<u>Pump Run Hours</u>			<u>Run Hours Per Day</u>		
	<u>Pump #1</u>	<u>Pump #2</u>	<u>Pump #3</u>	<u>Pump #1</u>	<u>Pump #2</u>	<u>Pump #3</u>
1/1/2016 -2/1/2016	73.1	342.5	214.6	2.36	11.05	6.92

Comments:

Generator run hours: 2.1

WHITEHALL ROAD

Operator: Ed Chelius

Date: Feb 2016

<u>Item</u>	<u>Priority</u>	<u>Remarks</u>
<u>Exterior</u>		
Fascia & Cornice	3	
Roof	1	
Grounds, Weeds	3	
Driveway	3	
<u>Wetwell</u>		
Grease Buildup	3	
Stairwell	3	
Comminutor	3	
<u>Station Interior</u>		
<u>#1 Pump</u>		
Motor	3	
Rings	3	
Brushes	3	
Bearings	3	
Drive Shafts	3	
U-Joints	3	
Pump Bearings	3	
Valves	3	
Flow Matcher Unit	3	
Pillow Block	3	
Bearing	3	
<u>#2 Pump</u>		
Motor	3	
Rings	3	
Brushes	3	
Bearings	3	
Drive Shafts	3	
Flow Matcher	3	
U-Joints	3	
Pillow Block		
Bearing	3	
Pump Bearings	3	
Valves	3	
<u>#3 Pump</u>		
Motor	3	
Rings	3	
Brushes	3	

Drive Shafts	3
Flow Matcher	3
U-Joints	3
Pillow Block	3
Bearing	3
Valves	3
Pump Bearings	3
Valves	3

WHITEHALL ROAD

Operator: Ed Chelius

Date: Feb 2016

<u>Item</u>	<u>Priority</u>	<u>Remarks</u>
Generator	3	
Plant Air Compressor	3	
Pumps Packing	3	
Sump Pump	3	
<u>Ventilation</u>		
Drywell	3	
Wetwell	3	
<u>Electric Heaters</u>	3	

1 - Immediate Priority; 2 - Priority; 3 - Needs No Attention

Readings:

<u>DATE</u>	<u>TOTAL GALLONS</u>	<u>GALLONS/DAY</u>
2/1/2016 - 3/1/2016	25,335,300	873,631

<u>DATE</u>	<u>Pump Run Hours</u>			<u>Run Hours Per Day</u>		
	<u>Pump #1</u>	<u>Pump #2</u>	<u>Pump #3</u>	<u>Pump #1</u>	<u>Pump #2</u>	<u>Pump #3</u>
2/1/2016 -3/1/2016	259.5	276.4	397.5	8.95	9.53	10.26

Comments:

Generator run hours: 2.3

2/9 – McGovern in to clean rags out of wet well from bow screen, grease pumps, shafts, and bearings.

2/16 – Sealy in to clean out check valve in #2 pump.

2/23 – Sealy in to replace limit switch on #2 pump.

WHITEHALL ROAD

Operator: Ed Chelius

Date: March 2016

<u>Item</u>	<u>Priority</u>	<u>Remarks</u>
<u>Exterior</u>		
Fascia & Cornice	3	
Roof	3	
Grounds, Weeds	3	
Driveway	3	
<u>Wetwell</u>		
Grease Buildup	3	
Stairwell	3	
Comminutor	3	
<u>Station Interior</u>		
<u>#1 Pump</u>		
Motor	3	
Rings	3	
Brushes	3	
Bearings	3	
Drive Shafts	3	
U-Joints	3	
Pump Bearings	3	
Valves	3	
Flow Matcher Unit	3	
Pillow Block	3	
Bearing	3	
<u>#2 Pump</u>		
Motor	3	
Rings	3	
Brushes	3	
Bearings	3	
Drive Shafts	3	
Flow Matcher	3	
U-Joints	3	
Pillow Block		
Bearing	3	
Pump Bearings	3	
Valves	3	
<u>#3 Pump</u>		
Motor	3	
Rings	3	
Brushes	3	
Drive Shafts	3	
Flow Matcher	3	
U-Joints	3	
Pillow Block	3	
Bearing	3	
Valves	3	
Pump Bearings	3	
Valves	3	

WHITEHALL ROAD

Operator: Ed Chelius

Date: March 2016

<u>Item</u>	<u>Priority</u>	<u>Remarks</u>
Generator	3	
Plant Air Compressor	3	
Pumps Packing	3	
Sump Pump	3	
 <u>Ventilation</u>		
Drywell	3	
Wetwell	3	
 <u>Electric Heaters</u>		
	3	

1 - Immediate Priority; 2 - Priority; 3 - Needs No Attention

Readings:

<u>DATE</u>	<u>TOTAL GALLONS</u>	<u>GALLONS/DAY</u>
3/1/2016 - 4/1/2016	17,437,500	562,500

<u>DATE</u>	<u>Pump Run Hours</u>			<u>Run Hours Per Day</u>		
	<u>Pump #1</u>	<u>Pump #2</u>	<u>Pump #3</u>	<u>Pump #1</u>	<u>Pump #2</u>	<u>Pump #3</u>
3/1/2016 - 4/1/2016	74.6	392.5	268.6	2.41	12.66	8.66

Comments:

Generator run hours: 1.9

3/3 - McGovern at station to clear top of wet well off. It was covered with rags because comminutor was out of service.

3/30 - Meter guys in to calibrate flow meter.

WHITEHALL ROAD

Operator: Ed Chelius

Date: Apr 2016

<u>Item</u>	<u>Priority</u>	<u>Remarks</u>
<u>Exterior</u>		
Fascia & Cornice	3	
Roof	1	
Grounds, Weeds	3	
Driveway	3	
<u>Wetwell</u>		
Grease Buildup	3	
Stairwell	3	
Comminutor	3	
<u>Station Interior</u>		
<u>#1 Pump</u>		
Motor	3	
Rings	3	
Brushes	3	
Bearings	3	
Drive Shafts	3	
U-Joints	3	
Pump Bearings	3	
Valves	3	
Flow Matcher Unit	3	
Pillow Block	3	
Bearing	3	
<u>#2 Pump</u>		
Motor	3	
Rings	3	
Brushes	3	
Bearings	3	
Drive Shafts	3	
Flow Matcher	3	
U-Joints	3	
Pillow Block		
Bearing	3	
Pump Bearings	3	
Valves	3	
<u>#3 Pump</u>		
Motor	3	
Rings	3	
Brushes	3	
Drive Shafts	3	
Flow Matcher	3	
U-Joints	3	
Pillow Block	3	
Bearing	3	
Valves	3	
Pump Bearings	3	
Valves	3	

WHITEHALL ROAD

Operator: Ed Chelius

Date: Apr 2016

<u>Item</u>	<u>Priority</u>	<u>Remarks</u>
Generator	3	
Plant Air Compressor	3	
Pumps Packing	3	
Sump Pump	3	
<u>Ventilation</u>		
Drywell	3	
Wetwell	3	
<u>Electric Heaters</u>		
	3	

1 - Immediate Priority; 2 - Priority; 3 - Needs No Attention

Readings:

<u>DATE</u>	<u>TOTAL GALLONS</u>	<u>GALLONS/DAY</u>
4/1/2016 - 5/1/2016	14,182,500	472,750

<u>DATE</u>	<u>Pump Run Hours</u>			<u>Run Hours Per Day</u>		
	<u>Pump #1</u>	<u>Pump #2</u>	<u>Pump #3</u>	<u>Pump #1</u>	<u>Pump #2</u>	<u>Pump #3</u>
4/1/2016 - 5/1/2016	out	473.2	265.8	out	15.77	8.86

Comments:

Generator run hours: 2.3

- 4/8 – Communitor installed in wet well
- 4/13 – #1 pump pulled for repair
- 4/17 – McGovern in to clean wet well at station

WHITEHALL ROAD

Operator: Ed Chelius

Date: May2016

<u>Item</u>	<u>Priority</u>	<u>Remarks</u>
<u>Exterior</u>		
Fascia & Cornice	3	
Roof	1	
Grounds, Weeds	3	
Driveway	3	
<u>Wetwell</u>		
Grease Buildup	3	
Stairwell	3	
Comminutor	3	
<u>Station Interior</u>		
<u>#1 Pump</u>		
Motor	3	
Rings	3	
Brushes	3	
Bearings	3	
Drive Shafts	3	
U-Joints	3	
Pump Bearings	3	
Valves	3	
Flow Matcher Unit	3	
Pillow Block	3	
Bearing	3	
<u>#2 Pump</u>		
Motor	3	
Rings	3	
Brushes	3	
Bearings	3	
Drive Shafts	3	
Flow Matcher	3	
U-Joints	3	
Pillow Block		
Bearing	3	
Pump Bearings	3	
Valves	3	
<u>#3 Pump</u>		
Motor	3	
Rings	3	
Brushes	3	
Drive Shafts	3	
Flow Matcher	3	
U-Joints	3	
Pillow Block	3	
Bearing	3	
Valves	3	
Pump Bearings	3	
Valves	3	

WHITEHALL ROAD

Operator: Ed Chelius

Date: May2016

<u>Item</u>	<u>Priority</u>	<u>Remarks</u>
Generator	3	
Plant Air Compressor	3	
Pumps Packing	3	
Sump Pump	3	
<u>Ventilation</u>		
Drywell	3	
Wetwell	3	
<u>Electric Heaters</u>		
	3	

1 - Immediate Priority; 2 - Priority; 3 - Needs No Attention

Readings:

<u>DATE</u>	<u>TOTAL GALLONS</u>	<u>GALLONS/DAY</u>
5/1/2016 - 6/1/2016	17,917,500	577,984

DATE	Pump Run Hours			Run Hours Per Day		
	Pump #1	Pump #2	Pump #3	Pump #1	Pump #2	Pump #3
5/1/2016 - 6/1/2016	171.2	116.1	216.5	5.52	3.75	6.98

Comments:

Generator run hours: 2.1

Sealy installed the #1 pump this month. All three pumps are up and running.

WHITEHALL ROAD

Operator: Ed Chelius

Date: June2016

<u>Item</u>	<u>Priority</u>	<u>Remarks</u>
<u>Exterior</u>		
Fascia & Cornice	3	
Roof	1	
Grounds, Weeds	3	
Driveway	3	
<u>Wetwell</u>		
Grease Buildup	3	
Stairwell	3	
Comminutor	3	
<u>Station Interior</u>		
<u>#1 Pump</u>		
Motor	3	
Rings	3	
Brushes	3	
Bearings	3	
Drive Shafts	3	
U-Joints	3	
Pump Bearings	3	
Valves	3	
Flow Matcher Unit	3	
Pillow Block	3	
Bearing	3	
<u>#2 Pump</u>		
Motor	3	
Rings	3	
Brushes	3	
Bearings	3	
Drive Shafts	3	
Flow Matcher	3	
U-Joints	3	
Pillow Block		
Bearing	3	
Pump Bearings	3	
Valves	3	
<u>#3 Pump</u>		
Motor	3	
Rings	3	
Brushes	3	
Drive Shafts	3	
Flow Matcher	3	
U-Joints	3	
Pillow Block	3	
Bearing	3	
Valves	3	
Pump Bearings	3	
Valves	3	

WHITEHALL ROAD

Operator: Ed Chelius

Date: June2016

<u>Item</u>	<u>Priority</u>	<u>Remarks</u>
Generator	3	
Plant Air		
Compressor	3	
Pumps Packing	3	
Sump Pump	3	
<u>Ventilation</u>		
Drywell	3	
Wetwell	3	
<u>Electric Heaters</u>		
	3	

1 - Immediate Priority; 2 - Priority; 3 - Needs No Attention

Readings:

<u>DATE</u>	<u>TOTAL GALLONS</u>	<u>GALLONS/DAY</u>
6/1/2016 - 7/1/2016	11,659,200	388,640

<u>DATE</u>	<u>Pump Run Hours</u>			<u>Run Hours Per Day</u>		
	<u>Pump #1</u>	<u>Pump #2</u>	<u>Pump #3</u>	<u>Pump #1</u>	<u>Pump #2</u>	<u>Pump #3</u>
6/1/2016 - 7/1/2016	238.5	246.1	235.6	7.95	8.20	7.85

Comments:

Generator run hours: 2.1

6/15/16 – Meter Guys in to calibrate meters.

WHITEHALL ROAD

Operator: Ed Chelius

Date: July 2016

<u>Item</u>	<u>Priority</u>	<u>Remarks</u>
<u>Exterior</u>		
Fascia & Cornice	3	
Roof	1	
Grounds, Weeds	3	
Driveway	3	
<u>Wetwell</u>		
Grease Buildup	3	
Stairwell	3	
Comminutor	3	
<u>Station Interior</u>		
<u>#1 Pump</u>		
Motor	3	
Rings	3	
Brushes	3	
Bearings	3	
Drive Shafts	3	
U-Joints	3	
Pump Bearings	3	
Valves	3	
Flow Matcher Unit	3	
Pillow Block	3	
Bearing	3	
<u>#2 Pump</u>		
Motor	3	
Rings	3	
Brushes	3	
Bearings	3	
Drive Shafts	3	
Flow Matcher	3	
U-Joints	3	
Pillow Block		
Bearing	3	
Pump Bearings	3	
Valves	3	
<u>#3 Pump</u>		
Motor	3	
Rings	3	
Brushes	3	
Drive Shafts	3	
Flow Matcher	3	
U-Joints	3	
Pillow Block	3	
Bearing	3	
Valves	3	
Pump Bearings	3	

Valves

3

WHITEHALL ROAD

Operator: Ed Chelius

Date: July 2016

<u>Item</u>	<u>Priority</u>	<u>Remarks</u>
Generator	3	
Plant Air		
Compressor	3	
Pumps Packing	3	
Sump Pump	3	

Ventilation

Drywell	3
Wetwell	3

Electric Heaters 3

1 - Immediate Priority; 2 - Priority; 3 - Needs No Attention

Readings:

<u>DATE</u>	<u>TOTAL GALLONS</u>	<u>GALLONS/DAY</u>
7/1/2016 - 8/1/2016	11,590,700	373,894

<u>DATE</u>	<u>Pump Run Hours</u>			<u>Run Hours Per Day</u>		
	<u>Pump #1</u>	<u>Pump #2</u>	<u>Pump #3</u>	<u>Pump #1</u>	<u>Pump #2</u>	<u>Pump #3</u>
7/1/2016 - 8/1/2016	207.9	269.3	269.2	6.71	8.69	8.68

Comments:

Generator run hours: 1.8

WHITEHALL ROAD

Operator: Ed Chelius

Date: August 2016

<u>Item</u>	<u>Priority</u>	<u>Remarks</u>
<u>Exterior</u>		
Fascia & Cornice	3	
Roof	1	
Grounds, Weeds	3	
Driveway	3	
<u>Wetwell</u>		
Grease Buildup	3	
Stairwell	3	
Comminutor	3	
<u>Station Interior</u>		
<u>#1 Pump</u>		
Motor	3	
Rings	3	
Brushes	3	
Bearings	3	
Drive Shafts	3	
U-Joints	3	
Pump Bearings	3	
Valves	3	
Flow Matcher Unit	3	
Pillow Block	3	
Bearing	3	
<u>#2 Pump</u>		
Motor	3	
Rings	3	
Brushes	3	
Bearings	3	
Drive Shafts	3	
Flow Matcher	3	
U-Joints	3	
Pillow Block		
Bearing	3	
Pump Bearings	3	
Valves	3	
<u>#3 Pump</u>		
Motor	3	
Rings	3	
Brushes	3	
Drive Shafts	3	
Flow Matcher	3	
U-Joints	3	
Pillow Block	3	
Bearing	3	
Valves	3	
Pump Bearings	3	
Valves	3	

WHITEHALL ROAD

Operator: Ed Chelius

Date: August 2016

<u>Item</u>	<u>Priority</u>	<u>Remarks</u>
Generator	3	
Plant Air Compressor	3	
Pumps Packing	3	
Sump Pump	3	
<u>Ventilation</u>		
Drywell	3	
Wetwell	3	
<u>Electric Heaters</u>		
	3	

1 - Immediate Priority; 2 - Priority; 3 - Needs No Attention

Readings:

<u>DATE</u>	<u>TOTAL GALLONS</u>	<u>GALLONS/DAY</u>
8/1/2016 - 9/1/2016	9,755,900	314,706

<u>DATE</u>	<u>Pump Run Hours</u>			<u>Run Hours Per Day</u>		
	<u>Pump #1</u>	<u>Pump #2</u>	<u>Pump #3</u>	<u>Pump #1</u>	<u>Pump #2</u>	<u>Pump #3</u>
8/1/2016 - 9/1/2016	146.5	361	233.2	4.73	11.64	7.52

Comments:

Generator run hours: 2.4

WHITEHALL ROAD

Operator: Ed Chelius

Date: September 2016

<u>Item</u>	<u>Priority</u>	<u>Remarks</u>
<u>Exterior</u>		
Fascia & Cornice	3	
Roof	1	
Grounds, Weeds	3	
Driveway	3	
<u>Wetwell</u>		
Grease Buildup	3	
Stairwell	3	
Comminutor	3	
<u>Station Interior</u>		
<u>#1 Pump</u>		
Motor	3	
Rings	3	
Brushes	3	
Bearings	3	
Drive Shafts	3	
U-Joints	3	
Pump Bearings	3	
Valves	3	
Flow Matcher Unit	3	
Pillow Block	3	
Bearing	3	
<u>#2 Pump</u>		
Motor	3	
Rings	3	
Brushes	3	
Bearings	3	
Drive Shafts	3	
Flow Matcher	3	
U-Joints	3	
Pillow Block		
Bearing	3	
Pump Bearings	3	
Valves	3	
<u>#3 Pump</u>		
Motor	3	
Rings	3	
Brushes	3	
Drive Shafts	3	
Flow Matcher	3	
U-Joints	3	
Pillow Block	3	
Bearing	3	
Valves	3	
Pump Bearings	3	
Valves	3	

WHITEHALL ROAD

Operator: Ed Chelius

Date: September 2016

<u>Item</u>	<u>Priority</u>	<u>Remarks</u>
Generator	3	
Plant Air Compressor	3	
Pumps Packing	3	
Sump Pump	3	
<u>Ventilation</u>		
Drywell	3	
Wetwell	3	
<u>Electric Heaters</u>		
	3	

1 - Immediate Priority; 2 - Priority; 3 - Needs No Attention

Readings:

<u>DATE</u>	<u>TOTAL GALLONS</u>	<u>GALLONS/DAY</u>
9/1/2016 - 10/1/2016	900,673	30,022

<u>DATE</u>	<u>Pump Run Hours</u>			<u>Run Hours Per Day</u>		
	<u>Pump #1</u>	<u>Pump #2</u>	<u>Pump #3</u>	<u>Pump #1</u>	<u>Pump #2</u>	<u>Pump #3</u>
9/1/2016 - 10/1/2016	215.3	330.7	222.3	7.18	11.02	7.41

Comments:

Generator run hours: 2.8

9/27 – Meter guys in to calibrate flow meter at station.

WHITEHALL ROAD

Operator: Ed Chelius

Date: October 2016

<u>Item</u>	<u>Priority</u>	<u>Remarks</u>
<u>Exterior</u>		
Fascia & Cornice	3	
Roof	1	
Grounds, Weeds	3	
Driveway	3	
<u>Wetwell</u>		
Grease Buildup	3	
Stairwell	3	
Comminutor	3	
<u>Station Interior</u>		
<u>#1 Pump</u>		
Motor	3	
Rings	3	
Brushes	3	
Bearings	3	
Drive Shafts	3	
U-Joints	3	
Pump Bearings	3	
Valves	3	
Flow Matcher Unit	3	
Pillow Block	3	
Bearing	3	
<u>#2 Pump</u>		
Motor	3	
Rings	3	
Brushes	3	
Bearings	3	
Drive Shafts	3	
Flow Matcher	3	
U-Joints	3	
Pillow Block		
Bearing	3	
Pump Bearings	3	
Valves	3	
<u>#3 Pump</u>		
Motor	3	
Rings	3	
Brushes	3	
Drive Shafts	3	
Flow Matcher	3	
U-Joints	3	
Pillow Block	3	
Bearing	3	
Valves	3	
Pump Bearings	3	
Valves	3	

WHITEHALL ROAD

Operator: Ed Chelius

Date: October 2016

<u>Item</u>	<u>Priority</u>	<u>Remarks</u>
Generator	3	
Plant Air Compressor	3	
Pumps Packing	3	
Sump Pump	3	
<u>Ventilation</u>		
Drywell	3	
Wetwell	3	
<u>Electric Heaters</u>		
	3	

1 - Immediate Priority; 2 - Priority; 3 - Needs No Attention

Readings:

<u>DATE</u>	<u>TOTAL GALLONS</u>	<u>GALLONS/DAY</u>
10/1/2016 - 11/1/2016	9,009,400	290,625

<u>DATE</u>	<u>Pump Run Hours</u>			<u>Run Hours Per Day</u>		
	<u>Pump #1</u>	<u>Pump #2</u>	<u>Pump #3</u>	<u>Pump #1</u>	<u>Pump #2</u>	<u>Pump #3</u>
10/1/2016 - 11/1/2016	222.1	213.0	260.7	7.16	6.87	8.41

Comments:

Generator run hours: 2.1

WHITEHALL ROAD

Operator: Ed Chelius

Date: November 2016

<u>Item</u>	<u>Priority</u>	<u>Remarks</u>
<u>Exterior</u>		
Fascia & Cornice	3	
Roof	1	
Grounds, Weeds	3	
Driveway	3	
<u>Wetwell</u>		
Grease Buildup	3	
Stairwell	3	
Comminutor	3	
<u>Station Interior</u>		
<u>#1 Pump</u>		
Motor	3	
Rings	3	
Brushes	3	
Bearings	3	
Drive Shafts	3	
U-Joints	3	
Pump Bearings	3	
Valves	3	
Flow Matcher Unit	3	
Pillow Block	3	
Bearing	3	
<u>#2 Pump</u>		
Motor	3	
Rings	3	
Brushes	3	
Bearings	3	
Drive Shafts	3	
Flow Matcher	3	
U-Joints	3	
Pillow Block		
Bearing	3	
Pump Bearings	3	
Valves	3	
<u>#3 Pump</u>		
Motor	3	
Rings	3	
Brushes	3	
Drive Shafts	3	
Flow Matcher	3	
U-Joints	3	
Pillow Block	3	
Bearing	3	
Valves	3	
Pump Bearings	3	
Valves	3	

WHITEHALL ROAD

Operator: Ed Chelius

Date: November 2016

<u>Item</u>	<u>Priority</u>	<u>Remarks</u>
Generator	3	
Plant Air Compressor	3	
Pumps Packing	3	
Sump Pump	3	
<u>Ventilation</u>		
Drywell	3	
Wetwell	3	
<u>Electric Heaters</u>		
	3	

1 - Immediate Priority; 2 - Priority; 3 - Needs No Attention

Readings:

<u>DATE</u>	<u>TOTAL GALLONS</u>	<u>GALLONS/DAY</u>
11/1/2016 - 12/1/2016	9,821,900	98,219

<u>DATE</u>	<u>Pump Run Hours</u>			<u>Run Hours Per Day</u>		
	<u>Pump #1</u>	<u>Pump #2</u>	<u>Pump #3</u>	<u>Pump #1</u>	<u>Pump #2</u>	<u>Pump #3</u>
11/1/2016 - 12/1/2016	244.8	259.5	223.4	8.16	8.65	7.44

Comments:

Generator run hours: 1.7

WHITEHALL ROAD

Operator: Ed Chelius

Date: December 2016

<u>Item</u>	<u>Priority</u>	<u>Remarks</u>
<u>Exterior</u>		
Fascia & Cornice	3	
Roof	1	
Grounds, Weeds	3	
Driveway	3	
<u>Wetwell</u>		
Grease Buildup	3	
Stairwell	3	
Comminutor	3	
<u>Station Interior</u>		
<u>#1 Pump</u>		
Motor	3	
Rings	3	
Brushes	3	
Bearings	3	
Drive Shafts	3	
U-Joints	3	
Pump Bearings	3	
Valves	3	
Flow Matcher Unit	3	
Pillow Block	3	
Bearing	3	
<u>#2 Pump</u>		
Motor	3	
Rings	3	
Brushes	3	
Bearings	3	
Drive Shafts	3	
Flow Matcher	3	
U-Joints	3	
Pillow Block		
Bearing	3	
Pump Bearings	3	
Valves	3	
<u>#3 Pump</u>		
Motor	3	
Rings	3	
Brushes	3	
Drive Shafts	3	
Flow Matcher	3	
U-Joints	3	
Pillow Block	3	
Bearing	3	
Valves	3	
Pump Bearings	3	
Valves	3	

WHITEHALL ROAD

Operator: Ed Chelius

Date: December 2016

<u>Item</u>	<u>Priority</u>	<u>Remarks</u>
Generator	3	
Plant Air Compressor	3	
Pumps Packing	3	
Sump Pump	3	
<u>Ventilation</u>		
Drywell	3	
Wetwell	3	
<u>Electric Heaters</u>		
	3	

1 - Immediate Priority; 2 - Priority; 3 - Needs No Attention

Readings:

<u>DATE</u>	<u>TOTAL GALLONS</u>	<u>GALLONS/DAY</u>
12/1/2016 - 1/1/2016	13,614,200	439,167

<u>DATE</u>	<u>Pump Run Hours</u>			<u>Run Hours Per Day</u>		
	<u>Pump #1</u>	<u>Pump #2</u>	<u>Pump #3</u>	<u>Pump #1</u>	<u>Pump #2</u>	<u>Pump #3</u>
12/1/2016 - 1/1/2016	145.7	309.9	338.6	4.7	9.99	10.92

Comments:

Generator run hours: 1.5

12/2: Meter Guys in to calibrate flow meter

12/22: Generator fuel

FOREST AVENUE

Operator: Ed Chelius

Date: Jan 2016

<u>Item</u>	<u>Priority</u>	<u>Remarks</u>
<u>Exterior</u>		
Fascia & Cornice	3	
Grounds, Weeds	3	
Roof	3	
Driveway	3	
<u>Wetwell</u>		
Grease buildup	3	
<u>Station Interior</u>		
<u>#1 Pump</u>		
Motor	3	
Bearings	3	
Drive Shafts	3	
U-Joints	3	
Pump Bearings	3	
Valves	3	
Pillow Block Bearings	3	
<u>#2 Pump</u>		
Motor	3	
Bearings	3	
Drive Shafts	3	
U-Joints	3	
Pillow Block Bearing	3	
Generator	3	
Pumps Packing	3	
Sump Pump	3	
Valves	3	
<u>Ventilation</u>		
Drywell	3	
Wetwell	3	
Electric Heaters	3	

1 - Immediate Priority; 2 -Priority; 3 – Needs No Attention

DATE	RUN HOURS		PER DAY	
	Pump #1	Pump #2	Pump #1	Pump #2
1/1/2016-2/1/2016	26.1	94.4	0.84	3.05

Comments:

Generator run hours= 1.0

1/19/16: 1 pump installed by Sealy

FOREST AVENUE

Operator: Ed Chelius

Date: Feb 2016

<u>Item</u>	<u>Priority</u>	<u>Remarks</u>
<u>Exterior</u>		
Fascia & Cornice	3	
Grounds, Weeds	3	
Roof	3	
Driveway	3	
<u>Wetwell</u>		
Grease buildup	3	
<u>Station Interior</u>		
<u>#1 Pump</u>		
Motor	3	
Bearings	3	
Drive Shafts	3	
U-Joints	3	
Pump Bearings	3	
Valves	3	
Pillow Block Bearings	3	
<u>#2 Pump</u>		
Motor	3	
Bearings	3	
Drive Shafts	3	
U-Joints	3	
Pillow Block Bearing	3	
Generator	3	
Pumps Packing	3	
Sump Pump	3	
Valves	2	
<u>Ventilation</u>		
Drywell	3	
Wetwell	3	
Electric Heaters	3	

1 - Immediate Priority; 2 -Priority; 3 - Needs No Attention

DATE	RUN HOURS		PER DAY	
	Pump #1	Pump #2	Pump #1	Pump #2
2/1/2016-3/1/2016	89.6	99.7	3.089	3.437

Comments:

Generator run hours= 1.5

2/9/16 – McGovern in to clean wet well.

FOREST AVENUE

Operator: Ed Chelius

Date: March 2016

<u>Item</u>	<u>Priority</u>	<u>Remarks</u>
<u>Exterior</u>		
Fascia & Cornice	3	
Grounds, Weeds	3	
Roof	3	
Driveway	3	
<u>Wetwell</u>		
Grease buildup	3	
<u>Station Interior</u>		
<u>#1 Pump</u>		
Motor	3	
Bearings	3	
Drive Shafts	3	
U-Joints	3	
Pump Bearings	3	
Valves	3	
Pillow Block Bearings	3	
<u>#2 Pump</u>		
Motor	3	
Bearings	3	
Drive Shafts	3	
U-Joints	3	
Pillow Block Bearing	3	
Generator	3	
Pumps Packing	3	
Sump Pump	3	
Valves	2	
<u>Ventilation</u>		
Drywell	3	
Wetwell	3	
Electric Heaters	3	

1 - Immediate Priority; 2 -Priority; 3 - Needs No Attention

DATE	RUN HOURS		PER DAY	
	Pump #1	Pump #2	Pump #1	Pump #2
3/1/2016 – 4/1/2016	67.3	71.0	2.17	2.29

Comments:

Generator run hours = 1.9

FOREST AVENUE

Operator: Ed Chelius

Date: Apr 2016

<u>Item</u>	<u>Priority</u>	<u>Remarks</u>
<u>Exterior</u>		
Fascia & Cornice	3	
Grounds, Weeds	3	
Roof	3	
Driveway	3	
<u>Wetwell</u>		
Grease buildup	3	
<u>Station Interior</u>		
<u>#1 Pump</u>		
Motor	3	
Bearings	3	
Drive Shafts	3	
U-Joints	3	
Pump Bearings	3	
Valves	3	
Pillow Block Bearings	3	
<u>#2 Pump</u>		
Motor	3	
Bearings	3	
Drive Shafts	3	
U-Joints	3	
Pillow Block Bearing	3	
Generator	3	
Pumps Packing	3	
Sump Pump	3	
Valves	2	
<u>Ventilation</u>		
Drywell	3	
Wetwell	3	
Electric Heaters	3	

1 - Immediate Priority; 2 -Priority; 3 - Needs No Attention

DATE	RUN HOURS		PER DAY	
	Pump #1	Pump #2	Pump #1	Pump #2
4/1/2016 - 5/1/2016	34.6	35.2	1.15	1.17

Comments:

Generator run hours= 1.3

New hour meters installed

4/5 – New transducer installed in wet well

4/21 – Cleaned Forest Ave sewer line in front of station.

FOREST AVENUE

Operator: Ed Chelius

Date: May2016

<u>Item</u>	<u>Priority</u>	<u>Remarks</u>
<u>Exterior</u>		
Fascia & Cornice	3	
Grounds, Weeds	3	
Roof	3	
Driveway	3	
<u>Wetwell</u>		
Grease buildup	3	
<u>Station Interior</u>		
<u>#1 Pump</u>		
Motor	3	
Bearings	3	
Drive Shafts	3	
U-Joints	3	
Pump Bearings	3	
Valves	3	
Pillow Block Bearings	3	
<u>#2 Pump</u>		
Motor	3	
Bearings	3	
Drive Shafts	3	
U-Joints	3	
Pillow Block Bearing	3	
Generator	3	
Pumps Packing	3	
Sump Pump	3	
Valves	2	
<u>Ventilation</u>		
Drywell	3	
Wetwell	3	
Electric Heaters	3	

1 - Immediate Priority; 2 -Priority; 3 – Needs No Attention

DATE	RUN HOURS		PER DAY	
	Pump #1	Pump #2	Pump #1	Pump #2
5/1/2016 - 6/1/2016	68.5	70.1	2.20	2.26

Comments:

Generator run hours = 2.6

FOREST AVENUE

Operator: Ed Chelius

Date: June2016

<u>Item</u>	<u>Priority</u>	<u>Remarks</u>
<u>Exterior</u>		
Fascia & Cornice	3	
Grounds, Weeds	3	
Roof	3	
Driveway	3	
<u>Wetwell</u>		
Grease buildup	3	
<u>Station Interior</u>		
<u>#1 Pump</u>		
Motor	3	
Bearings	3	
Drive Shafts	3	
U-Joints	3	
Pump Bearings	3	
Valves	3	
Pillow Block Bearings	3	
<u>#2 Pump</u>		
Motor	3	
Bearings	3	
Drive Shafts	3	
U-Joints	3	
Pillow Block Bearing	3	
Generator	3	
Pumps Packing	3	
Sump Pump	3	
Valves	2	
<u>Ventilation</u>		
Drywell	3	
Wetwell	3	
Electric Heaters	3	

1 - Immediate Priority; 2 -Priority; 3 – Needs No Attention

DATE	RUN HOURS		PER DAY	
	Pump #1	Pump #2	Pump #1	Pump #2
6/1/2016 - 7/1/2016	54.8	1.83	55.0	1.83

Comments:

Generator run hours = 2.1

FOREST AVENUE

Operator: Ed Chelius

Date: July 2016

<u>Item</u>	<u>Priority</u>	<u>Remarks</u>
<u>Exterior</u>		
Fascia & Cornice	3	
Grounds, Weeds	3	
Roof	3	
Driveway	3	
<u>Wetwell</u>		
Grease buildup	3	
<u>Station Interior</u>		
<u>#1 Pump</u>		
Motor	3	
Bearings	3	
Drive Shafts	3	
U-Joints	3	
Pump Bearings	3	
Valves	3	
Pillow Block Bearings	3	
<u>#2 Pump</u>		
Motor	3	
Bearings	3	
Drive Shafts	3	
U-Joints	3	
Pillow Block Bearing	3	
Generator	3	
Pumps Packing	3	
Sump Pump	3	
Valves	2	
<u>Ventilation</u>		
Drywell	3	
Wetwell	3	
Electric Heaters	3	

1 - Immediate Priority; 2 -Priority; 3 – Needs No Attention

DATE	RUN HOURS		PER DAY	
	Pump #1	Pump #2	Pump #1	Pump #2
7/1/2016 - 8/1/2016	51.7	51.8	1.66	1.67

Comments:

Generator run hours = 1.3

FOREST AVENUE

Operator: Ed Chelius

Date: August 2016

<u>Item</u>	<u>Priority</u>	<u>Remarks</u>
<u>Exterior</u>		
Fascia & Cornice	3	
Grounds, Weeds	3	
Roof	3	
Driveway	3	
<u>Wetwell</u>		
Grease buildup	3	
<u>Station Interior</u>		
<u>#1 Pump</u>		
Motor	3	
Bearings	3	
Drive Shafts	3	
U-Joints	3	
Pump Bearings	3	
Valves	3	
Pillow Block Bearings	3	
<u>#2 Pump</u>		
Motor	3	
Bearings	3	
Drive Shafts	3	
U-Joints	3	
Pillow Block Bearing	3	
Generator	3	
Pumps Packing	3	
Sump Pump	3	
Valves	2	
<u>Ventilation</u>		
Drywell	3	
Wetwell	3	
Electric Heaters	3	

1 - Immediate Priority; 2 -Priority; 3 – Needs No Attention

DATE	RUN HOURS		PER DAY	
	Pump #1	Pump #2	Pump #1	Pump #2
8/1/2016 - 9/1/2016	50.6	50.7	1.63	1.63

Comments:

Generator run hours = 1.4

FOREST AVENUE

Operator: Ed Chelius

Date: September 2016

<u>Item</u>	<u>Priority</u>	<u>Remarks</u>
<u>Exterior</u>		
Fascia & Cornice	3	
Grounds, Weeds	3	
Roof	3	
Driveway	3	
<u>Wetwell</u>		
Grease buildup	3	
<u>Station Interior</u>		
<u>#1 Pump</u>		
Motor	3	
Bearings	3	
Drive Shafts	3	
U-Joints	3	
Pump Bearings	3	
Valves	3	
Pillow Block Bearings	3	
<u>#2 Pump</u>		
Motor	3	
Bearings	3	
Drive Shafts	3	
U-Joints	3	
Pillow Block Bearing	3	
Generator	3	
Pumps Packing	3	
Sump Pump	3	
Valves	2	
<u>Ventilation</u>		
Drywell	3	
Wetwell	3	
Electric Heaters	3	

1 - Immediate Priority; 2 -Priority; 3 – Needs No Attention

DATE	RUN HOURS		PER DAY	
	Pump #1	Pump #2	Pump #1	Pump #2
9/1/2016 - 10/1/2016	49.5	50.3	1.65	1.67

Comments:

Generator run hours = 1.3

FOREST AVENUE

Operator: Ed Chelius

Date: October 2016

<u>Item</u>	<u>Priority</u>	<u>Remarks</u>
<u>Exterior</u>		
Fascia & Cornice	3	
Grounds, Weeds	3	
Roof	3	
Driveway	3	
<u>Wetwell</u>		
Grease buildup	3	
<u>Station Interior</u>		
<u>#1 Pump</u>		
Motor	3	
Bearings	3	
Drive Shafts	3	
U-Joints	3	
Pump Bearings	3	
Valves	3	
Pillow Block Bearings	3	
<u>#2 Pump</u>		
Motor	3	
Bearings	3	
Drive Shafts	3	
U-Joints	3	
Pillow Block Bearing	3	
Generator	3	
Pumps Packing	3	
Sump Pump	3	
Valves	2	
<u>Ventilation</u>		
Drywell	3	
Wetwell	3	
Electric Heaters	3	

1 - Immediate Priority; 2 -Priority; 3 – Needs No Attention

DATE	RUN HOURS		PER DAY	
	Pump #1	Pump #2	Pump #1	Pump #2
10/1/2016 - 11/1/2016	45.3	45.6	1.46	1.47

Comments:

Generator run hours = 2.3

FOREST AVENUE

Operator: Ed Chelius

Date: November 2016

<u>Item</u>	<u>Priority</u>	<u>Remarks</u>
<u>Exterior</u>		
Fascia & Cornice	3	
Grounds, Weeds	3	
Roof	3	
Driveway	3	
<u>Wetwell</u>		
Grease buildup	3	
<u>Station Interior</u>		
<u>#1 Pump</u>		
Motor	3	
Bearings	3	
Drive Shafts	3	
U-Joints	3	
Pump Bearings	3	
Valves	3	
Pillow Block Bearings	3	
<u>#2 Pump</u>		
Motor	3	
Bearings	3	
Drive Shafts	3	
U-Joints	3	
Pillow Block Bearing	3	
Generator	3	
Pumps Packing	3	
Sump Pump	3	
Valves	2	
<u>Ventilation</u>		
Drywell	3	
Wetwell	3	
Electric Heaters	3	

1 - Immediate Priority; 2 -Priority; 3 – Needs No Attention

DATE	RUN HOURS		PER DAY	
	Pump #1	Pump #2	Pump #1	Pump #2
11/1/2016 - 12/1/2016	48.7	49.5	1.62	1.65

Comments:

Generator run hours = 2.2

FOREST AVENUE

Operator: Ed Chelius

Date: December 2016

<u>Item</u>	<u>Priority</u>	<u>Remarks</u>
<u>Exterior</u>		
Fascia & Cornice	3	
Grounds, Weeds	3	
Roof	3	
Driveway	3	
<u>Wetwell</u>		
Grease buildup	3	
<u>Station Interior</u>		
<u>#1 Pump</u>		
Motor	3	
Bearings	3	
Drive Shafts	3	
U-Joints	3	
Pump Bearings	3	
Valves	3	
Pillow Block Bearings	3	
<u>#2 Pump</u>		
Motor	3	
Bearings	3	
Drive Shafts	3	
U-Joints	3	
Pillow Block Bearing	3	
Generator	3	
Pumps Packing	3	
Sump Pump	3	
Valves	2	
<u>Ventilation</u>		
Drywell	3	
Wetwell	3	
Electric Heaters	3	

1 - Immediate Priority; 2 -Priority; 3 – Needs No Attention

DATE	RUN HOURS		PER DAY	
	Pump #1	Pump #2	Pump #1	Pump #2
12/1/2016 - 1/1/2016	63.6	65.1	2.05	2.1

Comments:

Generator run hours = 1.3

PORT INDIAN P.S.

Operator: Ed Chelius

Date: Jan 2015

Equipment:

OPERATIONAL

	<u>YES</u>	<u>NO</u>
Pump #1	x	
Pump #2	x	
Controls	x	
Check Valves	x	
Diversion Chamber	x	

Alarm System

Operational YES X NO ___

Emergency Generator

Run Hrs/Month hr. YES X NO ___

Wetwell

Debris Buildup Good X Needs Cleaning ___

Exterior

General Condition

Fascia and Cornice	Good <u>X</u> Poor ___
Roof	Good <u>X</u> Poor ___
Grounds, Weeds	Good <u>X</u> Poor ___
Driveway	Good <u>X</u> Poor ___

Flows

DATE	TOTAL GALLONS	GALLONS/DAY
1/1/2016 - 2/1/2016	9,578,900	308,996

DATE	Run Hours		Per Day	
	Pump #1	Pump #2	Pump #1	Pump #2
1/1/2016 - 2/1/2016	out	194.47	out	6.27

Comments:

Generator run hours = 2.5

PORT INDIAN P.S.

Operator: Ed Chelius

Date: Feb 2016

Equipment:

OPERATIONAL

	<u>YES</u>	<u>NO</u>
Pump #1	x	
Pump #2	x	
Controls	x	
Check Valves	x	
Diversion Chamber	x	

Alarm System

Operational YES X NO ___

Emergency Generator

Run Hrs/Month hr. YES X NO ___

Wetwell

Debris Buildup Good X Needs Cleaning ___

Exterior

General Condition

Fascia and Cornice	Good <u>X</u> Poor ___
Roof	Good <u>X</u> Poor ___
Grounds, Weeds	Good <u>X</u> Poor ___
Driveway	Good <u>X</u> Poor ___

Flows

<u>DATE</u>	<u>TOTAL GALLONS</u>	<u>GALLONS/DAY</u>
2/1/2016 - 3/1/2016	19,564,200	674,628

DATE	Run Hours		Per Day	
	Pump #1	Pump #2	Pump #1	Pump #2
2/1/2016 - 3/1/2016	175.53	197.19	6.052	6.799

Comments:

Generator run hours = 1.6

EEC was at pump station to install #1 pump in the wet well.

PORT INDIAN P.S.

Operator: Ed Chelius

Date: March 2016

Equipment:

	<u>OPERATIONAL</u>	
	<u>YES</u>	<u>NO</u>
Pump #1	x	
Pump #2	x	
Controls	x	
Check Valves	x	
Diversion Chamber	x	

Alarm System

Operational YES X NO ___

Emergency Generator

Run Hrs/Month hr. YES X NO ___

Wetwell

Debris Buildup Good X Needs Cleaning ___

Exterior

General Condition

Fascia and Cornice Good X Poor ___
Roof Good X Poor ___
Grounds, Weeds Good X Poor ___
Driveway Good X Poor ___

Flows

<u>DATE</u>	<u>TOTAL GALLONS</u>	<u>GALLONS/DAY</u>
3/1/2016 - 4/1/2016	4,595,200	148.232

<u>DATE</u>	<u>Run Hours</u>		<u>Per Day</u>	
	<u>Pump #1</u>	<u>Pump #2</u>	<u>Pump #1</u>	<u>Pump #2</u>
3/1/2016 - 4/1/2016	116.83	112.22	3.77	3.62

Comments:

Generator run hours = 2.2

3/30 – Meter guys in to calibrate flow meter.

PORT INDIAN P.S.

Operator: Ed Chelius

Date: Apr 2016

Equipment:

OPERATIONAL

	<u>YES</u>	<u>NO</u>
Pump #1	x	
Pump #2	x	
Controls	x	
Check Valves	x	
Diversion Chamber	x	

Alarm System

Operational YES X NO ___

Emergency Generator

Run Hrs/Month hr. YES X NO ___

Wetwell

Debris Buildup Good X Needs Cleaning ___

Exterior

General Condition

Fascia and Cornice	Good <u>X</u> Poor ___
Roof	Good <u>X</u> Poor ___
Grounds, Weeds	Good <u>X</u> Poor ___
Driveway	Good <u>X</u> Poor ___

Flows

<u>DATE</u>	<u>TOTAL GALLONS</u>	<u>GALLONS/DAY</u>
4/1/2016 - 5/1/2016	No Totalizer meter	

DATE	Run Hours		Per Day	
	Pump #1	Pump #2	Pump #1	Pump #2
4/1/2016 - 5/1/2016	87.41	80.12	2.91	2.67

Comments:

Generator run hours = 1.3

PORT INDIAN P.S.

Operator: Ed Chelius

Date: May2016

Equipment:

	<u>OPERATIONAL</u>	
	<u>YES</u>	<u>NO</u>
Pump #1	x	
Pump #2	x	
Controls	x	
Check Valves	x	
Diversion Chamber	x	

Alarm System

Operational YES X NO ___

Emergency Generator

Run Hrs/Month hr. YES X NO ___

Wetwell

Debris Buildup Good X Needs Cleaning ___

Exterior

General Condition

Fascia and Cornice Good X Poor ___
Roof Good X Poor ___
Grounds, Weeds Good X Poor ___
Driveway Good X Poor ___

Flows

<u>DATE</u>	<u>TOTAL GALLONS</u>	<u>GALLONS/DAY</u>
5/1/2016 - 6/1/2016	No meter	-

<u>DATE</u>	<u>Run Hours</u>		<u>Per Day</u>	
	<u>Pump #1</u>	<u>Pump #2</u>	<u>Pump #1</u>	<u>Pump #2</u>
5/1/2016 - 6/1/2016	118.82	105.76	3.83	3.41

Comments:

Generator run hours = 2.1

Flow meter still needs to be repaired at the station.

PORT INDIAN P.S.

Operator: Ed Chelius

Date: June2016

Equipment:

OPERATIONAL

	<u>YES</u>	<u>NO</u>
Pump #1	x	
Pump #2	x	
Controls	x	
Check Valves	x	
Diversion Chamber	x	

Alarm System

Operational YES X NO ___

Emergency Generator

Run Hrs/Month hr. YES X NO ___

Wetwell

Debris Buildup Good X Needs Cleaning ___

Exterior

General Condition

Fascia and Cornice	Good <u>X</u>	Poor ___
Roof	Good <u>X</u>	Poor ___
Grounds, Weeds	Good <u>X</u>	Poor ___
Driveway	Good <u>X</u>	Poor ___

Flows

<u>DATE</u>	<u>TOTAL GALLONS</u>	<u>GALLONS/DAY</u>
6/1/2016 - 7/1/2016	No Totalizer	

<u>DATE</u>	<u>Run Hours</u>		<u>Per Day</u>	
	<u>Pump #1</u>	<u>Pump #2</u>	<u>Pump #1</u>	<u>Pump #2</u>
6/1/2016 - 7/1/2016	72.38	66.47	2.41	2.21

Comments:

Generator run hours = 2.1

PORT INDIAN P.S.

Operator: Ed Chelius

Date: July 2016

Equipment:

	<u>OPERATIONAL</u>	
	<u>YES</u>	<u>NO</u>
Pump #1	x	
Pump #2	x	
Controls	x	
Check Valves	x	
Diversion Chamber	x	

Alarm System

Operational YES X NO ___

Emergency Generator

Run Hrs/Month hr. YES X NO ___

Wetwell

Debris Buildup Good X Needs Cleaning ___

Exterior

General Condition

Fascia and Cornice Good X Poor ___
Roof Good X Poor ___
Grounds, Weeds Good X Poor ___
Driveway Good X Poor ___

Flows

<u>DATE</u>	<u>TOTAL GALLONS</u>	<u>GALLONS/DAY</u>
7/1/2016 - 8/1/2016	No Totalizer	

<u>DATE</u>	<u>Run Hours</u>		<u>Per Day</u>	
	<u>Pump #1</u>	<u>Pump #2</u>	<u>Pump #1</u>	<u>Pump #2</u>
7/1/2016 - 8/1/2016	68.02	60.7	2.19	1.96

Comments:

Generator run hours = 2.1

PORT INDIAN P.S.

Operator: Ed Chelius

Date: August 2016

Equipment:

	<u>OPERATIONAL</u>	
	<u>YES</u>	<u>NO</u>
Pump #1	x	
Pump #2	x	
Controls	x	
Check Valves	x	
Diversion Chamber	x	

Alarm System

Operational YES X NO ___

Emergency Generator

Run Hrs/Month hr. YES X NO ___

Wetwell

Debris Buildup Good X Needs Cleaning ___

Exterior

General Condition

Fascia and Cornice	Good <u>X</u> Poor ___
Roof	Good <u>X</u> Poor ___
Grounds, Weeds	Good <u>X</u> Poor ___
Driveway	Good <u>X</u> Poor ___

Flows

<u>DATE</u>	<u>TOTAL GALLONS</u>	<u>GALLONS/DAY</u>
8/1/2016 - 9/1/2016	No meter	

<u>DATE</u>	<u>Run Hours</u>		<u>Per Day</u>	
	<u>Pump #1</u>	<u>Pump #2</u>	<u>Pump #1</u>	<u>Pump #2</u>
8/1/2016 - 9/1/2016	61.75	55.31	1.99	1.78

Comments:

Generator run hours = 4.1

PORT INDIAN P.S.

Operator: Ed Chelius

Date: September 2016

Equipment:

	<u>OPERATIONAL</u>	
	<u>YES</u>	<u>NO</u>
Pump #1	x	
Pump #2	x	
Controls	x	
Check Valves	x	
Diversion Chamber	x	

Alarm System

Operational YES X NO ___

Emergency Generator

Run Hrs/Month hr. YES X NO ___

Wetwell

Debris Buildup Good X Needs Cleaning ___

Exterior

General Condition

Fascia and Cornice Good X Poor ___
Roof Good X Poor ___
Grounds, Weeds Good X Poor ___
Driveway Good X Poor ___

Flows

<u>DATE</u>	<u>TOTAL GALLONS</u>	<u>GALLONS/DAY</u>
9/1/2016 - 10/1/2016	No meter	--

<u>DATE</u>	<u>Run Hours</u>		<u>Per Day</u>	
	<u>Pump #1</u>	<u>Pump #2</u>	<u>Pump #1</u>	<u>Pump #2</u>
9/1/2016 - 10/1/2016	63.85	56.81	2.13	1.89

Comments:

Generator run hours = 2.0

9/20 – EEC in to install new air relief valve on force main.

PORT INDIAN P.S.

Operator: Ed Chelius

Date: October 2016

Equipment:

	<u>OPERATIONAL</u>	
	<u>YES</u>	<u>NO</u>
Pump #1	x	
Pump #2	x	
Controls	x	
Check Valves	x	
Diversion Chamber	x	

Alarm System

Operational YES X NO ___

Emergency Generator

Run Hrs/Month hr. YES X NO ___

Wetwell

Debris Buildup Good X Needs Cleaning ___

Exterior

General Condition

Fascia and Cornice Good X Poor ___
Roof Good X Poor ___
Grounds, Weeds Good X Poor ___
Driveway Good X Poor ___

Flows

<u>DATE</u>	<u>TOTAL GALLONS</u>	<u>GALLONS/DAY</u>
10/1/2016 - 11/1/2016		

<u>DATE</u>	<u>Run Hours</u>		<u>Per Day</u>	
	<u>Pump #1</u>	<u>Pump #2</u>	<u>Pump #1</u>	<u>Pump #2</u>
10/1/2016 - 11/1/2016	41.62	56.8	1.34	1.83

Comments:

Generator run hours = 2.1

10/6 – McGovern in to clean wet well

10/10 – Sealy in to install new quick connect seal on #2 pump.

PORT INDIAN P.S.

Operator: Ed Chelius

Date: November 2016

Equipment:

	<u>OPERATIONAL</u>	
	<u>YES</u>	<u>NO</u>
Pump #1	x	
Pump #2	x	
Controls	x	
Check Valves	x	
Diversion Chamber	x	

Alarm System

Operational YES X NO ___

Emergency Generator

Run Hrs/Month hr. YES X NO ___

Wetwell

Debris Buildup Good X Needs Cleaning ___

Exterior

General Condition

Fascia and Cornice	Good <u>X</u> Poor ___
Roof	Good <u>X</u> Poor ___
Grounds, Weeds	Good <u>X</u> Poor ___
Driveway	Good <u>X</u> Poor ___

Flows

<u>DATE</u>	<u>TOTAL GALLONS</u>	<u>GALLONS/DAY</u>
11/1/2016 - 12/1/2016		

<u>DATE</u>	<u>Run Hours</u>		<u>Per Day</u>	
	<u>Pump #1</u>	<u>Pump #2</u>	<u>Pump #1</u>	<u>Pump #2</u>
11/1/2016 - 12/1/2016	56.43	53.35	1.88	1.77

Comments:

Generator run hours = 2.0

PORT INDIAN P.S.

Operator: Ed Chelius

Date: December 2016

Equipment:

	<u>OPERATIONAL</u>	
	<u>YES</u>	<u>NO</u>
Pump #1	x	
Pump #2	x	
Controls	x	
Check Valves	x	
Diversion Chamber	x	

Alarm System

Operational YES X NO ___

Emergency Generator

Run Hrs/Month hr. YES X NO ___

Wetwell

Debris Buildup Good X Needs Cleaning ___

Exterior

General Condition

Fascia and Cornice Good X Poor ___
Roof Good X Poor ___
Grounds, Weeds Good X Poor ___
Driveway Good X Poor ___

Flows

<u>DATE</u>	<u>TOTAL GALLONS</u>	<u>GALLONS/DAY</u>
12/1/2016 - 1/1/2016	8,053,800	259,800

<u>DATE</u>	<u>Run Hours</u>		<u>Per Day</u>	
	<u>Pump #1</u>	<u>Pump #2</u>	<u>Pump #1</u>	<u>Pump #2</u>
12/1/2016 - 1/1/2016	89.21	85.86	2.87	2.77

Comments:

Generator run hours = 1.3

12/2: Meter Guys in to calibrate flow meter.

12/23: Fuel for generator.

HALFORD HILLS ESTATES

Operator: Ed Chelius

Date: Jan 2016

Equipment:

	<u>Operational</u>	
	<u>Yes</u>	<u>No</u>
Pump #1	X	
Pump #2	X	
Controls	X	
Check Valves	X	

Alarm System:

Operational	<u>Good</u>	<u>Poor</u>
	Wetwell Debris Buildup Grounds, weeds	X

DATE	RUN HOURS		PER DAY	
	Pump #1	Pump #2	Pump #1	Pump #2
1/1/2016 - 2/1/2016	27.78	22.64	0.89	0.73

Comments:

HALFORD HILLS ESTATES

Operator: Ed Chelius

Date: Feb 2016

Equipment:

	<u>Operational</u>	
	<u>Yes</u>	<u>No</u>
Pump #1	X	
Pump #2	X	
Controls	X	
Check Valves	X	

Alarm System:

Operational	<u>Good</u>	<u>Poor</u>
	Wetwell Debris Buildup Grounds, weeds	X

DATE	RUN HOURS		PER DAY	
	Pump #1	Pump #2	Pump #1	Pump #2
2/1/2016 - 3/1/2016	33.75	26.51	1.163	0.91

Comments:

HALFORD HILLS ESTATES

Operator: Ed Chelius

Date: March 2016

Equipment:

	<u>Operational</u>	
	<u>Yes</u>	<u>No</u>
Pump #1	X	
Pump #2	X	
Controls	X	
Check Valves	X	

Alarm System:

<u>Operational</u>	<u>Good</u>	<u>Poor</u>
Wetwell Debris Buildup	X	
Grounds, weeds		

DATE	RUN HOURS		PER DAY	
	Pump #1	Pump #2	Pump #1	Pump #2
3/1/2016 – 4/1/2016	31.04	23.31	1.00	0.75

Comments:

HALFORD HILLS ESTATES

Operator: Ed Chelius

Date: Apr 2016

Equipment:

	<u>Operational</u>	
	<u>Yes</u>	<u>No</u>
Pump #1	X	
Pump #2	X	
Controls	X	
Check Valves	X	

Alarm System:

Operational	<u>Good</u>	<u>Poor</u>
Wetwell Debris Buildup	X	
Grounds, weeds		

DATE	RUN HOURS		PER DAY	
	Pump #1	Pump #2	Pump #1	Pump #2
4/1/2016 - 5/1/2016	31.67	25.5	1.05	0.85

Comments:

HALFORD HILLS ESTATES

Operator: Ed Chelius

Date: May2016

Equipment:

	<u>Operational</u>	
	<u>Yes</u>	<u>No</u>
Pump #1	X	
Pump #2	X	
Controls	X	
Check Valves	X	

Alarm System:

<u>Operational</u>	<u>Good</u>	<u>Poor</u>
Wetwell Debris Buildup	X	
Grounds, weeds		

DATE	RUN HOURS		PER DAY	
	Pump #1	Pump #2	Pump #1	Pump #2
5/1/2016 - 6/1/2016	31.77	25.28	1.02	0.81

Comments:

HALFORD HILLS ESTATES

Operator: Ed Chelius

Date: June2016

Equipment:

	<u>Operational</u>	
	<u>Yes</u>	<u>No</u>
Pump #1	X	
Pump #2	X	
Controls	X	
Check Valves	X	

Alarm System:

<u>Operational</u>	<u>Good</u>	<u>Poor</u>
Wetwell Debris Buildup	X	
Grounds, weeds		

DATE	RUN HOURS		PER DAY	
	Pump #1	Pump #2	Pump #1	Pump #2
6/1/2016 - 7/1/2016	28.47	0.949	23.22	0.774

Comments:

HALFORD HILLS ESTATES

Operator: Ed Chelius

Date: July 2016

Equipment:

	<u>Operational</u>	
	<u>Yes</u>	<u>No</u>
Pump #1	X	
Pump #2	X	
Controls	X	
Check Valves	X	

Alarm System:

<u>Operational</u>	<u>Good</u>	<u>Poor</u>
Wetwell Debris Buildup	X	
Grounds, weeds		

DATE	RUN HOURS		PER DAY	
	Pump #1	Pump #2	Pump #1	Pump #2
7/1/2016 - 8/1/2016	26.72	23.22	0.861	0.749

Comments:

HALFORD HILLS ESTATES

Operator: Ed Chelius

Date: August 2016

Equipment:

	<u>Operational</u>	
	<u>Yes</u>	<u>No</u>
Pump #1	X	
Pump #2	X	
Controls	X	
Check Valves	X	

Alarm System:

Operational	<u>Good</u>	<u>Poor</u>
Wetwell Debris Buildup	X	
Grounds, weeds		

DATE	RUN HOURS		PER DAY	
	Pump #1	Pump #2	Pump #1	Pump #2
8/1/2016 - 9/1/2016	29.48	25.13	0.95	0.81

Comments:

HALFORD HILLS ESTATES

Operator: Ed Chelius

Date: September 2016

Equipment:

	<u>Operational</u>	
	<u>Yes</u>	<u>No</u>
Pump #1	X	
Pump #2	X	
Controls	X	
Check Valves	X	

Alarm System:

<u>Operational</u>	<u>Good</u>	<u>Poor</u>
Wetwell Debris Buildup	X	
Grounds, weeds		

DATE	RUN HOURS		PER DAY	
	Pump #1	Pump #2	Pump #1	Pump #2
9/1/2016 - 10/1/2016	29.41	25.60	0.98	0.85

Comments:

9/26 – McGovern in to clean out the wet well at station.

HALFORD HILLS ESTATES

Operator: Ed Chelius

Date: October 2016

Equipment:

	<u>Operational</u>	
	<u>Yes</u>	<u>No</u>
Pump #1	X	
Pump #2	X	
Controls	X	
Check Valves	X	

Alarm System:

Operational	<u>Good</u>	<u>Poor</u>
Wetwell Debris Buildup	X	
Grounds, weeds		

DATE	RUN HOURS		PER DAY	
	Pump #1	Pump #2	Pump #1	Pump #2
10/1/2016 - 11/1/2016	27.62	23.34	0.89	0.75

Comments:

HALFORD HILLS ESTATES

Operator: Ed Chelius

Date: November 2016

Equipment:

	<u>Operational</u>	
	<u>Yes</u>	<u>No</u>
Pump #1	X	
Pump #2	X	
Controls	X	
Check Valves	X	

Alarm System:

Operational	<u>Good</u>	<u>Poor</u>
Wetwell Debris Buildup	X	
Grounds, weeds		

DATE	RUN HOURS		PER DAY	
	Pump #1	Pump #2	Pump #1	Pump #2
11/1/2016 - 12/1/2016	31.4	26.71	1.05	0.89

Comments:

HALFORD HILLS ESTATES

Operator: Ed Chelius

Date: December 2016

Equipment:

	<u>Operational</u>	
	<u>Yes</u>	<u>No</u>
Pump #1	X	
Pump #2	X	
Controls	X	
Check Valves	X	

Alarm System:

Operational	<u>Good</u>	<u>Poor</u>
Wetwell Debris Buildup	X	
Grounds, weeds		

DATE	RUN HOURS		PER DAY	
	Pump #1	Pump #2	Pump #1	Pump #2
12/1/2016 - 1/1/2016	35.96	30.04	1.16	0.97

Comments:

RITTENHOUSE

Operator: Ed Chelius

Date: Jan 2016

<u>Item</u>	<u>Priority</u>	<u>Remarks</u>
<u>Exterior</u>		
Fascia & Cornice	3	
Roof	3	
Grounds, Weeds	3	
Driveway	3	
<u>Wetwell</u>		
Grease Buildup	3	
Stairwells	3	
Comminutor	3	
Valves	3	
<u>Station Interior</u>		
<u>#1 Pump</u>		
Motor	3	
Rings	3	
Brushes	3	
Bearings	3	
Drive Shafts	3	
U-Joints	3	
Pump Bearings	3	
Valves	3	
Flow Matchers	3	
Pillow Block		
Bearing	3	
<u>#2 Pump</u>		
Motor	3	
Rings	3	
Brushes	3	
Bearings	3	
Drive Shafts	3	
U-Joints	3	
Flow Matcher	3	
Pillow Block	3	
Bearing	3	
Generator	3	
<u>Plant Air</u>		
Compressor	3	
Pumps Packing	3	
Sump Pump	3	
Pump Bearing	3	

RITTENHOUSE

Operator: Ed Chelius

Date: Feb 2016

<u>Item</u>	<u>Priority</u>	<u>Remarks</u>
<u>Exterior</u>		
Fascia & Cornice	3	
Roof	3	
Grounds, Weeds	3	
Driveway	3	
<u>Wetwell</u>		
Grease Buildup	3	
Stairwells	3	
Comminutor	3	
Valves	3	
<u>Station Interior</u>		
<u>#1 Pump</u>		
Motor	3	
Rings	3	
Brushes	3	
Bearings	3	
Drive Shafts	3	
U-Joints	3	
Pump Bearings	3	
Valves	3	
Flow Matchers	3	
Pillow Block		
Bearing	3	
<u>#2 Pump</u>		
Motor	3	
Rings	3	
Brushes	3	
Bearings	3	
Drive Shafts	3	
U-Joints	2	
Flow Matcher	3	
Pillow Block	2	
Bearing	3	
Generator	3	
<u>Plant Air</u>		
Compressor	3	
Pumps Packing	3	
Sump Pump	3	
Pump Bearing	3	

RITTENHOUSE

Operator: Ed Chelius

Date: March 2016

<u>Item</u>	<u>Priority</u>	<u>Remarks</u>
<u>Exterior</u>		
Fascia & Cornice	3	
Roof	3	
Grounds, Weeds	3	
Driveway	3	
<u>Wetwell</u>		
Grease Buildup	3	
Stairwells	3	
Comminutor	3	
Valves	3	
<u>Station Interior</u>		
<u>#1 Pump</u>		
Motor	3	
Rings	3	
Brushes	3	
Bearings	3	
Drive Shafts	3	
U-Joints	3	
Pump Bearings	3	
Valves	3	
Flow Matchers	3	
Pillow Block		
Bearing	3	
<u>#2 Pump</u>		
Motor	3	
Rings	3	
Brushes	3	
Bearings	3	
Drive Shafts	3	
U-Joints	2	
Flow Matcher	3	
Pillow Block	2	
Bearing	3	
Generator	3	
<u>Plant Air</u>		
Compressor	3	
Pumps Packing	3	
Sump Pump	3	
Pump Bearing	3	

RITTENHOUSE

Operator: Ed Chelius

Date: March 2016

Audio Dialer **2**

Ventilation **Priority** **Remarks**

Dry well 3
Wetwell 3
Electric Heaters 3

#3 Pump

Motor 3
Rings 3
Brushes 3
Drive Shafts 3
U-Joints 3
Pump Bearings 3
Valves 3
Flow Matcher 3
Pillow Block
Bearing 3
Pump Bearings 3

1 - Immediate Priority; 2 - Priority; 3 - Needs No Attention

<u>DATE</u>	<u>TOTAL GALLONS</u>	<u>GALLONS/DAY</u>
3/1/2016 - 4/1/2016	53,448,000	1,724,129

DATE	Pump Run Hours			Run Hours Per Day		
	Pump #1	Pump #2	Pump #3	Pump #1	Pump #2	Pump #3
3/1/2016 - 4/1/2016	202.7	210.7	203.7	6.54	6.79	6.57

Comments: Generator Run Hours = 2
3/30 - Meter guys in to calibrate flow meter.

RITTENHOUSE

Operator: Ed Chelius

Date: Apr 2016

<u>Item</u>	<u>Priority</u>	<u>Remarks</u>
<u>Exterior</u>		
Fascia & Cornice	3	
Roof	3	
Grounds, Weeds	3	
Driveway	3	
<u>Wetwell</u>		
Grease Buildup	3	
Stairwells	3	
Comminutor	3	
Valves	3	
<u>Station Interior</u>		
<u>#1 Pump</u>		
Motor	3	
Rings	3	
Brushes	3	
Bearings	3	
Drive Shafts	3	
U-Joints	3	
Pump Bearings	3	
Valves	3	
Flow Matchers	3	
Pillow Block		
Bearing	3	
<u>#2 Pump</u>		
Motor	3	
Rings	3	
Brushes	3	
Bearings	3	
Drive Shafts	3	
U-Joints	2	
Flow Matcher	3	
Pillow Block	2	
Bearing	3	
Generator	3	
<u>Plant Air</u>		
Compressor	3	
Pumps Packing	3	
Sump Pump	3	
Pump Bearing	3	

RITTENHOUSE

Operator: Ed Chelius

Date: May2016

<u>Item</u>	<u>Priority</u>	<u>Remarks</u>
<u>Exterior</u>		
Fascia & Cornice	3	
Roof	3	
Grounds, Weeds	3	
Driveway	3	
<u>Wetwell</u>		
Grease Buildup	3	
Stairwells	3	
Comminutor	3	
Valves	3	
<u>Station Interior</u>		
<u>#1 Pump</u>		
Motor	3	
Rings	3	
Brushes	3	
Bearings	3	
Drive Shafts	3	
U-Joints	3	
Pump Bearings	3	
Valves	3	
Flow Matchers	3	
Pillow Block		
Bearing	3	
<u>#2 Pump</u>		
Motor	3	
Rings	3	
Brushes	3	
Bearings	3	
Drive Shafts	3	
U-Joints	2	
Flow Matcher	3	
Pillow Block	2	
Bearing	3	
Generator	3	
<u>Plant Air</u>		
Compressor	3	
Pumps Packing	3	
Sump Pump	3	
Pump Bearing	3	

RITTENHOUSE

Operator: Ed Chelius

Date: May2016

Audio Dialer **2**

Ventilation **Priority** **Remarks**

Dry well	3
Wetwell	3
Electric Heaters	3

#3 Pump

Motor	3
Rings	3
Brushes	3
Drive Shafts	3
U-Joints	3
Pump Bearings	3
Valves	3
Flow Matcher	3
Pillow Block	
Bearing	3
Pump Bearings	3

1 - Immediate Priority; 2 - Priority; 3 – Needs No Attention

<u>DATE</u>	<u>TOTAL GALLONS</u>	<u>GALLONS/DAY</u>
5/1/2016 - 6/1/2016	54,759,000	1,766,419

DATE	Pump Run Hours			Run Hours Per Day		
	Pump #1	Pump #2	Pump #3	Pump #1	Pump #2	Pump #3
5/1/2016 - 6/1/2016	222.3	232.3	232.3	7.17	7.49	7.49

Comments: Generator Run Hours = 1.7

RITTENHOUSE

Operator: Ed Chelius

Date: June2016

<u>Item</u>	<u>Priority</u>	<u>Remarks</u>
<u>Exterior</u>		
Fascia & Cornice	3	
Roof	3	
Grounds, Weeds	3	
Driveway	3	
<u>Wetwell</u>		
Grease Buildup	3	
Stairwells	3	
Comminutor	3	
Valves	3	
<u>Station Interior</u>		
<u>#1 Pump</u>		
Motor	3	
Rings	3	
Brushes	3	
Bearings	3	
Drive Shafts	3	
U-Joints	3	
Pump Bearings	3	
Valves	3	
Flow Matchers	3	
Pillow Block		
Bearing	3	
<u>#2 Pump</u>		
Motor	3	
Rings	3	
Brushes	3	
Bearings	3	
Drive Shafts	3	
U-Joints	2	
Flow Matcher	3	
Pillow Block	2	
Bearing	3	
Generator	3	
<u>Plant Air</u>		
Compressor	3	
Pumps Packing	3	
Sump Pump	3	
Pump Bearing	3	

RITTENHOUSE

Operator: Ed Chelius

Date: July 2016

<u>Item</u>	<u>Priority</u>	<u>Remarks</u>
<u>Exterior</u>		
Fascia & Cornice	3	
Roof	3	
Grounds, Weeds	3	
Driveway	3	
<u>Wetwell</u>		
Grease Buildup	3	
Stairwells	3	
Comminutor	3	
Valves	3	
<u>Station Interior</u>		
<u>#1 Pump</u>		
Motor	3	
Rings	3	
Brushes	3	
Bearings	3	
Drive Shafts	3	
U-Joints	3	
Pump Bearings	3	
Valves	3	
Flow Matchers	3	
Pillow Block		
Bearing	3	
<u>#2 Pump</u>		
Motor	3	
Rings	3	
Brushes	3	
Bearings	3	
Drive Shafts	3	
U-Joints	2	
Flow Matcher	3	
Pillow Block	2	
Bearing	3	
Generator	3	
<u>Plant Air</u>		
Compressor	3	
Pumps Packing	3	
Sump Pump	3	
Pump Bearing	3	

RITTENHOUSE

Operator: Ed Chelius

Date: July 2016

Audio Dialer **2**

Ventilation **Priority** **Remarks**

Dry well 3
Wetwell 3
Electric Heaters 3

#3 Pump

Motor 3
Rings 3
Brushes 3
Drive Shafts 3
U-Joints 3
Pump Bearings 3
Valves 3
Flow Matcher 3
Pillow Block
Bearing 3
Pump Bearings 3

1 - Immediate Priority; 2 - Priority; 3 - Needs No Attention

<u>DATE</u>	<u>TOTAL GALLONS</u>	<u>GALLONS/DAY</u>
7/1/2016 - 8/1/2016	32,334,000	1,043,032

<u>DATE</u>	<u>Pump Run Hours</u>			<u>Run Hours Per Day</u>		
	<u>Pump #1</u>	<u>Pump #2</u>	<u>Pump #3</u>	<u>Pump #1</u>	<u>Pump #2</u>	<u>Pump #3</u>
7/1/2016 - 8/1/2016	157.2	161.1	157.7	5.07	5.19	5.08

Comments: Generator Run Hours=

- Generator is not testing.

RITTENHOUSE

Operator: Ed Chelius

Date: August 2016

<u>Item</u>	<u>Priority</u>	<u>Remarks</u>
<u>Exterior</u>		
Fascia & Cornice	3	
Roof	3	
Grounds, Weeds	3	
Driveway	3	
<u>Wetwell</u>		
Grease Buildup	3	
Stairwells	3	
Comminutor	3	
Valves	3	
<u>Station Interior</u>		
<u>#1 Pump</u>		
Motor	3	
Rings	3	
Brushes	3	
Bearings	3	
Drive Shafts	3	
U-Joints	3	
Pump Bearings	3	
Valves	3	
Flow Matchers	3	
Pillow Block		
Bearing	3	
<u>#2 Pump</u>		
Motor	3	
Rings	3	
Brushes	3	
Bearings	3	
Drive Shafts	3	
U-Joints	2	
Flow Matcher	3	
Pillow Block	2	
Bearing	3	
Generator	3	
<u>Plant Air</u>		
Compressor	3	
Pumps Packing	3	
Sump Pump	3	
Pump Bearing	3	

RITTENHOUSE

Operator: Ed Chelius

Date: August 2016

Audio Dialer 2

Ventilation Priority Remarks

Dry well 3
Wetwell 3
Electric Heaters 3

#3 Pump

Motor 3
Rings 3
Brushes 3
Drive Shafts 3
U-Joints 3
Pump Bearings 3
Valves 3
Flow Matcher 3
Pillow Block
Bearing 3
Pump Bearings 3

1 - Immediate Priority; 2 - Priority; 3 - Needs No Attention

<u>DATE</u>	<u>TOTAL GALLONS</u>	<u>GALLONS/DAY</u>
8/1/2016 - 9/1/2016	27,519,000	887,709

DATE	Pump Run Hours			Run Hours Per Day		
	Pump #1	Pump #2	Pump #3	Pump #1	Pump #2	Pump #3
8/1/2016 - 9/1/2016	163.4	90.9	154.7	5.27	2.93	4.99

Comments: Generator Run Hours = 8.23

Generator is not automatically testing every week as it should.

8/23 – Sealy in to pull #2 pump out for repair. It was sent to Deckmans and will be replaced as soon as possible.

RITTENHOUSE

Operator: Ed Chelius

Date: September 2016

<u>Item</u>	<u>Priority</u>	<u>Remarks</u>
<u>Exterior</u>		
Fascia & Cornice	3	
Roof	3	
Grounds, Weeds	3	
Driveway	3	
<u>Wetwell</u>		
Grease Buildup	3	
Stairwells	3	
Comminutor	3	
Valves	3	
<u>Station Interior</u>		
<u>#1 Pump</u>		
Motor	3	
Rings	3	
Brushes	3	
Bearings	3	
Drive Shafts	3	
U-Joints	3	
Pump Bearings	3	
Valves	3	
Flow Matchers	3	
Pillow Block		
Bearing	3	
<u>#2 Pump</u>		
Motor	3	
Rings	3	
Brushes	3	
Bearings	3	
Drive Shafts	3	
U-Joints	2	
Flow Matcher	3	
Pillow Block	2	
Bearing	3	
Generator	3	
<u>Plant Air</u>		
Compressor	3	
Pumps Packing	3	
Sump Pump	3	
Pump Bearing	3	

RITTENHOUSE

Operator: Ed Chelius

Date: October 2016

<u>Item</u>	<u>Priority</u>	<u>Remarks</u>
<u>Exterior</u>		
Fascia & Cornice	3	
Roof	3	
Grounds, Weeds	3	
Driveway	3	
<u>Wetwell</u>		
Grease Buildup	3	
Stairwells	3	
Comminutor	3	
Valves	3	
<u>Station Interior</u>		
<u>#1 Pump</u>		
Motor	3	
Rings	3	
Brushes	3	
Bearings	3	
Drive Shafts	3	
U-Joints	3	
Pump Bearings	3	
Valves	3	
Flow Matchers	3	
Pillow Block		
Bearing	3	
<u>#2 Pump</u>		
Motor	3	
Rings	3	
Brushes	3	
Bearings	3	
Drive Shafts	3	
U-Joints	2	
Flow Matcher	3	
Pillow Block	2	
Bearing	3	
Generator	3	
<u>Plant Air</u>		
Compressor	3	
Pumps Packing	3	
Sump Pump	3	
Pump Bearing	3	

RITTENHOUSE

Operator: Ed Chelius

Date: November 2016

<u>Item</u>	<u>Priority</u>	<u>Remarks</u>
<u>Exterior</u>		
Fascia & Cornice	3	
Roof	3	
Grounds, Weeds	3	
Driveway	3	
<u>Wetwell</u>		
Grease Buildup	3	
Stairwells	3	
Comminutor	3	
Valves	3	
<u>Station Interior</u>		
<u>#1 Pump</u>		
Motor	3	
Rings	3	
Brushes	3	
Bearings	3	
Drive Shafts	3	
U-Joints	3	
Pump Bearings	3	
Valves	3	
Flow Matchers	3	
Pillow Block		
Bearing	3	
<u>#2 Pump</u>		
Motor	3	
Rings	3	
Brushes	3	
Bearings	3	
Drive Shafts	3	
U-Joints	2	
Flow Matcher	3	
Pillow Block	2	
Bearing	3	
Generator	3	
<u>Plant Air</u>		
Compressor	3	
Pumps Packing	3	
Sump Pump	3	
Pump Bearing	3	

RITTENHOUSE

Operator: Ed Chelius

Date: December 2016

<u>Item</u>	<u>Priority</u>	<u>Remarks</u>
<u>Exterior</u>		
Fascia & Cornice	3	
Roof	3	
Grounds, Weeds	3	
Driveway	3	
<u>Wetwell</u>		
Grease Buildup	3	
Stairwells	3	
Comminutor	3	
Valves	3	
<u>Station Interior</u>		
<u>#1 Pump</u>		
Motor	3	
Rings	3	
Brushes	3	
Bearings	3	
Drive Shafts	3	
U-Joints	3	
Pump Bearings	3	
Valves	3	
Flow Matchers	3	
Pillow Block		
Bearing	3	
<u>#2 Pump</u>		
Motor	3	
Rings	3	
Brushes	3	
Bearings	3	
Drive Shafts	3	
U-Joints	2	
Flow Matcher	3	
Pillow Block	2	
Bearing	3	
Generator	3	
<u>Plant Air</u>		
Compressor	3	
Pumps Packing	3	
Sump Pump	3	
Pump Bearing	3	

JACKSON STREET METERING PIT

Operator: Ed Chelius

Date: Jan 2016

Flow Jackson Street Pit

<u>DATE</u>	<u>TOTAL GALLONS</u>	<u>GALLONS/DAY</u>
1/1/2016 - 2/1/2016	9,965,200	321,458

Montgomery Avenue Metering Pit to the Rittenhouse P.S.

<u>DATE</u>	<u>Total Flow</u>	<u>Average flow/day</u>
1/1/2016 - 2/1/2016	24,821,700	800,700

Flow to Norristown

<u>DATE</u>	<u>TOTAL GALLONS</u>	<u>GALLONS/DAY</u>
1/1/2016 - 2/1/2016	40,699,000	2,176,858

JACKSON STREET METERING PIT

Operator: **Ed Chelius**

Date: **Feb 2016**

Flow Jackson Street Pit

<u>DATE</u>	<u>TOTAL GALLONS</u>	<u>GALLONS/DAY</u>
2/1/2016 - 3/1/2016	10,756,600	370,917

Montgomery Avenue Metering Pit to the Rittenhouse P.S.

<u>DATE</u>	<u>Total Flow</u>	<u>Average flow/day</u>
2/1/2016 - 3/1/2016	41,774,300	1,440,493

Flow to Norristown

<u>DATE</u>	<u>TOTAL GALLONS</u>	<u>GALLONS/DAY</u>
2/1/2016 - 3/1/2016	40,699,000	2,176,858

JACKSON STREET METERING PIT

Operator: **Ed Chelius**

Date: **March 2016**

Flow Jackson Street Pit

<u>DATE</u>	<u>TOTAL GALLONS</u>	<u>GALLONS/DAY</u>
3/1/2016 - 4/1/2016	11,093,600	357,858

Montgomery Avenue Metering Pit to the Rittenhouse P.S.

<u>DATE</u>	<u>Total Flow</u>	<u>Average flow/day</u>
3/1/2016 - 4/1/2016	32,160,600	1,037,438

Flow to Norristown

<u>DATE</u>	<u>TOTAL GALLONS</u>	<u>GALLONS/DAY</u>
3/1/2016 - 4/1/2016	-	-

JACKSON STREET METERING PIT

Operator: Ed Chelius

Date: Apr 2016

Flow Jackson Street Pit

<u>DATE</u>	<u>TOTAL GALLONS</u>	<u>GALLONS/DAY</u>
4/1/2016 - 5/1/2016	11,749,200	391,640

Montgomery Avenue Metering Pit to the Rittenhouse P.S.

<u>DATE</u>	<u>Total Flow</u>	<u>Average flow/day</u>
4/1/2016 - 5/1/2016	20,825,400	694,180

Flow to Norristown

<u>DATE</u>	<u>TOTAL GALLONS</u>	<u>GALLONS/DAY</u>
4/1/2016 - 5/1/2016	51,961,600	1,732,053

JACKSON STREET METERING PIT

Operator: Ed Chelius

Date: May2016

Flow Jackson Street Pit

<u>DATE</u>	<u>TOTAL GALLONS</u>	<u>GALLONS/DAY</u>
5/1/2016 - 6/1/2016	11,360,400	366,465

Montgomery Avenue Metering Pit to the Rittenhouse P.S.

<u>DATE</u>	<u>Total Flow</u>	<u>Average flow/day</u>
5/1/2016 - 6/1/2016	27,927,800	900,896

Flow to Norristown

<u>DATE</u>	<u>TOTAL GALLONS</u>	<u>GALLONS/DAY</u>
5/1/2016 - 6/1/2016		

JACKSON STREET METERING PIT

Operator: Ed Chelius

Date: June2016

Flow Jackson Street Pit

<u>DATE</u>	<u>TOTAL GALLONS</u>	<u>GALLONS/DAY</u>
6/1/2016 - 7/1/2016	12,665,700	422,190

Montgomery Avenue Metering Pit to the Rittenhouse P.S.

<u>DATE</u>	<u>Total Flow</u>	<u>Average flow/day</u>
6/1/2016 - 7/1/2016	14,320,100	477,336

Flow to Norristown

<u>DATE</u>	<u>TOTAL GALLONS</u>	<u>GALLONS/DAY</u>
6/1/2016 - 7/1/2016		

JACKSON STREET METERING PIT

Operator: Ed Chelius

Date: July 2016

Flow Jackson Street Pit

<u>DATE</u>	<u>TOTAL GALLONS</u>	<u>GALLONS/DAY</u>
7/1/2016 - 8/1/2016	12,394,700	299,829

Montgomery Avenue Metering Pit to the Rittenhouse P.S.

<u>DATE</u>	<u>Total Flow</u>	<u>Average flow/day</u>
7/1/2016 - 8/1/2016	13,732,600	442,987

Flow to Norristown

<u>DATE</u>	<u>TOTAL GALLONS</u>	<u>GALLONS/DAY</u>
7/1/2016 - 8/1/2016		

JACKSON STREET METERING PIT

Operator: Ed Chelius

Date: August 2016

Flow Jackson Street Pit

<u>DATE</u>	<u>TOTAL GALLONS</u>	<u>GALLONS/DAY</u>
8/1/2016 - 9/1/2016	13,247,000	427,322

Montgomery Avenue Metering Pit to the Rittenhouse P.S.

<u>DATE</u>	<u>Total Flow</u>	<u>Average flow/day</u>
8/1/2016 - 9/1/2016	9,742,400	314,274

Flow to Norristown

<u>DATE</u>	<u>TOTAL GALLONS</u>	<u>GALLONS/DAY</u>
8/1/2016 - 9/1/2016		

JACKSON STREET METERING PIT

Operator: Ed Chelius

Date: September 2016

Flow Jackson Street Pit

<u>DATE</u>	<u>TOTAL GALLONS</u>	<u>GALLONS/DAY</u>
9/1/2016 - 10/1/2016	11,987,400	399,580

Montgomery Avenue Metering Pit to the Rittenhouse P.S.

<u>DATE</u>	<u>Total Flow</u>	<u>Average flow/day</u>
9/1/2016 - 10/1/2016	11,420,700	380,690

Flow to Norristown

<u>DATE</u>	<u>TOTAL GALLONS</u>	<u>GALLONS/DAY</u>
9/1/2016 - 10/1/2016		

JACKSON STREET METERING PIT

Operator: Ed Chelius

Date: October 2016

Flow Jackson Street Pit

<u>DATE</u>	<u>TOTAL GALLONS</u>	<u>GALLONS/DAY</u>
10/1/2016 - 11/1/2016	9,644,900	311,125

Montgomery Avenue Metering Pit to the Rittenhouse P.S.

<u>DATE</u>	<u>Total Flow</u>	<u>Average flow/day</u>
10/1/2016 - 11/1/2016	11,829,700	381,603

Flow to Norristown

<u>DATE</u>	<u>TOTAL GALLONS</u>	<u>GALLONS/DAY</u>
10/1/2016 - 11/1/2016		

JACKSON STREET METERING PIT

Operator: Ed Chelius

Date: November 2016

Flow Jackson Street Pit

<u>DATE</u>	<u>TOTAL GALLONS</u>	<u>GALLONS/DAY</u>
11/1/2016 - 12/1/2016	9,447,000	314,900

Montgomery Avenue Metering Pit to the Rittenhouse P.S.

<u>DATE</u>	<u>Total Flow</u>	<u>Average flow/day</u>
11/1/2016 - 12/1/2016	15,212,600	507,086

Flow to Norristown

<u>DATE</u>	<u>TOTAL GALLONS</u>	<u>GALLONS/DAY</u>
11/1/2016 - 12/1/2016		

JACKSON STREET METERING PIT

Operator: **Ed Chelius**

Date: **December 2016**

Flow Jackson Street Pit

<u>DATE</u>	<u>TOTAL GALLONS</u>	<u>GALLONS/DAY</u>
12/1/2016 - 1/1/2016	12,563,200	405,265

Montgomery Avenue Metering Pit to the Rittenhouse P.S.

<u>DATE</u>	<u>Total Flow</u>	<u>Average flow/day</u>
12/1/2016 - 1/1/2016	21,112,900	681,061

Flow to Norristown

<u>DATE</u>	<u>TOTAL GALLONS</u>	<u>GALLONS/DAY</u>
12/1/2016 - 1/1/2016		

ATTACHMENT E
MONTHLY ADF TO NMWA

**Table 6
2016 TOTAL FLOW TO NORRISTOWN
WEST NORRITON TOWNSHIP**

Average Daily Flow	Rittenhouse Blvd Pump Station (gpd)	Jackson Street Pit (gpd)	Total Flow to Norristown (gpd)
January	1,418,064	321,458	1,739,522
February	2,902,034	370,917	3,272,951
March	1,724,129	357,858	2,081,987
April	1,401,366	391,640	1,793,006
May	1,766,419	366,465	2,132,884
June	1,128,400	422,190	1,550,590
July	1,043,032	299,829	1,342,861
August	887,709	427,322	1,315,031
September	986,100	399,580	1,385,680
October	897,483	311,125	1,208,608
November	1,054,833	314,900	1,369,733
December	1,350,677	405,265	1,755,942

Average total flow (gpd)	16,560,246	4,388,549	20,948,795
Average Daily Flow (gpd)	1,380,021	365,712	1,745,733

Table 7
Average Daily Flow to NMWA (2008 to 2016)
West Norriton Township

Rittenhouse Pump Station

Month	2008	2009	2010	2011	2012	2013	2014	2015	2016
January	1,140,058	1,456,990	1,463,313	829,881	1,631,760	1,708,296	1,847,377	1,765,629	1,418,064
February	1,766,872	559,437	1,722,096	1,505,254	1,204,106	1,603,490	3,119,342	1,649,457	2,902,034
March	1,846,990	515,907	2,755,964	2,072,793	1,304,838	1,684,645	233,590	2,617,167	1,724,129
April	977,496	544,155	1,361,187	1,515,407	1,724,400	1,310,723	2,577,086	3,009,310	1,401,366
May	1,196,496	540,160	778,958	1,063,490	1,660,581	1,212,654	2,603,622	1,071,816	1,766,419
June	858,186	576,791	637,826	551,286	1,411,733	2,491,360	1,517,076	1,598,126	1,128,400
July	1,008,148	571,476	806,335	503,868	1,160,841	1,681,932	1,037,000	1,751,812	1,043,032
August	611,941	1,197,658	764,652	1,320,574	1,297,906	1,549,880	931,329	1,026,774	887,709
September	1,086,073	1,130,403	696,443	2,465,300	1,538,583	980,463	966,586	1,425,910	986,100
October	953,025	1,310,132	955,535	1,613,858	1,481,161	1,054,687	971,709	1,240,903	897,483
November	1,012,316	1,013,466	753,803	1,322,593	1,372,833	1,012,422	1,245,956	953,266	1,054,833
December	1,922,929	2,076,363	896,903	2,257,632	1,686,839	1,855,090	1,643,680	1,680,290	1,350,677
Total flow (gpd)	14,380,530	11,492,938	13,593,015	17,021,936	17,475,581	18,145,642	18,694,353	19,790,460	16,560,246
Average daily (gpd)	1,198,378	957,745	1,132,751	1,418,495	1,456,298	1,512,137	1,557,863	1,649,205	1,380,021

Jackson Street

Month		2008	2009	2010	2011	2012	2013	2014	2015	2016
January		790,335	769,226	957,096	926,654	774,271	501,065	549,006	321,458	321,458
February		778,410	702,625	984,242	1,181,932	627,951	324,078	381,053	370,917	370,917
March		939,700	634,481	1,199,387	1,382,040	441,216	293,412	455,265	357,858	357,858
April		891,593	787,590	1,057,330	1,107,757	404,566	293,516	363,277	391,640	391,640
May		976,874	799,035	844,048	821,629	315,281	422,419	333,000	366,465	366,465
June		737,986	818,420	810,590	910,306	42,916	422,650	402,150	422,190	422,190
July		572,561	711,158	721,716	780,844	359,752	314,109	427,270	299,829	299,829
August		730,770	919,719	604,587	965,958	318,684	509,303	437,970	427,322	427,322
September		519,453	841,158	749,493	921,690	198,200	494,650	368,222	399,580	399,580
October		605,374	914,658	944,132	629,923	264,568	387,968	393,510	311,125	311,125
November		723,646	865,060	899,283	1,031,928	356,193	348,340	336,196	314,900	314,900
December		839,361	1,062,719	962,383	599,409	381,393	405,984	416,813	405,265	405,265
Total flow (gpd)		9,106,063	9,825,849	10,734,287	11,260,070	4,484,991	4,717,494	4,863,732	4,388,549	4,388,549
Average daily (gpd)		758,839	818,821	894,524	938,339	373,749	393,125	405,311	365,712	365,712

	2008	2009	2010	2011	2012	2013	2014	2015	2016
Average daily to NMWA (gpd)	1,957,216	1,776,566	2,027,275	2,356,834	1,830,048	1,905,261	1,963,174	2,014,917	1,745,733
Total precipitation (inch)	41.78	48.17	44.06	54.19	44.56	49.64	39.99	23.59	38.12

* 2015 Precipitation from www.accuweather.com for 19403
 **2016 precipitation from NMWA

ATTACHMENT F
INDUSTRIAL WASTES

INDUSTRIAL WASTES

All industrial wastes is required to meet the Industrial Pretreatment Standards of NWMA.

ATTACHMENT G
FLOW METER CALIBRATION REPORTS