



**WEST NORRITON TOWNSHIP  
MONTGOMERY COUNTY, PENNSYLVANIA**

**2015 Municipal Wasteload Management Report  
(Chapter 94 Report)**

**Prepared For:**

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

**March 2016**

**File No. 2016-02027T**

**Prepared By:**

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



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## CHAPTER 94 MUNICIPAL WASTELOAD MANAGEMENT ANNUAL REPORT

For Calendar Year: 2015

- 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><b>Check the appropriate boxes:</b></p> <p><input type="checkbox"/> Line graph for flows attached (<b>Attachment</b> )</p> <p><input type="checkbox"/> DEP Chapter 94 Spreadsheet used (<b>Attachment</b> )</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><b>Check the appropriate boxes:</b></p> <p><input type="checkbox"/> Line graph for organic loads attached (<b>Attachment</b> )</p> <p><input type="checkbox"/> DEP Chapter 94 Spreadsheet used (<b>Attachment</b> )</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><b>All flow is treated by Norritown Municipal Waste Authority at their wastewater treatment plant. See Attachment E.</b></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 2015. No new connections occurred in 2015.**

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).

<b>Jason Bobst, Township Manager</b>	
_____ Name of Responsible Official	_____ Signature
<b>(610) 631-0450</b>	<b>3-23-16</b>
_____ 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).

<b>Thomas J. Figaniak, P.E.</b>	
_____ Name of Preparer	_____ Signature
<b>(215) 345-4330</b>	<b>3-24-2016</b>
_____ Telephone No.	_____ Date

**ATTACHMENT A**

**ACTIVE, APPROVED AND PLANNED DEVELOPMENT**

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

NAME		Map Reference <sup>(1)</sup>	Drainage Basin	Status	Projected Buildout Schedule											
					Total EDUs	Total Flow <sup>(2)</sup>	2016		2017		2018		2019		2020	
Approved Developments							EDUs	Flow	EDUs	Flow	EDUs	Flow	EDUs	Flow	EDUs	Flow
1	The Reserve at Stoney Creek	1	Whitehall	Under Construction	51	14,535	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	10	2,850
3	Apartments at Schuylkill & Main Street	3	Rittenhouse	Approved	25	7,125	10	2,850	15	4,275	0	0	0	0	0	0
<b>Approved Sub Total EDUs / Flow</b>					<b>86</b>	<b>24,510</b>	30	8,550	35	9,975	11	3,135	0	0	10	2,850
<b>Approved EDU's issued to WNT from WNMA</b>					<b>120</b>											
<b>Remaining EDU's</b>					<b>34</b>											
Planned Developments							EDUs	Flow	EDUs	Flow	EDUs	Flow	EDUs	Flow	EDUs	Flow
4	Office Building at Egypt Road	4	Rittenhouse	In Planning Stages	10	2,850	0	0	0	0	10	2,850	0	0	0	0
5	Markley Farms	5	Whitehall	In Planning Stages	79	22,515	0	0	20	5,700	25	7,125	20	5,700	14	3,990
6	Fill in Lots and OLDs			As Needed	5	1,425	1	285	1	285	1	285	1	285	1	285
<b>Planned Sub Total EDUs / Flow</b>					<b>94</b>	<b>26,790</b>	1	285	21	5,985	36	10,260	21	5,985	15	4,275
<b>EDU's Needed</b>					<b>60</b>											
<b>TOTAL</b>					<b>180</b>	<b>51,300</b>	<b>31</b>	<b>8,835</b>	<b>56</b>	<b>15,960</b>	<b>47</b>	<b>13,395</b>	<b>21</b>	<b>5,985</b>	<b>25</b>	<b>7,125</b>

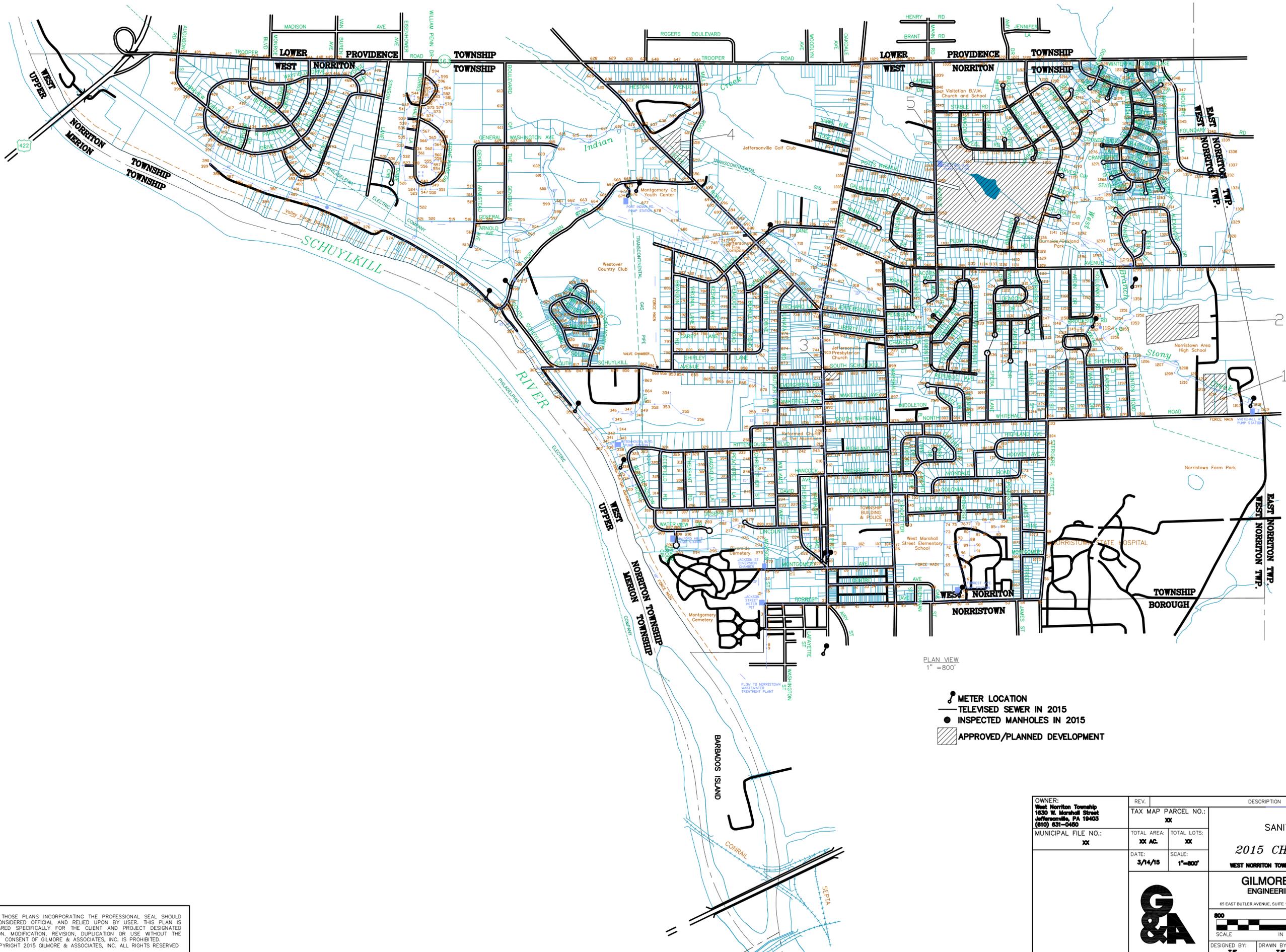
**Notes:**

(1) See Attachment B for Development locations

(2) Total Flow based on 1 EDU = 285 gpd

**ATTACHMENT B**  
**SANITARY SEWER SYSTEM MAP**

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- PLAN VIEW  
1" = 800'
- METER LOCATION
  - TELEVISED SEWER IN 2015
  - INSPECTED MANHOLES IN 2015
  - APPROVED/PLANNED DEVELOPMENT

ONLY THOSE PLANS INCORPORATING THE PROFESSIONAL SEAL SHOULD BE CONSIDERED OFFICIAL AND RELIED UPON BY USER. THIS PLAN IS PREPARED SPECIFICALLY FOR THE CLIENT AND PROJECT DESIGNATED HEREON. MODIFICATION, REVISION, DUPLICATION OR USE WITHOUT THE CONSENT OF GILMORE & ASSOCIATES, INC. IS PROHIBITED.  
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OWNER: West Norriton Township 1630 W. Marshall Street Jeffersonville, PA 19403 (610) 631-0460		REV.:	DESCRIPTION:	DATE:	BY:
MUNICIPAL FILE NO.:		TAX MAP PARCEL NO.:		SANITARY SEWER PLAN	
XX		XX		2015 CHAPTER 94 REPORT	
TOTAL AREA:		TOTAL LOTS:		WEST NORRITON TOWNSHIP, MONTGOMERY COUNTY, PENNSYLVANIA	
XX AC.		XX		GILMORE & ASSOCIATES, INC. ENGINEERING & CONSULTING SERVICES	
DATE:		SCALE:		CORPORATE HEADQUARTERS 65 EAST BUTLER AVENUE, SUITE 100, NEW BRITAIN, PA 18601 • (215) 345-4330 • www.gilmore-assoc.com	
3/14/15		1"=800'		JOB NO.: 2015-02027T	
DESIGNED BY:		DRAWN BY:		SHEET NO.:	
T.F.		T.F.		1 OF 1	



**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 2015 can be found within Attachment D.

**Collection System**

WNT is continuously working to remove Inflow & Infiltration (I&I) from the sanitary sewer system. During 2015, 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 during 2015. Repairs to the sanitary sewers and manholes are being prioritized. Corrective repair will commence thereafter.

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.

Table 2  
2015 Sewer Repairs From Televising

<u>Location</u>	<u>Manhole run</u>	<u>Pipe size</u>	<u>Length</u>	<u>Type of repair</u>
Galbraith Ave	MH1004 to MH1003	8 inch VCP	251.5 ft.	Lining
"	MH1003 to MH1002	"	250 ft.	Cleaning & remove sag
Miami Road	MH999 to MH998	8 inch VCP	281 ft.	Lining & fix sag
Rose Ave	MH1014 to MH1013	8 inch VCP	320 ft.	fix sag
"	MH1013 to MH1012	"	257 ft.	clean & remove sags
Lawn Ave.	MH1018 to MH1017	8 inch VCP	334.6 ft.	Lining and remove sags
"	MH1017 to MH1016	"	297 ft.	Lining and remove sags
Mystic Lane	MH488 to MH487	8 inch VCP	109 ft	OK
"	MH 487 to MH486	"	251 ft	Lining
"	MH493 to MH492	"	216 ft.	OK
"	MH491 to MH492	"	222 ft.	OK
"	MH490 to MH489	"	150 ft.	OK
"	MH489 to MH486	"	131 ft.	OK
Crawford Drive	MH1062 to Mh1063	8 inch VCP	257 ft.	fix sag
"	MH1062 to MH1061	"	107.1 ft.	fix sag
"	MH1061 to MH1060	"	430.60 ft.	cleaning & remove sags
"	MH1060 to MH1058	"	314.90 ft.	Lining
"	MH1059 to MH1058	"	257.1 ft.	lining & remove sags
"	MH1058 to MH1057	"	360 ft.	lining & remove sags
Galbrath Ave	MH1057 to MH1056	8 inch VCP	186.2 ft.	Fix Sags
"	MH1056 to MH1052	"	157.8 ft.	fix cracks - grout or line
"	MH1005 to MH1004	"	251.2 ft.	clean & remove sags
Weber Drive	MH1066 to MH1065	8 inch VCP	372 ft.	Fix Sags - major
"	MH1065 to MH1064	"	329 Ft.	OK
"	MH1064 to MH1057	"	201.3 ft.	clean & fix sags
Republic Ave.	MH969 to Mh968	"	291.7 ft.	Clean and remove sags
"	MH970 to MH969	"	278.3 Ft.	Crack in Pipe
"	MH972 to MH969	"	126.2 ft.	Lining or replace section
				OK

2015 Sewer Repairs From Televising

<u>Location</u>	<u>Manhole run</u>	<u>Pipe size</u>	<u>Length</u>	<u>Type of repair</u>
Liberty Ave	MH 1108 to MH1109	8 inch VCP	302 ft.	Lining and remove sags
"	MH1107 to MH 1108	"	300 ft	OK
"	MH1106 to 1107	"	303 ft.	Clean fix joint
"	MH1105 to ?	"	19.9	Clean pipe roots
"	MH935 to 930	"	277.6 ft.	Survey abandoned
"	MH 967 to MH966	"	357.2ft.	Clean fix joint
"	MH982 to MH981	"	205.1 ft.	Partial lining
"	MH983 to MH982	"	185.9 ft.	OK
"	MH981 to MH980	"	46.7 ft.	OK
"	MH980 to MH976	"	219.3 ft.	OK
"	MH979 to MH978	"	214 ft.	partial lining
"	MH978 to MH977	"	197.1 ft.	Clean & Line
"	MH977 to MH976	"	280.40 ft.	clean & partial line
"	MH979 to MH976	"	89.1 ft.	OK
Constitution Ave.	MH 966 to MH 965	8 inch VCP	107.3ft.	partial lining fractures
"	MH 965 to MH964	"	106.5ft.	pipe fracture repair
Clearview Ave.	Mh969 to MH968	8 inch VCP	291.7ft.	Fix sags and fracture
Burnside Ave.	MH1108 to MH1109	8 inch VCP	302.0 ft.	Partial lining
"	MH1107 to MH1108	"	300.0 ft.	OK
"	MH1106 to MH1107	"	303 ft.	Clean &Line portion
"	MH 1105 to ?	"	19.9 ft.	clean root balls
"	MH955 to MH956	"	250.1	fix sags
"	MH955 to MH949	"	290.3 ft.	OK
"	MH949 to MH948	"	123.9	OK
"	MH948 to MH947	"	227.7 ft.	OK
"	MH955 to MH949	"	280.1 ft.	Ok
"	MH949 to MH948	"	56.4 ft.	OK
"	MH948 to MH947	"	267.8 ft.	OK
"	MH924 to MH925	"	288.1 ft.	clean and joint repairs
"	MH925 to MH926	"	103.7 ft.	OK
Marshall Street	MH935 to MH930	8 inch VCP	277.6 ft.	Clean line
"	MH967 to MH966	"	357.2 ft.	partial lining
"	MH921 to MH920	"	252.8 ft.	OK
"	MH922 to MH921	"	283.5 ft.	partial lining
"	MH923 to MH922	"	166.2 ft.	OK
"	MH925 to MH920	"	227.1 ft.	Big sag
"	MH930 to MH925	"	159.8 ft.	OK
"	MH921 to MH920	"	160.9 ft.	OK
"	MH922 to MH921	"	263.1 ft.	OK

2015 Sewer Repairs From Televising

<u>Location</u>	<u>Manhole run</u>	<u>Pipe size</u>	<u>Length</u>	<u>Type of repair</u>
Davis Drive	MH1171 to Mh1170	8 inch VCP	159.0 ft.	OK
"	MH1170 to Mh1138	"	205.7 ft.	Clean & line
"	MH1135 to MH1138	"	399.5	partial line
"	MH1125 to Mh1124	"	177.2 ft.	Ok
"	MH1124 to MH1122	"	185.5 ft.	Partial lining
"	MH1122 to MH1121	"	299.0 ft.	line pipe
"	MH1123 to MH1122	"	135.0 ft.	Line pipe
"	MH1136 to MH1135	"	322.1 ft.	Hole in pipe to be repaired
Deacon Drive	MH1122 to MH1121	8 inch VCP	299.0 ft.	line pipe
"	MH1121 to MH1120	"	168.1ft.	line pipe
"	MH1120 to MH1119	"	184.0 ft.	OK
"	MH1119 to MH1118	"	153.8ft.	partial lining
"	MH1127 to MH1126	"	293.1ft.	OK
"	MH1126 to MH1118	"	153.9ft.	Clean & partial line
"	MH1118 to MH1117	"	173.0ft.	Partial line
"	MH1117 to MH1113	"	309.9ft.	line pipe
Strerigere Street	MH1109 to MH1110	8 inch VCP	110.9 ft.	minor crack
"	MH 1110 to Mh1111	"	220.3 ft.	line pipe
"	MH1111 to MH1112	"	250.9 ft.	line pipe
"	MH1112 to MH1113	"	298.9ft.	line pipe
"	Mh1113 to MH1147	"	119.10 ft.	Ok
Penfield Ave.	MH987 to MH986	8 inch VCP	358.9 ft.	line pipe
"	MH987 to MH986	"	349.5 ft.	Ok but Survey abandoned
James Street	MH1 to MH2	8 inch VCP	282.4 ft.	Partial lining
"	MH1146 to MH1145	"	400.5 ft.	OK
"	MH1145 to MH1144	"	372.1 ft.	OK
Plowshare Road	MH1221 to MH1222	8 inch VCP	296.7 ft.	OK
"	MH1222 to MH1223	"	296.9 ft.	OK
"	MH1223 to MH1222	"	278.9 ft.	OK
"	MH1223 to MH1124	"	207.4 ft.	OK
"	MH1124 to MH1125	"	199.2 ft.	OK
"	MH1125 to MH1126	"	127.3 ft.	OK
"	MH1126 to MH1127	"	106.7 ft.	OK
"	MH1127 to MH1127A	"	145.2 ft.	OK
"	MH1127A to MH1128	"	247.8 ft.	OK
Dairy Lane	MH1171 to MH1170	8 inch VCP	223.5 ft.	OK
"	MH1170 to MH1169	"	300.1 ft.	OK
"	MH1169 to MH1170	"	296.6 ft.	OK

2015 Sewer Repairs From Televising

<u>Location</u>	<u>Manhole run</u>	<u>Pipe size</u>	<u>Length</u>	<u>Type of repair</u>
Stable Road	MH1168 to MH1167	8 inch PVC	306.4 ft.	OK
"	MH1167 to MH1166	"	300.1 ft.	OK
"	MH1166 to MH1165	"	154.9 ft.	OK
"	MH 1183 to MH1182	"	182.1 ft.	OK
"	MH1045 to MH1044	8 inch VCP	312.7 ft.	OK
Ardin Drive	MH1161 to MH1160	8 inch VCP	440.1 ft.	Clean & line
"	MH1160 to MH1159	"	203.1 ft.	Clean & Line
"	MH1159 to MH1158	"	201.2 ft.	OK
Holloway Road	MH1156 to MH1155	8 inch VCP	245.1 ft.	Clean & Line
"	MH1155 to MH1154	"	294.1 ft.	Clean & line
"	MH1154 TO MH1153	"	350.9 ft.	OK
Brookside Road	MH1158 to MH1157	8 inch VCP	252.3 ft.	OK
"	MH1157 to MH1153	"	200.7 ft.	OK
Oakland Drive	MH1192 to MH1191	8 inch VCP	203.8 ft.	OK
"	MH1191 to MH1190	"	309.9 ft.	OK
"	MH1190 to MH1189	"	300.8 ft.	OK
"	MH1189 to MH1188	"	298.1 ft.	OK+
"	MH1187 to MH1186	"	258.1 ft.	sag in pipe
"	MH1154 to MH1186	"	203.4 ft.	Pipe repair required
"	MH1186 to MH1187	"	193.7 ft.	Clean pipe
"	MH1187 to MH1188	"	301.4 ft.	OK
"	MH1128 to MH1136	"	204.7 ft.	Repair sags
"	MH1128 to MH1129	"	185.2 ft.	OK
"	MH1136 to MH1137	"	243.4 ft.	OK
Easement off Oakland	MH1156 to MH1157	8 inch PVC	304.1 ft.	remove sag & line
"	MH1156 to MH1155	"	219.8	repair deformed pipe
"	MH1155 to MH1154	"	224.7 ft.	Clean & Line
Buggy Whip Circle	MH1185 to MH1184	8 inch PVC	300.1 ft.	OK
"	MH1184 to MH1182	"	155.3 ft.	OK
Singletree Lane	MH1182 to MH1181	8 inch PVC	193.2 ft.	OK
"	MH1181 to MH1180	"	216.2 ft.	OK
"	MH1180 to MH1179	"	212.2	OK

2015 Sewer Repairs From Televising

<u>Location</u>	<u>Manhole run</u>	<u>Pipe size</u>	<u>Length</u>	<u>Type of repair</u>
Harrow Circle	MH1177 to MH1176	8 inch PVC	148.1 ft.	OK
"	MH1176 to MH1156	"	188.2 ft.	OK
Wagon Wheel Road	MH1178 to MH1177	8 inch PVC	173.2 ft.	OK
"	MH1161 to MH1160	"	207.7	OK
"	MH1160 to MH1159	"	299.9 ft.	OK
"	MH1159 to MH1158	"	301.1 ft.	OK
"	MH1158 to MH1157	"	274.1 ft.	OK
"	MH1174 to MH1173	"	138.9 ft.	OK
"	MH1173 to MH1172	"	202.6 ft.	OK
"	MH1172 to MH1159	"	201.4 ft.	OK
"	MH1159 to MH1161	"	200.1 ft.	OK
"	MH1165 to MH1164	"	225.1 ft.	OK
"	MH1164 to MH1163	"	314.1 ft.	OK
"	MH1163 to MH1162	"	173.6 ft.	OK
"	MH1162 to MH1161	"	139.8 ft.	OK
easement of wagon wheel	MH1161 to MH1160	8 inch PVC	207.7 ft.	OK
Harvest Circle	MH1153 to MH1152	8 inch PVC	124.4 ft.	OK
Horseshoe Road	MH1200 to MH1199	8 inch VCP	300.1 ft.	OK
"	MH1198 to MH1197	"	118.1 ft.	OK
"	MH1197 to MH1196	"	89.9 ft.	OK
Clearview Ave.	MH969 to MH968	8 inch VCP	290.0ft.	OK
"	MH968 to MH996	"	282.5 ft.	line partial pipe
"	MH964 to MH963	"	367.1 ft.	reinstate tap & part. Line
"	MH957 to MH959	"	145.3 ft.	OK
"	MH957 to MH958	"	98.4 ft.	Line pipe
"	MH958A to MH958	"	89.8 ft.	Partial line
"	MH959 to MH960	"	81.7 ft.	OK
"	MH960 to MH961	"	327.2 ft.	repair sag in line
"	MH961 to MH962	"	272.1 ft	repair sags in line
"	MH962 to MH963	"	125.9 ft.	Clean line
"	MH963 to MH1133	"	140.6 ft.	Clean line
"	MH1132 to MH1133	"	169.9 ft.	Repair sags in line
Country Circle	MH1175 to MH	8 inch PVC	200.7 ft.	sag in line & tap break in intruding 5" survey abandoned

2015 Sewer Repairs From Televising

<u>Location</u>	<u>Manhole run</u>	<u>Pipe size</u>	<u>Length</u>	<u>Type of repair</u>
Bishop Drive	MH1132 to MH1131	8 inch VCP	256.3 ft.	OK
"	MH1131 to MH1130	"	127.0 ft.	OK
"	MH1130 to MH1129	"	145.1 ft.	OK
"	MH1129 to MH1128	"	239.9 ft.	Clean roots & Spot repair
"	MH 1128 to MH1147	"	371.1 ft.	Clean pipe Hvy grease
Cardinal Drive	MH1134 to MH1130	8 inch VCP	369.4 ft.	Sag in pipe fix
"	MH 1143 to MH1142	"	250.5 ft.	clean roots
"	MH 1142 to MH1141	"	240.7 ft.	clean roots
"	MH1141 to MH1140	"	173.3 ft.	clean roots, spot fix cracks
Prelate Drive	MH1138 to MH1128	8 inch VCP	401.8 ft.	Clean roots
"	MH1144 to MH1139	"	335.4 ft.	Clean roots,Sags Fix, spot fix brake
"	MH1139 to MH1138	"	25.1 ft.	Sags fix
	MH1139 to MH1138	"	63.8 ft.	OK
	MH1140 to MH1139	"	208.1 ft.	Clean roots
Larkin Drive	MH1041 to MH1040	8 inch VCP	391.1 ft.	Runner spot repair
Chestnut Ave.	MH1039 to MH1040	8 inch VCP	203.7 ft.	OK
	MH1042 to MH1043	8 inch VCP	301.0 ft.	OK
	MH1043 to MH1044	8 inch VCP	83.3 ft.	Runner spot repair
	MH1044 to MH1046	8 inch VCP	279.2 ft.	OK
	MH1046 to MH1047A	8 inch VCP	19.8 ft	OK
	MH1047A to MH1047	8 inch VCP	357.1 ft.	bad joint at 139 ft runner
Oakland Drive	Mh1138 to MH1137	8 inch VCP	200.3 ft.	OK
Craftsman Road	MH1282 to MH1281	8 inch PVC	226.3 ft.	OK
"	MH1281 to MH1280	"	268.3 ft.	OK
"	MH1280 to MH1279	"	211.1 Ft.	OK
Hillendale Road	MH 1286 to MH1285	8 inch PVC	115.5 ft.	OK
"	MH1285 to MH1279	"	285.1 ft.	OK
"	MH1242 to MH1241	"	87.0 ft.	OK
"	MH1241 to MH1240	"	303.1 ft.	OK
Countryside Lane	MH1279 to MH1278	8 inch PVC	206.1 ft.	OK
"	MH1278 to MH1277	"	130.1 ft.	OK
	MH1240 to MH1238	"	260.6 ft.	Sags fix

2015 Sewer Repairs From Televising

<u>Location</u>	<u>Manhole run</u>	<u>Pipe size</u>	<u>Length</u>	<u>Type of repair</u>
Fieldcrest Ave.	MH1239 to MH1238	8 inch PVC	129.9 ft.	OK
"	MH1234 to MH1230	"	161.9 ft.	"
"	MH1233 to MH1230	"	292.1 ft.	OK
"	MH1238 to MH1230	"	159.1 ft.	sags in Pipe fix
Treetop Lane	MH1291 to 1290	8 inch PVC	154.1 ft.	OK
"	MH1290 to MH1288	8 inch PVC	139.1 ft.	"
"	MH1288 to MH1287	8 inch PVC	92.9 ft.	"
"	MH1287 to MH1286	8 inch PVC	263.1 ft.	"
Norrington Drive	MH1289 to MH1288	8 inch PVC	223.1 ft.	OK
"	MH1248 to MH1247	"	128.8 ft.	OK
"	MH1247 to MH1246	"	241.6 ft.	OK
"	MH1283 to MH1282	"	192.4 ft.	OK
"	MH1284 to MH1283	"	134.6 ft.	OK
Barnwood Circle	MH1140A to MH1140	8 inch VCP	302.1 ft.	OK
"	MH1140 to MH1139	"	93.6 ft.	OK
Greentree Lane	MH1246 to MH1245	8 inch PVC	196.8 ft.	Sag in Pipe fix
"	MH1245 to MH1240	"	211.7 ft.	OK
Snowflake Circle	MH1237 to MH1236	8 inch PVC	248.1 ft.	OK
Winterfall Ave.	MH1236 to MH1235	8 inch PVC	287.1 ft.	OK
Sandlewood lane	MH1244 to MH1243	8 inch PVC	191.1 ft.	OK
"	MH1243 to MH1241	"	128.9 ft.	OK
Sterigere St.	MH1177 to MH1176	8 inch VCP	41.0 ft.	OK
"	MH1176 to MH1175	"	224.2 ft.	Clean, fix sags
"	MH1175 to MH1174	"	317.7 ft.	OK
"	MH1174 to MH1173	"	309.3 ft.	Clean roots
"	MH1173 to MH1166	"	361.1 ft.	Clean roots
"	MH1115 to MH1114	"	237.5 ft.	Clean roots
"	MH1114 to MH1147	"	23809 ft.	OK

2015 Sewer Repairs From Televising

<u>Location</u>	<u>Manhole run</u>	<u>Pipe size</u>	<u>Length</u>	<u>Type of repair</u>
Wayne Drive	MH1165 to MH1162	8 inch VCP	252.3 ft.	OK
"	MH1166 to MH1165	"	165.5 ft.	Sags fix
"	MH1162 to MH1149	"	201.8 ft.	OK
"	MH1181 to MH1183	"	72.82 ft.	OK
"	MH1181 to MH1182	"	260.73 ft.	OK
"	MH1181 to MH1180	"	88.1 ft.	OK
"	MH1163 to MH1164	"	107.64 ft.	OK
"	MH1163 to MH1162	"	47.92 ft.	OK
"	MH1178 to MH1179	"	219.1 ft.	OK
"	MH1178 to MH1180	"	190.6 ft.	OK
"	MH 1178 to MH1152	"	171.83 Ft.	Needs cleaned very greasy
Dragon Circle	MH1232 to MH1231	8 inch PVC	227.7 ft.	OK
"	MH1229 to MH1228	"	86.8 ft.	OK
"	MH1230 to MH1229	"	288.3 ft.	OK
"	MH1228 to Mh 1207	"	169.4 ft.	OK
Trooper Road	MH1221 to MH1220	8 inch VCP	212.6 ft.	Line pipe
"	MH1222 to MH1221	"	204.4 ft.	Clean roots
"	MH1220 to MH1219	"	262.3 ft.	Line pipe

**Table 3**  
**West Norriton Township**  
**2015 Sanitary Sewer Manholes Inspected**

<u>Manhole Number</u>	<u>Depth</u>	<u>Street Name</u>	<u>Diameter</u>	<u>Condition</u>	<u>Notes</u>
982	114 inches	Liberty Ave.	48 inches	Good	Could not open
983		"	"	"	
942	115 inches	"	"		
941	89 inches	"	"	"	
	151 inches	"	"	"	
959	74 inches	"	"	"	
958	72 inches	"	"	"	
979	71 inches	"	"	"	
977	137 inches	"	"	"	
978	122 inches	"	"	"	
975	145 inches	"	"	"	
976	155 Inches	"	"	"	
980	107 inches	"	"	"	
961	160 inches	Clearview Ave.	"	"	
960	159 inches	"	"	"	
959	153 Inches	"	"	"	
984	94 inches	Union Street	"	"	
989	93 inches	"	"	"	
981	108 inches	"	"	"	
971	75 inches	Republic Ave.	"	"	
970	77 inches	"	"	"	
		Country Circle			
1165	96 inches	Stabile Road	"	"	
1280	81 inches	Craftsman Road	"	good	
1281	88 inches	"	"	good	
?	86 inches	Cardinal Circle	"	good	
1277	104 inches	Countryside lane	"	fair	Fix this open
1285	90 inched	Hillendale Drive		good	

**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) 2015 Monthly Average / Peak	Additional EDUs Projected in Next 2 Years	Projected Flow in Next 2 Years (mgd) Average / Peak
Rittenhouse Boulevard	2015	3	Fairbanks-Morse	Variable	2500 gpm @124 ft. TDH	3,680 gpm - 5.3 mgd with 2 pumps	Yes	Yes	3,197	1.65 / 3.01	85 EDUs / 24,225 gpd / 0.02 mgd	1.67 / 3.03
Chesnut Avenue	2004	2	Hydromatic	Fixed	180 gpm @30 ft. TDH	180 gpm - 0.259 mgd	Yes	Yes	280	0.06 / 0.09	0	0.06 / 0.09
Whitehall Road	1994	3	Fairbanks-Morse	Variable	1750 gpm @220 ft. TDH	2625 gpm - 3.78 mgd with 2 pumps	Yes	Yes	1,550	0.47 / 0.84	60 EDUs / 17,100 gpd / 0.02 mgd	0.49 / 0.86
Forrest Avenue	1987	2	Chicago	Fixed	600 gpm @63 ft. TDH	600 gpm - 0.864 mgd	No	Yes	530	0.14 / 0.20	0	0.14 / 0.20
Port Indian Road	1999	2	Fairbanks-Morse	Fixed	1000 gpm @113 ft. TDH	1000 gpm -1.44 mgd	Yes	Yes	1,230	0.31 / 0.58	0	0.31 / 0.58
Halford Hills	1995	2	Hydromatic	Fixed	25 gpm @50 ft. TDH	25 gpm - 0.036 mgd	No	No	10	0.0027 / 0.0032	0	0.0027 / 0.0032

1 EDU = 285 gpd

**TABLE 5**  
**PUMP STATIONS MONTHLY AVERAGE DAILY FLOWS**  
**WEST NORRITON TOWNSHIP**

<b>Month</b>	<b>Rittenhouse Blvd (gpd)</b>	<b>Whitehall Road (gpd)</b>	<b>Port Indian Road (gpd)</b>	<b>Forrst Avenue (gpd)</b>	<b>Chestnut Avenue (gpd)</b>	<b>Halford Hills (gpd)</b>
January	1,765,629	568,845	357,758	157,680	67,742	2,460
February	1,649,457	533,986	357,758	139,320	60,943	2,595
March	2,617,167	839,661	579,883	200,880	89,064	3,195
April	3,009,310	527,743	338,923	150,120	61,660	2,445
May	1,071,816	364,716	206,303	114,480	51,622	2,430
June	1,598,126	491,073	324,486	138,240	63,630	2,919
July	1,751,812	494,503	388,009	167,760	64,655	2,610
August	1,026,774	352,565	194,052	109,800	47,100	2,550
September	1,425,910	316,893	189,403	111,600	50,113	2,370
October	1,240,903	374,652	232,013	129,600	59,123	2,430
November	953,266	328,783	190,173	115,920	53,837	3,180
December	1,680,290	511,822	379,939	168,120	78,858	2,940
<b>Average</b>	<b>1,649,205</b>	<b>475,437</b>	<b>311,558</b>	<b>141,960</b>	<b>62,362</b>	<b>2,677</b>

**2015 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	107.88	3.48	138.00	4.48	2,100,000	67,742
2/1/2015 - 3/1/2015	88.55	3.16	117.23	4.18	1,706,400	60,943
3/1/2015 - 4/1/2015	128.15	4.13	197.08	6.36	2,761,000	89,064
4/1/2015 - 5/1/2015	74.01	2.47	133.70	4.45	1,939,800	64,660
5/1/2015 - 6/1/2015	58.72	1.89	115.31	3.72	1,600,300	51,622
6/1/2015 - 7/1/2015	77.96	2.59	133.81	4.46	1,908,900	63,630
7/1/2015 - 8/1/2015	86.26	2.78	131.96	4.25	2,004,300	64,655
8/1/2015 - 9/1/2015	69.58	2.24	89.41	2.88	1,460,100	47,100
9/1/2015 - 10/1/2015	77.48	2.58	92.60	3.09	1,503,400	50,113
10/1/2015 - 11/1/2015	97.57	3.15	116.46	3.76	1,832,800	59,123
11/1/2015 - 12/1/2015	84.45	2.81	113.57	3.78	1,615,100	53,837
12/1/2015 - 1/1/2016	123.4	3.98	174.93	5.64	2,444,600	78,858
					<b>Average</b>	<b>62,612</b>

Months	Comments
February	Meter Guys in to calibrate flow meter.
May	McGovern in to clean out wet well. Meter Guys in to Calibrate flow meter at pump station
September	Meter Guys in to calibrate flow meter.
October	McGovern in to clean and power wash the wet well.
December	Meter Guys in to calibrate flow meter. New transducer installed in the wet well by Sealy

**2015 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	267.70	8.64	287.00	9.26	199.30	6.43	17,634,200	568,845
2/1/2015 - 3/1/2015	244.50	8.73	201.90	7.21	215.40	7.69	14,951,600	533,986
3/1/2015 - 4/1/2015	213.90	6.90	360.60	11.63	225.20	7.26	26,029,500	839,661
4/1/2015 - 5/1/2015	353.00	11.80	270.00	9.00	100.00	3.33	15,832,300	527,743
5/1/2015 - 6/1/2015	305.80	9.86	362.10	11.68	72.70	2.35	11,306,200	364,716
6/1/2015 - 7/1/2015	177.00	5.90	315.00	10.50	245.40	8.18	14,732,200	491,073
7/1/2015 - 8/1/2015	108.80	3.51	330.70	10.67	142.00	4.58	15,329,600	494,503
8/1/2015 - 9/1/2015	---	---	322.70	10.40	372.60	12.02	10,929,500	352,565
9/1/2015 - 10/1/2015	---	---	308.70	10.29	392.10	13.07	9,506,800	316,893
10/1/2015 - 11/1/2015	220.80	7.12	192.30	6.20	364.10	11.74	11,514,200	374,652
11/1/2015 - 12/1/2015	177.40	5.91	462.00	15.40	24.00	0.80	9,863,500	328,783
12/1/2015 - 1/1/2016	129.30	4.17	606.70	19.57	0.90	0.03	1,586,650	511,822
							Average	475,437

Months	Comments
February	Meter guys in to calibrate flow meter.
March	PENN Power in to service generator. Sealy replaced limit switch on #3 pump check valve.
May	Meter guys in to calibrate flow meter.
June	Airline replaced in control panel on pump #1 by Sealy. New pillow block bearing installed on pump #3.
July	Sealy pulled pump #1 and sent out for repair.
September	Meter guys in to calibrate flow meter. Pump #1 motor sent out for repair.
October	Pump #1 motor was installed. New wet well tank and sump pump in dry well. Sealy changed limit switches on all 3 pumps. New starter installed in #2 pump. New dialer installed at the station. Sealy installed pump #1 and removed pump #2 for repair.
November	Sealy installed pump #2. McGovern cleaned the wetwell. Comminutor is off and needs to be pulled out.
December	Meter guy in to calibrate the flow meter. Sealy reinstalled pump #3 in drywell.

**2015 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	68.50	2.21	79,560	67.30	2.17	78,120	4,888,800	157,680
2/1/2015 - 3/1/2015	57.20	2.04	73,440	51.20	1.83	65,880	3,902,400	139,320
3/1/2015 - 4/1/2015	87.40	2.82	101,520	85.70	2.76	99,360	6,231,600	200,880
4/1/2015 - 5/1/2015	64.30	2.14	77,040	61.00	2.03	73,080	4,510,800	150,120
5/1/2015 - 6/1/2015	50.00	1.61	57,960	48.90	1.57	56,520	3,560,400	114,480
6/1/2015 - 7/1/2015	58.40	1.94	69,840	57.20	1.90	68,400	4,161,600	138,240
7/1/2015 - 8/1/2015	74.30	2.39	86,040	70.60	2.27	81,720	5,216,400	167,760
8/1/2015 - 9/1/2015	47.30	1.53	55,080	47.40	1.52	54,720	3,409,200	109,800
9/1/2015 - 10/1/2015	46.60	1.55	55,800	46.40	1.55	55,800	3,348,000	111,600
10/1/2015 - 11/1/2015	55.80	1.83	65,880	55.40	1.77	63,720	4,003,200	129,600
11/1/2015 - 12/1/2015	48.80	1.63	58,680	47.80	1.59	57,240	3,477,600	115,920
12/1/2015 - 1/1/2016	30.60	0.99	35,640	114.40	3.68	132,480	5,220,000	168,120
							Average	141,960

Months	Comments
March	PENN Power in to service generator
October	Cleaned sewer lines into wetwell. McGovern in to clean wetwell, grease pumps, motors and shafts also cleaned
December	Sealy removed #1 pump for service.

**2015 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	118.63	3.83	102.78	3.32	11,090,500	357,758
2/1/2015 - 3/1/2015	98.78	3.53	92.29	3.29	11,090,500	357,758
3/1/2015 - 4/1/2015	190.74	6.15	179.29	5.78	17,976,400	579,883
4/1/2015 - 5/1/2015	102.97	3.43	104.77	3.49	10,167,700	338,923
5/1/2015 - 6/1/2015	65.11	2.10	64.08	2.07	6,395,400	206,303
6/1/2015 - 7/1/2015	91.87	3.06	89.71	2.99	9,734,600	324,486
7/1/2015 - 8/1/2015	118.61	3.86	116.02	3.74	12,028,300	388,009
8/1/2015 - 9/1/2015	61.53	1.98	59.69	1.93	6,015,600	194,052
9/1/2015 - 10/1/2015	57.29	1.90	57.09	1.90	5,682,100	189,403
10/1/2015 - 11/1/2015	68.62	2.21	85.85	2.76	7,192,400	232,013
11/1/2015 - 12/1/2015	57.89	1.93	76.04	2.53	5,705,200	190,173
12/1/2015 - 1/1/2016	66.74	2.15	168.05	5.42	11,778,100	379,393
					Average	311,513

Date	Comments
February	Meter guys in to calibrate flow meter
March	Sealy pulled #2 pump and replaced gasket on pump volute. Penn Power in to service generator
May	Meter guys in to calibrate flow meter
July	PENN Power in to install new exercise timer on the generator
September	Meter guys in to calibrate flow meter
October	McGovern cleaned and power washed wetwell. PENN Power in for a check - Needs new fuel pump on generator
November	Sealy installed new float in wetwell, replaced a quick connect gasket on pump #1 in wetwell.
December	Meter guys in to calibrate flow meter. Sealy removed pump #1 for repair

**2015 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	28.32	0.91	1,365	22.74	0.73	1,095	76,590	2,460
2/1/2015 - 3/1/2015	26.71	0.95	1,425	21.92	0.78	1,170	72,945	2,595
3/1/2015 - 4/1/2015	35.35	1.14	1,710	30.71	0.99	1,485	99,090	3,195
4/1/2015 - 5/1/2015	27.40	0.91	1,365	21.67	0.72	1,080	73,605	2,445
5/1/2015 - 6/1/2015	26.99	0.87	1,305	23.21	0.75	1,125	75,300	2,430
6/1/2015 - 7/1/2015	31.98	1.07	1,599	26.44	0.88	1,320	87,630	2,919
7/1/2015 - 8/1/2015	30.20	0.97	1,455	24.01	0.77	1,155	81,315	2,610
8/1/2015 - 9/1/2015	28.48	0.91	1,365	24.59	0.79	1,185	79,605	2,550
9/1/2015 - 10/1/2015	25.89	0.86	1,290	21.68	0.72	1,080	71,355	2,370
10/1/2015 - 11/1/2015	27.68	0.89	1,335	22.78	0.73	1,095	75,690	2,430
11/1/2015 - 12/1/2015	30.99	1.30	1,950	24.84	0.82	1,230	83,745	3,180
12/1/2015 - 1/1/2016	33.29	1.07	1,605	27.64	0.89	1,335	91,395	2,940
							Average	2,677

Months	Comments
May	McGovern in to haul out and clean the wetwell at the pump station.

**2015 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	226.30	7.30	216.04	6.96	335.54	10.82	54,734,500	1,765,629
2/1/2015 - 3/1/2015	281.53	10.05	193.31	6.90	218.62	7.81	46,184,800	1,649,457
3/1/2015 - 4/1/2015	220.54	7.11	356.17	11.49	319.65	10.31	81,132,200	2,617,167
4/1/2015 - 5/1/2015	293.76	9.79	193.53	6.45	245.54	8.18	90,279,300	3,009,310
5/1/2015 - 6/1/2015	163.25	5.27	382.88	12.35	274.66	8.86	33,226,300	1,071,816
6/1/2015 - 7/1/2015	248.89	8.29	279.45	9.32	262.09	8.73	47,943,800	1,598,126
7/1/2015 - 8/1/2015	347.71	11.22	247.37	7.98	138.29	4.46	54,306,200	1,751,812
8/1/2015 - 9/1/2015	315.68	10.18	201.83	6.51	148.52	4.79	31,830,000	1,026,774
9/1/2015 - 10/1/2015	156.50	5.22	112.70	3.76	160.60	5.35	42,777,300	1,425,910
10/1/2015 - 11/1/2015	201.40	6.49	162.70	5.25	185.70	5.99	38,468,000	1,240,903
11/1/2015 - 12/1/2015	100.00	3.33	198.60	6.62	157.70	5.26	28,598,000	953,266
12/1/2015 - 1/1/2016	226.10	7.29	285.90	9.22	179.70	5.79	52,089,000	1,680,290
							Average	1,649,205

Months	Comments
February	Meter guys in to calibrate flow meter
March	PENN Power in to service generator. Sealy replaced cooling fan motor on pump #1
May	Meter guys in to calibrate flow meter
June	Sealy replaced fan motor on pump #1
July	Phone line was repaired at the pump station. Sealy replaced the limit switch on check valve #3.
September	Begin new station start up on 9/23. (Total Flow reported for 9/23-9/30)
December	Meter guys in to calibrate flow meter

**Note**

Total Run hours for each pump for September are only for 9/23-9/30 for the new pumps. No data was available for old pumps form 9/1 to 9/22.

**CHESTNUT AVENUE**

**Operator: Ed Chelius**

**Date: January 2015**

<b><u>Item</u></b>	<b><u>Priority</u></b>	<b><u>Remarks</u></b>
<b><u>Control Panel</u></b>		
Level Controls	3	
Backup System	3	
<b><u>#1 Pump</u></b>		
Operation	3	
Check Valve	3	
Valving	3	
<b><u>#2 Pump</u></b>		
Operation	3	
Check Valve	3	
Valving	3	
<b><u>Generator</u></b>		
Operational	3	
Generator Run Hours	<u>1.34</u>	
<b><u>Air Relief Valve</u></b>		
Operation	3	
<b><u>Auto Dialer</u></b>		
Operational	3	
<b><u>Wetwell</u></b>		
Condition	3	
<b><u>Building Condition</u></b>		
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
1/1/2015 – 2/1/2015	107.88	3.48	138	4.45

DATE	TOTAL GALLONS	GALLONS/DAY
1/1/2015 - 2/1/2015	2,100,000	67,742

**Comments: Generator hours=1.34**

**CHESTNUT AVENUE**

**Operator: Ed Chelius**

**Date: February 2015**

<b><u>Item</u></b>	<b><u>Priority</u></b>	<b><u>Remarks</u></b>
<b><u>Control Panel</u></b>		
Level Controls	3	
Backup System	3	
<b><u>#1 Pump</u></b>		
Operation	3	
Check Valve	3	
Valving	3	
<b><u>#2 Pump</u></b>		
Operation	3	
Check Valve	3	
Valving	3	
<b><u>Generator</u></b>		
Operational	3	
Generator Run Hours	<u>1.67</u>	
<b><u>Air Relief Valve</u></b>		
Operation	3	
<b><u>Auto Dialer</u></b>		
Operational	3	
<b><u>Wetwell</u></b>		
Condition	3	
<b><u>Building Condition</u></b>		
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
2/1/2015 – 3/1/2015	88.55	3.16	117.23	4.18

<u>DATE</u>	<u>TOTAL GALLONS</u>	<u>GALLONS/DAY</u>
2/1/2015 - 3/1/2015	1,706,400	60,943

**Comments: Generator hours=1.67**

2/20/2015 – Meter guys in to calibrate flow meter.

**CHESTNUT AVENUE**

**Operator: Ed Chelius**

**Date: March 2015**

<b><u>Item</u></b>	<b><u>Priority</u></b>	<b><u>Remarks</u></b>
<b><u>Control Panel</u></b>		
Level Controls	3	
Backup System	3	
<b><u>#1 Pump</u></b>		
Operation	3	
Check Valve	3	
Valving	3	
<b><u>#2 Pump</u></b>		
Operation	3	
Check Valve	3	
Valving	3	
<b><u>Generator</u></b>		
Operational	3	
Generator Run Hours	<u>2.05</u>	
<b><u>Air Relief Valve</u></b>		
Operation	3	
<b><u>Auto Dialer</u></b>		
Operational	3	
<b><u>Wetwell</u></b>		
Condition	3	
<b><u>Building Condition</u></b>		
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
3/1/2015 – 4/1/2015	128.15	4.13	197.08	6.36

DATE	TOTAL GALLONS	GALLONS/DAY
3/1/2015 - 4/1/2015	2,761,000	89,064

**Comments: Generator hours=2.05**

**CHESTNUT AVENUE**

**Operator: Ed Chelius**

**Date: April 2015**

<b><u>Item</u></b>	<b><u>Priority</u></b>	<b><u>Remarks</u></b>
<b><u>Control Panel</u></b>		
Level Controls	3	
Backup System	3	
<b><u>#1 Pump</u></b>		
Operation	3	
Check Valve	3	
Valving	3	
<b><u>#2 Pump</u></b>		
Operation	3	
Check Valve	3	
Valving	3	
<b><u>Generator</u></b>		
Operational	3	
Generator Run Hours	<u>1.34</u>	
<b><u>Air Relief Valve</u></b>		
Operation	3	
<b><u>Auto Dialer</u></b>		
Operational	3	
<b><u>Wetwell</u></b>		
Condition	3	
<b><u>Building Condition</u></b>		
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
4/1/2015 – 5/1/2015	74.01	2.467	133.7	4.45

DATE	TOTAL GALLONS	GALLONS/DAY
4/1/2015 - 5/1/2015	1,939,800	64,660

**Comments: Generator hours=1.34**

**CHESTNUT AVENUE**

**Operator: Ed Chelius**

**Date: May 2015**

<b><u>Item</u></b>	<b><u>Priority</u></b>	<b><u>Remarks</u></b>
<b><u>Control Panel</u></b>		
Level Controls	3	
Backup System	3	
<b><u>#1 Pump</u></b>		
Operation	3	
Check Valve	3	
Valving	3	
<b><u>#2 Pump</u></b>		
Operation	3	
Check Valve	3	
Valving	3	
<b><u>Generator</u></b>		
Operational	3	
Generator Run Hours <u>2.85</u>		
<b><u>Air Relief Valve</u></b>		
Operation	3	
<b><u>Auto Dialer</u></b>		
Operational	3	
<b><u>Wetwell</u></b>		
Condition	3	
<b><u>Building Condition</u></b>		
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
5/1/2015 – 6/1/2015	58.72	1.89	115.31	3.72

DATE	TOTAL GALLONS	GALLONS/DAY
5/1/2015 - 6/1/2015	1,600,300	51,622

**Comments: Generator hours= 2.85**

5/19/15 McGovern in to clean out wet well.

5/29/15 Meter guys in to calibrate flow meter at pump station

**CHESTNUT AVENUE**

**Operator: Ed Chelius**

**Date: June 2015**

<b><u>Item</u></b>	<b><u>Priority</u></b>	<b><u>Remarks</u></b>
<b><u>Control Panel</u></b>		
Level Controls	3	
Backup System	3	
<b><u>#1 Pump</u></b>		
Operation	3	
Check Valve	3	
Valving	3	
<b><u>#2 Pump</u></b>		
Operation	3	
Check Valve	3	
Valving	3	
<b><u>Generator</u></b>		
Operational	3	
Generator Run Hours	<u>1.33</u>	
<b><u>Air Relief Valve</u></b>		
Operation	3	
<b><u>Auto Dialer</u></b>		
Operational	3	
<b><u>Wetwell</u></b>		
Condition	3	
<b><u>Building Condition</u></b>		
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
6/1/2015 – 7/1/2015	77.96	2.59	133.81	4.46

DATE	TOTAL GALLONS	GALLONS/DAY
6/1/2015 - 7/1/2015	1,908,900	63,630

**Comments: Generator hours= 1.33**

**CHESTNUT AVENUE**

**Operator: Ed Chelius**

**Date: July 2015**

<b><u>Item</u></b>	<b><u>Priority</u></b>	<b><u>Remarks</u></b>
<b><u>Control Panel</u></b>		
Level Controls	3	
Backup System	3	
<b><u>#1 Pump</u></b>		
Operation	3	
Check Valve	3	
Valving	3	
<b><u>#2 Pump</u></b>		
Operation	3	
Check Valve	3	
Valving	3	
<b><u>Generator</u></b>		
Operational	3	
Generator Run Hours	<u>1.34</u>	
<b><u>Air Relief Valve</u></b>		
Operation	3	
<b><u>Auto Dialer</u></b>		
Operational	3	
<b><u>Wetwell</u></b>		
Condition	3	
<b><u>Building Condition</u></b>		
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
7/1/2015 – 8/1/2015	86.26	2.78	131.96	4.25

DATE	TOTAL GALLONS	GALLONS/DAY
7/1/2015 - 8/1/2015	2,004,300	64,655

**Comments: Generator hours= 1.34**

**CHESTNUT AVENUE**

**Operator: Ed Chelius**

**Date: August 2015**

<b><u>Item</u></b>	<b><u>Priority</u></b>	<b><u>Remarks</u></b>
<b><u>Control Panel</u></b>		
Level Controls	3	
Backup System	3	
<b><u>#1 Pump</u></b>		
Operation	3	
Check Valve	3	
Valving	3	
<b><u>#2 Pump</u></b>		
Operation	3	
Check Valve	3	
Valving	3	
<b><u>Generator</u></b>		
Operational	3	
Generator Run Hours	<u>1.31</u>	
<b><u>Air Relief Valve</u></b>		
Operation	3	
<b><u>Auto Dialer</u></b>		
Operational	3	
<b><u>Wetwell</u></b>		
Condition	3	
<b><u>Building Condition</u></b>		
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
8/1/2015 – 9/1/2015	69.58	2.24	89.41	2.88

DATE	TOTAL GALLONS	GALLONS/DAY
8/1/2015 - 9/1/2015	1,460,100	47,100

**Comments: Generator hours= 1.31**

Fill generator with fuel this month.

**CHESTNUT AVENUE**

**Operator: Ed Chelius**

**Date: September 2015**

<b><u>Item</u></b>	<b><u>Priority</u></b>	<b><u>Remarks</u></b>
<b><u>Control Panel</u></b>		
Level Controls	3	
Backup System	3	
<b><u>#1 Pump</u></b>		
Operation	3	
Check Valve	3	
Valving	3	
<b><u>#2 Pump</u></b>		
Operation	3	
Check Valve	3	
Valving	3	
<b><u>Generator</u></b>		
Operational	3	
Generator Run Hours	<u>0.94</u>	
<b><u>Air Relief Valve</u></b>		
Operation	3	
<b><u>Auto Dialer</u></b>		
Operational	3	
<b><u>Wetwell</u></b>		
Condition	3	
<b><u>Building Condition</u></b>		
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
9/1/2015 – 10/1/2015	77.48	2.58	92.6	3.09

DATE	TOTAL GALLONS	GALLONS/DAY
9/1/2015 - 10/1/2015	1,503,400	50,113

**Comments: Generator hours= 0.94**

9/1/15 – Meter Guys in to calibrate flow meter.

**CHESTNUT AVENUE**

**Operator: Ed Chelius**

**Date: October 2015**

<b><u>Item</u></b>	<b><u>Priority</u></b>	<b><u>Remarks</u></b>
<b><u>Control Panel</u></b>		
Level Controls	3	
Backup System	3	
<b><u>#1 Pump</u></b>		
Operation	3	
Check Valve	3	
Valving	3	
<b><u>#2 Pump</u></b>		
Operation	3	
Check Valve	3	
Valving	3	
<b><u>Generator</u></b>		
Operational	3	
Generator Run Hours	<u>1.9</u>	
<b><u>Air Relief Valve</u></b>		
Operation	3	
<b><u>Auto Dialer</u></b>		
Operational	3	
<b><u>Wetwell</u></b>		
Condition	3	
<b><u>Building Condition</u></b>		
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
10/1/2015 – 11/1/2015	97.57	3.15	116.46	3.76

<u>DATE</u>	<u>TOTAL GALLONS</u>	<u>GALLONS/DAY</u>
10/1/2015 - 11/1/2015	1,832,800	59,123

**Comments: Generator hours= 1.9**

10/27 – McGovern in to clean and power wash the wet well.

**CHESTNUT AVENUE**

**Operator: Ed Chelius**

**Date: November 2015**

<b><u>Item</u></b>	<b><u>Priority</u></b>	<b><u>Remarks</u></b>
<b><u>Control Panel</u></b>		
Level Controls	3	
Backup System	3	
<b><u>#1 Pump</u></b>		
Operation	3	
Check Valve	3	
Valving	3	
<b><u>#2 Pump</u></b>		
Operation	3	
Check Valve	3	
Valving	3	
<b><u>Generator</u></b>		
Operational	3	
Generator Run Hours	<u>1.67</u>	
<b><u>Air Relief Valve</u></b>		
Operation	3	
<b><u>Auto Dialer</u></b>		
Operational	3	
<b><u>Wetwell</u></b>		
Condition	3	
<b><u>Building Condition</u></b>		
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
11/1/2015 – 12/1/2015	84.45	2.81	113.57	3.78

<u>DATE</u>	<u>TOTAL GALLONS</u>	<u>GALLONS/DAY</u>
11/1/2015 - 12/1/2015	1,615,100	53,837

**Comments: Generator hours= 1.67**

**CHESTNUT AVENUE**

**Operator: Ed Chelius**

**Date: December 2015**

<b><u>Item</u></b>	<b><u>Priority</u></b>	<b><u>Remarks</u></b>
<b><u>Control Panel</u></b>		
Level Controls	3	
Backup System	3	
<b><u>#1 Pump</u></b>		
Operation	3	
Check Valve	3	
Valving	3	
<b><u>#2 Pump</u></b>		
Operation	3	
Check Valve	3	
Valving	3	
<b><u>Generator</u></b>		
Operational	3	
Generator Run Hours	<u>1.69</u>	
<b><u>Air Relief Valve</u></b>		
Operation	3	
<b><u>Auto Dialer</u></b>		
Operational	3	
<b><u>Wetwell</u></b>		
Condition	3	
<b><u>Building Condition</u></b>		
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
12/1/2015 – 1/1/2016	123.4	3.98	174.93	5.64

<u>DATE</u>	<u>TOTAL GALLONS</u>	<u>GALLONS/DAY</u>
12/1/2015 - 1/1/2016	2,444,600	78,858

**Comments: Generator hours= 1.69**

12/8/15 – Meter Guys in to calibrate the flow meter

12/24/15 – New transducer installed in the wet well by Sealy

**FOREST AVENUE**

**Operator: Ed Chelius**

**Date: January 2015**

<b><u>Item</u></b>	<b><u>Priority</u></b>	<b><u>Remarks</u></b>
<b><u>Exterior</u></b>		
Fascia & Cornice	3	
Grounds, Weeds	3	
Roof	3	
Driveway	3	
<b><u>Wetwell</u></b>		
Grease buildup	3	
<b><u>Station Interior</u></b>		
<b><u>#1 Pump</u></b>		
Motor	3	
Bearings	3	
Drive Shafts	3	
U-Joints	3	
Pump Bearings	3	
Valves	3	
Pillow Block Bearings	3	
<b><u>#2 Pump</u></b>		
Motor	3	
Bearings	3	
Drive Shafts	3	
U-Joints	3	
Pillow Block Bearing	3	
Generator	3	
Pumps Packing	3	
Sump Pump	3	
Valves	2	
<b><u>Ventilation</u></b>		
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
1/1/2015-2/1/2015	68.5	67.3	2.21	2.17

**Comments:**  
**Generator run hours=1.3**

**FOREST AVENUE**

**Operator: Ed Chelius**

**Date: February 2015**

<b><u>Item</u></b>	<b><u>Priority</u></b>	<b><u>Remarks</u></b>
<b><u>Exterior</u></b>		
Fascia & Cornice	3	
Grounds, Weeds	3	
Roof	3	
Driveway	3	
<b><u>Wetwell</u></b>		
Grease buildup	3	
<b><u>Station Interior</u></b>		
<b><u>#1 Pump</u></b>		
Motor	3	
Bearings	3	
Drive Shafts	3	
U-Joints	3	
Pump Bearings	3	
Valves	3	
Pillow Block Bearings	3	
<b><u>#2 Pump</u></b>		
Motor	3	
Bearings	3	
Drive Shafts	3	
U-Joints	3	
Pillow Block Bearing	3	
Generator	3	
Pumps Packing	3	
Sump Pump	3	
Valves	2	
<b><u>Ventilation</u></b>		
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
2/1/2015 - 3/1/2015	57.2	51.2	2.04	1.83

**Comments:**  
**Generator run hours=1.3**

**FOREST AVENUE**

**Operator: Ed Chelius**

**Date: March 2015**

<b><u>Item</u></b>	<b><u>Priority</u></b>	<b><u>Remarks</u></b>
<b><u>Exterior</u></b>		
Fascia & Cornice	3	
Grounds, Weeds	3	
Roof	3	
Driveway	3	
<b><u>Wetwell</u></b>		
Grease buildup	3	
<b><u>Station Interior</u></b>		
<b><u>#1 Pump</u></b>		
Motor	3	
Bearings	3	
Drive Shafts	3	
U-Joints	3	
Pump Bearings	3	
Valves	3	
Pillow Block Bearings	3	
<b><u>#2 Pump</u></b>		
Motor	3	
Bearings	3	
Drive Shafts	3	
U-Joints	3	
Pillow Block Bearing	3	
Generator	3	
Pumps Packing	3	
Sump Pump	3	
Valves	2	
<b><u>Ventilation</u></b>		
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
3/1/2015 - 4/1/2015	87.4	85.7	2.82	2.76

**Comments:**

**Generator run hours=1.6**

PENN Power in to service generator this month.

**FOREST AVENUE**

**Operator: Ed Chelius**

**Date: April 2015**

<b><u>Item</u></b>	<b><u>Priority</u></b>	<b><u>Remarks</u></b>
<b><u>Exterior</u></b>		
Fascia & Cornice	3	
Grounds, Weeds	3	
Roof	3	
Driveway	3	
<b><u>Wetwell</u></b>		
Grease buildup	3	
<b><u>Station Interior</u></b>		
<b><u>#1 Pump</u></b>		
Motor	3	
Bearings	3	
Drive Shafts	3	
U-Joints	3	
Pump Bearings	3	
Valves	3	
Pillow Block Bearings	3	
<b><u>#2 Pump</u></b>		
Motor	3	
Bearings	3	
Drive Shafts	3	
U-Joints	3	
Pillow Block Bearing	3	
Generator	3	
Pumps Packing	3	
Sump Pump	3	
Valves	2	
<b><u>Ventilation</u></b>		
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
4/1/2015 - 5/1/2015	64.3	61.0	2.14	2.03

**Comments:**  
**Generator run hours=1.3**

**FOREST AVENUE**

**Operator: Ed Chelius**

**Date: May 2015**

<b><u>Item</u></b>	<b><u>Priority</u></b>	<b><u>Remarks</u></b>
<b><u>Exterior</u></b>		
Fascia & Cornice	3	
Grounds, Weeds	3	
Roof	3	
Driveway	3	
<b><u>Wetwell</u></b>		
Grease buildup	3	
<b><u>Station Interior</u></b>		
<b><u>#1 Pump</u></b>		
Motor	3	
Bearings	3	
Drive Shafts	3	
U-Joints	3	
Pump Bearings	3	
Valves	3	
Pillow Block Bearings	3	
<b><u>#2 Pump</u></b>		
Motor	3	
Bearings	3	
Drive Shafts	3	
U-Joints	3	
Pillow Block Bearing	3	
Generator	3	
Pumps Packing	3	
Sump Pump	3	
Valves	2	
<b><u>Ventilation</u></b>		
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
5/1/2015 - 6/1/2015	50.0	48.9	1.61	1.57

**Comments:**

**Generator run hours= 1.3**

**FOREST AVENUE**

**Operator: Ed Chelius**

**Date: June 2015**

<b><u>Item</u></b>	<b><u>Priority</u></b>	<b><u>Remarks</u></b>
<b><u>Exterior</u></b>		
Fascia & Cornice	3	
Grounds, Weeds	3	
Roof	3	
Driveway	3	
<b><u>Wetwell</u></b>		
Grease buildup	3	
<b><u>Station Interior</u></b>		
<b><u>#1 Pump</u></b>		
Motor	3	
Bearings	3	
Drive Shafts	3	
U-Joints	3	
Pump Bearings	3	
Valves	3	
Pillow Block Bearings	3	
<b><u>#2 Pump</u></b>		
Motor	3	
Bearings	3	
Drive Shafts	3	
U-Joints	3	
Pillow Block Bearing	3	
Generator	3	
Pumps Packing	3	
Sump Pump	3	
Valves	2	
<b><u>Ventilation</u></b>		
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
6/1/2015 - 7/1/2015	58.4	57.2	1.94	1.90

**Comments:**  
**Generator run hours= 1.9**

**FOREST AVENUE**

**Operator: Ed Chelius**

**Date: July 2015**

<b><u>Item</u></b>	<b><u>Priority</u></b>	<b><u>Remarks</u></b>
<b><u>Exterior</u></b>		
Fascia & Cornice	3	
Grounds, Weeds	3	
Roof	3	
Driveway	3	
<b><u>Wetwell</u></b>		
Grease buildup	3	
<b><u>Station Interior</u></b>		
<b><u>#1 Pump</u></b>		
Motor	3	
Bearings	3	
Drive Shafts	3	
U-Joints	3	
Pump Bearings	3	
Valves	3	
Pillow Block Bearings	3	
<b><u>#2 Pump</u></b>		
Motor	3	
Bearings	3	
Drive Shafts	3	
U-Joints	3	
Pillow Block Bearing	3	
Generator	3	
Pumps Packing	3	
Sump Pump	3	
Valves	2	
<b><u>Ventilation</u></b>		
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
7/1/2015 - 8/1/2015	74.3	70.6	2.39	2.27

**Comments:**

**Generator run hours= 1.9**

**FOREST AVENUE**

**Operator: Ed Chelius**

**Date: August 2015**

<b><u>Item</u></b>	<b><u>Priority</u></b>	<b><u>Remarks</u></b>
<b><u>Exterior</u></b>		
Fascia & Cornice	3	
Grounds, Weeds	3	
Roof	3	
Driveway	3	
<b><u>Wetwell</u></b>		
Grease buildup	3	
<b><u>Station Interior</u></b>		
<b><u>#1 Pump</u></b>		
Motor	3	
Bearings	3	
Drive Shafts	3	
U-Joints	3	
Pump Bearings	3	
Valves	3	
Pillow Block Bearings	3	
<b><u>#2 Pump</u></b>		
Motor	3	
Bearings	3	
Drive Shafts	3	
U-Joints	3	
Pillow Block Bearing	3	
Generator	3	
Pumps Packing	3	
Sump Pump	3	
Valves	2	
<b><u>Ventilation</u></b>		
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
8/1/2015 - 9/1/2015	47.3	47.4	1.53	1.52

**Comments:**

**Generator run hours= 1.3**

FOREST AVENUE

Operator: Ed Chelius

Date: September 2015

<u>Item</u>	<u>Priority</u>	<u>Remarks</u>
<b><u>Exterior</u></b>		
Fascia & Cornice	3	
Grounds, Weeds	3	
Roof	3	
Driveway	3	
<b><u>Wetwell</u></b>		
Grease buildup	3	
<b><u>Station Interior</u></b>		
<b><u>#1 Pump</u></b>		
Motor	3	
Bearings	3	
Drive Shafts	3	
U-Joints	3	
Pump Bearings	3	
Valves	3	
Pillow Block Bearings	3	
<b><u>#2 Pump</u></b>		
Motor	3	
Bearings	3	
Drive Shafts	3	
U-Joints	3	
Pillow Block Bearing	3	
Generator	3	
Pumps Packing	3	
Sump Pump	3	
Valves	2	
<b><u>Ventilation</u></b>		
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
9/1/2015 - 10/1/2015	46.6	46.4	1.55	1.55

**Comments:**

**Generator run hours= 1.3**

**FOREST AVENUE**

**Operator: Ed Chelius**

**Date: October 2015**

<b><u>Item</u></b>	<b><u>Priority</u></b>	<b><u>Remarks</u></b>
<b><u>Exterior</u></b>		
Fascia & Cornice	3	
Grounds, Weeds	3	
Roof	3	
Driveway	3	
<b><u>Wetwell</u></b>		
Grease buildup	3	
<b><u>Station Interior</u></b>		
<b><u>#1 Pump</u></b>		
Motor	3	
Bearings	3	
Drive Shafts	3	
U-Joints	3	
Pump Bearings	3	
Valves	3	
Pillow Block Bearings	3	
<b><u>#2 Pump</u></b>		
Motor	3	
Bearings	3	
Drive Shafts	3	
U-Joints	3	
Pillow Block Bearing	3	
Generator	3	
Pumps Packing	3	
Sump Pump	3	
Valves	2	
<b><u>Ventilation</u></b>		
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
10/1/2015 - 11/1/2015	55.8	55.1	1.83	1.77

**Comments:**

**Generator run hours= 1.8**

10/23 – Cleaned sewer lines into the pump station

10/28 – McGovern in to clean wet well. Grease pumps, motors, and shafts also cleaned.

**FOREST AVENUE**

**Operator: Ed Chelius**

**Date: November 2015**

<b><u>Item</u></b>	<b><u>Priority</u></b>	<b><u>Remarks</u></b>
<b><u>Exterior</u></b>		
Fascia & Cornice	3	
Grounds, Weeds	3	
Roof	3	
Driveway	3	
<b><u>Wetwell</u></b>		
Grease buildup	3	
<b><u>Station Interior</u></b>		
<b><u>#1 Pump</u></b>		
Motor	3	
Bearings	3	
Drive Shafts	3	
U-Joints	3	
Pump Bearings	3	
Valves	3	
Pillow Block Bearings	3	
<b><u>#2 Pump</u></b>		
Motor	3	
Bearings	3	
Drive Shafts	3	
U-Joints	3	
Pillow Block Bearing	3	
Generator	3	
Pumps Packing	3	
Sump Pump	3	
Valves	2	
<b><u>Ventilation</u></b>		
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
11/1/2015 - 12/1/2015	48.8	47.8	1.63	1.59

**Comments:**

**Generator run hours= 1.4**

**FOREST AVENUE**

**Operator: Ed Chelius**

**Date: December 2015**

<b><u>Item</u></b>	<b><u>Priority</u></b>	<b><u>Remarks</u></b>
<b><u>Exterior</u></b>		
Fascia & Cornice	3	
Grounds, Weeds	3	
Roof	3	
Driveway	3	
<b><u>Wetwell</u></b>		
Grease buildup	3	
<b><u>Station Interior</u></b>		
<b><u>#1 Pump</u></b>		
Motor	3	
Bearings	3	
Drive Shafts	3	
U-Joints	3	
Pump Bearings	3	
Valves	3	
Pillow Block Bearings	3	
<b><u>#2 Pump</u></b>		
Motor	3	
Bearings	3	
Drive Shafts	3	
U-Joints	3	
Pillow Block Bearing	3	
Generator	3	
Pumps Packing	3	
Sump Pump	3	
Valves	2	
<b><u>Ventilation</u></b>		
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
12/1/2015 - 1/1/2016	30.6	114.1	0.99	3.68

**Comments:**

**Generator run hours= 3.3**

12/31/15 – Sealy removed #1 pump for service that will be reinstalled ASAP.

**HALFORD HILLS ESTATES**

**Operator: Ed Chelius**

**Date: January 2015**

**Equipment:**

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

**Alarm System:**

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

DATE	RUN HOURS		PER DAY	
	Pump #1	Pump #2	Pump #1	Pump #2
1/1/2015 - 2/1/2015	28.32	22.74	0.91	0.73

**Comments:**

**HALFORD HILLS ESTATES**

**Operator: Ed Chelius**

**Date: February 2015**

**Equipment:**

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

**Alarm System:**

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

DATE	RUN HOURS		PER DAY	
	Pump #1	Pump #2	Pump #1	Pump #2
2/1/2015 - 3/1/2015	26.71	21.92	0.95	0.78

**Comments:**

**HALFORD HILLS ESTATES**

**Operator: Ed Chelius**

**Date: March 2015**

**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
3/1/2015 - 4/1/2015	35.35	30.71	1.14	0.99

**Comments:**

**HALFORD HILLS ESTATES**

**Operator: Ed Chelius**

**Date: April 2015**

**Equipment:**

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

**Alarm System:**

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

DATE	RUN HOURS		PER DAY	
	Pump #1	Pump #2	Pump #1	Pump #2
4/1/2015 - 5/1/2015	27.4	21.67	0.91	0.72

**Comments:**

**HALFORD HILLS ESTATES**

**Operator: Ed Chelius**

**Date: May 2015**

**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
5/1/2015 - 6/1/2015	26.99	23.21	0.87	0.75

**Comments:**

5/19/15 McGovern in to haul out and clean the wet well at the Pump Station

**HALFORD HILLS ESTATES**

**Operator: Ed Chelius**

**Date: June 2015**

**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
6/1/2015 - 7/1/2015	31.98	26.44	1.066	0.88

**Comments:**

**HALFORD HILLS ESTATES**

**Operator: Ed Chelius**

**Date: July 2015**

**Equipment:**

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

**Alarm System:**

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

DATE	RUN HOURS		PER DAY	
	Pump #1	Pump #2	Pump #1	Pump #2
7/1/2015 - 8/1/2015	30.2	24.01	0.97	0.77

**Comments:**

**HALFORD HILLS ESTATES**

**Operator: Ed Chelius**

**Date: August 2015**

**Equipment:**

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

**Alarm System:**

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

DATE	RUN HOURS		PER DAY	
	Pump #1	Pump #2	Pump #1	Pump #2
8/1/2015 - 9/1/2015	28.48	24.59	0.91	0.79

**Comments:**

**HALFORD HILLS ESTATES**

**Operator: Ed Chelius**

**Date: September 2015**

**Equipment:**

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

**Alarm System:**

Operational

**Wetwell** Debris Buildup  
Grounds, weeds

<u>Good</u>	<u>Poor</u>
X	

DATE	RUN HOURS		PER DAY	
	Pump #1	Pump #2	Pump #1	Pump #2
9/1/2015 - 10/1/2015	25.89	21.68	0.86	0.72

**Comments:**

**HALFORD HILLS ESTATES**

**Operator: Ed Chelius**

**Date: October 2015**

**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
10/1/2015 - 11/1/2015	27.68	22.78	0.89	0.73

**Comments:**

**HALFORD HILLS ESTATES**

**Operator: Ed Chelius**

**Date: November 2015**

**Equipment:**

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

**Alarm System:**

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

DATE	RUN HOURS		PER DAY	
	Pump #1	Pump #2	Pump #1	Pump #2
11/1/2015 - 12/1/2015	30.99	24.84	1.03	0.82

**Comments:**

**HALFORD HILLS ESTATES**

**Operator: Ed Chelius**

**Date: December 2015**

**Equipment:**

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

**Alarm System:**

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

DATE	RUN HOURS		PER DAY	
	Pump #1	Pump #2	Pump #1	Pump #2
12/1/2015 - 1/1/2016	33.29	27.64	1.07	0.89

**Comments:**

**PORT INDIAN P.S.**

**Operator: Ed Chelius**

**Date: January 2015**

**Equipment:**

	<b><u>OPERATIONAL</u></b>	
	<b><u>YES</u></b>	<b><u>NO</u></b>
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>
1/1/2015 - 2/1/2015	11,090,500	357,758

<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>
1/1/2015 - 2/1/2015	118.63	102.78	3.83	3.32

**Comments:**

**Generator run hours = 1.4**

**PORT INDIAN P.S.**

**Operator: Ed Chelius**

**Date: February 2015**

**Equipment:**

	<b><u>OPERATIONAL</u></b>	
	<b><u>YES</u></b>	<b><u>NO</u></b>
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>
2/1/2015 - 3/1/2015	11,090,500	357,758

<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>
2/1/2015 - 3/1/2015	98.78	92.29	3.53	3.29

**Comments:**

**Generator run hours =1.4**

2/20/2015 – Meter guys in to calibrate flow meter.

**PORT INDIAN P.S.**

**Operator: Ed Chelius**

**Date: March 2015**

**Equipment:**

	<b><u>OPERATIONAL</u></b>	
	<b><u>YES</u></b>	<b><u>NO</u></b>
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>
3/1/2015 - 4/1/2015	17,976,400	579,883

<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>
3/1/2015 - 4/1/2015	190.74	179.29	6.15	5.78

**Comments:**

**Generator run hours = 3.1**

3/23/15 – Dave from Sealy pulled #2 pump and replaced flange gasket on pump volute.

PENN Power in to service generator.

**PORT INDIAN P.S.**

**Operator: Ed Chelius**

**Date: April 2015**

**Equipment:**

	<b><u>OPERATIONAL</u></b>	
	<b><u>YES</u></b>	<b><u>NO</u></b>
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>
4/1/2015 - 5/1/2015	10,167,700	338,923

<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>
4/1/2015 - 5/1/2015	102.97	104.77	3.43	3.49

**Comments:**

**Generator run hours = 3.1**

**PORT INDIAN P.S.**

**Operator: Ed Chelius**

**Date: May 2015**

**Equipment:**

	<b><u>OPERATIONAL</u></b>	
	<b><u>YES</u></b>	<b><u>NO</u></b>
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>
5/1/2015 - 6/1/2015	6,395,400	206,303

<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>
5/1/2015 - 6/1/2015	65.11	64.08	2.10	2.07

**Comments:**

**Generator run hours = 2.7**

5/29/15 Meter guys in to calibrate flow meter at the pump station.

**PORT INDIAN P.S.**

**Operator: Ed Chelius**

**Date: June 2015**

**Equipment:**

	<b><u>OPERATIONAL</u></b>	
	<b><u>YES</u></b>	<b><u>NO</u></b>
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>
6/1/2015 - 7/1/2015	9,734,600	324,486

<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>
6/1/2015 - 7/1/2015	91.87	89.71	3.062	2.99

**Comments:**

**Generator run hours = 1.7**

**PORT INDIAN P.S.**

**Operator: Ed Chelius**

**Date: July 2015**

**Equipment:**

	<b><u>OPERATIONAL</u></b>	
	<b><u>YES</u></b>	<b><u>NO</u></b>
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>
7/1/2015 - 8/1/2015	12,028,300	388,009

<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>
7/1/2015 - 8/1/2015	118.61	116.02	3.826	3.742

**Comments:**

**Generator run hours = 0.6**

7/22 - PENN Power in to install the new exercise timer on the generator.

**PORT INDIAN P.S.**

**Operator: Ed Chelius**

**Date: August 2015**

**Equipment:**

	<b><u>OPERATIONAL</u></b>	
	<b><u>YES</u></b>	<b><u>NO</u></b>
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>
8/1/2015 - 9/1/2015	6,015,600	194,052

<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>
8/1/2015 - 9/1/2015	61.53	59.69	1.98	1.93

**Comments:**

**Generator run hours = 2**

Fill generator with fuel.

**PORT INDIAN P.S.**

**Operator: Ed Chelius**

**Date: September 2015**

**Equipment:**

	<b><u>OPERATIONAL</u></b>	
	<b><u>YES</u></b>	<b><u>NO</u></b>
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>
9/1/2015 - 10/1/2015	5,682,100	189,403

<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>
9/1/2015 - 10/1/2015	57.29	57.09	1.90	1.90

**Comments:**

**Generator run hours = 1.8**

9/1/15 – Meter Guys in to calibrate flow meter.

**PORT INDIAN P.S.**

**Operator: Ed Chelius**

**Date: October 2015**

**Equipment:**

	<b><u>OPERATIONAL</u></b>	
	<b><u>YES</u></b>	<b><u>NO</u></b>
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>
10/1/2015 - 11/1/2015	7,192,400	232,013

<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>
10/1/2015 - 11/1/2015	68.62	85.85	2.21	2.76

**Comments:**

**Generator run hours = 20.9**

10/27 – McGovern cleaned and power washed wet well.

10/28 – PENN Power in for a check. Needs new fuel pump.

**PORT INDIAN P.S.**

**Operator: Ed Chelius**

**Date: November 2015**

**Equipment:**

	<b><u>OPERATIONAL</u></b>	
	<b><u>YES</u></b>	<b><u>NO</u></b>
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>
11/1/2015 - 12/1/2015	5,705,200	190,173

DATE	Run Hours		Per Day	
	Pump #1	Pump #2	Pump #1	Pump #2
11/1/2015 - 12/1/2015	57.89	76.04	1.93	2.53

**Comments:**

**Generator run hours = 2.1**

11/16/15 - Sealy at the station to install a new float in the wet well.

11/30/15 - Sealy at station to replace the quick connect gasket on pump #1 in the wet well

**PORT INDIAN P.S.**

**Operator: Ed Chelius**

**Date: December 2015**

**Equipment:**

	<b><u>OPERATIONAL</u></b>	
	<b><u>YES</u></b>	<b><u>NO</u></b>
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>
12/1/2015 - 1/1/2016	11,778,100	379,939

<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>
12/1/2015 - 1/1/2016	66.74	168.05	2.15	5.42

**Comments:**

**Generator run hours = 2.0**

12/8/15 – Meter Guys in to calibrate the flow meter

12/28/15 – Sealy removed pump #1 for repair that will be reinstalled ASAP

## RITTENHOUSE

Operator: Ed Chelius

Date: January 2015

<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	Needs cleaning
Stairwells	1	Railing needs to be replaced
Comminutor	3	
Valves	3	#2 Side needs to be replaced
<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: February 2015

<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	Needs cleaning
Stairwells	1	Railing needs to be replaced
Comminutor	3	
Valves	3	#2 Side needs to be replaced
<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 2015

<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	Needs cleaning
Stairwells	1	Railing needs to be replaced
Comminutor	3	
Valves	3	#2 Side needs to be replaced
<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: April 2015

<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	Needs cleaning
Stairwells	1	Railing needs to be replaced
Comminutor	3	
Valves	3	#2 Side needs to be replaced
<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: May 2015

<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	Needs cleaning
Stairwells	1	Railing needs to be replaced
Comminutor	3	
Valves	3	#2 Side needs to be replaced
<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: June 2015

<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	Needs cleaning
Stairwells	1	Railing needs to be replaced
Comminutor	3	
Valves	3	#2 Side needs to be replaced
<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 2015

<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	Needs cleaning
Stairwells	1	Railing needs to be replaced
Comminutor	3	
Valves	3	#2 Side needs to be replaced
<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 2015

<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: September 2015**

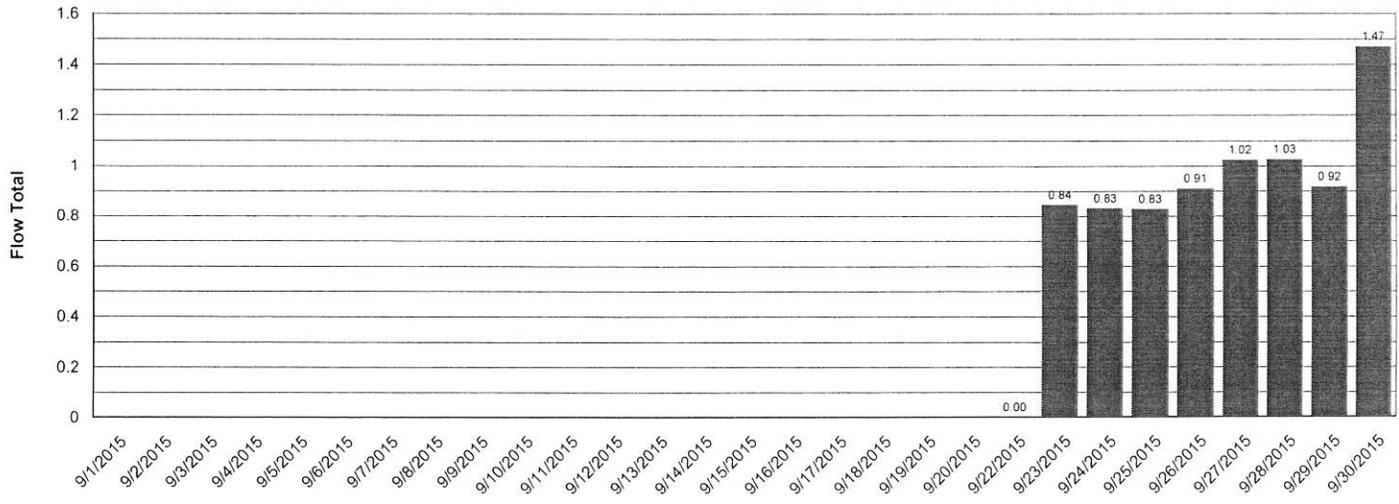
<b><u>Item</u></b>	<b><u>Priority</u></b>	<b><u>Remarks</u></b>
<b><u>Exterior</u></b>		
Fascia & Cornice	3	
Roof	3	
Grounds, Weeds	3	
Driveway	3	
<b><u>Wetwell</u></b>		
Grease Buildup	3	
Stairwells	3	
Comminutor	3	
Valves	3	
<b><u>Station Interior</u></b>		
<b><u>#1 Pump</u></b>		
Motor	3	
Rings	3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



# West Norriton, PA Daily Flow Totals

From: 9/1/2015  
To: 9/30/2015  
Printed: 10/21/2015

## Rittenhouse Flow Tot (MGAL)



Date	Daily Flow (MGAL)
9/1/2015	
9/2/2015	
9/3/2015	
9/4/2015	
9/5/2015	
9/6/2015	
9/7/2015	
9/8/2015	
9/9/2015	
9/10/2015	
9/11/2015	
9/12/2015	
9/13/2015	
9/14/2015	
9/15/2015	
9/16/2015	
9/17/2015	
9/18/2015	
9/19/2015	
9/20/2015	
9/22/2015	0.0000
9/23/2015	0.8443
9/24/2015	0.8310
9/25/2015	0.8288
9/26/2015	0.9106
9/27/2015	1.0241
9/28/2015	1.0266
9/29/2015	0.9181
9/30/2015	1.4700
<b>Total Flow</b>	<b>7.8535</b>
<b>Average Flow</b>	<b>0.8726</b>

Database point: West Norriton\_Sites.Rittenhouse PS\_Station Points\_Station.Flow.YesterdayTot

## RITTENHOUSE

Operator: Ed Chelius

Date: October 2015

<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 2015

<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 2015

<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	



**WHITEHALL ROAD**

**Operator: Ed Chelius**

**Date: January 2015**

<b><u>Item</u></b>	<b><u>Priority</u></b>	<b><u>Remarks</u></b>
<b><u>Exterior</u></b>		
Fascia & Cornice	3	
Roof	1	
Grounds, Weeds	3	
Driveway	3	
<b><u>Wetwell</u></b>		
Grease Buildup	3	
Stairwell	3	
Comminutor	3	
<b><u>Station Interior</u></b>		
<b><u>#1 Pump</u></b>		
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	
<b><u>#2 Pump</u></b>		
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	
<b><u>#3 Pump</u></b>		
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: January 2015**

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

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

**Readings:**

<u>DATE</u>	<u>TOTAL GALLONS</u>	<u>GALLONS/DAY</u>
1/1/2015 - 2/1/2015	17,634,200	568,845

<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>
1/1/2015 -2/1/2015	267.7	287	199.3	8.64	9.26	64.3

**Comments:**

**Generator run hours:2.4**

**WHITEHALL ROAD**

**Operator: Ed Chelius**

**Date: February 2015**

<b><u>Item</u></b>	<b><u>Priority</u></b>	<b><u>Remarks</u></b>
<b><u>Exterior</u></b>		
Fascia & Cornice	3	
Roof	1	
Grounds, Weeds	3	
Driveway	3	
<b><u>Wetwell</u></b>		
Grease Buildup	3	
Stairwell	3	
Comminutor	3	
<b><u>Station Interior</u></b>		
<b><u>#1 Pump</u></b>		
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	
<b><u>#2 Pump</u></b>		
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	
<b><u>#3 Pump</u></b>		
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: February 2015**

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

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

**Readings:**

<u>DATE</u>	<u>TOTAL GALLONS</u>	<u>GALLONS/DAY</u>
2/1/2015 - 3/1/2015	14,951,600	533,986

<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>
2/1/2015 - 3/1/2015	244.5	201.9	215.4	8.73	7.21	7.69

**Comments:**

**Generator run hours: 2.3**

2/20/2015 – Meter guys in to calibrate flow meter.

**WHITEHALL ROAD**

**Operator: Ed Chelius**

**Date: March 2015**

<b><u>Item</u></b>	<b><u>Priority</u></b>	<b><u>Remarks</u></b>
<b><u>Exterior</u></b>		
Fascia & Cornice	3	
Roof	1	
Grounds, Weeds	3	
Driveway	3	
<b><u>Wetwell</u></b>		
Grease Buildup	3	
Stairwell	3	
Comminutor	3	
<b><u>Station Interior</u></b>		
<b><u>#1 Pump</u></b>		
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	
<b><u>#2 Pump</u></b>		
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	
<b><u>#3 Pump</u></b>		
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 2015**

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

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

**Readings:**

<u>DATE</u>	<u>TOTAL GALLONS</u>	<u>GALLONS/DAY</u>
3/1/2015 - 4/1/2015	26,029,500	839,661

<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>
3/1/2015 - 4/1/2015	213.9	360.6	225.2	6.9	11.63	7.26

**Comments:**

**Generator run hours: 2.1**

3/10/15 – PENN Power in to service generator.

3/31/15 – Dave from Sealy in to replace limit switch on #3 pump check valve.

## WHITEHALL ROAD

Operator: Ed Chelius

Date: April 2015

<u>Item</u>	<u>Priority</u>	<u>Remarks</u>
<b><u>Exterior</u></b>		
Fascia & Cornice	3	
Roof	1	
Grounds, Weeds	3	
Driveway	3	
<b><u>Wetwell</u></b>		
Grease Buildup	3	
Stairwell	3	
Comminutor	3	
<b><u>Station Interior</u></b>		
<b><u>#1 Pump</u></b>		
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	
<b><u>#2 Pump</u></b>		
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	
<b><u>#3 Pump</u></b>		
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: April 2015**

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

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

**Readings:**

<u>DATE</u>	<u>TOTAL GALLONS</u>	<u>GALLONS/DAY</u>
4/1/2015 - 5/1/2015	15,832,300	527,743

<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>
4/1/2015 - 5/1/2015	353.0	270	100	11.8	9	3.33

**Comments:**

**Generator run hours: 2.3**

**WHITEHALL ROAD**

**Operator: Ed Chelius**

**Date: May 2015**

<b><u>Item</u></b>	<b><u>Priority</u></b>	<b><u>Remarks</u></b>
<b><u>Exterior</u></b>		
Fascia & Cornice	3	
Roof	1	
Grounds, Weeds	3	
Driveway	3	
<b><u>Wetwell</u></b>		
Grease Buildup	3	
Stairwell	3	
Comminutor	3	
<b><u>Station Interior</u></b>		
<b><u>#1 Pump</u></b>		
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	
<b><u>#2 Pump</u></b>		
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	
<b><u>#3 Pump</u></b>		
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: May 2015**

<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>
5/1/2015 - 6/1/2015	11,306,200	364,716

<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>
5/1/2015 - 6/1/2015	305.8	362.1	72.7	9.86	11.68	2.35

Comments:

**Generator run hours: 2.4**

5/29/15 Meter guys in to calibrate flow meter in the pump station.

## WHITEHALL ROAD

**Operator: Ed Chelius**

**Date: June 2015**

<u>Item</u>	<u>Priority</u>	<u>Remarks</u>
<b><u>Exterior</u></b>		
Fascia & Cornice	3	
Roof	1	
Grounds, Weeds	3	
Driveway	3	
<b><u>Wetwell</u></b>		
Grease Buildup	3	
Stairwell	3	
Comminutor	3	
<b><u>Station Interior</u></b>		
<b><u>#1 Pump</u></b>		
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	
<b><u>#2 Pump</u></b>		
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	
<b><u>#3 Pump</u></b>		
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: June 2015**

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

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

**Readings:**

<u>DATE</u>	<u>TOTAL GALLONS</u>	<u>GALLONS/DAY</u>
6/1/2015 - 7/1/2015	14,732,200	491,073

<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>
6/1/2015 - 7/1/2015	177	315	245.4	5.9	10.5	8.18

**Comments:**

**Generator run hours: 2.4**

#1 pump – new airline replaced in control panel by Seeley  
New pillow block bearing was installed on pump #3.

**WHITEHALL ROAD**

**Operator: Ed Chelius**

**Date: July 2015**

<b><u>Item</u></b>	<b><u>Priority</u></b>	<b><u>Remarks</u></b>
<b><u>Exterior</u></b>		
Fascia & Cornice	3	
Roof	1	
Grounds, Weeds	3	
Driveway	3	
<b><u>Wetwell</u></b>		
Grease Buildup	3	
Stairwell	3	
Comminutor	3	
<b><u>Station Interior</u></b>		
<b><u>#1 Pump</u></b>		
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	
<b><u>#2 Pump</u></b>		
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	
<b><u>#3 Pump</u></b>		
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 2015**

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

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

**Readings:**

<u>DATE</u>	<u>TOTAL GALLONS</u>	<u>GALLONS/DAY</u>
7/1/2015 - 8/1/2015	15,329,600	494,503

<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>
7/1/2015 - 8/1/2015	108.8	330.7	142	3.51	10.67	4.58

**Comments:**

**Generator run hours: 2.2**

7/27 – Sealy pulled the #1 pump for repair and sent to Deckman’s.

**WHITEHALL ROAD**

**Operator: Ed Chelius**

**Date: August 2015**

<b><u>Item</u></b>	<b><u>Priority</u></b>	<b><u>Remarks</u></b>
<b><u>Exterior</u></b>		
Fascia & Cornice	3	
Roof	1	
Grounds, Weeds	3	
Driveway	3	
<b><u>Wetwell</u></b>		
Grease Buildup	3	
Stairwell	3	
Comminutor	3	
<b><u>Station Interior</u></b>		
<b><u>#1 Pump</u></b>		
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	
<b><u>#2 Pump</u></b>		
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	
<b><u>#3 Pump</u></b>		
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 2015**

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

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

**Readings:**

<u>DATE</u>	<u>TOTAL GALLONS</u>	<u>GALLONS/DAY</u>
8/1/2015 - 9/1/2015	10,929,500	352,565

<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>
8/1/2015 - 9/1/2015	out	322.7	372.6	out	10.4	12.02

**Comments:**

**Generator run hours: 2.7**

**WHITEHALL ROAD**

**Operator: Ed Chelius**

**Date: September 2015**

<b><u>Item</u></b>	<b><u>Priority</u></b>	<b><u>Remarks</u></b>
<b><u>Exterior</u></b>		
Fascia & Cornice	3	
Roof	1	
Grounds, Weeds	3	
Driveway	3	
<b><u>Wetwell</u></b>		
Grease Buildup	3	
Stairwell	3	
Comminutor	3	
<b><u>Station Interior</u></b>		
<b><u>#1 Pump</u></b>		
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	
<b><u>#2 Pump</u></b>		
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	
<b><u>#3 Pump</u></b>		
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 2015**

<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>
9/1/2015 - 10/1/2015	9,506,800	316,893

<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>
9/1/2015 - 10/1/2015	Out	308.7	392.1	Out	10.29	13.07

**Comments:**

**Generator run hours: 2.4**

9/1/15 – Meter Guys in to calibrate flow meter.

9/2/15 – The #1 pump motor was sent to Deckmans for repair.

**WHITEHALL ROAD**

**Operator: Ed Chelius**

**Date: October 2015**

<b><u>Item</u></b>	<b><u>Priority</u></b>	<b><u>Remarks</u></b>
<b><u>Exterior</u></b>		
Fascia & Cornice	3	
Roof	1	
Grounds, Weeds	3	
Driveway	3	
<b><u>Wetwell</u></b>		
Grease Buildup	3	
Stairwell	3	
Comminutor	3	
<b><u>Station Interior</u></b>		
<b><u>#1 Pump</u></b>		
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	
<b><u>#2 Pump</u></b>		
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	
<b><u>#3 Pump</u></b>		
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 2015**

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

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

**Readings:**

<u>DATE</u>	<u>TOTAL GALLONS</u>	<u>GALLONS/DAY</u>
10/1/2015 - 11/1/2015	11,514,200	374,652

<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>
10/1/2015 - 11/1/2015	220.8	192.3	364.1	7.12	6.20	11.74

**Comments:**

**Generator run hours: 2.4**

- 10/1 - #1 pump motor installed
- 10/6 - New well tank and sump pump in dry well
- 10/9 - Sealy in to change limit switches on all three pumps
- 10/13 - New starter in #2 pump
- 10/20 - New dialer installed at the station
- 10/28 - Sealy installed pump #1 and removed pump #2 for repair

**WHITEHALL ROAD**

**Operator: Ed Chelius**

**Date: November 2015**

<b><u>Item</u></b>	<b><u>Priority</u></b>	<b><u>Remarks</u></b>
<b><u>Exterior</u></b>		
Fascia & Cornice	3	
Roof	1	
Grounds, Weeds	3	
Driveway	3	
<b><u>Wetwell</u></b>		
Grease Buildup	3	
Stairwell	3	
Comminutor	3	
<b><u>Station Interior</u></b>		
<b><u>#1 Pump</u></b>		
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	
<b><u>#2 Pump</u></b>		
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	
<b><u>#3 Pump</u></b>		
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 2015**

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

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

**Readings:**

<u>DATE</u>	<u>TOTAL GALLONS</u>	<u>GALLONS/DAY</u>
11/1/2015 - 12/1/2015	9,863,500	328,783

<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>
11/1/2015 - 12/1/2015	177.4	462	24.0	5.91	15.4	0.8

**Comments:**

**Generator run hours: 2.4**

11/4/15 – Sealy installed pump #2

11/10/15 – McGovern in to clean the wet well.

11/11/15 – Comminutor is off and needs to be pulled out because it was damaged by rocks in the process of the repair.

**WHITEHALL ROAD**

**Operator: Ed Chelius**

**Date: December 2015**

<b><u>Item</u></b>	<b><u>Priority</u></b>	<b><u>Remarks</u></b>
<b><u>Exterior</u></b>		
Fascia & Cornice	3	
Roof	1	
Grounds, Weeds	3	
Driveway	3	
<b><u>Wetwell</u></b>		
Grease Buildup	3	
Stairwell	3	
Comminutor	3	
<b><u>Station Interior</u></b>		
<b><u>#1 Pump</u></b>		
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	
<b><u>#2 Pump</u></b>		
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	
<b><u>#3 Pump</u></b>		
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 2015**

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

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

**Readings:**

<u>DATE</u>	<u>TOTAL GALLONS</u>	<u>GALLONS/DAY</u>
12/1/2015 - 1/1/2016	15,866,500	511,822

<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>
12/1/2015 - 1/1/2016	129.3	606.7	0.9	4.17	19.57	0.03

**Comments:**

**Generator run hours= 2.3**

12/8/15 – Meter Guys in to calibrate the flow meter

12/28/15 – Sealy reinstalled pump #3 in the dry well

The Comminutor is still out for repair.

**JACKSON STREET METERING PIT**

Operator: Ed Chelius

Date: January 2015

**Flow Jackson Street Pit**

<b><u>DATE</u></b>	<b><u>TOTAL GALLONS</u></b>	<b><u>GALLONS/DAY</u></b>
1/1/2015 - 2/1/2015	11,210,600	361,632

**Montgomery Avenue Metering Pit to the Rittenhouse P.S.**

<b><u>DATE</u></b>	<b><u>Total Flow</u></b>	<b><u>Average flow/day</u></b>
1/1/2015 - 2/1/2015	25,984,900	838,222

**Flow to Norristown**

<b><u>DATE</u></b>	<b><u>TOTAL GALLONS</u></b>	<b><u>GALLONS/DAY</u></b>
1/1/2015 - 2/1/2015	54,734,500	1,765,629

**JACKSON STREET METERING PIT**

Operator: Ed Chelius

Date: February 2015

**Flow Jackson Street Pit**

<b><u>DATE</u></b>	<b><u>TOTAL GALLONS</u></b>	<b><u>GALLONS/DAY</u></b>
2/1/2015 - 3/1/2015	9,204,900	328,746

**Montgomery Avenue Metering Pit to the Rittenhouse P.S.**

<b><u>DATE</u></b>	<b><u>Total Flow</u></b>	<b><u>Average flow/day</u></b>
2/1/2015 - 3/1/2015	24,677,900	881,354

**Flow to Norristown**

<b><u>DATE</u></b>	<b><u>TOTAL GALLONS</u></b>	<b><u>GALLONS/DAY</u></b>
2/1/2015 - 3/1/2015	55,393,800	1,978,350

**JACKSON STREET METERING PIT**

Operator: Ed Chelius

Date: March 2015

**Flow Jackson Street Pit**

<b><u>DATE</u></b>	<b><u>TOTAL GALLONS</u></b>	<b><u>GALLONS/DAY</u></b>
3/1/2015 - 4/1/2015	15,864,900	511,771

**Montgomery Avenue Metering Pit to the Rittenhouse P.S.**

<b><u>DATE</u></b>	<b><u>Total Flow</u></b>	<b><u>Average flow/day</u></b>
3/1/2015 - 4/1/2015	39,451,700	1,272,635

**Flow to Norristown**

<b><u>DATE</u></b>	<b><u>TOTAL GALLONS</u></b>	<b><u>GALLONS/DAY</u></b>
3/1/2015 - 4/1/2015	97,321,100	3,139,390

**JACKSON STREET METERING PIT**

Operator: Ed Chelius

Date: April 2015

**Flow Jackson Street Pit**

<b><u>DATE</u></b>	<b><u>TOTAL GALLONS</u></b>	<b><u>GALLONS/DAY</u></b>
4/1/2015 - 5/1/2015	14,155,900	471,863

**Montgomery Avenue Metering Pit to the Rittenhouse P.S.**

<b><u>DATE</u></b>	<b><u>Total Flow</u></b>	<b><u>Average flow/day</u></b>
4/1/2015 - 5/1/2015	26,074,000	869,133

**Flow to Norristown**

<b><u>DATE</u></b>	<b><u>TOTAL GALLONS</u></b>	<b><u>GALLONS/DAY</u></b>
4/1/2015 - 5/1/2015	59,757,000	1,927,645

**JACKSON STREET METERING PIT**

Operator: Ed Chelius

Date: May 2015

**Flow Jackson Street Pit**

<b><u>DATE</u></b>	<b><u>TOTAL GALLONS</u></b>	<b><u>GALLONS/DAY</u></b>
5/1/2015 - 6/1/2015	11,772,100	379,745

**Montgomery Avenue Metering Pit to the Rittenhouse P.S.**

<b><u>DATE</u></b>	<b><u>Total Flow</u></b>	<b><u>Average flow/day</u></b>
5/1/2015 - 6/1/2015	17,029,200	549,329

**Flow to Norristown**

<b><u>DATE</u></b>	<b><u>TOTAL GALLONS</u></b>	<b><u>GALLONS/DAY</u></b>
5/1/2015 - 6/1/2015	44,998,400	1,451,561

**JACKSON STREET METERING PIT**

Operator: Ed Chelius

Date: June 2015

**Flow Jackson Street Pit**

<b><u>DATE</u></b>	<b><u>TOTAL GALLONS</u></b>	<b><u>GALLONS/DAY</u></b>
6/1/2015 - 7/1/2015	9,097,000	303,233

**Montgomery Avenue Metering Pit to the Rittenhouse P.S.**

<b><u>DATE</u></b>	<b><u>Total Flow</u></b>	<b><u>Average flow/day</u></b>
6/1/2015 - 7/1/2015	24,774,900	825,830

**Flow to Norristown**

<b><u>DATE</u></b>	<b><u>TOTAL GALLONS</u></b>	<b><u>GALLONS/DAY</u></b>
6/1/2015 - 7/1/2015	57,315,200	1,510,506

**JACKSON STREET METERING PIT**

Operator: Ed Chelius

Date: July 2015

**Flow Jackson Street Pit**

<b><u>DATE</u></b>	<b><u>TOTAL GALLONS</u></b>	<b><u>GALLONS/DAY</u></b>
7/1/2015 - 8/1/2015	10,703,200	345,264

**Montgomery Avenue Metering Pit to the Rittenhouse P.S.**

<b><u>DATE</u></b>	<b><u>Total Flow</u></b>	<b><u>Average flow/day</u></b>
7/1/2015 - 8/1/2015	30,579,600	986,438

**Flow to Norristown**

<b><u>DATE</u></b>	<b><u>TOTAL GALLONS</u></b>	<b><u>GALLONS/DAY</u></b>
7/1/2015 - 8/1/2015	67,482,600	2,176,858

**JACKSON STREET METERING PIT**

Operator: Ed Chelius

Date: August 2015

**Flow Jackson Street Pit**

<b><u>DATE</u></b>	<b><u>TOTAL GALLONS</u></b>	<b><u>GALLONS/DAY</u></b>
8/1/2015 - 9/1/2015	10,973,400	353,980

**Montgomery Avenue Metering Pit to the Rittenhouse P.S.**

<b><u>DATE</u></b>	<b><u>Total Flow</u></b>	<b><u>Average flow/day</u></b>
8/1/2015 - 9/1/2015	15,334,900	494,674

**Flow to Norristown**

<b><u>DATE</u></b>	<b><u>TOTAL GALLONS</u></b>	<b><u>GALLONS/DAY</u></b>
8/1/2015 - 9/1/2015	43,330,200	1,397,748

**JACKSON STREET METERING PIT**

Operator: Ed Chelius

Date: September 2015

**Flow Jackson Street Pit**

<b><u>DATE</u></b>	<b><u>TOTAL GALLONS</u></b>	<b><u>GALLONS/DAY</u></b>
9/1/2015 - 10/1/2015	11,607,600	386,920

**Montgomery Avenue Metering Pit to the Rittenhouse P.S.**

<b><u>DATE</u></b>	<b><u>Total Flow</u></b>	<b><u>Average flow/day</u></b>
9/1/2015 - 10/1/2015	12,814,800	427,120

**Flow to Norristown**

<b><u>DATE</u></b>	<b><u>TOTAL GALLONS</u></b>	<b><u>GALLONS/DAY</u></b>
9/1/2015 - 10/1/2015	67,482,600	2,176,858

**JACKSON STREET METERING PIT**

Operator: Ed Chelius

Date: October 2015

**Flow Jackson Street Pit**

<b><u>DATE</u></b>	<b><u>TOTAL GALLONS</u></b>	<b><u>GALLONS/DAY</u></b>
10/1/2015 - 11/1/2015	9,321,500	300,693

**Montgomery Avenue Metering Pit to the Rittenhouse P.S.**

<b><u>DATE</u></b>	<b><u>Total Flow</u></b>	<b><u>Average flow/day</u></b>
10/1/2015 - 11/1/2015	21,568,100	695,745

**Flow to Norristown**

<b><u>DATE</u></b>	<b><u>TOTAL GALLONS</u></b>	<b><u>GALLONS/DAY</u></b>
10/1/2015 - 11/1/2015	67,482,600	2,176,858

**JACKSON STREET METERING PIT**

Operator: Ed Chelius

Date: November 2015

**Flow Jackson Street Pit**

<b><u>DATE</u></b>	<b><u>TOTAL GALLONS</u></b>	<b><u>GALLONS/DAY</u></b>
11/1/2015 - 12/1/2015	10,591,000	353,133

**Montgomery Avenue Metering Pit to the Rittenhouse P.S.**

<b><u>DATE</u></b>	<b><u>Total Flow</u></b>	<b><u>Average flow/day</u></b>
11/1/2015 - 12/1/2015	14,309,500	476,983

**Flow to Norristown**

<b><u>DATE</u></b>	<b><u>TOTAL GALLONS</u></b>	<b><u>GALLONS/DAY</u></b>
11/1/2015 - 12/1/2015	40,699,000	2,176,858

**JACKSON STREET METERING PIT**

Operator: Ed Chelius

Date: December 2015

**Flow Jackson Street Pit**

<b><u>DATE</u></b>	<b><u>TOTAL GALLONS</u></b>	<b><u>GALLONS/DAY</u></b>
12/1/2015 - 1/1/2016	12,276,000	396,000

**Montgomery Avenue Metering Pit to the Rittenhouse P.S.**

<b><u>DATE</u></b>	<b><u>Total Flow</u></b>	<b><u>Average flow/day</u></b>
12/1/2015 - 1/1/2016	28,520,700	920.022

**Flow to Norristown**

<b><u>DATE</u></b>	<b><u>TOTAL GALLONS</u></b>	<b><u>GALLONS/DAY</u></b>
12/1/2015 - 1/1/2016	40,699,000	2,176,858

**ATTACHMENT E**  
**MONTHLY ADF TO NMWA**

**Table 6  
2015 TOTAL FLOW TO NORRISTOWN  
WEST NORRITON TOWNSHIP**

<b>Average Daily Flow</b>	<b>Rittenhouse Blvd Pump Station (gpd)</b>	<b>Jackson Street Pit (gpd)</b>	<b>Total Flow to Norristown (gpd)</b>
January	1,765,629	361,632	2,127,261
February	1,649,457	328,746	1,978,203
March	2,617,167	511,771	3,128,938
April	3,009,310	471,863	3,481,173
May	1,071,816	379,745	1,451,561
June	1,598,126	303,233	1,901,359
July	1,751,812	345,264	2,097,076
August	1,026,774	353,980	1,380,754
September	872,600	386,920	1,259,520
October	1,240,903	300,693	1,541,596
November	953,266	353,133	1,306,399
December	1,680,290	396,000	2,076,290

Average total flow (gpd)	19,237,150	4,492,980	23,730,130
Average Daily Flow (gpd)	1,603,096	374,415	1,977,511

**Table 7**  
**Average Daily Flow to NMWA (2008 to 2015)**  
**West Norriton Township**

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

<b>Jackson Street</b>									
Month	2008	2009	2010	2011	2012	2013	2014	2015	
January	790,335	769,226	957,096	926,654	774,271	501,065	549,006	361,632	
February	778,410	702,625	984,242	1,181,932	627,951	324,078	381,053	328,746	
March	939,700	634,481	1,199,387	1,382,040	441,216	293,412	455,265	511,771	
April	891,593	787,590	1,057,330	1,107,757	404,566	293,516	363,277	471,863	
May	976,874	799,035	844,048	821,629	315,281	422,419	333,000	379,745	
June	737,986	818,420	810,590	910,306	42,916	422,650	402,150	303,233	
July	572,561	711,158	721,716	780,844	359,752	314,109	427,270	345,264	
August	730,770	919,719	604,587	965,958	318,684	509,303	437,970	353,980	
September	519,453	841,158	749,493	921,690	198,200	494,650	368,222	386,920	
October	605,374	914,658	944,132	629,923	264,568	387,968	393,510	300,693	
November	723,646	865,060	899,283	1,031,928	356,193	348,340	336,196	353,133	
December	839,361	1,062,719	962,383	599,409	381,393	405,984	416,813	396,000	
<b>Total flow (gpd)</b>	<b>9,106,063</b>	<b>9,825,849</b>	<b>10,734,287</b>	<b>11,260,070</b>	<b>4,484,991</b>	<b>4,717,494</b>	<b>4,863,732</b>	<b>4,492,980</b>	
<b>Average daily (gpd)</b>	<b>758,839</b>	<b>818,821</b>	<b>894,524</b>	<b>938,339</b>	<b>373,749</b>	<b>393,125</b>	<b>405,311</b>	<b>374,415</b>	

	2008	2009	2010	2011	2012	2013	2014	2015	
<b>Average daily to NMWA (gpd)</b>	1,957,216	1,776,566	2,027,275	2,356,834	1,830,048	1,905,261	1,963,174	2,023,620	
<b>Total precipitation (inch)</b>	41.78	48.17	44.06	54.19	44.56	49.64	39.99	23.59	

\* 2015 Precipitation from www.accuweather.com for 19403

**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**

**The Meter Guy, LLC**

5758 Glen Oaks Drive  
 Narvon, PA 17555  
 Phone 717-768-0028  
 Fax: 866-323-5142

MAR 19 2015

**Invoice**

DATE	INVOICE #
2/23/2015	2497

<b>BILL TO</b>
WEST NORRITON 1634 WEST MARSHALL STREET JEFFERSONVILLE, PA 19403 ATTN: ACCOUNTS PAYABLE

<b>SHIP TO</b>
WEST NORRITON 1634 WEST MARSHALL STREET JEFFERSONVILLE, PA 19403 ATTN: Tony Tuski

P.O. NUMBER	TERMS	REP	SHIP	VIA	F.O.B.	PROJECT
	Net 30	DEM	2/20/2015	Our Truck		

QUANTITY	ITEM CODE	DESCRIPTION	PRICE EACH	AMOUNT
7	Calibration	Quarterly service to calibrate flow meters	75.00	525.00
65	miles	Mileage	0.65	42.25
2	Pens	2 packs of Blue Chessel pens	27.50	55.00

**POSTED**

<b>APPROVED FOR PAYMENT</b>	
DEPT. CHRNM.	FINANCE CHRNM.
<b>DISTRIBUTION</b>	
80 429.372	622.25
WARRANT NO.	
DATE	3/22

SMB  
3-27

**Total** \$622.25

TheMeterGuy, LLC.

5758 GLEN OAKS DRIVE NARVON, PA 17555  
PHONE: (717) 940-1987

\*\*\*SERVICE REPORT\*\*\*

KAREN MADDEN  
WEST NORRITON  
1630 WEST MARSHALL  
JEFFERSONVILLE, PA 19403

SERVICE DATE: 2/20/2015  
METER#: C2000 AA  
LOCATION: JACKSON STREET  
SERIAL #: 9902E3010E6/US21707-001  
MANUFACTURER: E & H/CHESELL  
RECORDER: 392  
TRANSMITTER: FMU90  
PRIMARY: 9" PARSHALL FLUME  
MAXIMUM CAPACITY: 3.5 MGD  
SERVICE CONTRACT: QUARTERLY

\*WORK PERFORMED\*

---

CLEANED EQUIPMENT: X      PRIMARY: X

**\*RECORDER CALIBRATION\***    CHECKED AT: 0, 25, 50 & 100%  
ERROR: 0%      CORRECTED ACCURACY: ±1%

**\*TOTALIZER CALIBRATION\***    CHECKED AT: 0, 25, 50 & 100%  
ERROR: 0%      CORRECTED ACCURACY: ±1%

**\*TRANSMITTER CALIBRATION\***  
FLOW MEASUREMENTS  
ERROR: 0%      CORRECTED ACCURACY: ±1%

---

COMMENTS: LEFT EQUIPMENT OPERATING PROPERLY.

SERVICE REPRESENTATIVE: J CHRIS CALLAHAN  
copies:

PERSON SEEN: ED CHELLIS

**TheMeterGuy, LLC.**

5758 GLEN OAKS DRIVE NARVON, PA 17555  
PHONE: (717) 940-1987

**\*\*\*SERVICE REPORT\*\*\***

KAREN MADDEN  
WEST NORRITON  
1630 WEST MARSHALL  
JEFFERSONVILLE, PA 19403

**SERVICE DATE:** 2/20/2015  
**METER#:** C2000 AB  
**LOCATION:** RITTENHOUSE PUMP STATION  
**SERIAL #:** 8208A0402  
**MANUFACTURER:** FISCHER & PORTER  
**RECORDER:** 51C1102DC  
**TRANSMITTER:** 10D1416A  
**PRIMARY:** MAG  
**MAXIMUM CAPACITY:** 6000 GPM  
**SERVICE CONTRACT:** QUARTERLY

**\*WORK PERFORMED\***

---

**CLEANED EQUIPMENT:** X      **PRIMARY:** X

**\*RECORDER CALIBRATION\***    **CHECKED AT:** 0, 25, 50 & 100%  
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**\*TRANSMITTER CALIBRATION\***  
0, 25, 50 & 100%  
**ERROR:** 0%      **CORRECTED ACCURACY:** ±1%

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**SERVICE REPRESENTATIVE:** J CHRIS CALLAHAN  
copies:

**PERSON SEEN:** ED CHELLIS

**TheMeterGuy, LLC.**

5758 GLEN OAKS DRIVE NARVON, PA 17555

PHONE: (717) 940-1987

**\*\*\*SERVICE REPORT\*\*\***

KAREN MADDEN  
WEST NORRITON  
1630 WEST MARSHALL  
JEFFERSONVILLE, PA 19403

**SERVICE DATE:** 2/20/2015  
**METER#:** C2000 AC  
**LOCATION:** WHITEHALL ROAD  
**SERIAL #:** 8503A0455  
**MANUFACTURER:** FISCHER & PORTER  
**RECORDER:** 51C1102DZ  
**TRANSMITTER:** 50PZ1112  
**PRIMARY:** MAG X  
**MAXIMUM CAPACITY:** 3000 GPM  
**SERVICE CONTRACT:** QUARTERLY

**\*WORK PERFORMED\***

---

**CLEANED EQUIPMENT:** X      **PRIMARY:** X

**\*RECORDER CALIBRATION\***    **CHECKED AT:** 0, 15, 50 & 80%  
**ERROR:** 0%      **CORRECTED ACCURACY:** ±1%

**\*TOTALIZER CALIBRATION\***    **CHECKED AT:** 0, 15, 50 & 80%  
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**\*TRANSMITTER CALIBRATION\***  
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**SERVICE REPRESENTATIVE:** J CHRIS CALLAHAN  
copies:

**PERSON SEEN:** ED CHELLIS

**TheMeterGuy, LLC.**

5758 GLEN OAKS DRIVE NARVON, PA 17555  
PHONE: (717) 940-1987

**\*\*\*SERVICE REPORT\*\*\***

KAREN MADDEN  
WEST NORRITON  
1630 WEST MARSHALL  
JEFFERSONVILLE, PA 19403

**SERVICE DATE:** 2/20/2015  
**METER#:** C2000 AD  
**LOCATION:** PORT INDIAN  
**SERIAL #:** BF104551-001-01-01  
**MANUFACTURER:** F&P / FLOMOTION  
**RECORDER:** 1392  
**TRANSMITTER:** BE6200  
**PRIMARY:** 8 INCH  
**MAXIMUM CAPACITY:** 1500 GPM  
**SERVICE CONTRACT:** QUARTERLY

**\*WORK PERFORMED\***

---

**CLEANED EQUIPMENT:** X     **PRIMARY:** X

**\*RECORDER CALIBRATION\***    **CHECKED AT:** 0, 25, 50 & 100%  
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**\*TRANSMITTER CALIBRATION\***  
**CHECKED OUTPUT AT ZERO FLOW**  
**ERROR:** 0%     **CORRECTED ACCURACY:** ±1%

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**COMMENTS:** LEFT EQUIPMENT OPERATING PROPERLY.

**SERVICE REPRESENTATIVE:** J CHRIS CALLAHAN  
copies:

**PERSON SEEN:** ED CHELLIS

**TheMeterGuy, LLC.**

5758 GLEN OAKS DRIVE NARVON, PA 17555  
PHONE: (717) 940-1987

**\*\*\*SERVICE REPORT\*\*\***

KAREN MADDEN  
WEST NORRITON  
1630 WEST MARSHALL  
JEFFERSONVILLE, PA 19403

**SERVICE DATE:** 2/20/2015  
**METER#:** C2000 AE  
**LOCATION:** CHESTNUT STREET  
**SERIAL #:** N28401/20/4  
**MANUFACTURER:** ABB  
**RECORDER:** 1900 COMMANDER  
**TRANSMITTER:** MAGMASTER  
**PRIMARY:** 4 INCH  
**MAXIMUM CAPACITY:** 500 GPM  
**SERVICE CONTRACT:** QUARTERLY

**\*WORK PERFORMED\***

---

**CLEANED EQUIPMENT:** X     **PRIMARY:** X

**\*RECORDER CALIBRATION\***    **CHECKED AT:** 0, 25, 50 & 100%  
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**\*TRANSMITTER CALIBRATION\***  
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**SERVICE REPRESENTATIVE:** J CHRIS CALLAHAN  
copies:

**PERSON SEEN:** ED CHELLIS

**TheMeterGuy, LLC.**

5758 GLEN OAKS DRIVE NARVON, PA 17555  
PHONE: (717) 940-1987

**\*\*\*SERVICE REPORT\*\*\***

KAREN MADDEN  
WEST NORRITON  
1630 WEST MARSHALL  
JEFFERSONVILLE, PA 19403

**SERVICE DATE:** 2/20/2015  
**METER#:** C2000 AF  
**LOCATION:** MONTGOMERY STREET  
**SERIAL #:** US21223-001-01-01-37-07  
**MANUFACTURER:** E & H/ CHESSELL  
**RECORDER:** 392  
**TRANSMITTER:** FMU 90  
**PRIMARY:** 90° V-NOTCH  
**MAXIMUM CAPACITY:** 1000 GPM  
**SERVICE CONTRACT:** QUARTERLY

**\*WORK PERFORMED\***

---

**CLEANED EQUIPMENT:** X      **PRIMARY:** X

**\*RECORDER CALIBRATION\***    **CHECKED AT:** 0,25,50,75,& 100  
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**\*TRANSMITTER CALIBRATION\***  
FLOW MEASUREMENTS  
**ERROR:** 0%      **CORRECTED ACCURACY:** ± 1%

---

**COMMENTS:** LEFT EQUIPMENT OPERATING PROPERLY.

**SERVICE REPRESENTATIVE:** J CHRIS CALLAHAN  
copies:

**PERSON SEEN:** ED CHELLIS

# The Meter Guy, LLC

5758 Glen Oaks Drive  
 Narvon, PA 17555  
 Phone 717-768-0028  
 Fax: 866-323-5142

**JUN 10 2015**

# Invoice

DATE	INVOICE #
6/1/2015	2641

<b>BILL TO</b>
WEST NORRITON 1634 WEST MARSHALL STREET JEFFERSONVILLE, PA 19403 ATTN: ACCOUNTS PAYABLE

<b>SHIP TO</b>
WEST NORRITON 1634 WEST MARSHALL STREET JEFFERSONVILLE, PA 19403 ATTN: Tony Tuski

P.O. NUMBER	TERMS	REP	SHIP	VIA	F.O.B.	PROJECT
	Net 30	DEM	5/29/2015	Our Truck		

QUANTITY	ITEM CODE	DESCRIPTION	PRICE EACH	AMOUNT
7	Calibration	Quarterly service to calibrate flow meters	75.00	525.00
65	miles	Mileage	0.65	42.25

**APPROVED FOR PAYMENT**  
**POSTED**  
 80 429.372  
 DEPT. CHRMN. FINANCE CHRMN.  
**DISTRIBUTION**  
 WARRANT NO.  
 DATE 4/16/15

*OK to pay sewer system Act*

**Total** \$567.25

TheMeterGuy, LLC.  
5758 GLEN OAKS DRIVE NARVON, PA 17555  
PHONE: (717) 940-1987

**\*\*\*SERVICE REPORT\*\*\***

KAREN MADDEN  
WEST NORRITON  
1630 WEST MARSHALL  
JEFFERSONVILLE, PA 19403

**SERVICE DATE:** 5/29/2015  
**METER#:** C2000 AA  
**LOCATION:** JACKSON STREET  
**SERIAL #:** 9902E3010E6/US21707-001  
**MANUFACTURER:** E & H/CHESELL  
**RECORDER:** 392  
**TRANSMITTER:** FMU90  
**PRIMARY:** 9" PARSHALL FLUME  
**MAXIMUM CAPACITY:** 3.5 MGD  
**SERVICE CONTRACT:** QUARTERLY

**\*WORK PERFORMED\***

---

**CLEANED EQUIPMENT:** X      **PRIMARY:** X

**\*RECORDER CALIBRATION\***    **CHECKED AT:** 0, 25, 50 & 100%  
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**\*TRANSMITTER CALIBRATION\***  
FLOW MEASUREMENTS  
**ERROR:** 0%      **CORRECTED ACCURACY:** ±1%

---

**COMMENTS:** LEFT EQUIPMENT OPERATING PROPERLY.

**SERVICE REPRESENTATIVE:** DAVID MOORE      **PERSON SEEN:** ED CHELLIS  
**copies:**

**TheMeterGuy, LLC.**

5758 GLEN OAKS DRIVE NARVON, PA 17555  
PHONE: (717) 940-1987

**\*\*\*SERVICE REPORT\*\*\***

KAREN MADDEN  
WEST NORRITON  
1630 WEST MARSHALL  
JEFFERSONVILLE, PA 19403

**SERVICE DATE:** 5/29/2015  
**METER#:** C2000 AB  
**LOCATION:** RITTENHOUSE PUMP STATION  
**SERIAL #:** 8208A0402  
**MANUFACTURER:** FISCHER & PORTER  
**RECORDER:** 51C1102DC  
**TRANSMITTER:** 10D1416A  
**PRIMARY:** MAG  
**MAXIMUM CAPACITY:** 6000 GPM  
**SERVICE CONTRACT:** QUARTERLY

**\*WORK PERFORMED\***

---

**CLEANED EQUIPMENT:** X      **PRIMARY:** X

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**\*TRANSMITTER CALIBRATION\***  
0, 25, 50 & 100%  
**ERROR:** 0%      **CORRECTED ACCURACY:** ±1%

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**SERVICE REPRESENTATIVE:** DAVID MOORE      **PERSON SEEN:** ED CHELLIS  
**copies:**

**TheMeterGuy, LLC.**

5758 GLEN OAKS DRIVE NARVON, PA 17555  
PHONE: (717) 940-1987

**\*\*\*SERVICE REPORT\*\*\***

KAREN MADDEN  
WEST NORRITON  
1630 WEST MARSHALL  
JEFFERSONVILLE, PA 19403

**SERVICE DATE:** 5/29/2015  
**METER#:** C2000 AC  
**LOCATION:** WHITEHALL ROAD  
**SERIAL #:** 8503A0455  
**MANUFACTURER:** FISCHER & PORTER  
**RECORDER:** 51C1102DZ  
**TRANSMITTER:** 50PZ1112  
**PRIMARY:** MAG X  
**MAXIMUM CAPACITY:** 3000 GPM  
**SERVICE CONTRACT:** QUARTERLY

**\*WORK PERFORMED\***

---

**CLEANED EQUIPMENT:** X      **PRIMARY:** X

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**\*TRANSMITTER CALIBRATION\***  
0, 15, 50 & 80%  
**ERROR:** 0%      **CORRECTED ACCURACY:** ±1%

---

**COMMENTS:** LEFT EQUIPMENT OPERATING PROPERLY.

**SERVICE REPRESENTATIVE:** J CHRIS CALLAHAN      **PERSON SEEN:** ED CHELLIS  
**copies:**

**TheMeterGuy, LLC.**

5758 GLEN OAKS DRIVE NARVON, PA 17555  
PHONE: (717) 940-1987

**\*\*\*SERVICE REPORT\*\*\***

KAREN MADDEN  
WEST NORRITON  
1630 WEST MARSHALL  
JEFFERSONVILLE, PA 19403

**SERVICE DATE:** 5/29/2015  
**METER#:** C2000 AD  
**LOCATION:** PORT INDIAN  
**SERIAL #:** BF104551-001-01-01  
**MANUFACTURER:** F&P / FLOMOTION  
**RECORDER:** 1392  
**TRANSMITTER:** BE6200  
**PRIMARY:** 8 INCH  
**MAXIMUM CAPACITY:** 1500 GPM  
**SERVICE CONTRACT:** QUARTERLY

**\*WORK PERFORMED\***

---

**CLEANED EQUIPMENT:** X      **PRIMARY:** X

**\*RECORDER CALIBRATION\***    **CHECKED AT:** 0, 25, 50 & 100%  
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**\*TOTALIZER CALIBRATION\***    **CHECKED AT:** 0, 50 & 100%  
**ERROR:** 0%      **CORRECTED ACCURACY:** ±1%

**\*TRANSMITTER CALIBRATION\***  
**CHECKED OUTPUT AT ZERO FLOW**  
**ERROR:** 0%      **CORRECTED ACCURACY:** ±1%

---

**COMMENTS:** LEFT EQUIPMENT OPERATING PROPERLY.

**SERVICE REPRESENTATIVE:** J CHRIS CALLAHAN      **PERSON SEEN:** ED CHELLIS  
**copies:**

**TheMeterGuy, LLC.**

5758 GLEN OAKS DRIVE NARVON, PA 17555  
PHONE: (717) 940-1987

**\*\*\*SERVICE REPORT\*\*\***

KAREN MADDEN  
WEST NORRITON  
1630 WEST MARSHALL  
JEFFERSONVILLE, PA 19403

**SERVICE DATE:** 5/29/2015  
**METER#:** C2000 AE  
**LOCATION:** CHESTNUT STREET  
**SERIAL #:** N28401/20/4  
**MANUFACTURER:** ABB  
**RECORDER:** 1900 COMMANDER  
**TRANSMITTER:** MAGMASTER  
**PRIMARY:** 4 INCH  
**MAXIMUM CAPACITY:** 500 GPM  
**SERVICE CONTRACT:** QUARTERLY

**\*WORK PERFORMED\***

---

**CLEANED EQUIPMENT:** X      **PRIMARY:** X

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**\*TRANSMITTER CALIBRATION\***  
**CHECKED OUTPUT AT ZERO & FLOW RATE**  
**ERROR:** 0%      **CORRECTED ACCURACY:** ±1%

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**COMMENTS:** LEFT EQUIPMENT OPERATING PROPERLY.

**SERVICE REPRESENTATIVE:** J CHRIS CALLAHAN      **PERSON SEEN:** ED CHELLIS  
**copies:**

**TheMeterGuy, LLC.**

5758 GLEN OAKS DRIVE NARVON, PA 17555  
PHONE: (717) 940-1987

**\*\*\*SERVICE REPORT\*\*\***

KAREN MADDEN  
WEST NORRITON  
1630 WEST MARSHALL  
JEFFERSONVILLE, PA 19403

**SERVICE DATE:** 5/29/2015  
**METER#:** C2000 AF  
**LOCATION:** MONTGOMERY STREET  
**SERIAL #:** US21223-001-01-01-37-07  
**MANUFACTURER:** E & H/ CHESSELL  
**RECORDER:** 392  
**TRANSMITTER:** FMU 90  
**PRIMARY:** 90° V-NOTCH  
**MAXIMUM CAPACITY:** 1000 GPM  
**SERVICE CONTRACT:** QUARTERLY

**\*WORK PERFORMED\***

---

**CLEANED EQUIPMENT:** X      **PRIMARY:** X

**\*RECORDER CALIBRATION\***      **CHECKED AT:** 0,25,50,75,& 100

**ERROR:** 0%      **CORRECTED ACCURACY:** ±1%

**\*TOTALIZER CALIBRATION\***      **CHECKED AT:** 0,25,50,75, & 100

**ERROR:** 0%      **CORRECTED ACCURACY:** ± 1%

**\*TRANSMITTER CALIBRATION\***

FLOW MEASUREMENTS

**ERROR:** 0%      **CORRECTED ACCURACY:** ± 1%

---

**COMMENTS:** LEFT EQUIPMENT OPERATING PROPERLY.

**SERVICE REPRESENTATIVE:** J CHRIS CALLAHAN      **PERSON SEEN:** ED CHELLIS  
**copies:**

**The Meter Guy, LLC**

5758 Glen Oaks Drive  
 Narvon, PA 17555  
 Phone 717-768-0028  
 Fax: 866-323-5142

SEP 18 2015

**Invoice**

DATE	INVOICE #
9/2/2015	2805

**BILL TO**

WEST NORRITON  
 1634 WEST MARSHALL STREET  
 JEFFERSONVILLE, PA 19403  
 ATTN: ACCOUNTS PAYABLE

**SHIP TO**

WEST NORRITON  
 1634 WEST MARSHALL STREET  
 JEFFERSONVILLE, PA 19403  
 ATTN: Tony Tuski

P.O. NUMBER	TERMS	REP	SHIP	VIA	F.O.B.	PROJECT
	Net 30	DEM	8/31/2015	Our Truck		
QUANTITY	ITEM CODE	DESCRIPTION			PRICE EACH	AMOUNT
8	Calibration	Quarterly service to check flow meters			75.00	600.00
65	Mileage	Mileage			0.65	42.25
<p><b>APPROVED FOR PAYMENT</b>                  80 429.312      642.25                  DEPT. CHRNM.      FINANCE CHRNM.                  DISTRIBUTION                  WARRANT NO. _____                  DATE _____                  OK to Pay Sewer Maint. Acct.</p>						
<b>Total</b>						\$642.25

**TheMeterGuy, LLC.**

5758 GLEN OAKS DRIVE NARVON, PA 17555  
PHONE: (717) 940-1987

**\*\*\*SERVICE REPORT\*\*\***

KAREN MADDEN  
WEST NORRITON  
1630 WEST MARSHALL  
JEFFERSONVILLE, PA 19403

**SERVICE DATE:** 8/31/2015  
**METER#:** C2000 AF  
**LOCATION:** MONTGOMERY STREET  
**SERIAL #:** US21223-001-01-01-37-07  
**MANUFACTURER:** E & H/ CHESSELL  
**RECORDER:** 392  
**TRANSMITTER:** FMU 90  
**PRIMARY:** 90 V-NOTCH  
**MAXIMUM CAPACITY:** 1000 GPM  
**SERVICE CONTRACT:** QUARTERLY

---

**\*WORK PERFORMED\***

**CLEANED EQUIPMENT:** X      **PRIMARY:** X

**\*RECORDER CALIBRATION\***    **CHECKED AT:** 0,25,50,75,& 100  
**ERROR:** 0%      **CORRECTED ACCURACY:** ±1%

**\*TOTALIZER CALIBRATION\***    **CHECKED AT:** 0,25,50,75, & 100%  
**ERROR:** 0%      **CORRECTED ACCURACY:** ±1%

**\*TRANSMITTER CALIBRATION\***    **FLOW MEASUREMENTS**  
**ERROR:** +1/2%      **CORRECTED ACCURACY:** ±1%

---

**COMMENTS:** LEFT EQUIPMENT OPERATING PROPERLY.

**SERVICE REPRESENTATIVE:** DAVE MOORE    **PERSON SEEN:** ED CHELLIS  
**copies:**

TheMeterGuy, LLC.

5758 GLEN OAKS DRIVE NARVON, PA 17555,  
PHONE: (717) 940-1987

\*\*\*SERVICE REPORT\*\*\*

KAREN MADDEN  
WEST NORRITON  
1630 WEST MARSHALL  
JEFFERSONVILLE, PA 19403

SERVICE DATE: 8/31/2015  
METER#: C2000 AC  
LOCATION: WHITEHALL ROAD  
SERIAL #: 8503A0455  
MANUFACTURER: FISCHER & PORTER  
RECORDER: 51C1102DZ  
TRANSMITTER: 50PZ1112  
PRIMARY: MAG X  
MAXIMUM CAPACITY: 3000 GPM  
SERVICE CONTRACT: QUARTERLY

---

\*WORK PERFORMED\*

CLEANED EQUIPMENT: X    PRIMARY: X

**\*RECORDER CALIBRATION\*** CHECKED AT: 0, 15, 50 & 80%  
ERROR: 0%    CORRECTED ACCURACY: ±1%

**\*TOTALIZER CALIBRATION\*** CHECKED AT: 0, 15, 50 & 80%  
ERROR: 0%    CORRECTED ACCURACY: ±1%

**\*TRANSMITTER CALIBRATION\*** 0, 15, 50 & 80%  
ERROR: 0%    CORRECTED ACCURACY: ±1%

---

COMMENTS: LEFT EQUIPMENT OPERATING PROPERLY.

SERVICE REPRESENTATIVE: DAVE MOORE    PERSON SEEN: ED CHELLIS  
copies:

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PHONE: (717) 940-1987

\*\*\*SERVICE REPORT\*\*\*

KAREN MADDEN  
WEST NORRITON  
1630 WEST MARSHALL  
JEFFERSONVILLE, PA 19403

SERVICE DATE: 8/31/2015  
METER#: C2000 AA  
LOCATION: JACKSON STREET  
SERIAL #: 9902E3010E6/US21707-001  
MANUFACTURER: E & H/CHELSELL  
RECORDER: 392  
TRANSMITTER: FMU90  
PRIMARY: 9" PARSHALL FLUME  
MAXIMUM CAPACITY: 3.5 MGD  
SERVICE CONTRACT: QUARTERLY

---

\*WORK PERFORMED\*

CLEANED EQUIPMENT: X      PRIMARY: X

**\*RECORDER CALIBRATION\***    CHECKED AT: 0, 25, 50 & 100%  
ERROR: 0%      CORRECTED ACCURACY: ±1%

**\*TOTALIZER CALIBRATION\***    CHECKED AT: 0, 25, 50 & 100%  
ERROR: 0%      CORRECTED ACCURACY: ±1%

**\*TRANSMITTER CALIBRATION\***    FLOW MEASUREMENTS  
ERROR: 0%      CORRECTED ACCURACY: ±1%

---

COMMENTS: LEFT EQUIPMENT OPERATING PROPERLY.

SERVICE REPRESENTATIVE: DAVE MOORE    PERSON SEEN: ED C  
copies:

If you would like to receive  
these reports via email  
please send me a note  
to tanya@themeterguy.com

Thank you!  
Tanya

TheMeterGuy, LLC.

5758 GLEN OAKS DRIVE NARVON, PA 17555  
PHONE: (717) 940-1987

\*\*\*SERVICE REPORT\*\*\*

KAREN MADDEN  
WEST NORRITON  
1630 WEST MARSHALL  
JEFFERSONVILLE, PA 19403

SERVICE DATE: 8/31/2015  
METER#: C2000 AD  
LOCATION: PORT INDIAN  
SERIAL #: BF104551-001-01-01  
MANUFACTURER: F&P / FLOMOTION  
RECORDER: 1392  
TRANSMITTER: BE6200  
PRIMARY: 8 INCH  
MAXIMUM CAPACITY: 1500 GPM  
SERVICE CONTRACT: QUARTERLY

---

\*WORK PERFORMED\*

CLEANED EQUIPMENT: X      PRIMARY: X

**\*RECORDER CALIBRATION\*** CHECKED AT: 0, 25, 50 & 100%  
ERROR: 0%      CORRECTED ACCURACY: ±1%

**\*TOTALIZER CALIBRATION\*** CHECKED AT: 0, 50 & 100%  
ERROR: 0%      CORRECTED ACCURACY: ±1%

**\*TRANSMITTER CALIBRATION\*** CHECKED OUTPUT AT ZERO FLOW  
ERROR: 0%      CORRECTED ACCURACY: ±1%

---

COMMENTS: LEFT EQUIPMENT OPERATING PROPERLY.

SERVICE REPRESENTATIVE: DAVE MOORE    PERSON SEEN: ED CHELLIS  
copies:

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PHONE: (717) 940-1987

\*\*\*SERVICE REPORT\*\*\*

KAREN MADDEN  
WEST NORRITON  
1630 WEST MARSHALL  
JEFFERSONVILLE, PA 19403

**SERVICE DATE:** 8/31/2015  
**METER#:** C2000 AE  
**LOCATION:** CHESTNUT STREET  
**SERIAL #:** N28401/20/4  
**MANUFACTURER:** ABB  
**RECORDER:** 1900 COMMANDER  
**TRANSMITTER:** MAGMASTER  
**PRIMARY:** 4 INCH  
**MAXIMUM CAPACITY:** 500 GPM  
**SERVICE CONTRACT:** QUARTERLY

---

\*WORK PERFORMED\*

**CLEANED EQUIPMENT:** X    **PRIMARY:** X

**\*RECORDER CALIBRATION\***    **CHECKED AT:** 0, 25, 50 & 100%  
**ERROR:** 0%    **CORRECTED ACCURACY:** ±1%

**\*TOTALIZER CALIBRATION\***    **CHECKED AT:** ZERO & FLOW RATE  
**ERROR:** 0%    **CORRECTED ACCURACY:** ±1%

**\*TRANSMITTER CALIBRATION\***    **CHECKED OUTPUT AT ZERO & FLOW RATE**  
**ERROR:** 0%    **CORRECTED ACCURACY:** ±1%

---

**COMMENTS:** LEFT EQUIPMENT OPERATING PROPERLY.

**SERVICE REPRESENTATIVE:** DAVE MOORE    **PERSON SEEN:** ED CHELLIS  
**copies:**

**The Meter Guy, LLC**

5758 Glen Oaks Drive  
 Narvon, PA 17555  
 Phone 717-768-0028  
 Fax: 866-323-5142

JAN 07 2016

**Invoice**

DATE	INVOICE #
12/29/2015	3018

<b>BILL TO</b>
WEST NORRITON 1634 WEST MARSHALL STREET JEFFERSONVILLE, PA 19403 ATTN: ACCOUNTS PAYABLE

<b>SHIP TO</b>
WEST NORRITON 1634 WEST MARSHALL STREET JEFFERSONVILLE, PA 19403 ATTN: Tony Tuski

P.O. NUMBER	TERMS	REP	SHIP	VIA	F.O.B.	PROJECT
	Net 30	DEM	12/8/2015	Our Truck		

QUANTITY	ITEM CODE	DESCRIPTION	PRICE EACH	AMOUNT
10	Calibration	Quarterly service to check flow meters	75.00	750.00
65	Mileage	Mileage	0.65	42.25
4	Pens	Four packs of Chessell pens #200-502	27.50	110.00
1	Pens	One pack of Chessell pens #200-501	27.50	27.50
1	Shipping	Shipping	4.24	4.24

**APPROVED FOR PAYMENT**  
 80 429.372 933.99  
 DEPT. CRIM. FINANCE CHREN.  
 DISTRIBUTION  
 DATE 1/12/16  
 AMB 1-15

OK to Pay  
 Sewer Maint Total \$933.99

**TheMeterGuy, LLC.**

5758 GLEN OAKS DRIVE NARVON, PA 17555  
PHONE: (717) 940-1987

**\*\*\*SERVICE REPORT\*\*\***

**JAN 07 2016**

KAREN MADDEN  
WEST NORRITON  
1630 WEST MARSHALL  
JEFFERSONVILLE, PA 19403

**SERVICE DATE:** 12/8/2015  
**METER#:** C2000 AE  
**LOCATION:** CHESTNUT STREET  
**SERIAL #:** N28401/20/4  
**MANUFACTURER:** ABB  
**RECORDER:** 1900 COMMANDER  
**TRANSMITTER:** MAGMASTER  
**PRIMARY:** 4 INCH  
**MAXIMUM CAPACITY:** 500 GPM  
**SERVICE CONTRACT:** QUARTERLY

---

**\*WORK PERFORMED\***

**CLEANED EQUIPMENT:** X     **PRIMARY:** X

**\*RECORDER CALIBRATION\***    **CHECKED AT:** 0, 25, 50 & 100%  
**ERROR:** 0%     **CORRECTED ACCURACY:** ±1%

**\*TOTALIZER CALIBRATION\***    **CHECKED AT:** ZERO & FLOW RATE  
**ERROR:** 0%     **CORRECTED ACCURACY:** ±1%

**\*TRANSMITTER CALIBRATION\***    **CHECKED OUTPUT AT ZERO & FLOW RATE**  
**ERROR:** 0%     **CORRECTED ACCURACY:** ±1%

---

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**copies:**

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\*\*\*SERVICE REPORT\*\*\*

KAREN MADDEN  
WEST NORRITON  
1630 WEST MARSHALL  
JEFFERSONVILLE, PA 19403

**SERVICE DATE:** 12/8/2015  
**METER#:** C2000 AF  
**LOCATION:** MONTGOMERY STREET  
**SERIAL #:** US21223-001-01-01-37-07  
**MANUFACTURER:** E & H/ CHESSELL  
**RECORDER:** 392  
**TRANSMITTER:** FMU 90  
**PRIMARY:** 90 V-NOTCH  
**MAXIMUM CAPACITY:** 1000 GPM  
**SERVICE CONTRACT:** QUARTERLY

---

\*WORK PERFORMED\*

CLEANED EQUIPMENT: X      PRIMARY: X

**\*RECORDER CALIBRATION\***    CHECKED AT: 0,25,50,75,& 100%  
ERROR: 0%      CORRECTED ACCURACY:  $\pm 1\%$

**\*TOTALIZER CALIBRATION\***    CHECKED AT: 0,25,50,75, & 100%  
ERROR: 0%      CORRECTED ACCURACY:  $\pm 1\%$

**\*TRANSMITTER CALIBRATION\***    FLOW MEASUREMENTS  
ERROR: +2%      CORRECTED ACCURACY:  $\pm 1\%$

---

COMMENTS: LEFT EQUIPMENT OPERATING PROPERLY.

SERVICE REPRESENTATIVE: DAVE MOORE    PERSON SEEN: ED CHELLIS  
copies:

**TheMeterGuy, LLC.**

5758 GLEN OAKS DRIVE NARVON, PA 17555  
PHONE: (717) 940-1987

**\*\*\*SERVICE REPORT\*\*\***

KAREN MADDEN  
WEST NORRITON  
1630 WEST MARSHALL  
JEFFERSONVILLE, PA 19403

**SERVICE DATE:** 12/8/2015  
**METER#:** C2000 AB  
**LOCATION:** RITTENHOUSE PUMP STATION  
**SERIAL #:** 356807  
**MANUFACTURER:** SPARLING/CHESELL  
**RECORDER:** 392  
**TRANSMITTER:** FM656-185-1A3-0  
**PRIMARY:** MAG  
**MAXIMUM CAPACITY:** 10,000 GPM  
**SERVICE CONTRACT:** QUARTERLY

---

**\*WORK PERFORMED\***

**CLEANED EQUIPMENT:** X     **PRIMARY:** X

**\*RECORDER CALIBRATION\***    **CHECKED AT:** 0, 25, 50 & 100%  
**ERROR:** 0%     **CORRECTED ACCURACY:** ±1%

**\*TOTALIZER CALIBRATION\***    **CHECKED AT:** OPERATING RATE  
**ERROR:** 0%     **CORRECTED ACCURACY:** ±1%

**\*TRANSMITTER CALIBRATION\***    **INTERNAL SIMULATION**  
**ERROR:** 0%     **CORRECTED ACCURACY:** ±1%

---

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**\*\*\*SERVICE REPORT\*\*\***

KAREN MADDEN  
WEST NORRITON  
1630 WEST MARSHALL  
JEFFERSONVILLE, PA 19403

**SERVICE DATE:** 12/8/2015  
**METER#:** C2000 AC  
**LOCATION:** WHITEHALL ROAD  
**SERIAL #:** 8503A0455  
**MANUFACTURER:** FISCHER & PORTER  
**RECORDER:** 51C1102DZ  
**TRANSMITTER:** 50PZ1112  
**PRIMARY:** MAG X  
**MAXIMUM CAPACITY:** 3000 GPM  
**SERVICE CONTRACT:** QUARTERLY

---

**\*WORK PERFORMED\***

**CLEANED EQUIPMENT:** X     **PRIMARY:** X

**\*RECORDER CALIBRATION\*** CHECKED AT: 0, 15, 50 & 80%  
**ERROR:** 0%     **CORRECTED ACCURACY:** ±1%

**\*TOTALIZER CALIBRATION\*** CHECKED AT: 0, 15, 50 & 80%  
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**\*TRANSMITTER CALIBRATION\*** 0, 15, 50 & 80%  
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JEFFERSONVILLE, PA 19403

**SERVICE DATE:** 12/8/2015  
**METER#:** C2000 AA  
**LOCATION:** JACKSON STREET  
**SERIAL #:** 9902E3010E6/US21707-001  
**MANUFACTURER:** E & H/CHESELL  
**RECORDER:** 392  
**TRANSMITTER:** FMU90  
**PRIMARY:** 9" PARSHALL FLUME  
**MAXIMUM CAPACITY:** 3.5 MGD  
**SERVICE CONTRACT:** QUARTERLY

---

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**ERROR:** 0%     **CORRECTED ACCURACY:** ±1%

**\*TRANSMITTER CALIBRATION\***    **FLOW MEASUREMENTS**  
**ERROR:** 0%     **CORRECTED ACCURACY:** ±1%

---

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**copies:**

**TheMeterGuy, LLC.**

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PHONE: (717) 940-1987

**\*\*\*SERVICE REPORT\*\*\***

KAREN MADDEN  
WEST NORRITON  
1630 WEST MARSHALL  
JEFFERSONVILLE, PA 19403

**SERVICE DATE:** 12/8/2015  
**METER#:** C2000 AD  
**LOCATION:** PORT INDIAN  
**SERIAL #:** BF104551-001-01-01  
**MANUFACTURER:** F&P / FLOMOTION  
**RECORDER:** 1392  
**TRANSMITTER:** BE6200  
**PRIMARY:** 8 INCH  
**MAXIMUM CAPACITY:** 1500 GPM  
**SERVICE CONTRACT:** QUARTERLY

---

**\*WORK PERFORMED\***

**CLEANED EQUIPMENT:** X     **PRIMARY:** X

**\*RECORDER CALIBRATION\*** CHECKED AT: 0, 25, 50 & 100%  
**ERROR:** 0%     **CORRECTED ACCURACY:** ±1%

**\*TOTALIZER CALIBRATION\*** CHECKED AT: 0, 50 & 100%  
**ERROR:** 0%     **CORRECTED ACCURACY:** ±1%

**\*TRANSMITTER CALIBRATION\*** CHECKED OUTPUT AT ZERO FLOW  
**ERROR:** 0%     **CORRECTED ACCURACY:** ±1%

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**SERVICE REPRESENTATIVE:** DAVE MOORE   **PERSON SEEN:** ED CHELLIS  
**copies:**