

**2014 MUNICIPAL WASTELOAD MANAGEMENT REPORT
(CH. 94 REPORT)**

**WEST NORRITON TOWNSHIP
MONTGOMERY COUNTY, PENNSYLVANIA**

RETTEW Project No. 057702019
MARCH 2015



RETTEWSM

Prepared by
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CHAPTER 94 MUNICIPAL WASTELOAD MANAGEMENT ANNUAL REPORT

For Calendar Year: 2014

- 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.:	PAN/A
Mailing Address:	1630 W. Marshall Street	Effective Date:	N/A
City, State, Zip:	Jeffersonville, PA	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:	RETTEW Associates, Inc.
CHAPTER 94 REPORT COMPONENTS			
<p>1. Attach to this report a line graph depicting the monthly average flows (expressed in MGD) for each month for the past 5 years and projecting the flows for the next 5 years. The graph must also include a line depicting the hydraulic design capacity per the WQM permit. <u>(25 Pa. Code § 94.12(a)(1))</u></p> <p>Check the appropriate boxes:</p> <p><input type="checkbox"/> Line graph for flows attached (Attachment)</p> <p><input type="checkbox"/> DEP Chapter 94 Spreadsheet used (Attachment)</p> <p><input checked="" type="checkbox"/> Section 1 is not applicable (report is for a collection system).</p>			
<p>2. Attach to this report a line graph depicting the monthly average organic loads (express as lbs BOD5/day) for each month for the past 5 years and projecting the organic loads for the next 5 years. The graph must also include a line depicting the organic design capacity of the treatment plant per the WQM permit. <u>(25 Pa. Code § 94.12(a)(2))</u></p> <p>Check the appropriate boxes:</p> <p><input type="checkbox"/> Line graph for organic loads attached (Attachment M)</p> <p><input type="checkbox"/> DEP Chapter 94 Spreadsheet used (Attachment)</p> <p><input checked="" type="checkbox"/> Section 2 is not applicable (report is for a collection system).</p>			
<p>3. If the DEP Chapter 94 Spreadsheet was not used to determine projections, discuss the basis for the hydraulic and organic projections. In all cases, include a description of the time needed to expand the plant to meet the load projections, if necessary, and data used to support the projections should be included in an appendix to this report. <u>(25 Pa. Code § 94.12(a)(3))</u></p> <p>All flow will be treated at Norritown Wastewater Treatment Facility.</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**)
- List summarizing each extension or project attached (**Attachment**)
- Schedules describing how each project will be completed over time and effects attached (**Attachment**)

Comments:

No sewer extensions were permitted in 2014. See attached Table 2 in and attached map for projects that have been approved in previous years and projects in the planning stages that require connection to the public sewer system. Currently, the only projects approved for construction are the following:

- 1. The Reserve at Stone Brook**
- 2. Apartment at Schuylkill**
- 3. Main Streets Office Buildings at Egypt Road**

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))

Collection System Maintenance:

Routine maintenance performed on all pump stations within owned and operated by the West Norriton Township as follows: 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; and grounds maintained. maintenance performed and improvements made on the collection system during 2014 can be found within Attachment E - Pump Station Reports.

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 E**)

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**)
 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 H**)

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).

Name of Responsible Official

Signature

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).

Christopher Frawley

Name of Preparer

Christopher Frawley

Signature

717-697-3557

Telephone No.

3/18/15

Date

Appendix A
Connection Management Plan

CONNECTION MANAGEMENT PLAN

West Norriton Township (WNT) currently has a backlog of projects and individual connections which are prepared to commence construction once capacity is restored within the sanitary sewer system. I & I from the sanitary sewer system in Lower Jackson Street Drainage Basin, which is one of the oldest portions of the sewer system, was complete in 2014. WNT is continuously working to remove I & I from the sanitary sewer system by concentrating on the Upper Jackson Street drainage basin during 2015. The Township is asking for some staged EDUs to allow some development to proceed within the WNT.

A chart of proposed developments has been included for the DEP's review. WNT allows some development within the Township by staging the EDUs over the next three (3) years as follows:

	Project EDUs				
	2015	2016	2017	2018	Total
The Reserve at Stoney Brook	---	20	25	6	51
Norristown School District	---	10	----	----	10
Apartment at Schuylkill & Main Street	---	25	----	----	25
Fill in Lots & OLDS	10	2	2	1	15
Office Building at Egypt Road	---	10	----	----	10
Total EDUs	10	67	27	7	111
Flow projected (gpd) (1EDU = 285 gpd)	2,850	19,095	7,695	1,995	31,635

As time goes by, wet weather flows are reduced, 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.

A chart has also been prepared for the DEP for future development which has been discussed with WNT but has not been approved. Staging of these EDUs would also be submitted to the DEP for these connections before WNT will issue approval.

A chart has been prepared to demonstrate the repairs which have been completed to date and which are scheduled to be completed in the near future. Sanitary lateral and main repairs at Lower Jackson Street Drainage Basin were completed in 2014. CCTV inspection project for Upper Jackson Street Drainage Basin and part of School Lane Drainage Basin will be performed during Spring 2015. Addition repair to the sanitary sewer system with upper Jackson Street Drainage Basin will be followed.

WNT is committed to continue with I&I remediation until the system has its peak hourly flows under control. 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 property to find all of these connections.

Appendix B
Approved Developments

**APPENDIX B
APPROVED DEVELOPMENTS
WEST NORRITON TOWNSHIP**

Approved Developments	Approved EDUs											
	2015			2016			2017			2018		
	EDUs	Flow	EDUs	Flow	EDUs	Flow	EDUs	Flow	EDUs	Flow	EDUs	Flow
The Reserve at Stoney Brook	0	0	20	5,700	25	7,125	6	1,710				
Norristown school district	0	0	10	2,850	0	0	0	0				
Apartments at Schuykill & main Street	0	0	25	7,125	0	0	0	0				
Fill in Lots and OLDs	10	2,850	2	570	2	570	1	285				
Office Building at Egypt Road	0	0	10	2,850	0	0	0	0				
Total EDUs	10	2,850	405	19,095	27	7,695	7	1,995				

Notes:

1 EDU = 285 gpd

Organic Loadings are not measured

Appendix C
Developments in Progress or in Planning

**APPENDIX C
DEVELOPMENTS IN PROGRESS OR IN PLANNING (2015-2019)
WEST NORRITON TOWNSHIP**

Name of New Development - See Attached map for location	Map Reference	Drainage Basin	EDUs	Projected Flow - GPD at complete build out	Pipe Data
The Reserve at Stoney Brook	9	Jackson Street	51	14,535	2850 of 8" PVC
Westfoxes Athletic Campus	3	Rittenhouse	25	7,125	In Planning stages
Norristown Area School District - Sports Complex	12	Jackson Street	10	2,850	In Planning Stages
Office Building - Egypt Road	13	Rittenhouse	10	2,850	In Planning Stages
Apartments	7	Rittenhouse	25	7,125	In Planning Stages
Miscellaneous		Jackson St.-5 Rittenhouse-30	35	9,975	count of vacant lots
Total			156	44,460	

Appendix D
Pump Station Information

Appendix D

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: Constructed in 1965, is comprised of three (3)-75 hp pumps, each capable of 1,750 gpm. This station was upgraded in 1965 with enlarged pumps rated at 100 HP, each capable of 2,700 gpm as part of an upgrade to the system. A new pump station is currently under construction on the same site across from the existing pump station. The design average daily flow for the new pump station is 6,600 gallons per minute (gpm) with a safety factor of three (3) built-in. This design would allow West Norriton Township to send all flow to the NMWA. The system will have a standard alarm system with a dialer to notify the Township of any problems which may arise.
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 the 1980s with pumps relocated from Rittenhouse Pump Station, each pump is 75 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 1980s, 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. An emergency generator was also installed at this time. yes
6. Halford Hills Pump Station: Constructed in the 1970s, is comprised of two (2)-5 hp pumps, each capable of 25 gpm. This station has never been upgraded.

Appendix E represents 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.

**APPENDIX D
PUMP STATION INFORMATION
WEST NORRITON TOWNSHIP**

Name and Location of Pumping Station	Installation / Expansion Date	Number of Pumps	Pump Manufacturer	Drive Type	Capacity (gpm) each Pump	Maximum Pumping Capacity	Flow Meter	Standby Generator	Estimated Connected EDUs	Flow (mgd) Average / Peak	Instantaneous ave. Peak flow (mgd)	Additional EDUs Projected in Next 2 Years	Additional Flow (mgd) Projected in Next 2 Years Average / Peak
Rittenhouse Boulevard	1994	3	Fairbanks-Morse	Variable	2700 gpm @165 ft. TDH	4618 gpm - 6.65 mgd with 2 pumps	Yes	Yes	3,197	1.51/4.323	4.9mgd	415	1.3/5.3
Chestnut Avenue	2004	2	Hydromatic	Fixed	180 gpm @30 ft. TDH	180 gpm - 0.259 mgd	Yes	Yes	280	0.06/0.11	0.16 mgd	0	1
Whitehall Road	1994	3	Fairbanks-Morse	Variable	1750 gpm @220 ft. TDH	2625 gpm - 3.78 mgd with 2 pumps	Yes	Yes	1,550	0.51/0.97	2.75 mgd	0	0.53/2.1
Forrest Avenue	1987	2	Chicago	Fixed	600 gpm @63 ft. TDH	600 gpm - 0.864 mgd	No	Yes	530	0.15/0.5	0.5 mgd*	0	0.15/0.5**
Port Indian Road	1999	2	Fairbanks-Morse	Fixed	1000 gpm @113 ft. TDH	1000 gpm -1.44 mgd	Yes	Yes	1,230	0.40/1.0	0.9 mgd	0	0.41/1.33
Halford Hills	1995	2	Hydromatic	Fixed	25 gpm @50 ft. TDH	25 gpm - 0.036 mgd	No	No	10	0.03/0.09	0.09 mgd*	0	0.003/0.009**
1 EDU = 285 gpd													
* Peak pump station flows estimated based on maximum month daily average times peaking factor of 2 to 3													
** Projected peak flows estimated based on average new EDU flow times 2.5 peaking factor added to estimated current peak flows													

2014 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
1/2/2014 - 2/3/2014	82.04	2.65	106.52	3.44	2,069,200	66,748
2/1/2014 - 3/1/2014	88.61	3.16	121.54	4.34	2,179,500	77,839
3/1/2014 - 4/1/2014	75.67	2.44	156.21	5.04	2,274,200	73,361
4/1/2014 - 5/1/2014	108.10	3.60	151.48	5.05	2,433,500	81,116
5/1/2014 - 6/1/2014	125.08	4.03	132.31	4.27	2,476,100	79,874
6/1/2014 - 7/1/2014	95.54	3.18	91.82	3.06	1,774,800	59,160
7/1/2014 - 8/1/2014	77.54	87.14	2.50	2.81	1,560,500	50,338
8/1/2014 - 9/1/2014	80.58	2.59	90.07	2.90	1,519,700	49,022
9/1/2014 - 10/1/2014	74.12	2.47	79.44	2.65	1,391,100	46,370
10/1/2014 - 11/1/2014	83.85	2.70	106.74	3.44	1,708,400	55,109
11/1/2014 - 12/1/2014	97.22	3.24	107.73	3.50	1,738,500	57,950
12/1/2014 - 1/1/2015	116.27	3.75	143.04	4.61	2,216,600	71,503

64,033

Months	Comments
January	New alarm was installed.
Feburary	McGovern in to clean wet well.
March	Meter Guys in to calibrate meters.
April	Penn Power in to service generator. Fire extinguisher man in to inspect all extinguishers in all stations.
June	Both pumps pulled, fishing line clogging pumps.
July	Meter guys into calibrate totalizer flow meter.
August	Wet well was cleaned.
November	McGovern in to clean wet well. Sealy in to fix low wet well alarm. Meter Guys in to calibrate meters.
December	Jack Henry in to fix levers for generator ventilation, they were stuck open.

2014 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
1/2/2014 - 2/3/2014	234.90	7.58	368.50	11.89	177.90	5.74	18,447,500	595,081
2/1/2014 - 3/1/2014	260.80	9.31	315.50	11.26	no record due to pump repair		24,213,200	864,757
3/1/2014 - 4/1/2014	337.10	10.87	380.80	12.28	no record due to pump repair		23,205,900	748,577
4/1/2014 - 5/1/2014	244.00	8.13	242.80	8.09	289.80	9.66	23,520,300	784,010
5/1/2014 - 6/1/2014	211.90	6.83	404.30	13.04	85.10	2.74	22,762,900	734,287
6/1/2014 - 7/1/2014	238.20	12.29	95.00	7.94	368.70	3.16	15,935,000	531,167
7/1/2014 - 8/1/2014	263.40	8.50	9.88	9.88	172.90	5.58	1,267,810	40,897
8/1/2014 - 9/1/2014	331.10	10.68	121.50	3.91	242.50	7.82	10,808,700	348,668
9/1/2014 - 10/1/2014	51.90	1.73	229.20	7.64	282.50	9.41	9,567,700	318,923
10/1/2014 - 11/1/2014	25.10	25.10	311.20	10.30	267.00	8.61	10,545,000	340,161
11/1/2014 - 12/1/2014	166.40	5.55	288.50	9.62	218.40	7.28	13,001,000	433,367
12/1/2014 - 1/1/2015	271.90	8.77	237.80	7.67	211.70	6.83	17,011,300	548,752

524,054

Months	Comments
Jan	Pump #3 motor pulled for repair.
Feburary	Dave from Sealy at station to replace Pump #1 air compressor. The #3 pump motor was installed in the beginning of March. Drive shafts are still being repaired and will be installed ASAP.
March	The #3 motor was installed along with drive shafts this month. Pump is operational now. Meter Guys in to calibrate meter for pump station.
April	PENN Power in to service generators.
May	New moisture filters on compressor. Repack #2 pump.
June	New air line filters on air compressor installed. Dry well exhaust fan out for repair at Deckman.
July	Meter Guys in to calubrate totalizer flow meter.
August	McGovern in to clean wet well.
September	Install rebuilt dry well fan. #1 pump had a leak in the air compressor, which was repaired.
October	New hour meter on #1 pump.
November	Jack Henry installed new motor in roof vent. Meter Guys in to calibrate flow meter

2014 Forest Avenue Pump Station Annual Report
West Norriton Township
Montgomery County, Pennsylvania

PERIODS	PUMP #1		PUMP #2	
	TOTAL RUN HOURS	AVE HOURS/DAY	TOTAL RUN HOURS	AVE HOURS/DAY
1/2/2014 - 2/3/2014	76.80	2.48	79.70	2.57
2/1/2014 - 3/1/2014	76.60	2.73	79.60	2.84
3/1/2014 - 4/1/2014	74.60	2.41	76.80	2.47
4/1/2014 - 5/1/2014	79.90	2.66	83.00	2.76
5/1/2014 - 6/1/2014	87.00	2.81	85.90	2.77
6/1/2014 - 7/1/2014	61.10	2.04	61.60	2.05
7/1/2014 - 8/1/2014	52.60	1.70	51.90	1.67
8/1/2014 - 9/1/2014	51.00	1.64	50.30	1.62
9/1/2014 - 10/1/2014	44.50	1.48	44.00	1.46
10/1/2014 - 11/1/2014	54.90	1.77	52.20	1.68
11/1/2014 - 12/1/2014	51.20	1.70	50.80	1.69
12/1/2014 - 1/1/2015	69.10	2.23	67.60	2.18

Months	Comments
April	PENN Power in to service generator. Jet Sewer Line in to station for preventive maintenance.
August	Wet well cleaned
November	McGovern in to clean wet well

2014 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
1/2/2014 - 2/3/2014	140.78	4.54	129.12	4.17	13,657,800	440,574
2/1/2014 - 3/1/2014	151.36	5.41	130.40	4.65	13,667,200	488,114
3/1/2014 - 4/1/2014	157.78	5.09	136.22	4.39	14,732,700	475,248
4/1/2014 - 5/1/2014	169.81	5.66	162.90	5.43	16,889,500	562,983
5/1/2014 - 6/1/2014	166.43	5.37	167.43	5.39	17,608,600	568,019
6/1/2014 - 7/1/2014	86.88	2.90	104.80	3.49	9,204,800	306,826
7/1/2014 - 8/1/2014	66.90	2.15	84.31	2.71	6,982,400	225,238
8/1/2014 - 9/1/2014	54.87	1.77	56.78	1.83	5,196,500	167,629
9/1/2014 - 10/1/2014	54.63	1.82	49.51	1.65	5,087,900	169,596
10/1/2014 - 11/1/2014	73.87	2.38	66.33	2.14	6,624,100	213,680
11/1/2014 - 12/1/2014	80.32	2.67	69.04	2.30	6,945,300	231,510
12/1/2014 - 1/1/2015	134.74	4.35	110.60	3.56	11,514,000	371,419

351,736

Date	Comments
Feburary	McGovern into clean wet well.
March	Meter Guys in to calibrate flow meter.
April	PENN Power in to service generator.
July	Meter Guys in to calibratetotalizer.
October	PENN Power in to replace battery on generator.
Novmeber	Meter Guys in to calibrate flow meter.

2014 Halford Hills Estates Pump Station Annual Report
West Norriton Township
Montgomery County, Pennsylvania

PERIODS	PUMP #1		PUMP #2	
	TOTAL RUN HOURS	AVE HOURS/DAY	TOTAL RUN HOURS	AVE HOURS/DAY
1/2/2014 - 2/3/2014	34.37	1.11	30.55	0.99
2/1/2014 - 3/1/2014	28.83	1.03	22.83	0.81
3/1/2014 - 4/1/2014	36.03	1.16	32.00	1.03
4/1/2014 - 5/1/2014	34.76	1.16	31.22	1.04
5/1/2014 - 6/1/2014	28.94	0.93	25.76	0.83
6/1/2014 - 7/1/2014	26.18	0.87	22.46	0.74
7/1/2014 - 8/1/2014	25.53	0.82	22.36	0.72
8/1/2014 - 9/1/2014	26.09	0.84	22.33	0.72
9/1/2014 - 10/1/2014	24.35	0.81	20.64	0.69
10/1/2014 - 11/1/2014	27.07	0.87	22.83	0.74
11/1/2014 - 12/1/2014	27.03	0.90	23.11	0.77
12/1/2014 - 1/1/2015	31.01	1.00	25.81	0.83

Months	Comments
	No Comments

2014 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
1/2/2014 - 2/3/2014	266.53	8.60	289.01	9.32	270.93	8.74	57,268,700	1,847,377
2/1/2014 - 3/1/2014	375.77	13.42	348.57	12.45	194.05	6.93	87,341,600	3,119,342
3/1/2014 - 4/1/2014	263.40	8.50	268.83	8.67	229.00	7.39	74,248,300	233,590
4/1/2014 - 5/1/2014	311.55	10.38	443.74	14.79	293.41	9.78	77,312,600	2,577,086
5/1/2014 - 6/1/2014	95.64	3.09	506.36	16.35	397.82	12.83	80,712,300	2,603,622
6/1/2014 - 7/1/2014	176.81	4.94	382.15	5.89	148.23	12.73	45,512,300	1,517,076
7/1/2014 - 8/1/2014	172.74	5.57	241.57	7.79	330.35	10.65	32,147,000	1,037,000
8/1/2014 - 9/1/2014	59.1	1.9	349.18	11.26	285.9	9.22	28,871,200	931,329
9/1/2014 - 10/1/2014	0.91	0.91	342.50	11.41	355.56	11.85	28,997,600	966,586
10/1/2014 - 11/1/2014	1.18	0.04	368.19	11.87	424.43	13.69	30,123,000	971,709
11/1/2014 - 12/1/2014	242.14	8.07	220.20	7.34	254.29	8.47	37,378,700	1,245,956
12/1/2014 - 1/1/2015	343.10	11.07	323.30	10.43	162.40	5.24	50,954,100	1,643,680
								1,557,863
								1,557,863

Months	Comments
Feburary	Eastern Environmental Re-weld support beams on drive shafts that broke
April	PENN Power in to service generator
May	Repack #2 pump. EEC in to finish welding support beams for drive shafts in the dry well
June	EEC in to weld support beams on pillow block beams to stabilize drive shafts
July	Replace pillow block on #2 pump drive shaft. Meter Guys in to calibrate totalizer flow meter
August	Beaving in #1 pum drive shaft shceduled to be replaced ASAP
September	Repack #2 pump and grease all shafts and bearings
October	EEC in to replace bearing on #1 pump drive shaft. Pump is running and operational
November	Meter Guys in to calibrate flow meter at station

Appendix E
Pump Station Monthly ADF

APPENDIX E
PUMP STATIONS MONTHLY AVERAGE DAILY FLOWS
WEST NORRITON TOWNSHIP

Month	Rittenhouse Blvd (gpd)	Whitehall Road (gpd)	Port Indian Road (gpd)	Forrst Avenue (hrs/day)	Chestnut Avenue (gpd)	Halford Hills (hrs/day)
January	1,847,377	595,081	440,574	2.57	66,748	0.99
February	3,119,342	864,757	488,114	2.84	77,839	0.81
March	233,590	748,577	475,248	2.47	73,361	1.03
April	2,577,086	784,010	562,983	2.76	81,116	1.04
May	2,603,622	734,287	568,019	2.77	79,874	0.83
June	1,517,076	531,167	306,826	2.05	59,160	0.74
July	1,037,000	40,897	225,238	1.67	50,338	0.72
August	931,329	348,668	167,629	1.62	49,022	0.72
September	966,586	318,923	169,596	1.46	46,370	0.69
October	971,709	340,161	213,680	1.68	55,109	0.74
November	1,245,956	433,367	231,510	1.69	57,950	0.77
December	1,643,680	548,752	371,419	2.18	71,503	0.83

Appendix F
Monthly ADF Flows to Norristown

Appendix G
Average Daily Flow to NMWA 2014

APPENDIX G
Average Daily Flow to NMWA (2008 to 2014)
West Norriton Township

Rittenhouse Pump Station

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

Jackson Street

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

	2008	2009	2010	2011	2012	2013	2014
Average daily to NMWA (gpd)	1,957,216	1,776,566	2,027,275	2,356,834	1,830,048	1,905,261	1,557,863
Total precipitation (inch)	41.78	48.17	44.06	54.19	44.56	49.64	39.99

Appendix H
Sanitary Sewer Repair 2014

2014 Laterals Repaired to date West Norriton Township

1. Repaired laterals from main to 1 foot inside curb. Property owner is responsible to repair the lateral from where township stopped within 6 months after.

2. The following are number of sanitary lateral lined by CIPP lining during 2014:
 - A. Montgomery Avenue: 23
 - House Number: 30, 33, 36, 37, 48, 50, 54, 55, 58, 59, 62, 64, 73, 76, 79, 84, 85, 88, 90, 91, 92, 94, 98
 - B. Rittenhouse Blvd: 1
 - House Number: 200
 - C. William Way: 18
 - House Number: 1627, 1642, 1648, 1653, 1660, 1703, 1706, 1707, 1708, 1711, 1714, 1715, 1717, 1718, 1722, 1736, 1739, 1742
 - D. David Lane: 2
 - House Number: 103, 116, 115
 - E. Sheriden Lane: 10
 - House Number: 1610, 1615, 1616, 1621, 1622, 1630, 1633, 1637, 1649, 1650
 - F. Hartranfth Avenue: 3
 - House Number: 1640, 1646, 1650
 - G. Prospect Avenue: 33
 - House Number: 5, 8, 9, 10, 14, 15, 16, 19, 20, 23, 24, 27, 31, 32, 35, 36, 39, 40, 42, 43, 47, 48, 50, 55, 56, 58, 59, 64, 66, 67, 73, 74
 - H. Colonial Avenue: 22
 - House Number: 5, 5A, 10, 11, 16, 21, 22, 30, 31, 40, 41, 46, 51, 52, 58, 59, 63, 64, 70, 71, 75
 - I. Forrest Avenue: 4
 - House Number: 303, 305, 307, 421
 - J. Centre Avenue: 1
 - House Number: 6

3. Laterals have been replaced:
 - 65 Montgomery Avenue
 - 70 Montgomery Avenue
 - 86 Montgomery Avenue
 - 26a Centre Avenue
 - 74 Centre Avenue
 - 82 Centre Avenue
 - 1627 Williams Way
 - 1710 Williams Way
 - 1715a Williams Way
 - 1747 Williams Way
 - 1657 Sheridan Lane
 - 28 Prospect Avenue
 - 63 Prospect Avenue
 - 76 Prospect Avenue

4. There are no New connection from on-lot Sewer System (OLDs) in 2014

Appendix I
Wet Weather Flow Data Calendar Days 1-inch
Rainfall Plus

APPENDIX I

**Rittenhouse Pump Station
Precipitation Greater than 1-inch in 2014
West Norriton Township**

Flow Monitoring				
Date	Maximum Flow (mgd)	Peak Instantaneous Flow (%)	Peak Instantaneous Flow (mgd)	Precipitation (inches)
Saturday, March 29, 2014	6.65	84%	5.62	1.16
Sunday, March 30, 2014	6.65	119%	7.92	1.38
Monday, April 14, 2014	6.65	39%	2.59	2.02
Wednesday, April 30, 2014	6.65	123%	8.21	2.54
Friday, May 16, 2014	6.65	41%	2.74	1.32
Monday, June 9, 2014	6.65	106%	7.06	2.30
Wednesday, July 9, 2014	6.65	24%	1.58	1.20
Monday, July 14, 2014	6.65	28%	1.87	1.64
Thursday, July 24, 2014	6.65	23%	1.51	1.04
Sunday, August 31, 2014	6.65	26%	1.73	1.10

AVERAGE = 61% 4.082 1.57

Note: *** chart recorder did not plot

APPENDIX I

**Jackson Street Gravity Line
Precipitation Greater than 1-inch in 2014
West Norriton Township**

Flow Monitoring				
Date	NMWA Flow (mgd) try not to exceed	Peak Instantaneous Flow (%)	Peak Instantaneous Flow (mgd)	Precipitation (inches)
Saturday, March 29, 2014	1.50	49%	0.74	1.16
Sunday, March 30, 2014	1.50	50%	0.75	1.38
Monday, April 14, 2014	1.50	26%	0.39	2.02
Wednesday, April 30, 2014	1.50	45%	0.67	2.54
Friday, May 16, 2014	1.50	40%	0.60	1.32
Monday, June 9, 2014	1.50	28%	0.42	2.30
Wednesday, July 9, 2014	1.50	35%	0.53	1.20
Monday, July 14, 2014	1.50	37%	0.56	1.64
Thursday, July 24, 2014	1.50	***	***	1.04
Sunday, August 31, 2014	1.50	***	***	1.10

AVERAGE = 39% 0.582 1.57

Note: *** Chart recorder did not plot

Appendix J
Flow Meter Calibration Reports

The Meter Guy, LLC

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

Invoice

DATE	INVOICE #
12/31/2013	1900

JAN 06 2014

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	11/26/2013	Our Truck		

QUANTITY	ITEM CODE	DESCRIPTION	PRICE EACH	AMOUNT
1	Misc	BE6200 FLOMOTION TRANSMITTER	2,850.00	2,850.00
3	Pens	CHESSELL PENS	25.00	75.00
1	Pens	PACK F & P PENS	25.00	25.00
2	Charts	CHESSELL CHARTS	25.00	50.00
4	Charts	ABB CHARTS	27.00	108.00
8	Calibration	SERVICE TO CHECK FLOW METERS	70.00	560.00
65	miles	MILEAGE	0.50	32.50

APPROVED FOR PAYMENT	
DEPT. CHRMN.	FINANCE CHRMN.
DISTRIBUTION	
WARRANT NO.	
DATE	11/21/13

of to Pay
 1-17

Total \$3,700.50

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

*****SERVICE REPORT*****

KAREN MADDEN
WEST NORRITON
1630 WEST MARSHALL
JEFFERSONVILLE, PA 2/13/1953

SERVICE DATE: 11/26/2013
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%
ERROR: 0% **CORRECTED ACCURACY:** ±1%

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

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

COMMENTS: LEFT EQUIPMENT OPERATING PROPERLY.

SERVICE REPRESENTATIVE: DAVE MOORE
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 2/13/1953

SERVICE DATE: 11/26/2013
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
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 2/13/1953

SERVICE DATE: 11/26/2013
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: DAVE MOORE
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 2/13/1953

SERVICE DATE: 11/26/2013
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: ** REPLACED FLOODED TRANSMITTER WITH FLOMOTION BE6200 ON 9/30/2013.
LEFT EQUIPMENT OPERATING PROPERLY.

SERVICE REPRESENTATIVE: DAVE MOORE
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 2/13/1953

SERVICE DATE: 11/26/2013
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
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 2/13/1953

SERVICE DATE: 11/26/2013
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
copies:

PERSON SEEN: ED CHELLIS

The Meter Guy, LLC

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

APR 11 2014

Invoice

DATE	INVOICE #
4/7/2014	2011

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	3/31/2014	Our Truck		

QUANTITY	ITEM CODE	DESCRIPTION	PRICE EACH	AMOUNT
7 65	Calibration miles	Quarterly service to calibrate flow meters mileage	70.00 0.50	490.00 32.50

APPROVED FOR PAYMENT
 80 429.372 522.50
 DEPT. CHRMM. FINANCE CHRMM.
DISTRIBUTION
 WARRANT NO. _____
 DATE 4/15/14

OK to Pay
 P.S. Meter work
 1/14 CALIBRATION

			Total	\$522.50
--	--	--	--------------	----------

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: 3/31/2014
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: +1% **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
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: 3/31/2014
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%
ERROR: 0% CORRECTED ACCURACY: ±1%

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

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

COMMENTS: LEFT EQUIPMENT OPERATING PROPERLY.

SERVICE REPRESENTATIVE: DAVE MOORE
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: 3/31/2014
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
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: 3/31/2014
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: +1% 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
copies:

PERSON SEEN: ED CHELLIS

TheMeterGuy, LLC.

5758 GLEN OAKS DRIVE NARVON, PA 17555
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*****SERVICE REPORT*****

KAREN MADDEN
WEST NORRITON
1630 WEST MARSHALL
JEFFERSONVILLE, PA 19403

SERVICE DATE: 3/31/2014
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
copies:

PERSON SEEN: ED CHELLIS

TheMeterGuy, LLC.

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*****SERVICE REPORT*****

KAREN MADDEN
WEST NORRITON
1630 WEST MARSHALL
JEFFERSONVILLE, PA 19403

SERVICE DATE: 3/31/2014
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% **CORRECTED ACCURACY:** ± 1%

COMMENTS: LEFT EQUIPMENT OPERATING PROPERLY.

SERVICE REPRESENTATIVE: DAVE MOORE
copies:

PERSON SEEN: ED CHELLIS

The Meter Guy, LLC

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

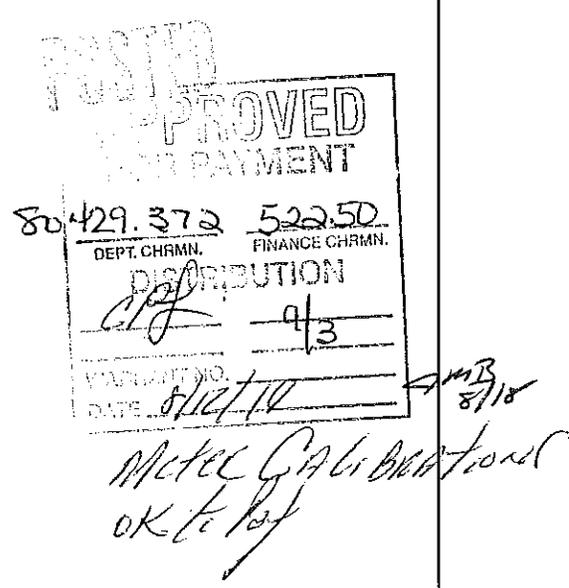
Invoice

AUG 06 2014

DATE	INVOICE #
8/4/2014	2194

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	7/31/2014	Our Truck		
QUANTITY	ITEM CODE	DESCRIPTION			PRICE EACH	AMOUNT
7 65	Calibration miles	QUARTERLY SERVICE TO CALIBRATE FLOW METERS MILEAGE			70.00 0.50	490.00 32.50
 <p>80,429.372 522.50 DEPT. CHRNM. FINANCE CHRNM. DISTRIBUTION DATE 8/12/14</p> <p>Meter Calibration OK to pay</p>						
Total					\$522.50	

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: 7/31/2014
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: DAVE MOORE
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: 7/31/2014
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%
ERROR: 0 **CORRECTED ACCURACY:** ±1%

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

TRANSMITTER CALIBRATION
0, 25, 50 & 100%
ERROR: -2% **CORRECTED ACCURACY:** ±1%

COMMENTS: LEFT EQUIPMENT OPERATING PROPERLY.

SERVICE REPRESENTATIVE: DAVE MOORE
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: 7/31/2014
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: +5% **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
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: 7/31/2014
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
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: 7/31/2014
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: -1% 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: DAVE MOORE
copies:

PERSON SEEN: ED CHELLIS

The Meter Guy, LLC

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

DEC 08 2014

Invoice

DATE	INVOICE #
12/1/2014	2381

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	JCC	11/24/2014	Our Truck		

QUANTITY	ITEM CODE	DESCRIPTION	PRICE EACH	AMOUNT
7	Calibration	Quarterly service to calibrate flow meters	70.00	490.00
65	miles	Mileage	0.50	32.50

POSTED

APPROVED FOR PAYMENT

429.372 522.50

DEPT. CHIEF FINANCE CHIEF

C.P.F. 12/30

12/9/14

P.S. Maint. Acc

Ch. T. Reg

Total \$522.50

The Meter Guy, LLC

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

DEC 08 2014

Invoice

DATE	INVOICE #
12/1/2014	2381

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	JCC	11/24/2014	Our Truck		
QUANTITY	ITEM CODE	DESCRIPTION			PRICE EACH	AMOUNT
7 65	Calibration miles	Quarterly service to calibrate flow meters Mileage			70.00 0.50	490.00 32.50
<div style="border: 1px solid black; padding: 5px; display: inline-block;"> <p>APPROVED FOR PAYMENT</p> <p>429.372 522.50</p> <p>CEPTE. CHRG. FINANCE CHRG.</p> <p><i>CPJ</i> 12/30</p> <p>DATE 12/9/14</p> <p><i>P.S. Mgmt. Acc</i></p> <p><i>Ch. T. Peg</i></p> </div> <p>POSTED</p> <p><i>AMB</i> <i>12/1/14</i></p>						
					Total	\$522.50

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: 11/24/2014
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: 11/24/2014
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: J CHRIS CALLAHAN
copies:

PERSON SEEN: ED CHELLIS

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*****SERVICE REPORT*****

KAREN MADDEN
WEST NORRITON
1630 WEST MARSHALL
JEFFERSONVILLE, PA 19403

SERVICE DATE: 11/24/2014
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: J CHRIS CALLAHAN
copies:

PERSON SEEN: ED CHELLIS

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PHONE: (717) 940-1987

*****SERVICE REPORT*****

KAREN MADDEN
WEST NORRITON
1630 WEST MARSHALL
JEFFERSONVILLE, PA 19403

SERVICE DATE: 11/24/2014
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: +1% **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
copies:

PERSON SEEN: ED CHELLIS

Appendix K
Pump Station Monthly Reports

WHITEHALL ROAD

Operator: Tony Tuski

Date: January 2014

<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>
1/2/2014 - 2/3/2014	18,447,500	595,080

<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>
1/2/2014 - 2/3/2014	234.9	368.5	177.9	7.58	11.89	5.74

Comments:

Generator hours: 4.5 hours
#3 pump motor pulled for repair

WHITEHALL ROAD

Operator: Tony Tuski

Date: January 2014

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

WHITEHALL ROAD

Operator: Tony Tuski

Date: February 2014

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

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

Readings:

<u>DATE</u>	<u>TOTAL GALLONS</u>	<u>GALLONS/DAY</u>
2/1/2014 - 3/1/2014	24,213,200	864,757

<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>
2/1/2014 - 3/13/2014	260.8	315.5		9.31	11.26	

Comments:

Generator hours: 2.9 hours

2/12/2014: Dave from Sealy at station to replace Pump#1 air compressor. The #3 pump motor was installed in the beginning of March. Drive shafts are still being repaired and will be installed ASAP.

WHITEHALL ROAD

Operator: Tony Tuski

Date: March 2014

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

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

Readings:

<u>DATE</u>	<u>TOTAL GALLONS</u>	<u>GALLONS/DAY</u>
3/1/2014 - 4/1/2014	23,205,900	748,577

<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>
3/1/2014 -4/1/2014	337.1	380.8		10.87	12.28	

Comments:

Generator hours: 1.9 hours

3/6/2014: The #3 motor was installed along with drive shafts this month. Pump is operational now.

3/31/2014: Meter Guys in to calibrate meter for pump station.

WHITEHALL ROAD

Operator: Tony Tuski

Date: March 2014

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

WHITEHALL ROAD

Operator: Tony Tuski

Date: April 2014

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

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

Readings:

<u>DATE</u>	<u>TOTAL GALLONS</u>	<u>GALLONS/DAY</u>
4/1/2014 - 5/1/2014	23,520,300	784,010

<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>
4/1/2014 -5/1/2014	244	242.8	289.8	8.13	8.09	9.66

Comments:

Generator run hours: 3.5 hours

April 2014: PENN Power in to service generator.

WHITEHALL ROAD

Operator: Tony Tuski

Date: April 2014

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

WHITEHALL ROAD

Operator: Tony Tuski

Date: May 2014

<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>
5/1/2014 - 6/1/2014	22,762,900	734,287

<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>
5/1/2014 -6/1/2014	211.9	404.3	85.1	6.83	13.04	2.74

Comments:

Generator run hours: 1.5

1. New moisture filters on compressor.
2. Repack #2 pump.

WHITEHALL ROAD

Operator: Tony Tuski

Date: May 2014

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

WHITEHALL ROAD

Operator: Ed Chelius

Date: June 2014

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

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

Readings:

<u>DATE</u>	<u>TOTAL GALLONS</u>	<u>GALLONS/DAY</u>
6/1/2014 - 7/1/2014	15,935,000	531,166

<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>
6/1/2014 -7/1/2014	238.2	7.94	368.7	12.29	95.00	3.16

Comments:

Generator run hours: 2.4 hours

New air line filters on air compressor installed.

Dry well exhaust fan out for repair at Deckman.

WHITEHALL ROAD

Operator: Ed Chelius

Date: June 2014

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

WHITEHALL ROAD

Operator: Ed Chelius

Date: July 2014

<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>
7/1/2014 - 8/1/2014	1,267,810	40,897

<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>
7/1/2014 - 8/1/2014	263.4	306.2	172.9	8.496	9.877	5.577

Comments:

Generator run hours: 3.1

Meter guys in to calibrate totalizer flow meter.

WHITEHALL ROAD

Operator: Ed Chelius

Date: July 2014

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

WHITEHALL ROAD

Operator: Ed Chelius

Date: August 2014

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

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

Readings:

<u>DATE</u>	<u>TOTAL GALLONS</u>	<u>GALLONS/DAY</u>
8/1/2014 - 9/1/2014	10,808,700	348,667

<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>
8/1/2014 -9/1/2014	331.1	121.5	242.5	10.68	3.91	7.82

Comments:

Generator run hours: 2.5

8/27/14 McGovern in to clean wet well

WHITEHALL ROAD

Operator: Ed Chelius

Date: August 2014

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

WHITEHALL ROAD

Operator: Ed Chelius

Date: September 2014

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

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

Readings:

<u>DATE</u>	<u>TOTAL GALLONS</u>	<u>GALLONS/DAY</u>
9/1/2014 - 10/1/2014	9,567,700	318,923

<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>
9/1/2014 -10/1/2014	51.9	229.2	282.5	1.73	7.64	9.41

Comments:

Generator run hours: 2.5

Install rebuilt Dry well fan.

#1 pump had a leak in the air compressor, which was repaired.

WHITEHALL ROAD

Operator: Ed Chelius

Date: September 2014

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

WHITEHALL ROAD

Operator: Ed Chelius

Date: October 2014

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

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

Readings:

<u>DATE</u>	<u>TOTAL GALLONS</u>	<u>GALLONS/DAY</u>
10/1/2014 - 11/1/2014	10,545,000	340,161

<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>
10/1/2014 -11/1/2014	25.1	311.2	267	25.1	10.03	8.61

Comments:

Generator run hours: 2.3

New hour meter on #1 pump.

WHITEHALL ROAD

Operator: Ed Chelius

Date: October 2014

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

WHITEHALL ROAD

Operator: Ed Chelius

Date: November 2014

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

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

Readings:

<u>DATE</u>	<u>TOTAL GALLONS</u>	<u>GALLONS/DAY</u>
11/1/2014 - 12/1/2014	13,001,000	433,366

<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>
11/1/2014 -12/1/2014	166.4	288.5	218.4	5.55	9.62	7.28

Comments:

Generator run hours: 2.7

11/4/14 Jack Henry installed new motor in roof vent

11/24/14 Meter guys in to calibrate flow meter

WHITEHALL ROAD

Operator: Ed Chelius

Date: November 2014

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

WHITEHALL ROAD

Operator: Ed Chelius

Date: December 2014

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

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

Readings:

<u>DATE</u>	<u>TOTAL GALLONS</u>	<u>GALLONS/DAY</u>
12/1/2014 - 1/1/2015	17,011,300	548,751

<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>
12/1/2014 -1/1/2015	271.9	237.8	211.7	8.77	7.67	6.83

Comments:

Generator run hours: 2.9

WHITEHALL ROAD

Operator: Ed Chelius

Date: December 2014

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

RITTENHOUSE

Operator: Tony Tuski

Date: January 2014

<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: Tony Tuski

Date: February 2014

Audio Dialer 2 Needs upgrade

Ventilation Priority Remarks

Dry well 3
Wetwell 3
Electric Heaters 3

#3 Pump

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

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

DATE		TOTAL GALLONS	GALLONS/DAY
2/1/2014	3/1/2014	87,341,600	3,119,342

DATE	Pump Run Hours			Run Hours Per Day		
	Pump #1	Pump #2	Pump #3	Pump #1	Pump #2	Pump #3
2/1/2014-3/1/2014	375.77	348.57	194.05	13.42	12.45	6.93

Comments: Generator Hours= 1.9

2/24/2014: Eastern Environmental re-weld support beams on drive shafts that broke loose.

RITTENHOUSE

Operator: Tony Tuski

Date: February 2014

<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: Tony Tuski

Date: March 2014

Audio Dialer 2 Needs upgrade

Ventilation Priority Remarks

Dry well 3
Wetwell 3
Electric Heaters 3

#3 Pump

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

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

DATE		TOTAL GALLONS	GALLONS/DAY
3/1/2014	4/1/2014	74,248,300	2,330,590

DATE	Pump Run Hours			Run Hours Per Day		
	Pump #1	Pump #2	Pump #3	Pump #1	Pump #2	Pump #3
3/1/2014-4/1/2014	263.4	268.83	229.00	8.50	8.67	7.39

Comments: Generator Hours= 1.3
3/31/2014: Meter Guys in to calibrate flow meter.

RITTENHOUSE

Operator: Tony Tuski

Date: March 2014

<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: Tony Tuski

Date: April 2014

<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: Tony Tuski

Date: May 2014

<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 2014

<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 2014

<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 2014

<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: September 2014

<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: October 2014

<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: November 2014

<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: December 2014

<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	

JACKSON STREET METERING PIT

Operator: Tony Tuski

Date: January 2014

Flow Jackson Street Pit

<u>DATE</u>	<u>TOTAL GALLONS</u>	<u>GALLONS/DAY</u>
1/2/2014 - 2/3/2014	17,019,200	549,006

Montgomery Avenue Metering Pit to the Rittenhouse P.S.

<u>DATE</u>	<u>Total Flow</u>	<u>Average flow/day</u>
1/2/2014 - 2/3/2014	29,379,400	947,723

Flow to Norristown

<u>DATE</u>	<u>TOTAL GALLONS</u>	<u>GALLONS/DAY</u>
1/2/2014 - 2/3/2014	73,853,000	2,383,355

JACKSON STREET METERING PIT

Operator: Tony Tuski

Date: February 2014

Flow Jackson Street Pit

<u>DATE</u>	<u>TOTAL GALLONS</u>	<u>GALLONS/DAY</u>
2/1/2014 - 3/1/2014	10,669,500	381,053

Montgomery Avenue Metering Pit to the Rittenhouse P.S.

<u>DATE</u>	<u>Total Flow</u>	<u>Average flow/day</u>
2/1/2014 - 3/1/2014	30,731,200	1,097,542

Flow to Norristown

<u>DATE</u>	<u>TOTAL GALLONS</u>	<u>GALLONS/DAY</u>
2/1/2014 - 3/1/2014	98,011,100	3,500,396

JACKSON STREET METERING PIT

Operator: Tony Tuski

Date: March 2014

Flow Jackson Street Pit

<u>DATE</u>	<u>TOTAL GALLONS</u>	<u>GALLONS/DAY</u>
3/1/2014 - 4/1/2014	14,113,200	455,265

Montgomery Avenue Metering Pit to the Rittenhouse P.S.

<u>DATE</u>	<u>Total Flow</u>	<u>Average flow/day</u>
3/1/2014 - 4/1/2014	33,414,000	1,077,870

Flow to Norristown

<u>DATE</u>	<u>TOTAL GALLONS</u>	<u>GALLONS/DAY</u>
3/1/2014 - 4/1/2014	88,361,500	2,850,370

JACKSON STREET METERING PIT

Operator: Tony Tuski

Date: April 2014

Flow Jackson Street Pit

<u>DATE</u>	<u>TOTAL GALLONS</u>	<u>GALLONS/DAY</u>
4/1/2014 - 5/1/2014	10,898,300	363,277

Montgomery Avenue Metering Pit to the Rittenhouse P.S.

<u>DATE</u>	<u>Total Flow</u>	<u>Average flow/day</u>
4/1/2014 - 5/1/2014	39,265,300	1,308,843

Flow to Norristown

<u>DATE</u>	<u>TOTAL GALLONS</u>	<u>GALLONS/DAY</u>
4/1/2014 - 5/1/2014	88,210,900	2,940,363

JACKSON STREET METERING PIT

Operator: Tony Tuski

Date: April 2014

May 14

Flow Jackson Street Pit

<u>DATE</u>	<u>TOTAL GALLONS</u>	<u>GALLONS/DAY</u>
4/1/2014 - 5/1/2014	10,898,300	363,277

Montgomery Avenue Metering Pit to the Rittenhouse P.S.

<u>DATE</u>	<u>Total Flow</u>	<u>Average flow/day</u>
4/1/2014 - 5/1/2014	39,265,300	1,308,843

Flow to Norristown

<u>DATE</u>	<u>TOTAL GALLONS</u>	<u>GALLONS/DAY</u>
4/1/2014 - 5/1/2014	88,210,900	2,940,363

JACKSON STREET METERING PIT

Operator: Ed Chelius

Date: June 2014

Flow Jackson Street Pit

<u>DATE</u>	<u>TOTAL GALLONS</u>	<u>GALLONS/DAY</u>
6/1/2014 - 7/1/2014	11,222,700	

Montgomery Avenue Metering Pit to the Rittenhouse P.S.

<u>DATE</u>	<u>Total Flow</u>	<u>Average flow/day</u>
6/1/2014 - 7/1/2014	26,467,700	

Flow to Norristown

<u>DATE</u>	<u>TOTAL GALLONS</u>	<u>GALLONS/DAY</u>
6/1/2014 - 7/1/2014		

JACKSON STREET METERING PIT

Operator: Ed Chelius

Date: July 2014

Flow Jackson Street Pit

<u>DATE</u>	<u>TOTAL GALLONS</u>	<u>GALLONS/DAY</u>
7/1/2014 - 8/1/2014	13,245,400	427,270

Montgomery Avenue Metering Pit to the Rittenhouse P.S.

<u>DATE</u>	<u>Total Flow</u>	<u>Average flow/day</u>
7/1/2014 - 8/1/2014	17,414,300	561,751

Flow to Norristown

<u>DATE</u>	<u>TOTAL GALLONS</u>	<u>GALLONS/DAY</u>
7/1/2014 - 8/1/2014	45,392,500	1,464,274

JACKSON STREET METERING PIT

Operator: Ed Chelius

Date: August 2014

Flow Jackson Street Pit

<u>DATE</u>	<u>TOTAL GALLONS</u>	<u>GALLONS/DAY</u>
8/1/2014 - 9/1/2014	13,577,100	437,970

Montgomery Avenue Metering Pit to the Rittenhouse P.S.

<u>DATE</u>	<u>Total Flow</u>	<u>Average flow/day</u>
8/1/2014 - 9/1/2014	13,869,400	447,400

Flow to Norristown

<u>DATE</u>	<u>TOTAL GALLONS</u>	<u>GALLONS/DAY</u>
8/1/2014 - 9/1/2014	42,448,300	1,369,300

JACKSON STREET METERING PIT

Operator: Ed Chelius

Date: September 2014

Flow Jackson Street Pit

<u>DATE</u>	<u>TOTAL GALLONS</u>	<u>GALLONS/DAY</u>
9/1/2014 - 10/1/2014	11,414,900	368,222

Montgomery Avenue Metering Pit to the Rittenhouse P.S.

<u>DATE</u>	<u>Total Flow</u>	<u>Average flow/day</u>
9/1/2014 - 10/1/2014	14,533,000	468,806

Flow to Norristown

<u>DATE</u>	<u>TOTAL GALLONS</u>	<u>GALLONS/DAY</u>
9/1/2014 - 10/1/2014	41,537,900	1,339,932

JACKSON STREET METERING PIT

Operator: Ed Chelius

Date: October 2014

Flow Jackson Street Pit

<u>DATE</u>	<u>TOTAL GALLONS</u>	<u>GALLONS/DAY</u>
10/1/2014 - 11/1/2014	12,198,800	393,510

Montgomery Avenue Metering Pit to the Rittenhouse P.S.

<u>DATE</u>	<u>Total Flow</u>	<u>Average flow/day</u>
10/1/2014 - 11/1/2014	16,883,900	544,642

Flow to Norristown

<u>DATE</u>	<u>TOTAL GALLONS</u>	<u>GALLONS/DAY</u>
10/1/2014 - 11/1/2014	41,537,900	1,339,932

JACKSON STREET METERING PIT

Operator: Ed Chelius

Date: November 2014

Flow Jackson Street Pit

<u>DATE</u>	<u>TOTAL GALLONS</u>	<u>GALLONS/DAY</u>
11/1/2014 - 12/1/2014	10,085,900	336,196

Montgomery Avenue Metering Pit to the Rittenhouse P.S.

<u>DATE</u>	<u>Total Flow</u>	<u>Average flow/day</u>
11/1/2014 - 12/1/2014	19,801,100	660,036

Flow to Norristown

<u>DATE</u>	<u>TOTAL GALLONS</u>	<u>GALLONS/DAY</u>
11/1/2014 - 12/1/2014	47,464,600	1,582,153

JACKSON STREET METERING PIT

Operator: Ed Chelius

Date: December 2014

Flow Jackson Street Pit

<u>DATE</u>	<u>TOTAL GALLONS</u>	<u>GALLONS/DAY</u>
12/1/2014 - 1/1/2015	12,921,200	416,813

Montgomery Avenue Metering Pit to the Rittenhouse P.S.

<u>DATE</u>	<u>Total Flow</u>	<u>Average flow/day</u>
12/1/2014 - 1/1/2015	29,552,100	953,293

Flow to Norristown

<u>DATE</u>	<u>TOTAL GALLONS</u>	<u>GALLONS/DAY</u>
12/1/2014 - 1/1/2015	41,537,900	1,339,932

FOREST AVENUE

Operator: Tony Tuski

Date: January 2014

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

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

DATE	RUN HOURS		PER DAY	
	Pump #1	Pump #2	Pump #1	Pump #2
1/2/2014-2/3/2014	76.8	79.7	2.48	2.57

Comments:

Generator hours= 1.4

FOREST AVENUE

Operator: Tony Tuski

Date: February 2014

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

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

DATE	RUN HOURS		PER DAY	
	Pump #1	Pump #2	Pump #1	Pump #2
2/1/2014-3/1/2014	76.6	79.6	2.73	2.84

Comments:
Generator hours= 1.4

FOREST AVENUE

Operator: Tony Tuski

Date: March 2014

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

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

DATE	RUN HOURS		PER DAY	
	Pump #1	Pump #2	Pump #1	Pump #2
3/1/2014-4/1/2014	74.6	76.8	2.41	2.47

Comments:

Generator hours= 1.7

FOREST AVENUE

Operator: Tony Tuski

Date: April 2014

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

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

DATE	RUN HOURS		PER DAY	
	Pump #1	Pump #2	Pump #1	Pump #2
4/1/2014-5/1/2014	79.9	83.0	2.66	2.76

Comments:

Generator run hours= 2.0

1. PENN Power in to service generator.
2. Jet Sewer Line in to station for preventive maintenance.

FOREST AVENUE

Operator: Tony Tuski

Date: May 2014

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

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

DATE	RUN HOURS		PER DAY	
	Pump #1	Pump #2	Pump #1	Pump #2
5/1/2014-6/1/2014	87.0	85.9	2.81	2.77

Comments:

Generator run hours= 1.4

FOREST AVENUE

Operator: Ed Chelius

Date: June 2014

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

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

DATE	RUN HOURS		PER DAY	
	Pump #1	Pump #2	Pump #1	Pump #2
6/1/2014-7/1/2014	61.1	2.036	61.6	2.053

Comments:

Generator run hours= 1.3

FOREST AVENUE

Operator: Ed Chelius

Date: July 2014

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

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

DATE	RUN HOURS		PER DAY	
	Pump #1	Pump #2	Pump #1	Pump #2
7/1/2014-8/1/2014	52.6	51.9	1.696	1.674

Comments:

Generator run hours=2.0

FOREST AVENUE

Operator: Ed Chelius

Date: August 2014

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

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

DATE	RUN HOURS		PER DAY	
	Pump #1	Pump #2	Pump #1	Pump #2
8/1/2014-9/1/2014	51.0	50.3	1.64	1.62

Comments:

Generator run hours= 1.5

Wet well was cleaned this month on 8/7/14

FOREST AVENUE

Operator: Ed Chelius

Date: September 2014

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

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

DATE	RUN HOURS		PER DAY	
	Pump #1	Pump #2	Pump #1	Pump #2
9/1/2014-10/1/2014	44.5	44.0	1.48	1.46

Comments:

Generator run hours=1.7

FOREST AVENUE

Operator: **Ed Chelius**

Date: **October 2014**

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

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

DATE	RUN HOURS		PER DAY	
	Pump #1	Pump #2	Pump #1	Pump #2
10/1/2014-11/1/2014	54.9	52.2	1.77	1.68

Comments:

Generator run hours= 2.0

FOREST AVENUE

Operator: Ed Chelius

Date: November 2014

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

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

DATE	RUN HOURS		PER DAY	
	Pump #1	Pump #2	Pump #1	Pump #2
11/1/2014-12/1/2014	51.2	50.8	1.70	1.69

Comments:

Generator run hours= 1.4

11/11/14 McGovern in to clean wet well.

FOREST AVENUE

Operator: Ed Chelius

Date: December 2014

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

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

DATE	RUN HOURS		PER DAY	
	Pump #1	Pump #2	Pump #1	Pump #2
12/1/2014-1/1/2015	69.1	2.23	67.6	2.18

Comments:

Generator run hours= 1.7

HALFORD HILLS ESTATES

Operator: Tony Tuski

Date: January 2014

Equipment:

Operational
Yes No

Pump #1
Pump #2
Controls
Check Valves

Alarm System:

Operational

Good Poor

Wetwell Debris Buildup
Grounds, weeds

DATE	RUN HOURS		PER DAY	
	Pump #1	Pump #2	Pump #1	Pump #2
1/2/2014-2/3/2014	34.37	30.55	1.11	0.99

Comments:

HALFORD HILLS ESTATES

Operator: Tony Tuski

Date: February 2014

Equipment:

Operational
Yes No

Pump #1
Pump #2
Controls
Check Valves

Alarm System:

Operational

Good Poor

Wetwell Debris Buildup
Grounds, weeds

DATE	RUN HOURS		PER DAY	
	Pump #1	Pump #2	Pump #1	Pump #2
2/1/2014-3/1/2014	28.83	22.83	1.03	0.81

Comments:

HALFORD HILLS ESTATES

Operator: Tony Tuski

Date: March 2014

Equipment:

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

Alarm System:

Operational

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

DATE	RUN HOURS		PER DAY	
	Pump #1	Pump #2	Pump #1	Pump #2
3/1/2014-4/1/2014	36.03	32.00	1.16	1.03

Comments:

HALFORD HILLS ESTATES

Operator: Tony Tuski

Date: April 2014

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
4/1/2014 - 5/1/2014	34.76	31.22	1.16	1.04

Comments:

HALFORD HILLS ESTATES

Operator: Tony Tuski

Date: May 2014

Equipment:

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

Alarm System:

Operational

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

DATE	RUN HOURS		PER DAY	
	Pump #1	Pump #2	Pump #1	Pump #2
5/1/2014 - 6/1/2014	28.94	25.76	0.93	0.83

Comments:

HALFORD HILLS ESTATES

Operator: Ed Chelius

Date: June 2014

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 Grounds, weeds	X	

DATE	RUN HOURS		PER DAY	
	Pump #1	Pump #2	Pump #1	Pump #2
6/1/2014 - 7/1/2014	26.18	22.46	0.87	0.74

Comments:

HALFORD HILLS ESTATES

Operator: Ed Chelius

Date: July 2014

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
7/1/2014 - 8/1/2014	25.53	22.36	0.82	0.72

Comments:

HALFORD HILLS ESTATES

Operator: Ed Chelius

Date: August 2014

Equipment:

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

Alarm System:

Operational

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

DATE	RUN HOURS		PER DAY	
	Pump #1	Pump #2	Pump #1	Pump #2
8/1/2014 - 9/1/2014	26.09	22.33	0.84	0.72

Comments:

HALFORD HILLS ESTATES

Operator: Ed Chelius

Date: September 2014

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
9/1/2014 - 10/1/2014	24.35	20.64	0.811	0.688

Comments:

HALFORD HILLS ESTATES

Operator: Ed Chelius

Date: October 2014

Equipment:

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

Alarm System:

Operational

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

DATE	RUN HOURS		PER DAY	
	Pump #1	Pump #2	Pump #1	Pump #2
10/1/2014 - 11/1/2014	27.07	22.83	0.87	0.74

Comments:

HALFORD HILLS ESTATES

Operator: Ed Chelius

Date: November 2014

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
11/1/2014 - 12/1/2014	27.03	23.11	0.901	0.77

Comments:

HALFORD HILLS ESTATES

Operator: Ed Chelius

Date: December 2014

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
12/1/2014 - 1/1/2015	31.01	25.81	1.00	0.83

Comments:

PORT INDIAN P.S.

Operator: Tony Tuski

Date: March 2014

Equipment:

OPERATIONAL

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

Alarm System

Operational YES X NO ___

Emergency Generator

Run Hrs/Month 1.4 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>
3/1/2014 - 4/1/2014	14,732,700	475,248

<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>
3/1/2014 - 4/1/2014	157.78	136.22	5.09	4.39

Comments:

Generator hours = 1.4 hours

3/31/2014: Meter Guys in to calibrate flow meter.

PORT INDIAN P.S.

Operator: Tony Tuski

Date: April 2014

Equipment:

OPERATIONAL

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

Alarm System

Operational YES X NO ___

Emergency Generator

Run Hrs/Month 1.4 hr. YES X NO ___

Wetwell

Debris Buildup Good X Needs Cleaning ___

Exterior

General Condition

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

Flows

<u>DATE</u>	<u>TOTAL GALLONS</u>	<u>GALLONS/DAY</u>
4/1/2014 - 5/1/2014	16,889,500	562,983

<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>
4/1/2014 - 5/1/2014	169.81	162.90	5.66	5.43

Comments:

Generator run hours = 2.1 hours

4/18/2014: PENN Power in to service generator.

PORT INDIAN P.S.

Operator: Tony Tuski

Date: May 2014

Equipment:

OPERATIONAL

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

Alarm System

Operational YES X NO ___

Emergency Generator

Run Hrs/Month 1.4 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>
5/1/2014 - 6/1/2014	17,608,600	568,019

<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>
5/1/2014 - 6/1/2014	166.43	167.32	5.37	5.39

Comments:

Generator run hours = 1.3

PORT INDIAN P.S.

Date: June 2014

Operator: Ed Chelius

Equipment:

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

Alarm System

Operational

YES X NO ___

Emergency Generator

Run Hrs/Month 1.4 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>
6/1/2014 - 7/1/2014	9,204,800	306,826

<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>
6/1/2014 - 7/1/2014	86.88	104.80	2.896	3.493

Comments:

Generator run hours = 1.4

PORT INDIAN P.S.

Operator: Ed Chelius

Date: July 2014

Equipment:

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

Alarm System

Operational YES X NO ___

Emergency Generator

Run Hrs/Month 1.3 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>
7/1/2014 - 8/1/2014	6,982,400	225,238

<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>
7/1/2014 - 8/1/2014	66.9	84.31	2.15	2.71

Comments:

Generator run hours =1.3

Meter guys in to calibrate totalizer

PORT INDIAN P.S.

Date: August 2014

Operator: Ed Chelius

Equipment:

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

Alarm System

Operational

YES X NO ___

Emergency Generator

Run Hrs/Month 1.4 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>
8/1/2014 - 9/1/2014	5,196,500	167,629

<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>
8/1/2014 - 9/1/2014	54.87	56.78	1.77	1.83

Comments:

Generator run hours = 1.4

PORT INDIAN P.S.

Date: September 2014

Operator: Ed Chelius

Equipment:

OPERATIONAL

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

Alarm System

Operational

YES X NO ___

Emergency Generator

Run Hrs/Month hr.

YES X NO ___

Wetwell

Debris Buildup

Good X Needs Cleaning ___

Exterior

General Condition

Fascia and Cornice

Good X Poor ___

Roof

Good X Poor ___

Grounds, Weeds

Good X Poor ___

Driveway

Good X Poor ___

Flows

<u>DATE</u>	<u>TOTAL GALLONS</u>	<u>GALLONS/DAY</u>
9/1/2014 - 10/1/2014	5,087,900	169,596

<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>
9/1/2014 - 10/1/2014	54.63	49.51	1.821	1.650

Comments:

Generator run hours = 1.2

PORT INDIAN P.S.

Date: October 2014

Operator: Ed Chelius

Equipment:

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

Alarm System

Operational

YES X NO ___

Emergency Generator

Run Hrs/Month 1.2 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>
10/1/2014 - 11/1/2014	6,624,100	213,680

<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>
10/1/2014 - 11/1/2014	73.87	66.33	2.38	2.14

Comments:

Generator run hours = 1.2

Penn Power in to replace battery on generator.

PORT INDIAN P.S.

Date: November 2014

Operator: Ed Chelius

Equipment:

OPERATIONAL

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

Alarm System

Operational YES X NO ___

Emergency Generator

Run Hrs/Month hr. YES X NO ___

Wetwell

Debris Buildup Good X Needs Cleaning ___

Exterior

General Condition

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

Flows

<u>DATE</u>	<u>TOTAL GALLONS</u>	<u>GALLONS/DAY</u>
11/1/2014 - 12/1/2014	6,945,300	231,510

<u>DATE</u>	<u>Run Hours</u>		<u>Per Day</u>	
	<u>Pump #1</u>	<u>Pump #2</u>	<u>Pump #1</u>	<u>Pump #2</u>
11/1/2014 - 12/1/2014	80.32	69.04	2.67	2.30

Comments:

Generator run hours =1.3

11/24/14 Meter guys in to calibrate flow meter

PORT INDIAN P.S.

Operator: Ed Chelius

Date: December 2014

Equipment:

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

Alarm System

Operational YES X NO ___

Emergency Generator

Run Hrs/Month hr. YES X NO ___

Wetwell

Debris Buildup Good X Needs Cleaning ___

Exterior

General Condition

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

Flows

<u>DATE</u>	<u>TOTAL GALLONS</u>	<u>GALLONS/DAY</u>
12/1/2014 - 1/1/2015	11,514,000	371,419

<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>
12/1/2014 - 1/1/2015	134.74	110.6	4.35	3.56

Comments:

Generator run hours = 1.7

CHESTNUT AVENUE

Operator: Tony Tuski

Date: January 2014

<u>Item</u>	<u>Priority</u>	<u>Remarks</u>
<u>Control Panel</u>		
Level Controls	3	
Backup System	3	
<u>#1 Pump</u>		
Operation	3	
Check Valve	3	
Valving	3	
<u>#2 Pump</u>		
Operation	3	
Check Valve	3	
Valving	3	
<u>Generator</u>		
Operational	3	
Generator Run Hours <u>1.5</u>		
<u>Air Relief Valve</u>		
Operation	3	
<u>Auto Dialer</u>		
Operational	3	
<u>Wetwell</u>		
Condition	3	
<u>Building Condition</u>		
Exterior	3	
Interior	3	
Driveway	3	
Grounds, Weeds	3	

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

DATE	PUMP 1		PUMP 2	
	Run Hour	Per Day	Run Hour	Per Day
1/2/2014 – 2/3/2014	82.04	2.65	106.52	3.44

DATE	TOTAL GALLONS	GALLONS/DAY
1/2/2014 - 2/3/2014	2,069,200	66,748

Comments:

Generator hours=

1/13/2014: New alarm installed

CHESTNUT AVENUE

Operator: Tony Tuski

Date: February 2014

<u>Item</u>	<u>Priority</u>	<u>Remarks</u>
<u>Control Panel</u>		
Level Controls	3	
Backup System	3	
<u>#1 Pump</u>		
Operation	3	
Check Valve	3	
Valving	3	
<u>#2 Pump</u>		
Operation	3	
Check Valve	3	
Valving	3	
<u>Generator</u>		
Operational	3	
Generator Run Hours <u>1.5</u>		
<u>Air Relief Valve</u>		
Operation	3	
<u>Auto Dialer</u>		
Operational	3	
<u>Wetwell</u>		
Condition	3	
<u>Building Condition</u>		
Exterior	3	
Interior	3	
Driveway	3	
Grounds, Weeds	3	

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

DATE	PUMP 1		PUMP 2	
	Run Hour	Per Day	Run Hour	Per Day
2/1/2014 - 3/1/2014	88.61	3.16	121.54	4.34

DATE	TOTAL GALLONS	GALLONS/DAY
2/1/2014 - 3/1/2014	2,179,500	77,839

Comments:

Generator hours=1.33

2/25/2014: McGovern in to clean wet well.

CHESTNUT AVENUE

Operator: Tony Tuski

Date: March 2014

<u>Item</u>	<u>Priority</u>	<u>Remarks</u>
<u>Control Panel</u>		
Level Controls	3	
Backup System	3	
<u>#1 Pump</u>		
Operation	3	
Check Valve	3	
Valving	3	
<u>#2 Pump</u>		
Operation	3	
Check Valve	3	
Valving	3	
<u>Generator</u>		
Operational	3	
Generator Run Hours	<u>1.68</u>	
<u>Air Relief Valve</u>		
Operation	3	
<u>Auto Dialer</u>		
Operational	3	
<u>Wetwell</u>		
Condition	3	
<u>Building Condition</u>		
Exterior	3	
Interior	3	
Driveway	3	
Grounds, Weeds	3	

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

DATE	PUMP 1		PUMP 2	
	Run Hour	Per Day	Run Hour	Per Day
3/1/2014 - 4/1/2014	75.67	2.44	156.21	5.04

DATE	TOTAL GALLONS	GALLONS/DAY
3/1/2014 - 4/1/2014	2,274,200	73,361

Comments:

3/31/2014: Meter Guys in to calibrate meters.

CHESTNUT AVENUE

Operator: Tony Tuski

Date: April 2014

<u>Item</u>	<u>Priority</u>	<u>Remarks</u>
<u>Control Panel</u>		
Level Controls	3	
Backup System	3	
<u>#1 Pump</u>		
Operation	3	
Check Valve	3	
Valving	3	
<u>#2 Pump</u>		
Operation	3	
Check Valve	3	
Valving	3	
<u>Generator</u>		
Operational	3	
Generator Run Hours <u>2.28</u>		
<u>Air Relief Valve</u>		
Operation	3	
<u>Auto Dialer</u>		
Operational	3	
<u>Wetwell</u>		
Condition	3	
<u>Building Condition</u>		
Exterior	3	
Interior	3	
Driveway	3	
Grounds, Weeds	3	

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

DATE	PUMP 1		PUMP 2	
	Run Hour	Per Day	Run Hour	Per Day
4/1/2014 – 5/1/2014	108.1	3.60	151.48	5.05

DATE	TOTAL GALLONS	GALLONS/DAY
4/1/2014 - 5/1/2014	2,433,500	81,116

Comments:

April 2014: PENN Power in to service generator. Fire extinguisher man in to inspect all extinguishers in all stations.

CHESTNUT AVENUE

Operator: Tony Tuski

Date: May 2014

<u>Item</u>	<u>Priority</u>	<u>Remarks</u>
<u>Control Panel</u>		
Level Controls	3	
Backup System	3	
<u>#1 Pump</u>		
Operation	3	
Check Valve	3	
Valving	3	
<u>#2 Pump</u>		
Operation	3	
Check Valve	3	
Valving	3	
<u>Generator</u>		
Operational	3	
Generator Run Hours <u>2.28</u>		
<u>Air Relief Valve</u>		
Operation	3	
<u>Auto Dialer</u>		
Operational	3	
<u>Wetwell</u>		
Condition	3	
<u>Building Condition</u>		
Exterior	3	
Interior	3	
Driveway	3	
Grounds, Weeds	3	

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

DATE	PUMP 1		PUMP 2	
	Run Hour	Per Day	Run Hour	Per Day
5/1/2014 – 6/1/2014	125.08	4.03	132.31	4.27

DATE	TOTAL GALLONS	GALLONS/DAY
5/1/2014 - 6/1/2014	2,476,100	79,874

Comments: Generator hours=1.66

CHESTNUT AVENUE

Operator: Ed Chelius

Date: June 2014

<u>Item</u>	<u>Priority</u>	<u>Remarks</u>
<u>Control Panel</u>		
Level Controls	3	
Backup System	3	
<u>#1 Pump</u>		
Operation	3	
Check Valve	3	
Valving	3	
<u>#2 Pump</u>		
Operation	3	
Check Valve	3	
Valving	3	
<u>Generator</u>		
Operational	3	
Generator Run Hours <u>1.35</u>		
<u>Air Relief Valve</u>		
Operation	3	
<u>Auto Dialer</u>		
Operational	3	
<u>Wetwell</u>		
Condition	3	
<u>Building Condition</u>		
Exterior	3	
Interior	3	
Driveway	3	
Grounds, Weeds	3	

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

DATE	PUMP 1		PUMP 2	
	Run Hour	Per Day	Run Hour	Per Day
6/1/2014 - 7/1/2014	95.54	3.18	91.82	3.06

DATE	TOTAL GALLONS	GALLONS/DAY
6/1/2014 - 7/1/2014	1,774,800	59,160

Comments:

6/30/2014 - both pumps pulled, fishing line clogging pumps.

CHESTNUT AVENUE

Operator: Ed Chelius

Date: July 2014

<u>Item</u>	<u>Priority</u>	<u>Remarks</u>
<u>Control Panel</u>		
Level Controls	3	
Backup System	3	
<u>#1 Pump</u>		
Operation	3	
Check Valve	3	
Valving	3	
<u>#2 Pump</u>		
Operation	3	
Check Valve	3	
Valving	3	
<u>Generator</u>		
Operational	3	
Generator Run Hours <u>1.34</u>		
<u>Air Relief Valve</u>		
Operation	3	
<u>Auto Dialer</u>		
Operational	3	
<u>Wetwell</u>		
Condition	3	
<u>Building Condition</u>		
Exterior	3	
Interior	3	
Driveway	3	
Grounds, Weeds	3	

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

DATE	PUMP 1		PUMP 2	
	Run Hour	Per Day	Run Hour	Per Day
7/1/2014 – 8/1/2014	77.54	87.14	2.50	2.81

DATE	TOTAL GALLONS	GALLONS/DAY
7/1/2014 - 8/1/2014	1,560,500	50,338

Comments: Generator hours= 1.34

Meter guys in to calibrate totalizer flow meter.

CHESTNUT AVENUE

Operator: Ed Chelius

Date: August 2014

<u>Item</u>	<u>Priority</u>	<u>Remarks</u>
<u>Control Panel</u>		
Level Controls	3	
Backup System	3	
<u>#1 Pump</u>		
Operation	3	
Check Valve	3	
Valving	3	
<u>#2 Pump</u>		
Operation	3	
Check Valve	3	
Valving	3	
<u>Generator</u>		
Operational	3	
Generator Run Hours <u>1.33</u>		
<u>Air Relief Valve</u>		
Operation	3	
<u>Auto Dialer</u>		
Operational	3	
<u>Wetwell</u>		
Condition	3	
<u>Building Condition</u>		
Exterior	3	
Interior	3	
Driveway	3	
Grounds, Weeds	3	

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

DATE	PUMP 1		PUMP 2	
	Run Hour	Per Day	Run Hour	Per Day
8/1/2014 – 9/1/2014	80.58	2.59	90.07	2.90

DATE	TOTAL GALLONS	GALLONS/DAY
8/1/2014 - 9/1/2014	1,519,700	49,022

Comments:

Wet well was cleaned this month on 8/7/14

CHESTNUT AVENUE

Operator: Ed Chelius

Date: September 2014

<u>Item</u>	<u>Priority</u>	<u>Remarks</u>
<u>Control Panel</u>		
Level Controls	3	
Backup System	3	
<u>#1 Pump</u>		
Operation	3	
Check Valve	3	
Valving	3	
<u>#2 Pump</u>		
Operation	3	
Check Valve	3	
Valving	3	
<u>Generator</u>		
Operational	3	
Generator Run Hours <u>1.2</u>		
<u>Air Relief Valve</u>		
Operation	3	
<u>Auto Dialer</u>		
Operational	3	
<u>Wetwell</u>		
Condition	3	
<u>Building Condition</u>		
Exterior	3	
Interior	3	
Driveway	3	
Grounds, Weeds	3	

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

DATE	PUMP 1		PUMP 2	
	Run Hour	Per Day	Run Hour	Per Day
9/1/2014 – 10/1/2014	74.12	2.47	79.44	2.648

DATE	TOTAL GALLONS	GALLONS/DAY
9/1/2014 - 10/1/2014	1,391,100	46,370

Comments: Generator hours=1.2

CHESTNUT AVENUE

Operator: Ed Chelius

Date: October 2014

<u>Item</u>	<u>Priority</u>	<u>Remarks</u>
<u>Control Panel</u>		
Level Controls	3	
Backup System	3	
<u>#1 Pump</u>		
Operation	3	
Check Valve	3	
Valving	3	
<u>#2 Pump</u>		
Operation	3	
Check Valve	3	
Valving	3	
<u>Generator</u>		
Operational	3	
Generator Run Hours		<u>1.34</u>
<u>Air Relief Valve</u>		
Operation	3	
<u>Auto Dialer</u>		
Operational	3	
<u>Wetwell</u>		
Condition	3	
<u>Building Condition</u>		
Exterior	3	
Interior	3	
Driveway	3	
Grounds, Weeds	3	

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

DATE	PUMP 1		PUMP 2	
	Run Hour	Per Day	Run Hour	Per Day
10/1/2014 – 11/1/2014	83.85	2.70	106.74	3.44

DATE	TOTAL GALLONS	GALLONS/DAY
10/1/2014 - 11/1/2014	1,708,400	55,109

Comments: Generator hours= 1.34

CHESTNUT AVENUE

Operator: Ed Chelius

Date: November 2014

<u>Item</u>	<u>Priority</u>	<u>Remarks</u>
<u>Control Panel</u>		
Level Controls	3	
Backup System	3	
<u>#1 Pump</u>		
Operation	3	
Check Valve	3	
Valving	3	
<u>#2 Pump</u>		
Operation	3	
Check Valve	3	
Valving	3	
<u>Generator</u>		
Operational	3	
Generator Run Hours <u>1.7</u>		
<u>Air Relief Valve</u>		
Operation	3	
<u>Auto Dialer</u>		
Operational	3	
<u>Wetwell</u>		
Condition	3	
<u>Building Condition</u>		
Exterior	3	
Interior	3	
Driveway	3	
Grounds, Weeds	3	

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

DATE	PUMP 1		PUMP 2	
	Run Hour	Per Day	Run Hour	Per Day
11/1/2014 – 12/1/2014	97.22	3.24	107.73	3.5

DATE	TOTAL GALLONS	GALLONS/DAY
11/1/2014 - 12/1/2014	1,738,500	57,950

Comments: Generator hours= 1.7

11/11/14 McGovern in to clean out wet well

11/15/14 Sealy in to fix low wet well alarm

11/24/14 Meter guys in to calibrate meters

CHESTNUT AVENUE

Operator: Ed Chelius

Date: December 2014

<u>Item</u>	<u>Priority</u>	<u>Remarks</u>
<u>Control Panel</u>		
Level Controls	3	
Backup System	3	
<u>#1 Pump</u>		
Operation	3	
Check Valve	3	
Valving	3	
<u>#2 Pump</u>		
Operation	3	
Check Valve	3	
Valving	3	
<u>Generator</u>		
Operational	3	
Generator Run Hours <u>1.34</u>		
<u>Air Relief Valve</u>		
Operation	3	
<u>Auto Dialer</u>		
Operational	3	
<u>Wetwell</u>		
Condition	3	
<u>Building Condition</u>		
Exterior	3	
Interior	3	
Driveway	3	
Grounds, Weeds	3	

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

DATE	PUMP 1		PUMP 2	
	Run Hour	Per Day	Run Hour	Per Day
12/1/2014 - 1/1/2015	116.27	3.75	143.04	4.61

DATE	TOTAL GALLONS	GALLONS/DAY
12/1/2014 - 1/1/2015	2,216,600	71,503

Comments: Generator hours=1.34

Jack Henry in to fix levers for generator ventilation, they were stuck open.

Appendix L

Hydraulic Loading Calculation

TABLE 1
2010 - 2014 MONTHLY HYDRAULIC LOADING DATA
WEST NORRITON TOWNSHIP
SANITARY SEWER SYSTEM to NORRISTOWN

Month	Hydraulic Loading					Rainfall (inches) 2014
	(Million Gallons/Day)					
	2010	2011	2012	2013	2014	
January	2.226	1.756	2.400 *	2.210	2.348	1.9
February	1.262	2.687 *	1.830 *	1.928	3.443	0.0
March	1.150	3.455 *	1.740 *	1.978	0.527	4.1
April	1.332	2.623 *	2.120	1.604	2.871 *	6.1 *
May	1.339	1.885	1.970	1.635	3.026 *	3.3 *
June	1.395	1.461	1.450	2.914 *	1.940 *	4.5 *
July	1.283	1.285	1.520	1.996 *	1.351	4.6
August	2.117	2.286	1.610	2.059 *	1.441	2.9
September	1.972	3.387	1.730	1.475	1.461	1.8
October	2.225 *	2.244	1.740	1.442	1.360	3.4
November	1.879 *	2.355	1.730	1.360	1.594	4.0
December	3.139 *	2.857	2.280	2.261	2.050	3.5
ANNUAL AVE.	1.777	2.357	1.843	1.905	1.951	3.3
3-MONTH MAX AVERAGE DAILY FLOW						
	2.414	2.922	1.990	2.323	2.612	4.6
RATIO (3-MONTH MAX / ANNUAL AVERAGE)						
	1.36	1.24	1.08	1.22	1.34	
5 YEAR AVERAGE HYDRAULIC RATIO : 1.247						
5 YEAR ANNUAL AVERAGE LOADING : 1.967 Million Gallons/Day						
**PREVIOUS YEAR - 5 YEAR ANNUAL AVERAGE LOADING : 1.981 Million Gallons/Day						

* - INDICATES HIGHEST THREE CONSECUTIVE MONTHS

** - FROM 2012 REPORT

TABLE 3
2010-2014 NEW FLOWS PER YEAR
West Norriton Township
Flow to Norristown

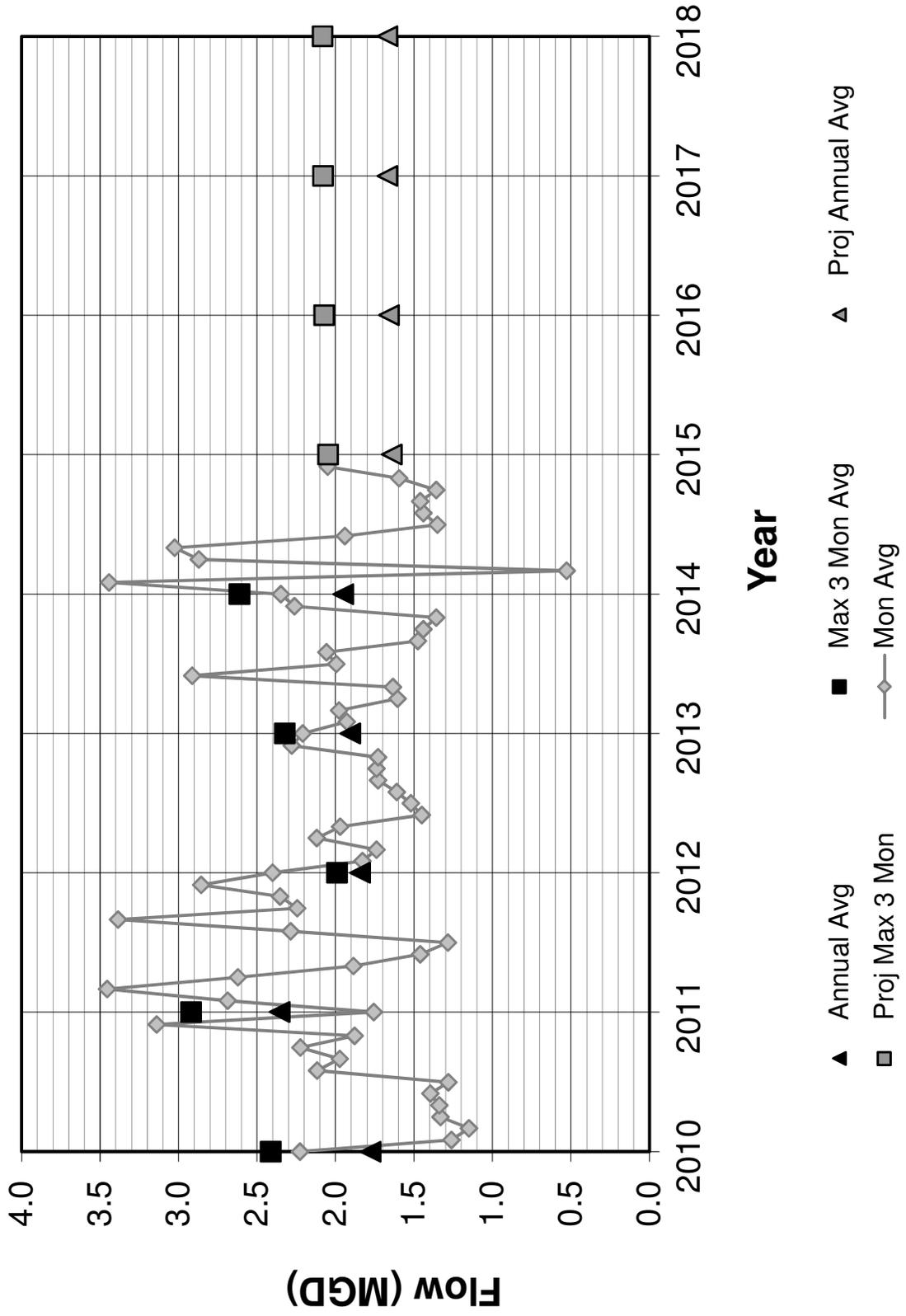
Year	# of EDUs connected	gpd/EDU	New Flow (MGD)
2010	100	285	28500
2011	5	285	1425
2012	10	285	2850
2013	5	285	1425
2014	0	285	0

TABLE 4
ADJUSTED ANNUAL AVERAGE FLOW
West Norriton Township
Flow to Norristown

Year	Annual Average Flow (MGD)	All projects connected (Either approved by Planning Modules or which did not require planning)				Adjusted Annual Average Flow (MGD)
		2010	2011	2012	2013	
2010						
2011	1.777		0.000	0.000	0.000	1.777
2012	2.357			0.000	0.000	2.357
2013	1.843				0.000	1.843
2014	1.905				0.001	1.906
Total	9.833				0.001	1.951
5 Yr Ave.	1.967				5 Yr. Adjusted Ave.	1.639

WEST NORRITON TOWNSHIP
FLOW TO NORRISTOWN

Figure 1: Hydraulic Loading Graph



**TABLE 5
ADJUSTED PROJECTIONS
West Norriton township
Flow to Norristown**

Year	Previous Year's Annual Ave Flow (MGD)	New EDUs	Increased Flow (MGD)	Projected Annual Ave. Flow	Projected Max Month Flow (MGD)
2015	1.639	10	0.003	1.642	2.048
2016	1.642	67	0.019	1.661	2.072
2017	1.661	27	0.008	1.669	2.081
2018	1.669	7	0.002	1.671	2.084
2019	1.671	0	0.000	1.671	2.084

Appendix M

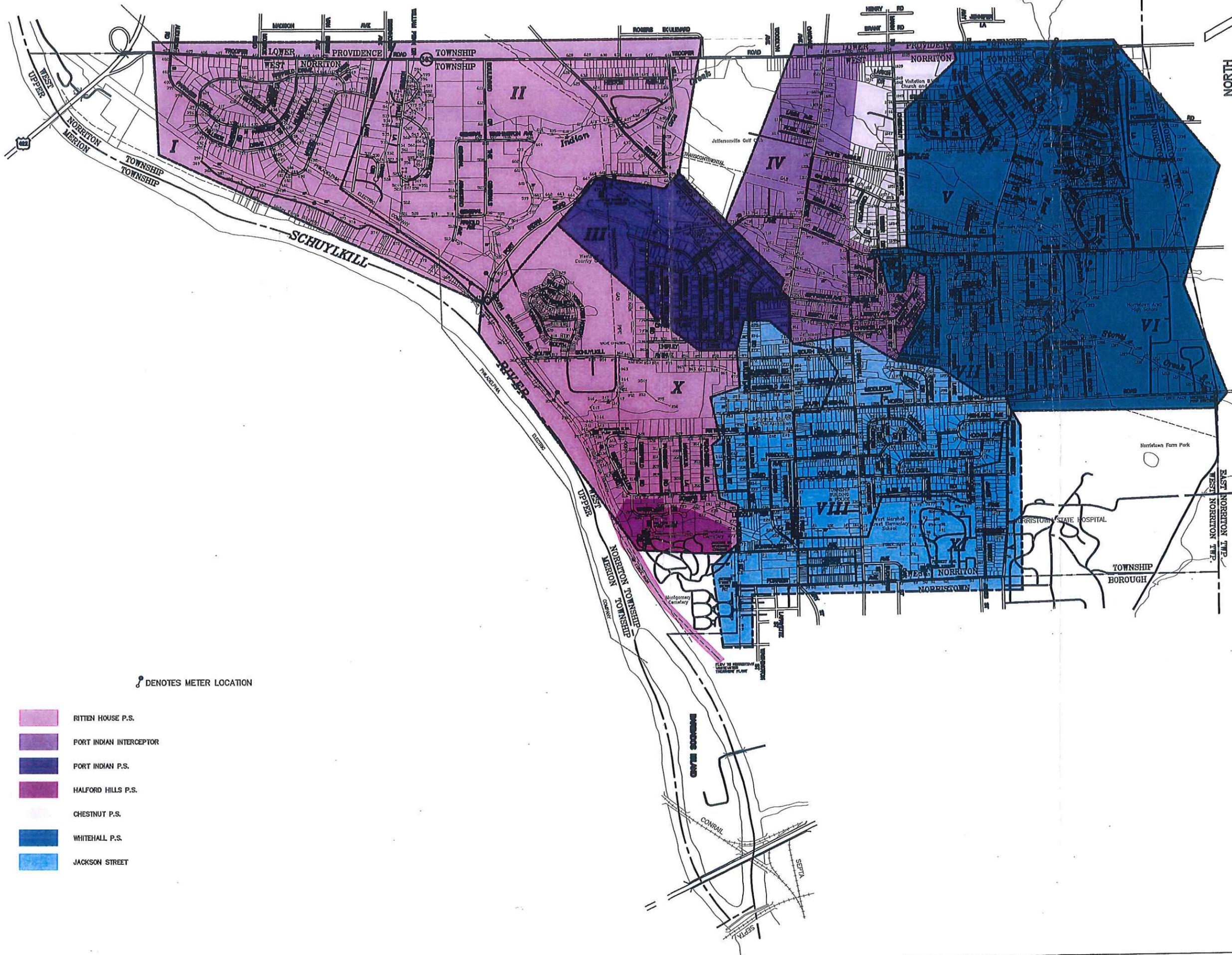
Drawings



⊕ DENOTES METER LOCATION

- RITTEN HOUSE P.S.
- PORT INDIAN INTERCEPTOR
- PORT INDIAN P.S.
- HALFORD HILLS P.S.
- CHESTNUT P.S.
- WHITEHALL P.S.
- JACKSON STREET

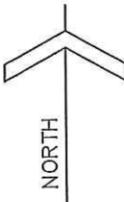
FOR REVIEW ASSOCIATES BY:		2010 updated
MANAGER:	DESIGN BY:	CHECK BY:
SURV. CHIEF:	DRAWN BY:	CHECK BY:
FIELDBOOK NO.:	DATA COLLECTOR:	DATE:
DRAWING REFERENCE:		REVISION
CLIENT:		DATE
<p style="text-align: center;">RETTEW</p> <p style="font-size: small;">RETTEW Associates, Inc. 2520 Oakwood Rd., Suite 100, Camp Hill, PA 17011 Phone (717) 667-3021 • Fax (717) 667-4923 Email: rettetw@rettetw.com Baltimore, PA • Lancaster, PA • Pottsville, PA • York, PA Copyright © 2008 Rettetw Associates, Inc. All Rights Reserved.</p>		SCALE
		<p style="text-align: center;">0 400 800 1600 2400</p> <p style="text-align: center;">1" = 800'</p>
<p>WEST NORRITON TOWNSHIP 2008 SEWER INSPECTION CONTRACT</p>		
DATE: MARCH 2004		
SHEET NO. 1 OF 1		
DWG. NO. 04-05770-003		



⊕ DENOTES METER LOCATION

- RITTEN HOUSE P.S.
- PORT INDIAN INTERCEPTOR
- PORT INDIAN P.S.
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- WHITEHALL P.S.
- JACKSON STREET

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<p>MANAGER:</p> <p>DESIGN BY:</p> <p>DRAWING REFERENCE:</p> <p>SHEETS:</p>	<p>SURV. CHIEF:</p> <p>DESIGN BY:</p> <p>DRAWN BY:</p> <p>T.M.C.</p>	<p>FOR RETTEW ASSOCIATES BY:</p> <p>DATE:</p> <p>REVISION:</p>
<p>CLIENT:</p> <p>SCALE: 1" = 800'</p> <p>0 400 800 1600 2400</p>		
<p>WEST NORRITON TOWNSHIP Drainage Basins</p>		
<p>DATE: MARCH 2004</p> <p>SHEET NO. 1 OF 1</p> <p>DWG. NO. 04-05770-003</p>		



- EXISTING SANITARY SEWER
- EXISTING FORCE MAIN
- TV/OUT AREA - 1993
- TV/OUT AREA - 1994
- TV/OUT AREA - 1996
- TV/OUT AREA - 1998
- TV/OUT AREA - 1997
- TV/OUT AREA - 2000
- TV/OUT AREA - 2008
- MANHOLE REPAIR
- MANHOLE REPAIR - 2012
- TV/OUT AREA - 2012
- REPLACE SEWER LINE - 2014
- TV/OUT AREA - 2014/2016
- PLUM REPAIR PROJECT - 2012/2016
- REPAIR SEWER SEWER - 2017
- TV MAIN & LATERALS - 2018
- SEWER LINES - 2018
- 2017 SCHEDULED SEWER SYSTEM
- 2008 CLEAN & TV LOWER SECTION BASH
- 2008 GREAT ARTERY, REPLACE & LINC

RETREW
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 Website: www.retrew.com
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**WEST NORRITON TWP.
 SEWER REPAIRS
 1993 - 2012**

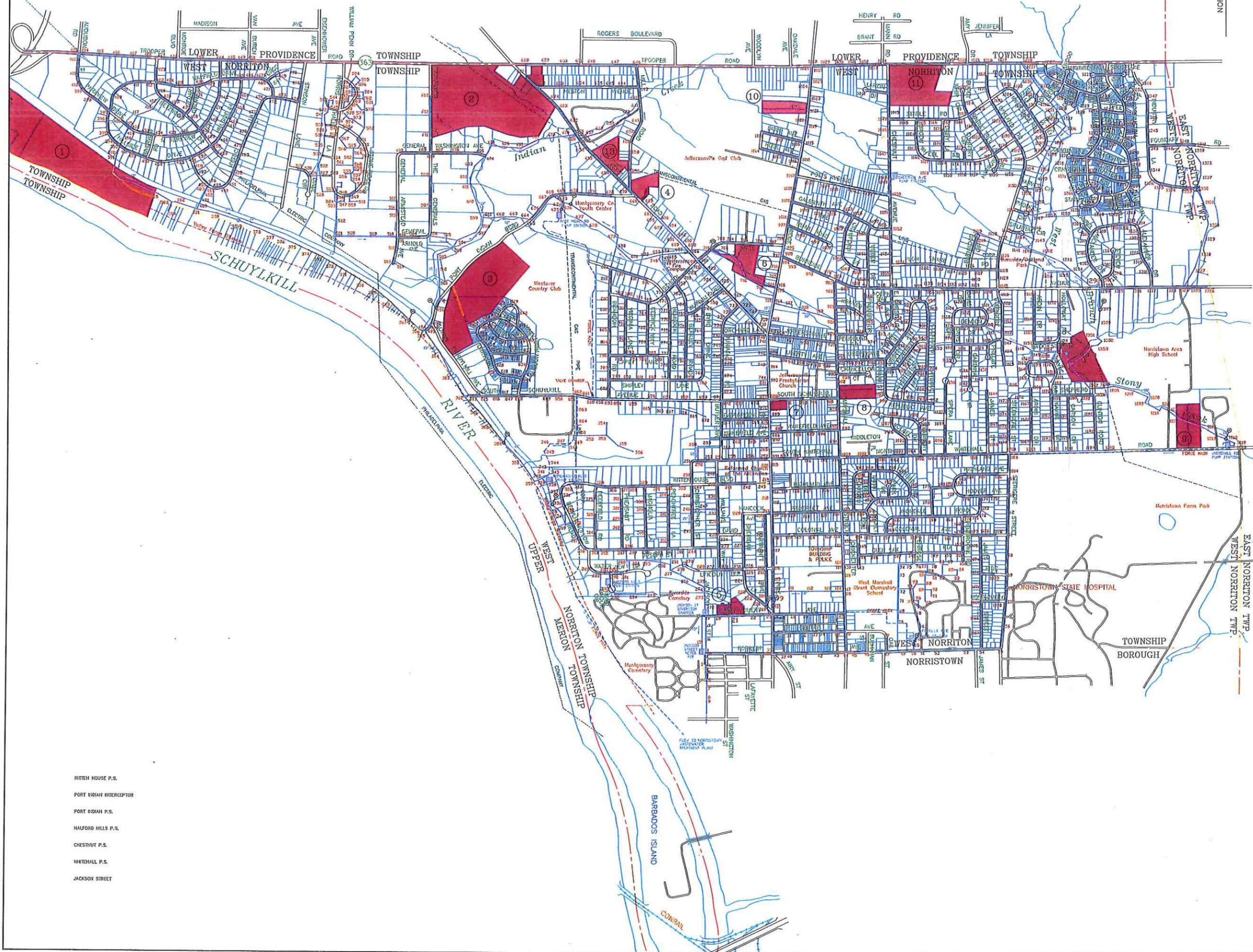
DATE: MARCH 2007
 SHEET NO. 1 OF 1
 DWG. NO. 07-05770-001

MANAGER:	DESIGN BY:	DRAWING REFERENCE:
SURV. CHIEF:	CHKD BY:	DATE:
FIELDBOOK NO.:	DATA COLLECTOR:	NO.:
1/2/07	5000/2008/04/08	REASON:



CLIENT

FOR REVIEW ASSOCIATES BY:	NO.	DATE	REASON



NORTH

CLIENT	DATE	SCALE	PROJECT
DESIGNER	DATE	BY	DESCRIPTION
CHECKER	DATE	BY	DESCRIPTION
APPROVED	DATE	BY	DESCRIPTION

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DATE: MARCH 25
 SHEET NO. 1 OF 1
 DWG. NO. 07-03770

- RITTEN HOUSE P.S.
- PORT INDIAN INTERCEPTOR
- PORT INDIAN P.S.
- HALFORD HILLS P.S.
- CHESTNUT P.S.
- WHITEHALL P.S.
- JACKSON STREET