

**City of Harrisburg
Department of Public Works
Advanced Wastewater Treatment Facility**



**BUREAU OF SEWERAGE
MONTHLY REPORT
JUNE 2011**

PHOTO: Final Clarifiers.

GENERAL

During the month of June, the AWTF met all monthly average NPDES permit requirements. The hydraulic loading to the facility averaged 24.7 MGD while achieving removal reductions of 95.7 percent CBOD, 94.2 percent Suspended Solids, and 55.6 percent Phosphorus (Exhibit A).

Contained in the body of this report are significant events that have transpired since last reporting. Factual information can be found in the attached exhibits.

OPERATIONS

During the period of May 30, 2011 through June 27, 2011 the Number 1 or Number 2 Enginator operated a total of 95 percent of the time for an average daily kWh output of 6,150 or a total production of 184,500 kWh. June revenue is anticipated to be approximately \$14,760.00 (Exhibit D).

Included in this report is flow information collected by ADS equipment and other monitoring devices. Data collected through June 2011 is presented in Exhibit B with flow in million gallons per day (MGD) broken down into Total, City, Suburbs and ten (10) drainage regions.

During the month of June, a total of 2,212,600 gallons of waste were delivered by the contract waste haulers to the AWTF (Exhibit G). Income, for the same period, amounted to \$55,684.80 (Exhibit G).

JUNE ACCOMPLISHMENTS

Operations:

- Assisted AECOM representatives with collection and analysis of additional process samples. The data obtained will calibrate a process model to assist with the design for future BNR upgrade.
- Held Performance Trials for the Belt Filter Press Polymer Contract due for bid, evaluated laboratory results and issued a contract award recommendation.
- Attended bi-weekly progress meetings with HRG, Inc. and AECOM, Inc. for design of upcoming BNR upgrade.
- Continued night and weekend monitoring of the Sidestream Treatment and UNOX Pilot Trailers.
- Temporarily removed Primary Settling Tank Number 2 from service for repairs to the cross collector.

Laboratory

- Completed the first series of semi-annual industrial user compliance sampling at the Norfolk Southern Corporation (Harrisburg Yard), New Morgan Municipal Authority, and Orograin Bakeries Manufacturing, Inc.
- Completed additional compliance sampling at surchargeable industrial users, Harrisburg Dairies, Inc. and Hershey Creamery Company.
- Performed weekly nutrient sampling and testing of our influent and effluent as required by our NPDES permit.
- Performed additional testing for the BNR pilot study.
- Performed a data audit of the AWTF laboratory's daily analysis work sheets.

Industrial Waste Program

- Reviewed self monitoring reports submitted for June 2011.
- Completed Industrial Waste Pretreatment Program's annual facility inspection at Harrisburg Dairies, Inc., Norfolk Southern Railway Company and the Swatara Township Landfill. All semi-annual facility inspections have been completed.
- Completed Contract Waste Hauling and Pretreatment laboratory report preparation, and Quickbooks billing.
- Collected ADS flow monitoring data and updated the exhibit for the AWTF's monthly report.

Maintenance:

- Replaced the wetting head on the mixing chamber for the new Polymer System.
- Replaced the electrical contactor on the cooling tower for the UNOX Compressors.
- Replaced the shaft and bearings in the cooling fan on the large radiator on the roof of the Cogeneration Building.
- Replaced the gear assembly in the gas meter for Enginator Number 2 in the Cogeneration Building.
- Replaced the seals in the gear box for Sludge Pump Number 1 for the Belt Filter Presses.
- Removed an eight inch pipe fitting and flushed drain line for the cyclone in the Degritter Building.

- Removed debris from the bottom cone section of the cyclone in the Degritter Building.
- Replaced the packing in both Waste Sludge Pumps in the pipe gallery for the Final Settling Tanks.
- Rebuilt the pump assembly in the Final Effluent Sampler at the Final Settling Tanks.
- Removed the waste sludge flow meter, cleaned the probes and replaced the meter for calibration.
- Removed debris repeatedly from both cyclones on Grit Classifiers Number 1 and 2 in the Grit Removal Garage.
- Replaced the belts on Gorman Rupp Pump Number 2 for the Grit Removal System.
- Removed debris repeatedly from the four Gorman Rupp Pumps for the Grit Removal System.
- Replaced six attachment links, thirteen wear shoes, and one flight for the cross collectors in Primary Settling Tank Number 2.
- Replaced the packing in Sewage Pump Number 4 in the basement of the Settled Sewage Pump Station.

Field Maintenance:

- Cleaned the scum off the siphon basins on the Paxton Creek Chambers.
- Cut grass and weeds at CSO Chambers and manholes along the Front Street, Paxton Creek, Hemlock, and Spring Creek Interceptors.
- Removed a large tree to gain access to CSO Chamber Number 022.
- Flushed the siphon lines for CSO Number 026, and 039.
- Removed rags and debris from CSO Chambers Numbers 019, 026, 032, 033, 039, and 056.
- Replaced the overflow detection devices at CSO Chambers Number 14 and 51.
- Vactored the cross collector trough in Primary Settling Tank Number 2.
- Vactored, washed down, inspected, and greased CSO Chambers Number 033 and 039.

JULY GOALS

- Perform annual priority pollutant scan on the influent, effluent and biosolids as required by our NPDES permit.
- Begin the second series of semi-annual industrial user compliance sampling.
- Begin ERA quality control and quality assurance proficiency testing as required by our NPDES permit.
- Complete the second quarter 2011 significant noncompliance evaluations.
- Update Industrial User and Contract Waste Hauler data files.
- Issue Contract Waste Hauler permits and renewal letters.
- Install the bearing assembly for Sewage Pump Number 1 at the Front Street Pump Station.
- Repair the hydraulic gate for Bar Screen Number 2 at the Front Street Pump Station.

EXHIBIT A

CITY OF HARRISBURG
ADVANCED WASTEWATER TREATMENT FACILITY

Process Control - 2011

Parameters	January	February	March	April	May	June	July	August	September	October	November	December	Average	NPDES Limits
Volume, MGD	16.5	23.7	38.0	41.3	37.5	24.7							30.3	37.7
Carbonaceous Biochemical Oxygen Demand														
Influent, mg/l	192	136	89	71	82	119							115	-----
Effluent, mg/l	17	22	16	10	6	5							13	25
Percent Removal, %	90.8	80.2	76.1	79.3	89.5	95.7							85.3	-----
Effluent Loading, lb/d	2,288	4,333	4,804	3,323	2,015	1,001							2,961	7,860
Suspended Solids:														
Influent, mg/l	207	164	111	91	109	162							141	-----
Effluent, mg/l	41	54	40	21	13	9							30	30
Percent Removal, %	79.4	63.2	55.8	70.5	84.7	94.2							74.6	-----
Effluent Loading, lb/d	5,547	10,480	11,996	7,158	4,251	1,802							6,872	9,433
Nitrogen														
Total-N														
Influent, mg/l	27	24	15	12	13	19							18	-----
Effluent, mg/l	30	23	16	12	12	15							18	Monitor
Effluent Loading, lb/d	4,197	4,169	4,452	4,168	3,824	2,955							3,961	-----
NH3-N														
Influent mg/l	16	12	8	7	9	13							11	-----
Effluent, mg/l	21	16	10	8	10	13							13	17 (2)
Effluent Loading, lb/d	2,931	3,013	2,732	2,512	2,799	2,724							2,785	4,716
Phosphorus:														
Influent, mg/l	4.4	3.1	2.1	1.9	2.2	3.0							2.8	-----
Effluent, mg/l	1.6	1.5	1.3	0.9	1.0	1.3							1.3	2.0
Percent Removal, %	63.7	49.9	29.1	44.1	49.0	55.6							48.6	-----
Effluent Loading, lb/d	213	285	371	281	299	261							285	629
pH:														
Influent, Std. Units	7.3	7.3	7.2	7.2	7.2	7.3							7.3	-----
Effluent, Std. Units	7.0	7.0	7.0	6.9	6.9	6.9							7.0	6.0 - 9.0
Dissolved Oxygen:														
Effluent Minimum, mg/l	8.6	7.5	8.8	7.2	6.8	7.4							7.7	5.0 Min.
Fecal Coliform:														
Effluent, No./100 ml	13	24	87	49	9	7							32	200/100 ml (1)
Chlorine Residual:														
Effluent, mg/l	0.19	0.19	0.25	0.27	0.38	0.39							0.28	0.50

(1) Seasonal limit 2,000/100 ml Oct. 1 to Apr. 30 and 200/100 ml May 1 to Sept. 30.

(2) Seasonal Limit May 1 to Nov. 1.

EXHIBIT B

CITY OF HARRISBURG
ADVANCED WASTEWATER TREATMENT FACILITY

Flow Monitoring Information, MGD - 2011

Month	Total Flow	City Regions										Suburb Regions										Total Precip inches
		1	2	3	4	5	6	7	8	9	10	1	2	3	4	5	6	7	8	9	10	
January	16,500	6,690	9,810	5,091	0.112	0.152	1,014	0.321	1,818	2,648	1,797	3,411	0.136	1,530								
February	23,700	9,695	14,005	7,159	0.187	0.168	1,860	0.321	2,070	3,410	2,559	5,758	0.208	2,780								
March	38,000	13,130	24,870	8,799	0.462	1,516	1,626	0.727	2,856	6,278	6,965	8,286	0.485	6,440								
April	41,300	17,160	24,140	12,257	0.408	1,109	1,975	1,413	3,171	6,685	5,232	8,575	0.477	11,320								
May	37,500	16,309	21,191	11,845	0.528	0,520	2,491	0,925	3,084	5,396	3,341	7,588	1,782	4,900								
June	24,700	11,541	13,159	8,816	0.336	0,419	1,649	0,321	2,367	3,799	2,041	4,570	0.382	4,260								
July																						
August																						
September																						
October																						
November																						
December																						
Average	30.28	12.42	17.86											5.21								
Percent	100.00	41.02	58.98											31.23								

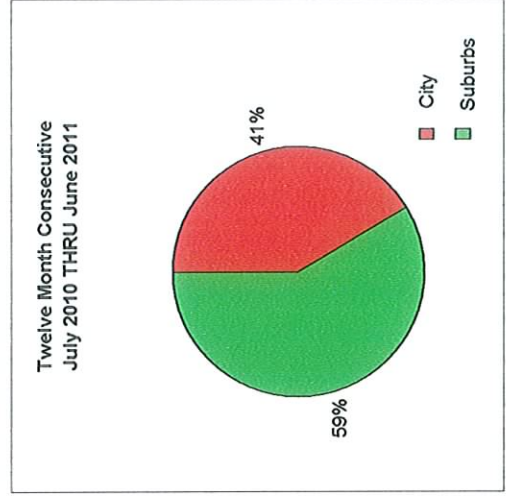
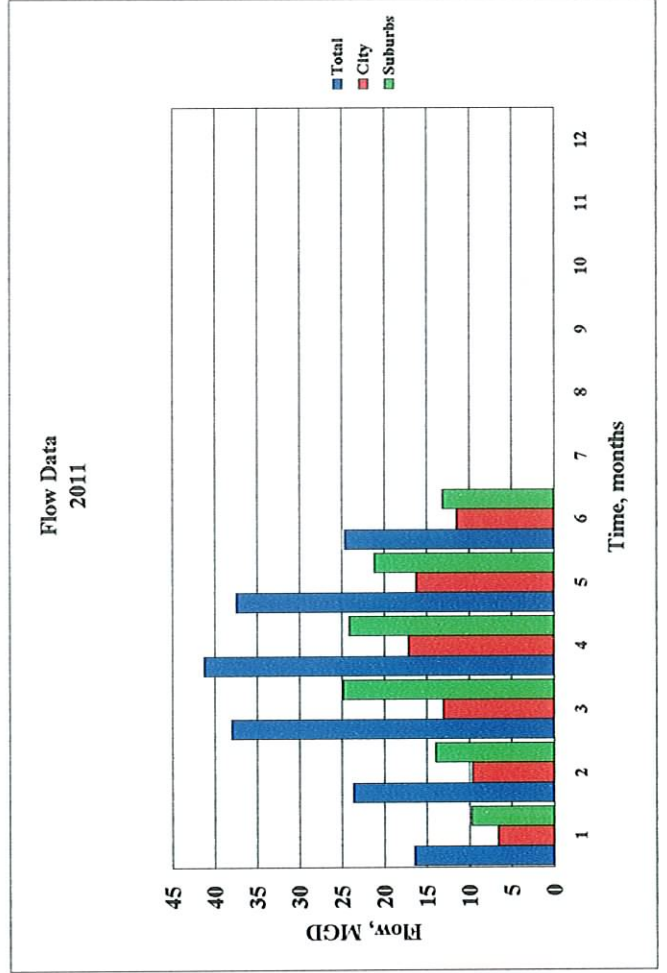


EXHIBIT C

CITY OF HARRISBURG
ADVANCED WASTEWATER TREATMENT FACILITY

Treatment Utility and Chemical Usage - 2011

Utility / Chemical	January	February	March	April	May	June	July	August	September	October	November	December	Average	Total
Electric														
Total, kWh	1,020,700	903,900	961,700	984,000	1,056,800	*	*						821,183	4,927,100
Average, kWh/Day	32,926	32,282	31,023	32,800	34,090	*	*						32,624	-----
Cost, Dollars	\$88,624.90	\$106,553.66	\$95,510.54	\$91,387.17	\$79,994.58	*	*						\$77,011.81	\$462,070.85
Fuel Oil														
Total, Gals.	0	0	0	0	0	0	0						0	0
Average, Gals./Day	0	0	0	0	0	0	0						0	-----
Cost, Dollars	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00						\$0.00	\$0.00
Natural Gas														
Total, Cu Ft	824.5	532.0	362.7	144.8	150.9	*	*						336	2,015
Average, Cu Ft/Day	29.5	19.0	11.7	4.8	0.5	*	*						13	-----
Cost, Dollars	\$13,476.15	\$6,472.96	\$3,513.90	\$690.29	\$150.85	*	*						\$4,050.69	\$24,304.15
Water														
Total, Gal.	661,000	696,000	665,000	923,000	575,000	*	*						704,000	3,520,000
Average, Gal./Day	21,323	24,857	21,452	30,767	19,167	*	*						23,513	-----
Cost, Dollars	\$5,939.33	\$6,140.58	\$5,962.33	\$7,445.83	\$5,444.83	*	*						\$5,155.48	\$30,932.90
Chlorine Disinfection														
Total, Lbs.	7,525	7,785	10,714	10,080	10,860	9,300	9,300						9,377	56,264
Average, Lbs./Day	243	278	346	336	350	310	310						310	-----
Avg Residual, mg/l	0.18	0.18	0.25	0.27	0.38	0.39	0.39						0.28	-----
Cost, \$/Lbs.	\$0.33	\$0.33	\$0.33	\$0.33	\$0.33	\$0.33	\$0.33						\$0.33	-----
Total Cost, Dollars	\$2,445.63	\$2,530.13	\$3,482.05	\$3,276.00	\$3,529.50	\$3,022.50	\$3,022.50						\$3,047.63	\$18,285.80
Phosphorous Removal														
Total FeSO4, Gals.	44,032	28,918	10,750	9,181	0	0	0						15,480	92,880
Avg FeSO4, Gals./Day	1,420	1,033	347	306	0	0	0						518	-----
FeSO4 Cost, \$/Gal.	\$0.54	\$0.54	\$0.54	\$0.54	\$0.54	\$0.54	\$0.54						\$0.54	-----
FeSO4 Total Cost, Dollar	\$23,865.34	\$15,673.29	\$5,826.50	\$4,975.83	\$0.00	\$0.00	\$0.00						\$8,390.16	\$50,340.96

* No data at time of report

EXHIBIT D

CITY OF HARRISBURG
ADVANCED WASTEWATER TREATMENT FACILITY

Cogeneration Electrical Production: 2010 - 2011

Period	Percent Run Time	Daily Avg Kilowatt	Kilowatt Hours Produced	Revenue Collected
Dec 29th - Jan 29th, 2010	85	7,177	222,500	\$32,485.00
Jan 29th - Feb 28th, 2010	62	5,329	149,200	\$21,783.20
Feb 28th - Mar 29th, 2010	77	5,832	180,790	\$26,395.34
Mar 29th - Apr 29th, 2010	75	5,467	164,000	\$23,944.00
Apr 29th - May 30th, 2010	100	8,058	249,800	\$36,470.80
May 30th - Jun 27th, 2010	79	6,890	206,700	\$30,178.20
Jun 27th - Jul 27th, 2010	59	3,945	122,300	\$17,855.80
Jul 27th - Aug 27th, 2010	49	2,335	72,400	\$10,570.40
Aug 27th - Sep 27th, 2010	38	1,750	52,500	\$7,665.00
Sep 27th - Oct 27th, 2010	31	1,961	60,800	\$8,876.80
Oct 27th - Nov 29th, 2010	52	3,230	96,900	\$14,147.40
Nov 29th - Dec 29th, 2010	36	2,506	77,700	\$11,344.20
Total - 2010	743	54,480	1,655,590	\$241,716.14
Monthly Average - 2010	62	4,540	137,966	\$20,143.01
Dec 29th - Jan 29th, 2011	87	6,594	204,400	\$19,961.70
Jan 29th - Feb 28th, 2011	90	7,082	198,300	\$19,365.98
Feb 28th - Mar 29th, 2011	58	4,397	136,300	\$13,311.06
Mar 29th - Apr 29th, 2011	70	4,567	137,000	\$13,379.42
Apr 29th - May 30th, 2011	56	3,890	120,600	\$11,777.80
May 30th - Jun 27th, 2011	95	6,150	184,500	\$14,760.00
Jun 27th - Jul 27th, 2011				
Jul 27th - Aug 27th, 2011				
Aug 27th - Sep 27th, 2011				
Sep 27th - Oct 27th, 2011				
Oct 27th - Nov 29th, 2011				
Nov 29th - Dec 29th, 2011				
Total - 2011	456	32,680	981,100	\$92,555.96
Monthly Average - 2011	76	5,447	163,517	\$15,425.99

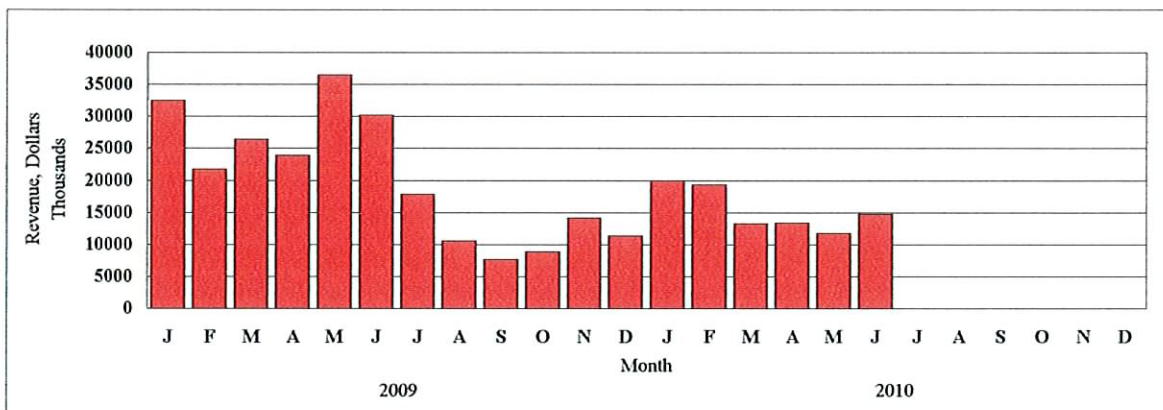


EXHIBIT E

CITY OF HARRISBURG
ADVANCED WASTEWATER TREATMENT FACILITY

Sludge Handling Information - 2011

Process	January	February	March	April	May	June	July	August	September	October	November	December	Average	Total
Solids Removal														
Process, Lbs.	927,425	962,337	910,551	910,551	910,551	797,841							903,209	5,419,256
CWH Program, Lbs.	241,180	223,240	188,119	97,257	127,320	173,423							175,090	1,050,539
Total Solids, Lbs.	1,168,605	1,185,577	1,098,670	1,174,839	1,202,753	971,264							1,133,618	6,801,708
Sludge Dewatering														
Feed Volume, Gals.	2,744,000	2,524,000	3,943,000	3,522,000	3,785,000	3,602,000							3,353,333	20,120,000
Feed Solids, %	1.9	2.0	2.5	2.2	2.6	2.0							2.2	-
Labor, Hours	371	339	435	416	426	344							388	2,330
Operations, Hours	543	551	793	737	846	627							683	4,097
Total Cake, Dry Tons	137	155	269	186	278	192							203	1,217
Total Cake, Wet Tons	821	882	1,435	962	1,236	951							1,048	6,287
Cake TS, %	17.0	17.6	19.0	19.3	22.5	20.2							19.3	-
Press Rate, Lbs./Hour	3,024	3,204	3,618	2,613	2,923	3,032							3,069	18,413
Polymer Dosage, Lbs	3,511	3,213	4,966	3,766	4,539	4,163							4,026	24,157
Polymer Dosage, Lbs/Dry Ton	25.6	20.7	18.4	20.3	16.3	21.6							20.5	-
Disposal Cost														
Labor, Dollars	\$7,121.01	\$6,513.66	\$8,351.09	\$8,001.29	\$8,187.72	\$6,613.60							\$7,464.73	\$44,788.37
Electrical, Dollars	\$238.92	\$242.26	\$348.96	\$324.15	\$372.24	\$276.01							\$300.42	\$1,802.55
Polymer, Dollars	\$6,565.57	\$6,007.38	\$9,286.16	\$7,042.98	\$8,488.29	\$7,992.19							\$7,563.76	\$45,382.57
Disposal, Dollars	\$33,289.72	\$42,005.00	\$79,317.00	\$44,598.00	\$19,888.99	\$25,242.19							\$40,723.48	\$244,340.90
Total Cost, Dollars	\$47,215.22	\$54,768.30	\$97,303.21	\$59,966.42	\$36,937.24	\$40,124.00							\$56,052.40	\$336,314.38
Cost Per Dry Ton, Dollars	\$344.64	\$352.83	\$361.18	\$322.98	\$132.98	\$208.64							\$276.26	

CITY OF HARRISBURG
ADVANCED WASTEWATER TREATMENT FACILITY

Conveyance Utility Usage - 2011

Location / Utility	January	February	March	April	May	June	July	August	September	October	November	December	Average	Total
Front Street Pump Station														
Electric														
Total, kWh	76,800	88,800	175,800	147,000	196,800	118,800							134,000	804,000
Average, kWh/Day	2,477	3,171	5,671	4,900	6,348	3,960							4,421	-----
Cost, Dollars	\$7,059.37	\$10,034.43	\$16,812.63	\$13,977.46	\$15,045.12	*							\$12,585.90	\$62,929.51
Fuel Oil														
Total, Gals.	0	0	0	0	0	0							0	0
Average, Gals./Day	0	0	0	0	0	0							0	-----
Cost, Dollars	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00							\$0.00	\$0.00
Water														
Total, Gals.	5,000	5,000	5,000	55,000	40,000	*							22,000	110,000
Average, Gal./Day	161	179	161	1,833	1,333	*							733	-----
Cost, Dollars	\$474.28	\$474.28	\$474.28	\$761.78	\$675.53	*							\$572.03	\$2,860.15
Spring Creek Pump Station														
Electric														
Total, kWh	35,840	36,160	54,400	65,600	94,400	62,400							58,133	348,800
Average, kWh/Day	1,156	1,291	1,755	2,187	3,045	2,080							1,919	-----
Cost, Dollars	\$3,449.58	\$5,225.15	\$7,197.07	\$7,860.14	\$8,715.21	\$5,990.21							\$6,406.23	\$58,437.36
Fuel Oil														
Total, Gals.	0	0	0	0	0	0							0	0
Average, Gals./Day	0	0	0	0	0	0							0	-----
Cost, Dollars	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00							\$0.00	\$0.00
Water														
Total, Gals.	53,000	22,000	1,000	0	1,000	*							15,400	77,000
Average, Gal./Day	1,710	786	32	0	33	*							\$12	-----
Cost, Dollars	\$353.36	\$175.11	\$54.36	\$48.61	\$54.36	*							\$137.16	\$685.80
Market Street Pump Station														
Electric														
Total, kWh	10,920	11,280	7,200	6,600	5,520	2,280							7,300	43,800
Average, kWh/Day	353	403	232	220	178	76							244	-----
Cost, Dollars	\$1,032.95	\$1,404.94	\$756.26	\$893.73	\$754.55	\$435.90							\$879.72	\$5,278.33
Fuel Oil														
Total, Gals.	0	0	0	0	0	0							0	0
Average, Gals./Day	0	0	0	0	0	0							0	-----
Cost, Dollars	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00							\$0.00	\$0.00
City Island Pump Station														
Electric														
Total, kWh	680	640	640	560	600	680							633	3,800
Average, kWh/Day	22	23	21	19	19	23							21	-----
Cost, Dollars	\$83.39	\$97.74	\$99.89	\$156.43	\$184.51	\$82.04							\$117.33	\$704.00

* No Data at time of report

Exhibit H
CITY OF HARRISBURG
ADVANCED WASTEWATER TREATMENT FACILITY

	Jan - May 11	Budget	\$ Over Budget
Income			
2900 · Income			
350 · Interest Income			
350002 · Interest Savings - Con/Treat	1,562.55	1,450.00	112.55
350003 · Interest Savings - Collection	311.04	250.00	61.04
352002 · Interest Other - Con/Treat	0.11	600.00	-599.89
352003 · Interest Other-Collection	0.00	100.00	-100.00
Total 350 · Interest Income	1,873.70	2,400.00	-526.30
369 · Sewerage Utility Fund			
369002 · Conveyance/Treatment Revenue	1,862,586.64	5,143,000.00	-3,280,413.36
369003 · Collection System Revenue	325,456.73	928,000.00	-602,543.27
369005 · Sales of Scrap	105.30	400.00	-294.70
369008 · Sales to Public Authorities	3,866,664.45	7,943,746.00	-4,077,081.55
369010 · Sludge Handling Charges	288,568.98	370,000.00	-81,431.02
369011 · Sales of Electric Power	226,705.45	150,000.00	76,705.45
369012 · Contract Waste Hauling Charges	650.00	2,000.00	-1,350.00
369013 · Pretreatment Charges	2,550.00	8,100.00	-5,550.00
369014 · Contract Waste Hauling Lab Fees	9,096.50	29,000.00	-19,903.50
369015 · Pretreatment Lab Fees	3,559.25	18,000.00	-14,440.75
369053 · Liens Principal - Convey/Treat	11,998.17	20,700.00	-8,701.83
369054 · Liens Interest - Convey/Treat	2,414.88	4,000.00	-1,585.12
369055 · Liens Principal - Collection	2,388.10	4,100.00	-1,711.90
369056 · Liens Interest - Collection	480.72	900.00	-419.28
Total 369 · Sewerage Utility Fund	6,603,225.17	14,621,946.00	-8,018,720.83
Total 2900 · Income	6,605,098.87	14,624,346.00	-8,019,247.13
Total Income	6,605,098.87	14,624,346.00	-8,019,247.13
Gross Profit	6,605,098.87	14,624,346.00	-8,019,247.13
Expense			
2910 · Administration			
414 · Salaries and Wages			
1414000 · Wages - Hourly Employees	99,206.27	248,698.00	-149,491.73
1416000 · Overtime	137.56	320.00	-182.44
1417000 · Sick Leave Buyback	3,345.14	3,400.00	-54.86
Total 414 · Salaries and Wages	102,688.97	252,418.00	-149,729.03
419 · Fringe Benefits			
1419001 · Social Security	7,855.68	20,939.00	-13,083.32
1419002 · Blue Cross/Shield	46,428.54	125,029.00	-78,600.46
1419005 · Severance Pay	2,351.89	15,000.00	-12,648.11
1419010 · Unemployment	0.00	8,000.00	-8,000.00
1419011 · Workers' Compensation	1,650.00	2,000.00	-350.00
1419012 · Loss Time / Medical @ WC	2,080.89	41,000.00	-38,919.11
1419014 · State Fees @ Workers' Comp.	0.00	1,300.00	-1,300.00
1419015 · Excess Insurance Policy @ WC	0.00	4,000.00	-4,000.00
Total 419 · Fringe Benefits	60,367.00	217,268.00	-156,901.00
420 · Communications			
1420010 · Advertising & Public Notices	414.23	1,000.00	-585.77
1420020 · Printing Reproducing & Report	5,660.74	6,269.00	-608.26
1420040 · Telephone	3,797.42	16,000.00	-12,202.58
1420050 · Postage	208.60	750.00	-541.40
Total 420 · Communications	10,080.99	24,019.00	-13,938.01
421 · Professional Fees			
1421020 · Audit Fees	0.00	21,930.00	-21,930.00
1421030 · Consulting	0.00	10,900.00	-10,900.00
1421040 · Collection	0.00	1,500.00	-1,500.00
1421050 · Professional Fees/Other	40,000.00	90,000.00	-50,000.00
Total 421 · Professional Fees	40,000.00	124,330.00	-84,330.00

Exhibit H
CITY OF HARRISBURG
ADVANCED WASTEWATER TREATMENT FACILITY

	Jan - May 11	Budget	\$ Over Budget
423 - Insurance			
1423002 - Stop/Loss Premium	9,624.80	25,600.00	-15,975.20
1423010 - Automobile	9,261.52	19,000.00	-9,738.48
1423011 - Auto Insurance Deductible	0.00	10,000.00	-10,000.00
1423020 - General Liability	16,717.22	50,000.00	-33,282.78
1423040 - Property	64,182.52	128,376.05	-64,193.53
1423041 - Property Deductible	0.00	8,000.00	-8,000.00
1423050 - Inland Marine	8,713.65	30,000.00	-21,286.35
1423060 - Flood (Property & Crime)	49,790.00	100,000.00	-50,210.00
1423090 - Public Official Liability	26,982.18	39,294.26	-12,312.08
1423095 - Excess Liability	6,394.46	13,000.00	-6,605.54
1423097 - Terrorism	0.00	13,000.00	-13,000.00
Total 423 - Insurance	191,666.35	436,270.31	-244,603.96
425 - Maintenance			
1425090 - Maintenance Service Contract	29,681.13	30,768.84	-1,087.71
Total 425 - Maintenance	29,681.13	30,768.84	-1,087.71
429 - Other Contracted Services			
1429001 - Tuition for Employee Training	0.00	500.00	-500.00
1429003 - Interfund - General Admin.	1,303,752.00	3,018,507.00	-1,714,755.00
1429009 - Pension Fund Admin. Charge	0.00	120.00	-120.00
1429012 - Laundry & Dry Clean	9,916.82	10,000.00	-83.18
1429016 - Conferences	0.00	200.00	-200.00
1429017 - Membership Dues	0.00	100.00	-100.00
1429025 - CAT Event Disaster Recovery	9,583.56	9,583.56	0.00
1429095 - Bank Service Charge	2,446.32	6,000.00	-3,553.68
Total 429 - Other Contracted Services	1,325,698.70	3,045,010.56	-1,719,311.86
430 - Supplies and Expenses			
1430002 - Software & Licenses	16,000.00	16,000.00	0.00
1430003 - Subscriptions, Periodicals	0.00	300.00	-300.00
1430008 - Data Processing Supplies	0.00	200.00	-200.00
1430009 - Office Supplies	2,719.37	2,750.00	-30.63
Total 430 - Supplies and Expenses	18,719.37	19,250.00	-530.63
449 - Authority Payments			
1449030 - Transfer To Authority - Rental	1,143,124.67	2,161,000.00	-1,017,875.33
1449031 - Pennvest	199,571.64	252,389.08	-52,817.44
Total 449 - Authority Payments	1,342,696.31	2,413,389.08	-1,070,692.77
Total 2910 - Administration	3,121,598.82	6,562,723.79	-3,441,124.97
2920 - Operations			
414 - Salaries and Wages - Operations			
2414000 - Wages-Hourly Employees	356,572.96	867,828.00	-511,255.04
2416000 - Overtime	72,430.50	220,030.17	-147,599.67
Total 414 - Salaries and Wages - Operations	429,003.46	1,087,858.17	-658,854.71
419 - Fringe Benefits			
2419001 - Social Security	32,818.79	83,221.00	-50,402.21
2419002 - Blue Cross/Blue Shield	73,695.47	265,316.00	-191,620.53
Total 419 - Fringe Benefits	106,514.26	348,537.00	-242,022.74
422 - Utilities and Service			
2422010 - Water	25,488.07	115,000.00	-89,511.93
2422020 - Electricity	402,679.80	961,319.00	-558,639.20
2422030 - Heat	70,790.61	125,604.00	-54,813.39
2422090 - Garbage & Refuse Removal	702,485.58	831,810.00	-129,124.42
Total 422 - Utilities and Service	1,201,444.06	2,033,533.00	-832,088.94
424 - Rental			
2424060 - Other	0.00	1,176.00	-1,176.00
Total 424 - Rental	0.00	1,176.00	-1,176.00
425 - Maintenance and Repairs			
2425080 - Service Contracts	159,811.00	160,000.00	-189.00
2425099 - Other Contracted Maint & Repair	30,450.72	30,500.00	-49.28
Total 425 - Maintenance and Repairs	190,261.72	190,500.00	-238.28
429 - Contracted Services			
2429003 - General Admin. Charges	1,376,168.03	3,193,188.00	-1,817,019.97
Total 429 - Contracted Services	1,376,168.03	3,193,188.00	-1,817,019.97

Exhibit H
CITY OF HARRISBURG
ADVANCED WASTEWATER TREATMENT FACILITY

	Jan - May 11	Budget	\$ Over Budget
430. - Supplies and Expenses			
2430011 - Custodial Supplies	5,000.00	8,000.00	-3,000.00
2430012 - Personnel Safety Supplies	0.00	1,000.00	-1,000.00
2430016 - Medical Surgical & Lab Supplies	79,962.16	82,000.00	-2,037.84
2430037 - Chemicals	317,520.13	440,000.00	-122,479.87
2430099 - Miscellaneous	0.00	412,500.00	-412,500.00
Total 430. - Supplies and Expenses	402,482.29	943,500.00	-541,017.71
Total 2920 - Operations	3,705,873.82	7,798,292.17	-4,092,418.35
2930 - Maintenance			
414.. - Wages and Salary			
3414000 - Wages-Hourly Employees	168,847.52	417,476.00	-248,628.48
3416000 - Overtime	1,348.93	6,025.00	-4,676.07
Total 414.. - Wages and Salary	170,196.45	423,501.00	-253,304.55
419.. - Fringe Benefits			
3419001 - Social Security	13,020.04	32,400.00	-19,379.96
3419002 - Blue Cross/Blue Shield	36,594.11	136,640.00	-100,045.89
Total 419.. - Fringe Benefits	49,614.15	169,040.00	-119,425.85
425.. - Maintenance and Repairs			
3425010 - Vehicle Equipment	1,960.00	10,100.00	-8,140.00
3425060 - Operations Equipment	0.00	5,000.00	-5,000.00
Total 425.. - Maintenance and Repairs	1,960.00	15,100.00	-13,140.00
429.. - Contracted Service			
3429003 - General Admin. Charges	260,087.15	605,847.00	-345,759.85
3429090 - Miscellaneous	5,910.00	8,900.00	-2,990.00
Total 429.. - Contracted Service	265,997.15	614,747.00	-348,749.85
430.. - Supplies and Expenses			
3430012 - Personal Safety Supplies	0.00	300.00	-300.00
3430030 - Snow/Ice Control Supplies	0.00	200.00	-200.00
3430036 - Building & Construction Supplie	0.00	1,500.00	-1,500.00
3430040 - Botanical	0.00	200.00	-200.00
3430042 - Expendable Tools & Hardware	3,000.00	5,000.00	-2,000.00
3430045 - Utility Plant, Fuels, Lubricant	9,478.00	15,000.00	-5,522.00
3430050 - Motor Fuels & Lubricants	8,302.56	16,500.00	-8,197.44
3430051 - Tires & Batteries	605.47	2,600.00	-1,994.53
3430052 - Vehicle Parts & Supplies	520.24	10,500.00	-9,979.76
3430055 - Mechanical Equipmt-Parts & Supp	177,973.66	185,000.00	-7,026.34
3430057 - Pipe Connection Etc	13,000.00	13,000.00	0.00
3430099 - Misc. Supplies & Expenses	11,000.00	13,000.00	-2,000.00
Total 430.. - Supplies and Expenses	223,879.93	262,800.00	-38,920.07
457.. - Sewer Plant Equipment			
3457000 - Plant Equipment	56,768.00	75,100.00	-18,332.00
Total 457.. - Sewer Plant Equipment	56,768.00	75,100.00	-18,332.00
Total 2930 - Maintenance	768,415.68	1,560,288.00	-791,872.32
2940 - Field Maintenance			
414... - Wages and Salary - Fd. Main.			
4414000 - Wages Hourly Employees	71,652.17	174,570.00	-102,917.83
4416000 - Overtime	7,122.27	18,821.48	-11,699.21
Total 414... - Wages and Salary - Fd. Main.	78,774.44	193,391.48	-114,617.04
419... - Fringe Benefits			
4419001 - Social Security	6,026.19	14,795.00	-8,768.81
4419002 - Blue Cross/Blue Shield	16,574.28	55,856.00	-39,281.72
Total 419... - Fringe Benefits	22,600.47	70,651.00	-48,050.53
420... - Printing & Reproduction			
4420020 - Printing Repro & Report	0.00	1,000.00	-1,000.00
Total 420... - Printing & Reproduction	0.00	1,000.00	-1,000.00
422.. - Utilities			
4422010 - Water	2,816.06	10,000.00	-7,183.94
4422020 - Electricity	66,107.23	225,011.00	-158,903.77
4422030 - Heat	0.00	1,000.00	-1,000.00
4422090 - Garbage and Refuse	0.00	6,400.00	-6,400.00
Total 422.. - Utilities	68,923.29	242,411.00	-173,487.71

Exhibit H
CITY OF HARRISBURG
ADVANCED WASTEWATER TREATMENT FACILITY

	Jan - May 11	Budget	\$ Over Budget
425... · Maintenance and Repairs			
4425010 · Vehicular Equipment	2,655.00	6,000.00	-3,345.00
4425099 · Other Contracted Maint/Repairs	0.00	1,000.00	-1,000.00
Total 425... · Maintenance and Repairs	2,655.00	7,000.00	-4,345.00
429... · Contracted Services			
4429003 · General Admin. Charges	201,858.21	457,844.00	-255,985.79
Total 429... · Contracted Services	201,858.21	457,844.00	-255,985.79
430... · Supplies and Expenses			
4430012 · Personal Safety Supplies	0.00	250.00	-250.00
4430037 · Chemicals	0.00	200.00	-200.00
4430042 · Tools & Hardware	0.00	200.00	-200.00
4430050 · Motor Fuels/Lubricants	3,467.89	3,500.00	-32.11
4430051 · Tires & Batteries	0.00	200.00	-200.00
4430052 · Vehicle Parts & Supplies	2,013.97	4,250.00	-2,236.03
4430055 · Mechanical Equipment P & S	3,000.00	8,000.00	-5,000.00
Total 430... · Supplies and Expenses	8,481.86	16,600.00	-8,118.14
Total 2940 · Field Maintenance	383,293.27	988,897.48	-605,604.21
Total Expense	7,979,181.59	16,910,201.44	-8,931,019.85
Net Income	-1,374,082.72	-2,285,855.44	911,772.72

EXHIBIT G

CITY OF HARRISBURG
ADVANCED WASTEWATER TREATMENT FACILITY

Contract Waste Hauling Program 2010 - 2011

Month	Process		Septic		Total	
	Gallons	Revenue	Gallons	Revenue	Gallons	Revenue
January	1,067,100	\$50,472.30	59,100	\$2,127.60	1,126,200	\$52,599.90
February	1,328,500	\$63,740.10	17,000	\$612.00	1,345,000	\$64,352.10
March	2,160,100	\$78,015.30	71,800	\$2,584.80	2,231,900	\$80,600.10
April	1,567,500	\$46,314.00	144,800	\$5,212.80	1,712,300	\$51,526.80
May	1,020,600	\$48,610.80	100,800	\$3,628.80	1,121,400	\$52,239.60
June	1,401,200	\$72,730.80	155,000	\$5,580.00	1,556,200	\$78,310.80
July	1,264,950	\$66,506.25	117,350	\$4,224.60	1,382,300	\$70,730.85
August	1,675,300	\$75,141.00	117,550	\$4,231.80	1,792,850	\$79,372.80
September	1,252,400	\$59,003.10	129,400	\$4,658.40	1,381,800	\$63,661.50
October	2,387,300	\$89,448.30	129,200	\$4,651.20	2,516,500	\$94,099.50
November	1,883,400	\$68,918.10	54,000	\$1,944.00	1,937,400	\$70,862.10
December	1,427,200	\$69,126.00	13,100	\$471.00	1,440,300	\$69,597.60
Total - 2010	18,435,550	\$788,026.05	1,109,100	\$39,927.00	19,544,150	\$827,953.65
Monthly Average - 2010	1,536,296	\$65,668.84	92,425	\$3,327.25	1,628,679	\$68,996.14
January	1,057,200	\$60,045.60	25,000	\$900.00	1,082,200	\$60,945.60
February	809,000	\$47,724.00	10,000	\$360.00	819,000	\$48,084.00
March	1,797,400	\$54,335.40	0	\$0.00	1,797,400	\$54,335.40
April	1,324,600	\$29,827.80	29,500	\$1,062.00	1,354,100	\$30,889.80
May	1,662,500	\$38,160.00	54,700	\$1,969.20	1,717,200	\$40,129.20
June	2,090,800	\$51,300.00	121,800	\$4,384.80	2,212,600	\$55,684.80
July						
August						
September						
October						
November						
December						
Total - 2011	8,741,500	\$281,392.80	241,000	\$8,676.00	8,982,500	\$290,068.80
Monthly Average - 2011	1,456,917	\$46,898.80	40,167	\$1,446.00	1,497,083	\$48,344.80

