

City of Harrisburg
Department of Public Works
Advanced Wastewater Treatment Facility



BUREAU OF SEWERAGE
MONTHLY REPORT
NOVEMBER 2011

PHOTO: November Morning.

GENERAL

During the month of November, the AWTF met all monthly average NPDES permit requirements. The hydraulic loading to the facility averaged 30.0 MGD while achieving removal reductions of 95.9 percent CBOD, 89.9 percent Suspended Solids, and 62.9 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 October 27, 2011 through November 29, 2011 the Number 1 or Number 2 Enginator operated a total of 82 percent of the time for an average daily kWh output of 5,967 or a total production of 179,000 kWh. November revenue is anticipated to be approximately \$14,320.00 (Exhibit D).

Included in this report is flow information collected by ADS equipment and other monitoring devices. Data collected through November 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 November, a total of 1,579,100 gallons of waste were delivered by the contract waste haulers to the AWTF (Exhibit G). Income, for the same period, amounted to \$39,203.10 (Exhibit G).

NOVEMBER ACCOMPLISHMENTS

Operations

- Created employee shift schedule for 2012 before vacation canvassing began on December 1.
- Continued troubleshooting problems with the new VeloDyne Hydromax Polymer Feed System. All attempts were unsuccessful. Dry polymer is still being fed into batch system by hand to prevent interruption of the biosolids dewatering process. VeloDyne will be sending a service technician to repair the problems in early December.
- Unclogged several blockages in the Gorman Rupp Pumps, Classifiers and collection lines at the Grit Removal System.
- Continued night and weekend monitoring of the Sidestream Treatment and UNOX Pilot Trailers.
- Repaired the sump pump and float system for the Spring Creek Pump Station dry well.
- Cleaned the Heat Exchanger Room and the Gas Compressor, Grit and Chlorine Buildings.

- Returned Final Clarifier Number 5 to service following maintenance repairs to the corner sweeps and the return sludge line in the center column.
- Pumped down the wet well at the Front Street Pump Station. Cleaned the wet well and basement area with a high pressure sprayer.

Laboratory

- Performed bi-monthly sampling and testing of biosolids for pollutants and fecal coliform as required by our beneficial reuse (PAG08) permit.
- 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 daily analysis work sheets.

Industrial Waste Program

- Reviewed self monitoring reports submitted for October and the third quarter 2011.
- Completed the annual Industrial Waste Pretreatment Program self monitoring inspections at Norfolk Southern Corporation's Harrisburg Yard, Orograin Bakeries Manufacturing, Inc. and the New Morgan Municipal Authority's Harrisburg facility. All annual inspections are now complete.
- Completed the third quarter significant noncompliance evaluations.
- Issued a letter of violation to Harrisburg Dairies, Inc. for pH noncompliance and the Hershey Creamery Company for Oil/Grease noncompliance.
- Completed Contract Waste Hauling and Pretreatment laboratory report preparation, and Quickbooks billing.
- Collected ADS flow monitoring data and updated the exhibit for the AWTF monthly report.
- Issued Contract Waste Hauler permits and renewal letters.

Maintenance

- Replaced the motor and gearbox assembly on the dry polymer screw feeder for the Belt Filter Presses.
- Replaced a 20 foot hydraulic line on the G-16 dump truck for the Belt Filter Presses.
- Replaced the missing ceiling tiles in the laboratory and hallway in the Control Building.
- Replaced the cables, wheels, shafts, and grease lines for the corner sweeps in Final Settling Tank Number 5.
- Replaced 20 inch pipe coupling on the return sludge line in the center column of Final Clarifier Number 5.
- Replaced the hold down plates in the effluent trough for Final Clarifier Number 5.
- Replaced twelve rakes on Barscreen Number 2 at the Front Street Pump Station.
- Replaced the hydraulic cylinder for the effluent gate on Barscreen Number 2 at the Front Street Pump Station.
- Replaced three feet of belt and two belt splices on the conveyor for the rag removal system at the Front Street Pump Station.
- Replaced the 200 amp circuit breaker in the electric panel for Sewage Pump Number 2 in the Settled Sewage Pump Station.
- Replaced the 100 amp in the electric panel for Diluent Pump Number 1 in the basement of the Settled Sewage Pump Station.

Field Maintenance

- Cleaned the scum off the siphon basins on the Paxton Creek Chambers.
- Flushed the siphon lines for CSO Number 048.
- Removed rags and debris from CSO Chambers Numbers 023, 033, and 049.
- Removed 280.8 tons of debris from the Grit Lagoon.
- Replaced the overflow detection device at CSO Chambers Number 004.
- Replaced the linkage rod bolt on the float assembly at CSO Chamber Number 019.
- Vactored the drain troughs at both Biosolids Storage Buildings and cleaned the area around the Truck Scale.
- Vactored, washed down, and inspected CSO Chambers Number 005, 006, 007, 008, 009, 010, 014, 016, 017, 018, 019, 020, 045, 046, 049, 050, 051, 052, 053, 054, 056, 057, and 058.

DECEMBER GOALS

- Review and formulate comments to the Sidestream Treatment Pilot Plant Report and the Improvement Projects Basis of Design Report.
- Repair the Belt Filter Press Sludge Pump Number 2 in the basement of the Control Building.
- Complete canvassing for leave requests and finalize 2012 employee work schedule.
- Assist VeloDyne with repairs to the Hydromax Polymer Feed System.
- Run a trial to study the effectiveness of adding Ferric Chloride to Secondary Digester sludge in an attempt to improve biosolids cake dryness.
- Complete the second series of semi-annual industrial user compliance sampling.
- Submit the annual application for laboratory accreditation under PA Act 252.
- Update Industrial User and Contract Waste Hauler data files.
- Issue Contract Waste Hauler permits and renewal letters.

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	20.5	29.4	46.8	35.0	30.0	31.2	31.2	37.7
Carbonaceous Biochemical Oxygen Demand														
Influent, mg/l	192	136	89	71	82	118	138	101	61	109	122	109	111	----
Effluent, mg/l	17	22	16	10	6	5	5	5	6	6	5	6	9	25
Percent Removal, %	91.1	83.8	82.0	85.9	92.7	95.8	96.4	95.0	90.2	92.2	95.9	92.2	91.0	----
Effluent Loading, lb/d	2,288	4,333	4,804	3,323	2,015	1,053	861	1,202	2,319	1,782	1,348	1,782	2,303	7,860
Suspended Solids:														
Influent, mg/l	207	164	111	91	109	162	172	130	105	146	125	146	138	----
Effluent, mg/l	41	54	40	21	13	9	11	10	20	11	10	11	22	30
Percent Removal, %	80.2	67.0	64.0	76.9	88.1	94.4	93.6	92.3	81.0	89.8	89.9	89.8	83.4	----
Effluent Loading, lb/d	5,547	10,480	11,996	7,158	4,251	1,802	1,879	2,462	8,500	3,350	2,509	3,350	5,449	9,433
Nitrogen														
Total-N														
Influent, mg/l	27	24	15	12	13	19	36	19	10	18	19	18	19	----
Effluent, mg/l	30	23	16	12	12	15	19	14	8	13	12	13	16	Monitor
Effluent Loading, lb/d	4,197	4,169	4,452	4,168	3,824	2,954	3,151	3,239	3,532	3,308	3,140	3,308	3,649	----
NH3-N														
Influent mg/l	16	12	8	7	9	13	13	11	5	10	12	10	10	----
Effluent, mg/l	21	16	10	8	10	13	15	10	4	8	12	8	12	17 (2)
Effluent Loading, lb/d	2,931	3,013	2,732	2,512	2,799	2,724	2,505	2,144	1,456	2,107	2,873	2,107	2,527	4,716
Phosphorus:														
Influent, mg/l	4.4	3.1	2.1	1.9	2.2	3.0	3.4	2.5	1.7	2.7	2.6	2.7	2.7	----
Effluent, mg/l	1.6	1.5	1.3	0.9	1.0	1.3	1.3	0.8	0.6	0.8	0.9	0.8	1.1	2.0
Percent Removal, %	63.6	51.6	38.1	52.6	54.5	56.7	61.8	68.0	64.7	70.4	62.9	70.4	58.6	----
Effluent Loading, lb/d	213	285	371	281	299	261	216	193	212	209	219	209	251	629
pH:														
Influent, Std. Units	7.3	7.3	7.2	7.2	7.2	7.3	7.2	7.3	7.1	7.3	7.3	7.3	7.2	----
Effluent, Std. Units	7.0	7.0	7.0	6.9	6.9	6.9	6.9	6.8	6.7	6.8	6.8	6.8	6.9	6.0-9.0
Dissolved Oxygen:														
Effluent Minimum, mg/l	8.6	7.5	8.8	7.2	6.8	7.4	6.4	5.8	6.2	6.9	7.1	6.9	7.2	5.0 Min.
Fecal Coliform:														
Effluent, No./100 ml	13	24	87	49	9	7	5	21	36	107	22	107	35	200/100 ml (1)
Chlorine Residual:														
Effluent, mg/l	0.19	0.19	0.25	0.27	0.38	0.39	0.38	0.38	0.40	0.21	0.21	0.21	0.30	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	City Regions			Suburb Regions							Total Precip inches
	1	2	3	4	5	6	7	8	9	10	
January	6,690	5,091	0,112	1,014	0,321	1,818	2,648	1,797	3,411	0,136	1,530
February	9,695	7,159	0,187	1,860	0,321	2,070	3,410	2,559	5,758	0,208	2,780
March	13,130	8,799	0,462	1,626	0,727	2,856	6,278	6,965	8,286	0,485	6,440
April	17,160	12,257	0,408	1,975	1,413	3,171	6,685	5,232	8,575	0,477	11,320
May	16,309	11,845	0,528	2,491	0,925	3,084	5,396	3,341	7,588	1,782	4,900
June	24,700	11,541	0,336	1,583	0,387	2,367	3,799	2,041	4,570	0,382	4,260
July	20,500	9,320	0,254	1,670	0,348	1,888	3,358	1,964	3,805	0,165	6,050
August	29,400	12,314	0,257	1,120	0,442	2,079	4,185	3,358	7,248	0,216	9,780
September	46,800	17,647	0,070	1,602	0,858	3,895	7,235	5,761	10,480	1,782	17,220
October	35,000	15,516	0,380	3,404	0,442	2,609	5,133	3,140	6,820	1,782	5,940
November	30,000	11,960	0,540	1,401	0,442	2,144	5,224	2,673	6,757	1,242	4,560
December											
Average	31.22	12.84	18.37								6.80
Percent	100.00	41.14	58.86								74.78

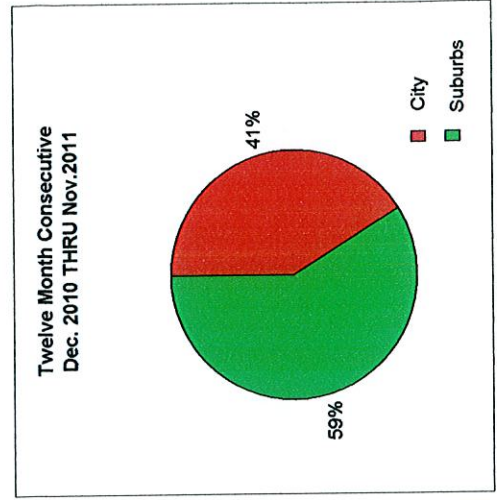
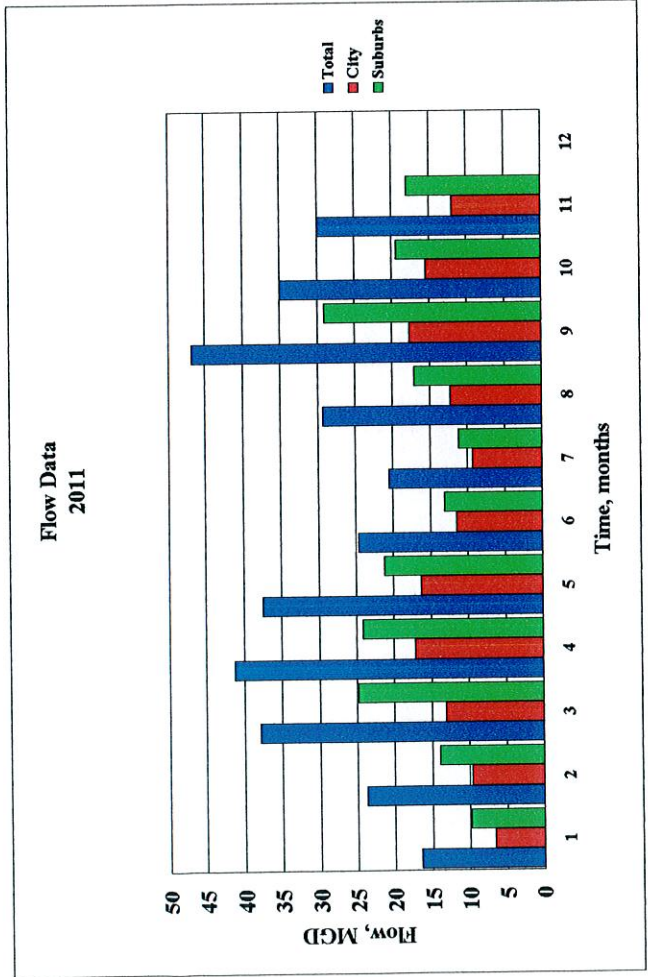


EXHIBIT C

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	1,048,200	1,088,400	934,800	1,013,400	1,196,700	981,000	1,013,400	1,017,236	11,189,600
Average, kWh/Day	32,926	32,282	31,023	32,800	34,090	34,940	35,110	30,155	33,780	38,603	32,700	33,780	33,492	-----
Cost, Dollars	\$88,624.90	\$106,553.66	\$95,510.54	\$91,387.17	\$79,994.58	\$79,902.20	\$83,136.86	\$72,109.75	\$75,770.59	\$90,771.77	\$73,521.32	\$75,770.59	\$85,207.58	\$937,283.34
Fuel Oil														
Total, Gals.	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Average, Gals./Day	0	0	0	0	0	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	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Natural Gas														
Total, Cu Ft	824.5	532.0	362.7	144.8	13.9	22.3	11.7	3.8	29.3	66.1	*	29.3	183	2,011
Average, Cu Ft/Day	29.5	19.0	11.7	4.8	0.4	0.7	0.4	0.1	1.0	2.2	*	1.0	7	-----
Cost, Dollars	\$13,476.15	\$6,472.96	\$3,513.90	\$1,489.62	\$236.45	\$312.05	\$211.46	\$147.05	\$356.46	\$686.18	*	\$356.46	\$2,445.66	\$26,902.28
Water														
Total, Gal.	661,000	696,000	665,000	923,000	575,000	638,000	638,000	599,000	538,000	459,000	*	538,000	639,200	6,392,000
Average, Gal/Day	21,323	24,857	21,452	30,767	18,548	21,267	20,581	19,323	17,933	15,300	*	17,933	21,135	-----
Cost, Dollars	\$5,939.33	\$6,140.58	\$5,962.33	\$7,445.83	\$5,444.83	\$5,807.08	\$5,807.08	\$5,582.83	\$5,232.08	\$4,777.83	*	\$5,232.08	\$5,285.44	\$58,139.80
Chlorine Disinfection														
Total, Lbs.	7,525	7,785	10,714	10,080	10,860	9,300	8,820	12,802	15,875	7,360	6,390	15,875	9,774	107,511
Average, Lbs./Day	243	278	346	336	350	310	285	413	529	237	213	529	322	-----
Avg Residual, mg/l	0.18	0.18	0.25	0.27	0.38	0.39	0.38	0.38	0.40	0.21	0.21	0.40	0.29	-----
Cost, \$/Lbs.	\$0.33	\$0.33	\$0.33	\$0.33	\$0.33	\$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	\$2,866.50	\$4,160.65	\$5,159.38	\$2,392.00	\$2,076.75	\$5,159.38	\$3,176.46	\$34,941.08
Phosphorous Removal														
Total FeSO4, Gals.	44,032	28,918	10,750	9,181	0	0	15,115	18,563	4,425	0	8,200	4,425	12,653	139,183
Avg FeSO4, Gals./Day	1,420	1,033	347	306	0	0	488	599	148	0	273	148	419	-----
FeSO4 Cost, \$/Gal.	\$0.54	\$0.54	\$0.54	\$0.54	\$0.54	\$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	\$8,192.06	\$10,061.15	\$2,398.35	\$0.00	\$4,444.40	\$2,398.35	\$6,857.90	\$75,436.92

* No data at time of report

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	790,955	929,620	868,162	791,948	767,725	869,788	869,788	9,567,667
CWH Program, Lbs.	241,180	223,240	188,119	97,257	127,320	173,423	138,434	74,920	45,780	128,300	97,580	139,596	139,596	1,535,553
Total Solids, Lbs.	1,168,605	1,185,577	1,098,670	1,174,839	1,202,753	971,264	929,389	1,004,540	913,942	920,248	865,305	1,039,558	1,039,558	11,435,133
Sludge Dewatering														
Feed Volume, Gals.	2,744,000	2,524,000	3,943,000	3,522,000	3,785,000	3,602,000	5,251,000	4,212,000	3,345,000	2,662,000	4,091,000	3,607,364	3,607,364	39,681,000
Feed Solids, %	1.9	2.0	2.5	2.2	2.6	2.0	1.8	2.3	3.1	3.0	1.9	2.3	2.3	-
Labor, Hours	371	339	435	416	426	344	523	383	345	278	449	392	392	4,308
Operations, Hours	543	551	793	737	846	627	1,031	748	687	550	892	728	728	8,005
Total Cake, Dry Tons	137	155	269	186	278	192	322	232	261	189	209	221	221	2,430
Total Cake, Wet Tons	821	882	1,435	962	1,236	951	1,677	1,159	1,126	864	1,153	1,115	1,115	12,266
Cake TS, %	17.0	17.6	19.0	19.3	22.5	20.2	19.2	20.0	23.2	21.9	18.1	19.8	19.8	-
Press Rate, Lbs./Hour	3,024	3,204	3,618	2,613	2,923	3,032	3,253	3,100	3,280	3,140	2,585	3,070	3,070	33,771
Polymer Dosage, Lbs	3,511	3,213	4,966	3,766	4,539	4,163	6,927	4,142	4,192	3,530	5,100	4,368	4,368	48,049
Polymer Dosage, Lbs/Dry Ton	25.6	20.7	18.4	20.3	16.3	21.6	21.5	17.9	16.0	18.7	24.4	20.1	20.1	-
Disposal Cost														
Labor, Dollars	\$7,121.01	\$6,513.66	\$8,351.09	\$8,001.29	\$8,187.72	\$6,613.60	\$10,052.06	\$7,361.26	\$6,638.59	\$5,345.08	\$8,620.17	\$7,527.78	\$7,527.78	\$82,805.53
Electrical, Dollars	\$238.92	\$242.26	\$348.96	\$324.15	\$372.24	\$276.01	\$453.60	\$329.12	\$302.06	\$242.18	\$392.52	\$320.18	\$320.18	\$3,522.02
Polymer, Dollars	\$6,565.57	\$6,007.38	\$9,286.16	\$7,042.98	\$8,488.29	\$7,992.19	\$13,300.61	\$7,953.02	\$8,048.64	\$6,777.60	\$9,792.00	\$8,295.86	\$8,295.86	\$91,254.44
Disposal, Dollars	\$33,289.72	\$42,005.00	\$79,317.00	\$44,598.00	\$19,888.99	\$24,192.19	\$36,814.54	\$42,407.24	\$14,580.82	\$29,395.05	\$34,206.40	\$36,426.81	\$36,426.81	\$400,694.95
Total Cost, Dollars	\$47,215.22	\$54,768.30	\$97,303.21	\$59,966.42	\$36,937.24	\$39,074.00	\$60,620.80	\$58,050.64	\$29,570.11	\$41,759.91	\$53,011.09	\$52,570.63	\$52,570.63	\$578,276.93
Cost Per Dry Ton, Dollars	\$344.64	\$352.83	\$361.18	\$322.98	\$132.98	\$203.18	\$188.45	\$250.74	\$113.19	\$220.95	\$253.64	\$237.99	\$237.99	-

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	82,800	117,600	198,000	200,400	115,800	115,800	138,055	1,518,600
Average, kWh/Day	2,477	3,171	5,671	4,900	6,348	3,960	2,671	3,794	6,600	6,465	3,860	3,860	4,538	---
Cost, Dollars	\$7,059.87	\$10,034.43	\$16,812.63	\$13,977.46	\$15,045.12	\$9,549.00	\$7,529.54	\$9,578.00	\$15,602.80	\$15,513.96	\$10,152.13	\$10,152.13	\$11,895.90	\$130,854.94
Fuel Oil														
Total, Gals.	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Average, Gals./Day	0	0	0	0	0	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	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Water														
Total, Gals.	5,000	5,000	5,000	55,000	40,000	10,000	5,000	15,000	71,737	4,500	*	4,500	21,624	216,237
Average, Gal./Day	161	179	161	1,833	1,290	333	161	484	2,391	150	*	150	714	---
Cost, Dollars	\$474.28	\$474.28	\$474.28	\$761.78	\$675.53	\$503.03	\$474.28	\$531.78	\$858.02	\$471.41	*	\$471.41	\$569.87	\$5,698.67
Spring Creek Pump Station														
Electric														
Total, kWh	35,840	36,160	54,400	65,600	94,400	62,400	47,680	37,760	80,640	86,720	60,480	60,480	60,189	662,080
Average, kWh/Day	1,156	1,291	1,755	2,187	3,045	2,080	1,538	1,218	2,688	2,797	2,016	2,016	1,979	---
Cost, Dollars	\$3,449.58	\$5,225.15	\$7,197.07	\$7,860.14	\$8,715.21	\$5,990.21	\$5,039.47	\$3,642.89	\$7,384.31	\$8,097.73	\$5,661.95	\$5,661.95	\$6,205.79	\$68,263.71
Fuel Oil														
Total, Gals.	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Average, Gals./Day	0	0	0	0	0	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	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Water														
Total, Gals.	53,000	22,000	1,000	0	1,000	1,000	0	1,000	50,000	17,000	*	17,000	14,600	146,000
Average, Gal./Day	1,710	786	32	0	32	33	0	32	1,667	567	*	567	486	---
Cost, Dollars	\$353.36	\$175.11	\$54.36	\$48.61	\$54.36	\$54.36	\$48.61	\$54.36	\$356.11	\$146.36	*	\$146.36	\$132.56	\$1,325.60
Marker Street Pump Station														
Electric														
Total, kWh	10,920	11,280	7,200	6,600	5,520	2,280	1,800	1,920	1,800	2,400	4,080	4,080	5,073	55,800
Average, kWh/Day	353	403	232	220	178	76	58	62	60	77	136	136	169	---
Cost, Dollars	\$1,032.95	\$1,404.94	\$756.26	\$893.73	\$754.55	\$435.90	\$177.29	\$314.55	\$414.17	\$420.18	\$414.21	\$414.21	\$638.07	\$7,018.73
Fuel Oil														
Total, Gals.	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Average, Gals./Day	0	0	0	0	0	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	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
City Island Pump Station														
Electric														
Total, kWh	680	640	640	560	600	680	680	600	600	160	160	160	545	6,000
Average, kWh/Day	22	23	21	19	19	23	22	19	20	5	5	5	18	---
Cost, Dollars	\$83.39	\$97.74	\$99.89	\$156.43	\$184.51	\$82.04	\$78.89	\$73.16	\$71.76	\$130.28	\$39.38	\$130.28	\$99.77	\$1,097.47

* No Data at time of report

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	1,500,750	\$46,357.50	157,700	\$5,434.20	1,658,450	\$51,791.70
August	411,100	\$14,995.80	140,025	\$4,747.52	551,125	\$19,743.32
September	688,325	\$17,745.30	13,600	\$309.60	701,925	\$18,054.90
October	2,075,200	\$47,888.10	131,400	\$3,850.20	2,206,600	\$51,738.30
November	1,475,700	\$36,011.70	1,034,000	\$3,191.40	1,579,100	\$39,203.10
December						

Total - 2011	14,892,575	\$444,391.20	1,717,725	\$26,208.92	15,679,700	\$470,600.12
Monthly Average - 2011	1,353,870	\$40,399.20	156,157	\$2,382.63	1,425,427	\$42,781.83

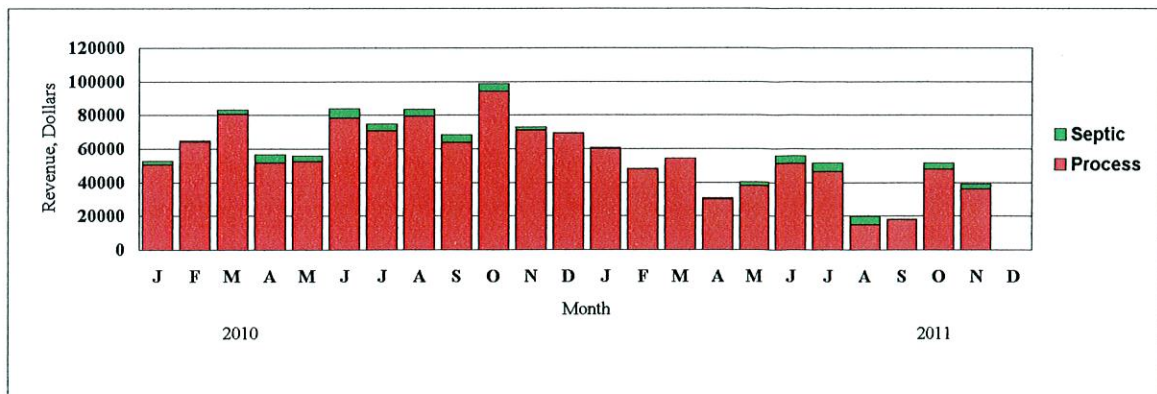


Exhibit H
CITY OF HARRISBURG
ADVANCED WASTEWATER TREATMENT FACILITY

	Jan - Oct 11	Budget	\$ Over Budget
Income			
2900 · Income			
350 · Interest Income			
350002 · Interest Savings - Con/Treat	2,285.05	1,450.00	835.05
350003 · Interest Savings - Collection	454.86	250.00	204.86
352002 · Interest Other - Con/Treat	0.18	600.00	-599.82
352003 · Interest Other-Collection	0.00	100.00	-100.00
Total 350 · Interest Income	<u>2,740.09</u>	<u>2,400.00</u>	<u>340.09</u>
369 · Sewerage Utility Fund			
369002 · Conveyance/Treatment Revenue	3,927,004.32	5,143,000.00	-1,215,995.68
369003 · Collection System Revenue	687,375.51	928,000.00	-240,624.49
369005 · Sales of Scrap	105.30	400.00	-294.70
369008 · Sales to Public Authorities	6,511,064.02	7,943,746.00	-1,432,681.98
369010 · Sludge Handling Charges	508,665.80	370,000.00	138,665.80
369011 · Sales of Electric Power	297,987.48	150,000.00	147,987.48
369012 · Contract Waste Hauling Charges	1,650.00	2,000.00	-350.00
369013 · Pretreatment Charges	9,450.00	8,100.00	1,350.00
369014 · Contract Waste Hauling Lab Fees	19,994.00	29,000.00	-9,006.00
369015 · Pretreatment Lab Fees	15,444.50	18,000.00	-2,555.50
369053 · Liens Principal - Convey/Treat	19,110.90	20,700.00	-1,589.10
369054 · Liens Interest - Convey/Treat	4,431.23	4,000.00	431.23
369055 · Liens Principal - Collection	3,803.86	4,100.00	-296.14
369056 · Liens Interest - Collection	882.04	900.00	-17.96
Total 369 · Sewerage Utility Fund	<u>12,006,968.96</u>	<u>14,621,946.00</u>	<u>-2,614,977.04</u>
Total 2900 · Income	<u>12,009,709.05</u>	<u>14,624,346.00</u>	<u>-2,614,636.95</u>
Total Income	<u>12,009,709.05</u>	<u>14,624,346.00</u>	<u>-2,614,636.95</u>
Gross Profit	<u>12,009,709.05</u>	<u>14,624,346.00</u>	<u>-2,614,636.95</u>
Expense			
2910 · Administration			
414 · Salaries and Wages			
1414000 · Wages - Hourly Employees	187,762.65	248,698.00	-60,935.35
1416000 · Overtime	808.30	920.00	-111.70
1417000 · Sick Leave Buyback	3,345.14	3,400.00	-54.86
Total 414 · Salaries and Wages	<u>191,916.09</u>	<u>253,018.00</u>	<u>-61,101.91</u>
419 · Fringe Benefits			
1419001 · Social Security	16,131.22	20,939.00	-4,807.78
1419002 · Blue Cross/Shield	106,606.96	125,029.00	-18,422.04
1419005 · Severance Pay	21,303.41	21,303.49	-0.08
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	20,416.97	41,000.00	-20,583.03
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	<u>166,108.56</u>	<u>223,571.49</u>	<u>-57,462.93</u>
420 · Communications			
1420010 · Advertising & Public Notices	839.53	1,500.00	-660.47
1420020 · Printing Reproducing & Report	5,660.74	6,269.00	-608.26
1420040 · Telephone	5,958.38	15,500.00	-9,541.62
1420050 · Postage	714.80	750.00	-35.20
Total 420 · Communications	<u>13,173.45</u>	<u>24,019.00</u>	<u>-10,845.55</u>
421 · Professional Fees			
1421020 · Audit Fees	0.00	21,930.00	-21,930.00
1421030 · Consulting	3,000.00	10,900.00	-7,900.00
1421040 · Collection	0.00	1,500.00	-1,500.00
1421050 · Professional Fees/Other	84,332.45	90,000.00	-5,667.55
Total 421 · Professional Fees	<u>87,332.45</u>	<u>124,330.00</u>	<u>-36,997.55</u>

Exhibit H
CITY OF HARRISBURG
ADVANCED WASTEWATER TREATMENT FACILITY

	Jan - Oct 11	Budget	\$ Over Budget
423 · Insurance			
1423002 · Stop/Loss Premium	17,223.36	25,600.00	-8,376.64
1423010 · Automobile	17,176.81	19,000.00	-1,823.19
1423011 · Auto Insurance Deductible	0.00	1,600.00	-1,600.00
1423020 · General Liability	31,205.01	36,083.95	-4,878.94
1423030 · Boiler and Machinery	2,583.58	2,583.58	0.00
1423040 · Property	129,764.77	129,764.77	0.00
1423041 · Property Deductible	0.00	6,926.51	-6,926.51
1423050 · Inland Marine	10,614.45	30,000.00	-19,385.55
1423060 · Flood (Property & Crime)	63,830.00	100,000.00	-36,170.00
1423090 · Public Official Liability	49,916.32	49,916.32	0.00
1423095 · Excess Liability	13,391.69	13,391.69	0.00
1423097 · Terrorism	0.00	6,700.00	-6,700.00
Total 423 · Insurance	335,705.99	421,566.82	-85,860.83
425 · Maintenance			
1425090 · Maintenance Service Contract	29,896.13	30,768.84	-872.71
Total 425 · Maintenance	29,896.13	30,768.84	-872.71
429 · Other Contracted Services			
1429001 · Tuition for Employee Training	75.00	500.00	-425.00
1429003 · Interfund - General Admin.	2,763,752.00	3,018,507.00	-254,755.00
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	89.15	200.00	-110.85
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	5,058.47	6,000.00	-941.53
Total 429 · Other Contracted Services	2,788,475.00	3,045,010.56	-256,535.56
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	2,286,286.74	2,286,442.00	-155.26
1449031 · Pennvest	266,608.68	338,294.08	-71,685.40
Total 449 · Authority Payments	2,552,895.42	2,624,736.08	-71,840.66
481 · General Fund			
481055 · Liability Insurance	0.00	7,800.00	-7,800.00
Total 481 · General Fund	0.00	7,800.00	-7,800.00
Total 2910 · Administration	6,184,222.46	6,774,070.79	-589,848.33
2920 · Operations			
414 · Salaries and Wages - Operations			
2414000 · Wages-Hourly Employees	696,926.46	867,828.00	-170,901.54
2416000 · Overtime	155,359.25	220,030.17	-64,670.92
Total 414 · Salaries and Wages - Operations	852,285.71	1,087,858.17	-235,572.46
419 · Fringe Benefits			
2419001 · Social Security	65,199.96	83,221.00	-18,021.04
2419002 · Blue Cross/Blue Shield	163,595.09	265,316.00	-101,720.91
Total 419 · Fringe Benefits	228,795.05	348,537.00	-119,741.95
422 · Utilities and Service			
2422010 · Water	55,615.00	115,000.00	-59,385.00
2422020 · Electricity	772,072.54	961,319.00	-189,246.46
2422030 · Heat	72,291.32	125,604.00	-53,312.68
2422090 · Garbage & Refuse Removal	703,012.90	823,570.00	-120,557.10
Total 422 · Utilities and Service	1,602,991.76	2,025,493.00	-422,501.24
424 · Rental			
2424060 · Other	0.00	1,176.00	-1,176.00
Total 424 · Rental	0.00	1,176.00	-1,176.00

Exhibit H
CITY OF HARRISBURG
ADVANCED WASTEWATER TREATMENT FACILITY

	Jan - Oct 11	Budget	\$ Over Budget
425. · Maintenance and Repairs			
2425080 · Service Contracts	159,811.00	160,000.00	-189.00
2425090 · Maintenance Service Contract	0.00	0.00	0.00
2425099 · Other Contracted Maint & Repair	51,338.35	51,540.00	-201.65
Total 425. · Maintenance and Repairs	211,149.35	211,540.00	-390.65
429. · Contracted Services			
2429003 · General Admin. Charges	2,912,168.03	3,193,188.00	-281,019.97
Total 429. · Contracted Services	2,912,168.03	3,193,188.00	-281,019.97
430. · Supplies and Expenses			
2430011 · Custodial Supplies	5,039.04	8,000.00	-2,960.96
2430012 · Personnel Safety Supplies	0.00	1,000.00	-1,000.00
2430016 · Medical Surgical & Lab Supplies	80,554.25	82,000.00	-1,445.75
2430037 · Chemicals	414,721.05	419,000.00	-4,278.95
2430099 · Miscellaneous	286,929.90	420,500.00	-133,570.10
Total 430. · Supplies and Expenses	787,244.24	930,500.00	-143,255.76
Total 2920 · Operations	6,594,634.14	7,798,292.17	-1,203,658.03
2930 · Maintenance			
414.. · Wages and Salary			
3414000 · Wages-Hourly Employees	309,532.47	417,476.00	-107,943.53
3416000 · Overtime	5,852.06	6,025.00	-172.94
Total 414.. · Wages and Salary	315,384.53	423,501.00	-108,116.47
419.. · Fringe Benefits			
3419001 · Social Security	24,126.86	32,400.00	-8,273.14
3419002 · Blue Cross/Blue Shield	73,620.65	136,640.00	-63,019.35
Total 419.. · Fringe Benefits	97,747.51	169,040.00	-71,292.49
425.. · Maintenance and Repairs			
3425010 · Vehicle Equipment	10,100.00	10,100.00	0.00
3425060 · Operations Equipment	1,500.00	3,500.00	-2,000.00
Total 425.. · Maintenance and Repairs	11,600.00	13,600.00	-2,000.00
429.. · Contracted Service			
3429003 · General Admin. Charges	554,087.15	605,847.00	-51,759.85
3429090 · Miscellaneous	8,161.00	8,900.00	-739.00
Total 429.. · Contracted Service	562,248.15	614,747.00	-52,498.85
430.. · Supplies and Expenses			
3430012 · Personal Safety Supplies	0.00	0.00	0.00
3430030 · Snow/Ice Control Supplies	0.00	0.00	0.00
3430036 · Building & Construction Supplie	0.00	0.00	0.00
3430040 · Botanical	0.00	0.00	0.00
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	16,500.00	19,500.00	-3,000.00
3430051 · Tires & Batteries	1,192.12	2,600.00	-1,407.88
3430052 · Vehicle Parts & Supplies	2,268.57	8,500.00	-6,231.43
3430055 · Mechanical Equipmt-Parts & Supp	174,924.28	181,200.00	-6,275.72
3430057 · Pipe Connection Etc	13,000.00	13,000.00	0.00
3430099 · Misc. Supplies & Expenses	29,270.09	33,000.00	-3,729.91
Total 430.. · Supplies and Expenses	249,633.06	277,800.00	-28,166.94
457.. · Sewer Plant Equipment			
3457000 · Plant Equipment	56,548.68	61,600.00	-5,051.32
Total 457.. · Sewer Plant Equipment	56,548.68	61,600.00	-5,051.32
Total 2930 · Maintenance	1,293,161.93	1,560,288.00	-267,126.07
2940 · Field Maintenance			
414... · Wages and Salary - Fd. Main.			
4414000 · Wages Hourly Employees	137,813.41	174,570.00	-36,756.59
4416000 · Overtime	17,485.15	18,821.48	-1,336.33
Total 414... · Wages and Salary - Fd. Main.	155,298.56	193,391.48	-38,092.92
419... · Fringe Benefits			
4419001 · Social Security	11,880.29	14,795.00	-2,914.71
4419002 · Blue Cross/Blue Shield	36,293.92	55,856.00	-19,562.08
Total 419... · Fringe Benefits	48,174.21	70,651.00	-22,476.79

Exhibit H
CITY OF HARRISBURG
ADVANCED WASTEWATER TREATMENT FACILITY

	Jan - Oct 11	Budget	\$ Over Budget
420... · Printing & Reproduction			
4420020 · Printing Repro & Report	0.00	0.00	0.00
Total 420... · Printing & Reproduction	0.00	0.00	0.00
422.. · Utilities			
4422010 · Water	5,994.01	10,000.00	-4,005.99
4422020 · Electricity	233,391.78	233,411.00	-19.22
4422030 · Heat	0.00	1,000.00	-1,000.00
4422090 · Garbage and Refuse	0.00	1,000.00	-1,000.00
Total 422.. · Utilities	239,385.79	245,411.00	-6,025.21
425... · Maintenance and Repairs			
4425010 · Vehicular Equipment	4,445.00	7,635.34	-3,190.34
4425099 · Other Contracted Maint/Repairs	0.00	1,000.00	-1,000.00
Total 425... · Maintenance and Repairs	4,445.00	8,635.34	-4,190.34
429... · Contracted Services			
4429003 · General Admin. Charges	413,858.21	457,844.00	-43,985.79
Total 429... · Contracted Services	413,858.21	457,844.00	-43,985.79
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	3,500.00	3,500.00	0.00
4430051 · Tires & Batteries	200.00	200.00	0.00
4430052 · Vehicle Parts & Supplies	2,614.66	2,614.66	0.00
4430055 · Mechanical Equipment P & S	3,377.74	6,000.00	-2,622.26
Total 430... · Supplies and Expenses	9,692.40	12,964.66	-3,272.26
Total 2940 · Field Maintenance	870,854.17	988,897.48	-118,043.31
Total Expense	14,942,872.70	17,121,548.44	-2,178,675.74
Net Income	-2,933,163.65	-2,497,202.44	-435,961.21