



STEVEN L. BESHEAR
GOVERNOR

LEONARD K. PETERS
SECRETARY

ENERGY AND ENVIRONMENT CABINET
DEPARTMENT FOR ENVIRONMENTAL PROTECTION
DIVISION OF ENFORCEMENT
300 FAIR OAKS LANE
FRANKFORT KENTUCKY 40601
www.kentucky.gov
January 14, 2009

CERTIFIED MAIL 7003 1680 0001 0750 4619
RETURNED RECEIPT REQUESTED

H.J. Schardein, Jr.
Executive Director
Louisville and Jefferson County Metropolitan Sewer District (MSD)
700 West Liberty Street
Louisville, Kentucky 40203

Re: Approval of MSD's Revised Sewer Overflow Response Protocol, and
MSD's Revised Flow Monitoring and Recordkeeping Report,
submitted pursuant to Consent Decree Number: 3:05CV-236-S

Dear Mr. Schardein:

The Kentucky Department for Environmental Protection (KDEP) and the United States Environmental Protection Agency (EPA) have reviewed the Revised Sewer Overflow Response Protocol dated August 22, 2008, and its subsequent re-submittal dated November 5, 2008. Based upon the review of this information and discussions with MSD staff during our meeting in Louisville, Kentucky on November 5, 2008, KDEP/EPA hereby approve the Revised Sewer Overflow Response Protocol and incorporate it into the Consent Decree as an enforceable requirement, including the scheduled commitments identified in Section 3.2.6.2 regarding Programmatic Educational Activities. KDEP/EPA will monitor the implementation of these activities and schedules to ensure compliance with the Consent Decree.

Additionally, KDEP/EPA has reviewed MSD's Flow Monitoring and Recordkeeping Report dated September 30, 2008, and its subsequent re-submittal sent on November 10, 2008. Based upon the review of this information and discussions with MSD staff during our meeting in Louisville, Kentucky on November 5, 2008, KDEP/EPA hereby approve the Flow Monitoring and Recordkeeping Report and incorporate it into the Consent Decree as an enforceable requirement. KDEP/EPA will monitor the implementation of these activities and schedules to ensure compliance with the Consent Decree.

If there are any questions, you may contact Gary Levy or Paul Bridges of KDEP at (502) 564-3410, or you may contact Sean Ireland of EPA at (404) 562-9776.

Sincerely,



Jeff Cummins, Acting Director
Division of Enforcement
KY Department for Environmental Protection



Douglas F. Mundrick, P.E., Chief
Clean Water Enforcement Branch
Water Protection Division
EPA Region 4



MSD

Louisville and Jefferson County Metropolitan Sewer District
700 West Liberty Street
Louisville Kentucky 40203-1911
502-540-6000
www.msdlouky.org

November 10, 2008

Chief, Environmental Enforcement Section
Environmental and Natural Resources Division
U.S. Department of Justice
Post Office Box 7611
Washington DC 20044-7611

Subject: Flow Monitoring and Recordkeeping Report –Revised October 31, 2008
Louisville, Kentucky
DOJ Case No. 90-5-1-1-08254

Attention Chief:

Enclosed please find the revised Louisville and Jefferson County Metropolitan Sewer District's (MSD) Monitoring and Recordkeeping Report as agreed to during recent negotiations between MSD, Kentucky Department of Environmental Protection, EPA Region 4 and the Department of Justice.

This submittal includes information related flow monitoring and recordkeeping at MSD's wastewater treatment plants that are currently operational, with the exception of the Morris Forman Wastewater Treatment Plant.

We certify under penalty of law that this document and all attachments were prepared under our direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering such 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 knowing violations.

Sincerely,

W. Brian Bingham
Regulatory Services Director

Attachment: Flow Monitoring and Recordkeeping Report

cc: H. J. Schardein, Jr.
Paula Purifoy
Laurence J. Zielke



Beneficial Use of Louisville's Biosolids
www.louisvillegreen.com



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Louisville Kentucky 40203-1911
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November 10, 2008

Jeff Cummins, Director
Division of Enforcement
Department of Environmental Protection
14 Reilly Road
Frankfort, KY 40601

Subject: Flow Monitoring and Recordkeeping Report – Revised October 31, 2008
Louisville, Kentucky
DOJ Case No. 90-5-1-1-08254

Attention Director Cummins:

Enclosed please find a copy of the revised Louisville and Jefferson County Metropolitan Sewer District's (MSD) Monitoring and Recordkeeping Report as agreed to during recent negotiations between MSD, Kentucky Department of Environmental Protection, EPA Region 4 and the Department of Justice.

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Louisville Kentucky 40203-1911
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November 10, 2008

Chief, Water Programs Enforcement Branch
Water Management Program
US EPA Region 4
Atlanta Federal Center
61 Forsyth Street SW
Atlanta, GA 30303

Subject: Flow Monitoring and Recordkeeping Report – Revised October 31, 2008
Louisville, Kentucky
DOJ Case No. 90-5-1-1-08254

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Regulatory Services Director

Attachment: Flow Monitoring and Recordkeeping Report

cc: H. J. Schardein, Jr.
Paula Purifoy
Laurence J. Zielke



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www.louisvillegreen.com



**MONITORING AND RECORDKEEPING REPORT
WASTEWATER TREATMENT PLANTS**

**Louisville and Jefferson County
Metropolitan Sewer District**

**Submitted September 30, 2008
Revised October 31, 2008**

PURPOSE AND SCOPE

In December, 2006, MSD received a Clean Water Act Section 308 Information Request from the US Environmental Protection Agency Region 4 (EPA). Among other things, this request included a requirement for MSD to provide wastewater treatment plant flow records from January 2001 through November 2006, including average day and daily peak flows for all MSD's wastewater treatment plants. MSD's response in January 2007 provided that data. There were gaps in the data, however, that resulted from a variety of problems, including loss of telemetry system server connectivity for records that were stored electronically, paper recording charts that were damaged by flooding of the plant's records storage areas, improperly labeled paper recording charts that could not be definitely attributed to a plant or a time period etc.

In March 2007, EPA repeated the request for the missing data or an explanation why the data was not available and what MSD was doing to modify data collection practices to assure that similar gaps in data would not occur. The March 2007 letter also requested, among other things, additional monitoring be implemented at the Jeffersontown WWTP.

The March 2007 request resulted in a protracted period of discussion and negotiation between MSD, EPA, and the Kentucky Department of Environmental Protection (KDEP). An interim letter describing MSD's actions to expand flow and event monitoring at the Jeffersontown WWTP was sent by MSD in February 2008.

Continued discussions and negotiations have continued since the February 2008 response. Over the course of these negotiations, EPA and KDEP have requested that additional actions be taken and documentation be provided relative to WWTP record keeping and retention. The purpose of this report is to respond to the EPA/KDEP requests.

INFORMATION REQUESTED

The following describes the information requested, and MSD's commitments to provide the requested information.

MSD hereby agrees to immediately provide continuous flow monitoring at its WWTPs where required by its KPDES permits and to maintain records of such flow monitoring for a minimum of three (3) years in accordance with its KPDES permits.

By September 30, 2008, MSD shall submit to the EPA/KDEP a Monitoring and Recordkeeping Report, that includes in detail the following:

- (1) The actions MSD has taken since October 12, 2006, at each WWTP to remedy any problems in complying with these KPDES monitoring and recordkeeping requirements;
- (2) A description of the specific actions it currently and regularly performs at each WWTP to insure that such continuous flow monitoring and record keeping will occur; and

(3) A representative sample of flow monitoring records from several WWTPs to exemplify compliance with these KPDES permit requirements.

Each of these three issues will be responded to in the following sections.

RESPONSE TO ITEM (1)

The actions MSD has taken since October 12, 2006, at each WWTP to remedy any problems in complying with these KPDES monitoring and recordkeeping requirements

MSD has enhanced the wastewater treatment plants (WWTPs) data collection program, eliminating the opportunity for paper chart problems. Each of the WWTPs have been fitted with equipment and re-configured to collect, transmit via the SCADA System and store the flow data electronically in the Plant Information (PI) Server. Attachment 1 provides documentation of the date that each existing WWTP currently in service was removed from its previous form of data collection device.

PLCs have been programmed to use the instantaneous flow rate and calculate flow. The flow is then totalized over the 24 hour period from midnight to midnight. To prevent the flow readings from being lost in the event of a communication failure with the SCADA System, tags have been established in the PLCs to hold flow data for a 24-hour period until communications have been restored and the data can be captured in both the PI Server data base and the iHistorian data base. Within both of these systems, tags are set to gather the following information:

1. Instantaneous flow (MGD or gpd)
2. Current accumulated total flow (MG or Gallons, depending on the size of the plant); and
3. Previous day flow total (MG or Gallons).

The PI Server is housed at the Morris Forman WWTP. This server is powered through the Morris Forman WWTP main power supply that is served by power from two separate Louisville Gas & Electric (LG&E) substations. Switching between power feeds is performed through the LG&E central control system using remote operated switches that do not rely on repair crew availability. The computer system at the Morris Forman WWTP is connected to an uninterruptible power supply (UPS) that provides up to four hours of service if power is lost to the Morris Forman WWTP. SCADA systems at the WWTPs are also powered through UPS systems. The UPS service provided for power outages ranges from 15 minutes to 2 hours, depending on the loads on the UPS, and whether the plant has a standby generator on-site, or if stand-by generation is provided by one of MSD's portable generators.

A full back up of the PI Server is automatically performed every Sunday. Incremental back-ups are automatically performed Monday through Saturday. The back-up files are stored on two separate servers. These files back-up a complete image of the PI server in the event that a full system restore would be required.

**RESPONSE TO ITEM (2)****A description of the specific actions it currently and regularly performs at each WWTP to insure that such continuous flow monitoring and record keeping will occur**

MSD has and continues to implement a system and data quality assurance program. The quality assurance and control measures on the electronic data capture procedures have the objective of eliminating electronic data loss for unnecessarily long time periods. Those measures being employed are described below.

1. Flow metering technology utilized by MSD is being standardized, such that if a standard meter fails, additional meters will be available for timely repair and/or replacement.
2. Flow meter failures at both the WWTP influent and effluent locations are detected and transmitted via SCADA to the Morris Forman WWTP Computer Room, which will reduce the risk of losing flow data. MSD Controls Group staff will be notified immediately to correct the problem.
3. Interface failures between the PI Server and the Human Machine Interface (HMI) are detected through a programmed alarm system. In the event of a failure, an alarm will be sent to the Morris Forman WWTP Computer Room. Computer Room staff will notify the on-call operating personnel that a failure occurred. MSD Controls Group staff will be notified immediately to correct the problem.
4. Emails are system-generated daily and automatically sent to the Process Supervisors and the Maintenance Supervisors. These emails contain the previous day flow totals at each WWTP as a daily reminder to review and validate WWTP performance.

Each active WWTP has its own set of HMI graphic screens to assist in plant operation. Regional plants with complex flow paths may have several screens that are used for daily monitoring and operation of the plants. All these screens are available to operators, process supervisors and any other MSD employee with security rights to view MSDOPERATIONS on the MSD network. Regardless of the number of screens available for plant operation, each plant has at least one way to display three vital pieces of flow information. The data displayed on the HMI screens is detailed below.

1. Instantaneous flow (MGD or gpd);
2. Current accumulated total flow since 12:01 AM (MG or Gallons, depending on the size of the plant); and
3. Previous day flow total (MG or Gallons).



Attachment 2 contains screen shots of HMI graphics from three regional and three small WWTPs depicting this information. This flow data is illustrated on each screen as follows:

- For the West County WWTP (Attachment 2, Page 1), the instantaneous flow rate in MGD is displayed on the left side of the overall plant schematic screen. Part of this is visible on the example provided. Totalized flow in MG for the current day and for the previous day are accessed through a screen pop-up on the overall schematic. This pop-up screen shows the current date with totalized flows from midnight up to the current time for both influent channels and the effluent channel. Totalized flow from the previous day, along with the current day, is also indicated for all three measurement points.
- For the Floyd's Fork WWTP (Attachment 2, Page 2), instantaneous flow rates and totalized flows are viewed from the unit process screen for "Clarifiers". In the example provided, the effluent flume in the lower right corner of the page gives the instantaneous flow. Just above that, the totalized flows for the current and previous days (with dates indicated) are shown.
- For the Jeffersontown WWTP (Attachment 2, Page 4), the flow totalizer screen is also a pop-up screen accessed from the overall plant schematic. This screen also shows totalized flow for the current day, with the date indicated, for a number of flow measurement points. The screen also shows the previous day totalized flow for the same flow measurement points. The "noise" in the control system, resulting from stray blips from the level sensors, has been corrected.
- For the Small WWTPs, the instantaneous and totalized flows are shown on the plant overview screen. Examples of overview screens from three representative small plants, including the Chenoweth Hills, Hunting Creek North, and Silver Heights WWTPs are provided (Attachment 2, Pages 5-7). The 13 additional small WWTPs have similar overview screens.
- In addition to instantaneous flow rate and totalized flows, it also useful to be able to view trend plots of flow rates. With this, all the functionality offered by paper charts is provided electronically. Trend charts for all plants are accessed through the MSDOPERATIONS page titled STP TOTALIZER PAGE (Attachment 2, Page 8). Screen captures of these pages are included (Attachment 2, Pages 9-14). Clicking on the chart indicated for any plant will bring up a pop-up window that displays a trend chart for flows. This chart can be scrolled forward and backward to view flow trends over different time periods as defined by the user. MSD is developing a trending application that will allow viewing of trends over a longer duration than is visible on the initial pop-up screen. The final six screen captures in Attachment 2 illustrate the trend charts for the six plants previously described.

RESPONSE TO ITEM (3)

A representative sample of flow monitoring records from several WWTPs to exemplify compliance with these KPDES permit requirements.

As described in the discussion for Item 1, WWTP flow data is now stored in the PI Server. The PI Server is structured as a data base, with information extracted by a variety of interface programs. For custom reports, exporting data to Microsoft Excel provides a convenient reporting tool. Attachment 3 provides an Excel spreadsheet report of WWTP daily and peak flow data for the six plants referenced in Attachment 2. This data represents six months of data, collected in the PI server beginning March 1, 2008, through August 31, 2008.

REMAINING VULNERABILITIES

MSD has implemented an electronic data gathering, storage and retrieval system that is fully automated, with a high level of equipment and back-up processes to ensure continuous data capture and storage. The systems for providing uninterrupted power to the SCADA system, the storage in PI and the backup in iHistorian illustrate MSD's commitment to continued improvement in this area of responsibility.

Despite MSD's best efforts, some vulnerabilities remain however, as illustrated by the events of September 14, 2008, and the weeks following. On September 14, at approximately 11:00 A.M., the Louisville area was subject to sustained hurricane-force winds with measured wind velocities of over 75 mph. This event resulted in the largest loss of electrical service in LG&E's history, with almost two-thirds of the Louisville Metro area without power at the peak of the outage. All power did not drop out at once - this event was progressive in nature. Some power was restored and was then lost again over the entire week. As LG&E crews worked to restore power, they continued to uncover damages that required some circuits to be shut back down after initial restoration.

MSD crews mobilized immediately, and began an emergency response effort that included the deployment of MSD's full fleet of portable generators, and the rental or loan of any generators MSD could find in the area, including some generators that came from as far away as West Virginia. Deployment of generators to WWTPs was hampered by wide-spread road closures due to downed trees and power lines. Power was restored to the last WWTP, Hunting Creek North, at approximately 9:00 PM on September 16, 2008, by a 300KW rented portable generator. Due to the unprecedented county-wide damage, restoring power to some of the WWTPs took longer than the UPS systems could support, resulting in some loss of data due to loss of power to the SCADA systems.

A more serious problem occurred as a result of the loss of communication systems from MSD's cellular phone system network. MSD's SCADA system relies on cell phone service from Verizon and Sprint, with the specific carrier depending on the location and availability of service in the area. Signals from both cell phone providers route to the Morris Forman WWTP through an AT&T hard-wire land line. As a result of the storm taking down utility poles county-wide,



AT&T lost parts of its hard wire system, and did not have the ability to re-route service due to the widespread outages. This unprecedented loss of AT&T land line service took MSD's SCADA out of service for several days. Even though the system was fully powered and sending signals through Verizon and Sprint, the signals could not get to the PI server.

AT&T's land-line service to Morris Forman WWTP was restored shortly after midnight on September 17, 2008, and MSD's SCADA system was fully functional shortly thereafter. MSD is studying this surprising system vulnerability, and exploring with AT&T and its cellular providers how this can be prevented in the future.

SUMMARY

In response to data collection and retention issues, MSD has implemented an automated, fully electronic flow data collection, retention and retrieval system. The system includes back-up systems where available, and includes a series of alarms to warn of any loss of data transfer into the PI system. The following activities were completed by October 31, 2008:

1. Eliminated the "noise" in the Jeffersontown WWTP control system that incorrectly shows small flows in the Storm Flow line. The respective Plant Flow Totalizer screen has been updated in Attachment 2, page 4.
2. Determined application of the flowmeter labeled "Total Plant Flow" on the original Attachment 1. Further investigation revealed that this particular tag is actually an influent meter. An additional effluent meter was added on July 17, 2008. Prior to this date, a calculation was performed to sum the three influent meters, currently listed on Attachment 1, to calculate an effluent total. After July 17, effluent volume/rates were obtained from the flow meter on the actual effluent line after UV disinfection. A new diagram depicting these flow meters as a component is provided now in Attachment 2, page 3.
3. Modified Attachment 1 to show the five flow meters with PI Server tags in operation at the Jeffersontown WWTP. The respective Plant Flow Totalizer screen has been updated in Attachment 2, page 4.
4. Modified the WWTP flow trending application to display flows over an adjustable length of time as defined by the user. Also re-programmed each effluent flow chart axis to match the limits of the flowmeter installed at that location. The revised screen shots have been submitted in Attachment 2, pages 9-14.
5. Addressed flow measurement problems pertaining to the Jeffersontown WWTP. The issues were (1) peaks and drops in trend chart, (2) high peak ratios on 4/7 and 7/23, and (3) ten days with total flow greater than peak flow. Problem number 1 is attributed to the fact that the effluent is pumped, and at low flow the pumps shut off until the well refills. Similarly, as flows increase, a large pump may kick on and cause a very high short term peak. Problem number 2 may be due to pump starts, or maintenance work being done on the pumps or the flowmeters. We are continuing to investigate, but have not been able to definitively solve this. Problem number 3 is likely due to the way that flow was



measured prior to the installation of the effluent flow meter on July 17, 2008. Prior to installation of the effluent flow meter the three influent flow meters (Plant 1, Plant 2, and Storm Flow) were summed to calculate total flows. The entire spreadsheet was built based on the flow summing approach (to get a full 6-months of data from the same source). While the approach of summing meters is commonly performed and is thought to have been accurate for total flow, the peak flows were not captured accurately. To remedy this, we now use the effluent flow meter to determine the peak rate and total flow. The table sent with the previous submittal has been modified. The corrected calculated values before July 17, 2008, and the effluent meter readings after that date are now provided in Attachment 3, page 3.

6. Evaluated the communications system for potential improvements in vulnerability revealed during the September 14, 2008, Hurricane Ike wind storm could be eliminated. The problem encountered was due to a loss of the AT&T land line that transmits the signals from our cell-phone telemetry to the Morris Forman WWTP computer room. MSD is in the process of applying for participation in the Telecommunications Service Priority (TSP) System through the National Communication system (NCS). This service, if approved, will allow our circuit to have a higher priority put on it in case of a disaster which would have communication service restored much sooner than we currently experience.

ATTACHMENT 1

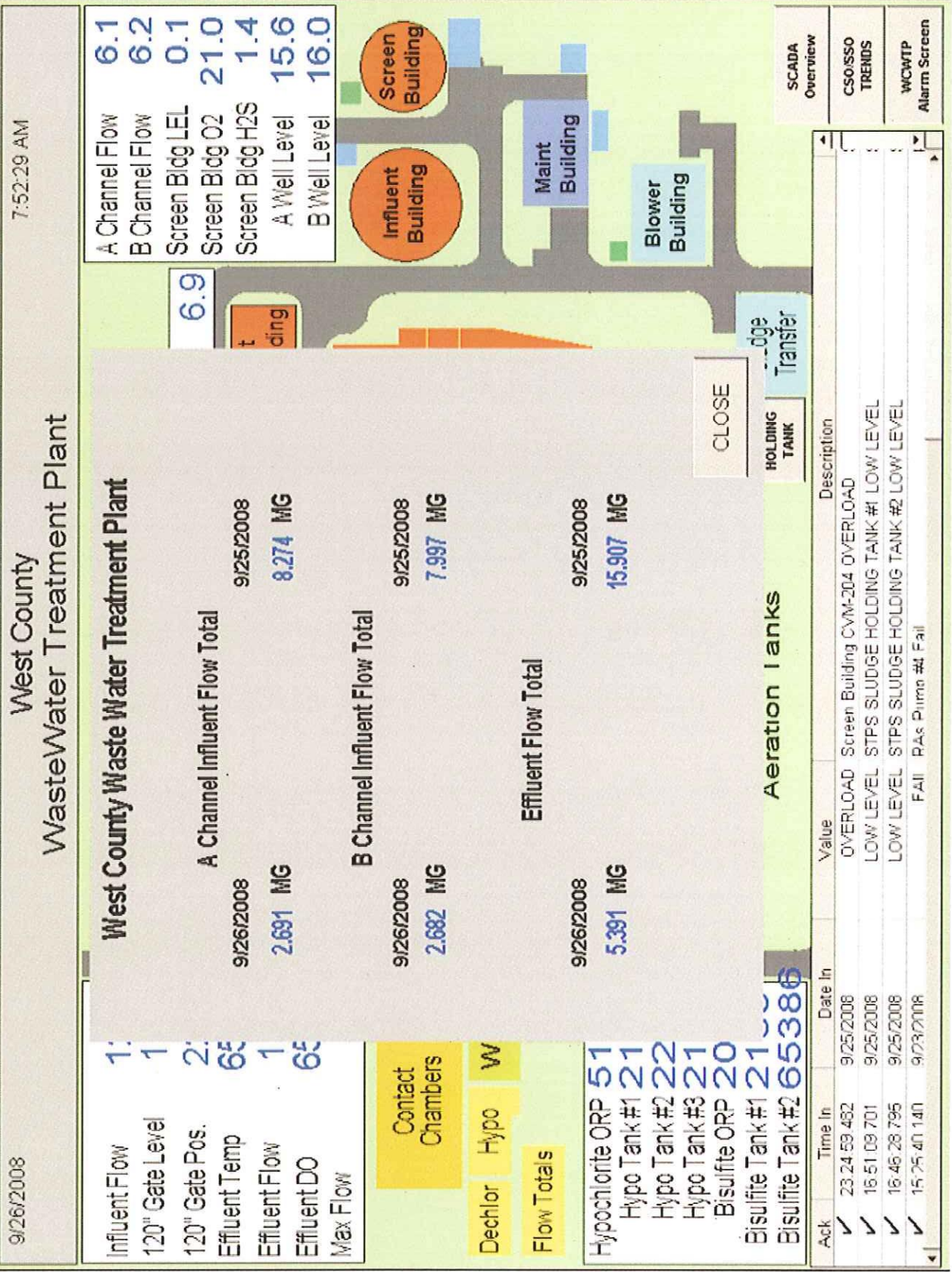
WWTP conversion to electronic flow recording

**Attachment 1
Wastewater Treatment Plant Remote Monitoring of Flows**

	WWTP Name	KPDES Permit	Date PI Interface Created
Active WWTPs	1 Bancroft	KY0039021	Effluent 10/25/2006
	2 Chenoweth Run (aka Lake Forest)	KY0042226	Influent 7/25/05
	Chenoweth Run (aka Lake Forest)	KY0042226	Effluent 7/28/05
	3 Berrytown	KY0036501	Effluent 1/8/2007
	4 Cedar Creek	KY0098540	Influent 1/13/2004
	Cedar Creek	KY0098540	Effluent 1/13/2004
	5 Chenoweth Hills	KY0029459	Effluent 5/22/2007
	6 Floyds Fork	KY0102784	Influent 7/22/2007
	Floyds Fork	KY0102784	Effluent 10/4/2006
	7 Glenview Bluff	KY0044261	Effluent 1/9/2008
	8 Hite Creek	KY0022420	Influent 10/6/2006
	Hite Creek	KY0022420	Effluent 7/22/2007
	9 Hunting Creek North	KY0029106	Effluent 1/10/2007
	10 Hunting Creek South	KY0029114	Effluent 1/9/2007
	11 Jeffersontown	KY0025194	F1 - New Plant Flow 1/13/2004
	Jeffersontown	KY0025194	F2 - Old Plant Flow 1/13/2004
	Jeffersontown	KY0025194	F3 - Storm Flow 1/13/2004
	Jeffersontown	KY0025194	F4 - Blended Flow 4/3/2007
	Jeffersontown	KY0025194	F5 - Effluent Flow 7/17/2008
	12 Ken Carla	KY0022497	Effluent 10/31/2007
13 Lake of the Woods	KY0044342	Effluent 9/20/2007	
14 McNeely Lake	KY0029416	Effluent 3/7/2007	
15 Shadowwood	KY0031810	Effluent 1/9/2007	
16 Silver Heights	KY0028801	Effluent 5/31/2007	
17 Starview	KY0031712	Effluent 1/19/2007	
18 Timberlake	KY0043087	Effluent 10/24/2006	
19 West County	KY0078956	Influent 1/24/2007	
West County	KY0078956	Effluent 3/31/2005	
20 Yorktown	KY0036323	Effluent 3/19/2007	
Inactive WWTPs	1 Fern Hill	KY0033758	WWTP Eliminated 9/27/2005
	2 Nottingham Hills	KY0029483	WWTP Eliminated 9/30/2006
	3 Polo Fields	KY0093441	WWTP Eliminated 12/18/2006
	4 Watterson Woods	KY0035211	WWTP Eliminated 12/14/2006
	5 Glenview Acres	KY0022462	WWTP Eliminated 9/6/2007
	6 Ky Correction for Women	KY0039004	MSD Terminated Operations 9/30/07

ATTACHMENT 2

Screen captures from HMI pages displaying totalized flows



FROM CLARIFIERS

SLIDE GATE #1
SG-503
NOT IN AUTO
CLOSED

ABW FILTER #1
FM-501
RUN TIME TOTAL
RESET 572
STARTS TOTAL
RESET 659
IN AUTO

SLIDE GATE #2
SG-505
STOP
NOT IN AUTO
OPEN

ABW FILTER #2
FM-502
RUN TIME TOTAL
RESET 414
STARTS TOTAL
RESET 565
IN AUTO

SLIDE GATE #3
SG-506
STOP
NOT IN AUTO
OPEN

UV BANK MINOR ALARM
UV BANK MAJOR ALARM

UV BANK 1A IN AUTO ON
UV BANK 1B IN AUTO OFF

EFFLUENT FLOW DAILY TOTAL 9/26/2008 0.3219 MGD
EFFLUENT FLOW YESTERDAY'S TOTAL 9/25/2008 1.4177 MGD

GENERATOR NOT RUNNING
TRANSFER SWITCH POS. NORMAL
EMERGENCY POWER SOURCE NOT READY

FOAM SPRAY PUMP
P-602
RESET START STOP
RUN TIME TOTAL
RESET 4952
STARTS TOTAL
RESET 0

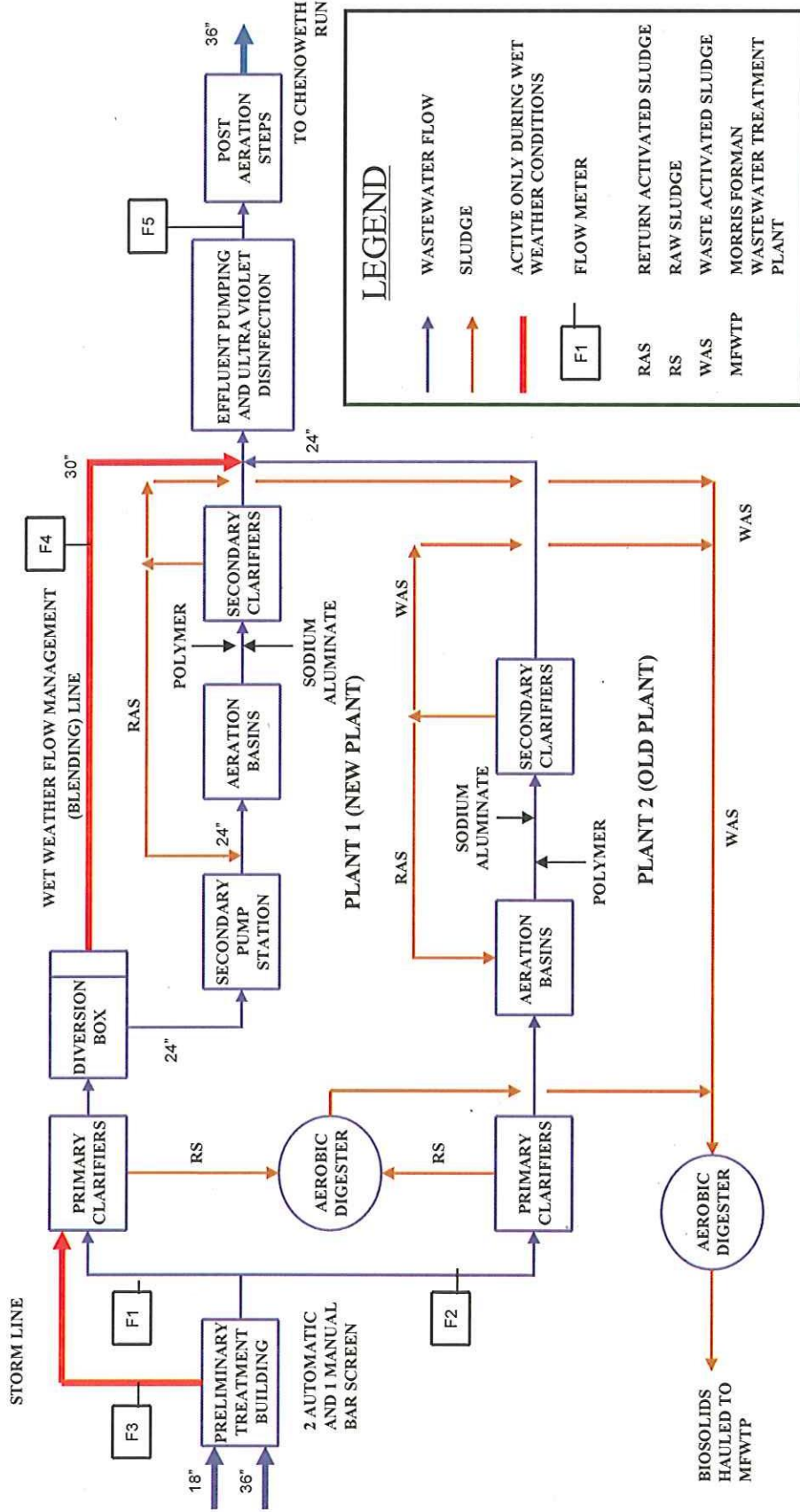
UV DISINFECTION
FIT 600
0.94 MGD
FLUME

Ack	Time In	Date In	Time Last	Date Last	Tagname	Value
✓	16:02:56.826	9/23/2008	16:02:56.826	9/23/2008	UV_BANK_MAJOR_ALARM	MAJOR
✓	16:02:52.748	9/23/2008	16:02:52.748	9/23/2008	UV_BANK_MINOR_ALARM	MINOR
✓	08:34:43.453	9/20/2008	08:34:43.453	9/20/2008	10% ALARM LIGHT LEL	CLOSE



Louisville / Jefferson County Metropolitan Sewer District

Jeffersonstown Wastewater Treatment Plant



EXISTING PROCESS FLOW DIAGRAM

JTOWN_WFB_TOTALIZER_PAGE.bmp - Windows Picture and Fax Viewer

http://msdoperations/msdoperations/default.htm - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Address http://msdoperations/msdoperations/default.htm

Google G

Go

AutoLink

AutoFill

Send to

Settings

Links

Plant Flow Totalizers

TODAY'S CURRENT TOTAL FLOW		YESTERDAY'S TOTAL FLOW	
New Plant Flow (F1)	0.876 MG	New Plant Flow (F1)	1.642 MG
Old Plant Flow (F2)	0.394 MG	Old Plant Flow (F2)	0.755 MG
Storm Flow (F3)	0.000 MG	Storm Flow (F3)	0.000 MG
Total Calc Plant Flow	1.270 MG	Total Calc Plant Flow	2.397 MG
Blended Flow (F4)	0 Gallons	Blended Flow (F4)	0 Gallons
Plant Effluent Flow (F5)	0.898 MG	Plant Effluent Flow (F5)	1.689 MG
Total New RAS Flow	405,357.0 Gallons	Total New RAS Flow	701,292.0 Gallons
Total Old RAS Flow	328,840.0 Gallons	Total Old RAS Flow	555,740.9 Gallons

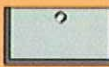
JWTF Overview



J. Porter (525) PAGER 523-9957
 Mobile 239-7695
 M. Brazel (556) PAGER 741-3488
 Mobile 342-4490

CHENOWETH HILLS S.T.P. CENTRAL

263



EFF. FLOW 0.056 MGD FLOW TOTAL 0.03 MILLION GALLONS
 9/29/2008 09/28/2008 0.07

	STATUS	TODAY		YESTERDAY	
		STARTS	RUNTIME	STARTS	RUNTIME
PUMP #1	STOPPED	31	0.9 HRS	71	2.2 HRS
PUMP #2	STOPPED	35	1.3 HRS	77	3.3 HRS
BLOWER #1	RUNNING	15	7.7 HRS	21	16.9 HRS
BLOWER #2	O/S	1	0.0 HRS	0	0.0 HRS
BLOWER #3	RUNNING	8	9.4 HRS	11	18.7 HRS
BLOWER #4	RUNNING	0	12.7 HRS	0	24.0 HRS
GRINDER #1	RUNNING NORMAL	0	12.7 HRS	0	24.0 HRS

SCADA Overview
 CENTRAL Overview

HUNTING CREEK NORTH STP 291 EAST

J. Kessel (523) PAGER 342-8890
 MOBILE 648-5984
 K. Slaughter (316) PAGER 455-6491
 MOBILE 648-8005

FLOW 245.28 GPM

INTRUSION

CLEAR

FLOW TOTAL GALLONS
 9/26/2008 43595.11 09/25/2008 212436.39

	STATUS	TODAY		YESTERDAY	
		STARTS	RUNTIME	STARTS	RUNTIME
AER. BLOWER #1	O/S	0	0.0 HRS	0	0.0 HRS
AER. BLOWER #2	RUNNING	0	7.9 HRS	1	22.6 HRS
AER. BLOWER #3	RUNNING	0	7.9 HRS	1	22.6 HRS
DIGESTER BLOWER	O/S	0	0.0 HRS	7	0.0 HRS
RETURN BLOWER #1	O/S	0	0.0 HRS	0	0.0 HRS
RETURN BLOWER #2	RUNNING	0	7.9 HRS	1	22.4 HRS
COLLECTOR #1	STOPPED	0	0.0 HRS	0	0.0 HRS
COLLECTOR #2	RUNNING	0	7.9 HRS	1	24.0 HRS
COLLECTOR #3	STOPPED	0	0.0 HRS	0	0.0 HRS
COLLECTOR #4	RUNNING	0	0.0 HRS	0	7.9 HRS

START

START

Ack	Time In	Date In	Alarm Extension Field1	Status	Value	Description
1						
2						
3						
4						
4						

Total Alarms: 0

Filter: Area In "N/CR" Sort: Time In, Descending

SCADA Overview EAST Overview

258 SILVER HEIGHTS STP WEST

K. Ries (408) Pager 342-9541
 J. Heacock (571) Pager 342-3818
 Mobile 396-7543
 Mobile 475-7500

PUMP #1	STOPPED	NORMAL		
PUMP #2	STOPPED	NORMAL		
PUMP #3	STOPPED	NORMAL		
AEREATOR #1	STOPPED			
AEREATOR #2	STOPPED			
AEREATOR #3	STOPPED		BLOWER #1	STOPPED
AEREATOR #4	RUNNING		BLOWER #2	RUNNING
COLLECTOR #1	RUNNING		RAS #1	STOPPED
COLLECTOR #2	RUNNING		RAS #2	RUNNING

WET WELL LVL 3.86 FT

	TODAY	YESTERDAY		
	STARTS	RUNTIME	STARTS	RUNTIME
PUMP #1	83	3.2 HRS	254	13.1 HRS
PUMP #2	0	0.0 HRS	0	0.0 HRS
PUMP #3	0	0.0 HRS	0	0.0 HRS
AEREATOR #1	3	7.3 HRS	6	22.3 HRS
AEREATOR #2	2	7.3 HRS	7	22.4 HRS
AEREATOR #3	3	6.3 HRS	9	20.8 HRS
AEREATOR #4	3	6.7 HRS	8	21.3 HRS
COLLECTOR #1	0	7.9 HRS	0	24.0 HRS
COLLECTOR #2	0	7.9 HRS	0	24.0 HRS
BLOWER #1	0	0.0 HRS	0	0.0 HRS
BLOWER #2	0	7.9 HRS	0	24.0 HRS
RAS #1	9	6.3 HRS	33	19.4 HRS
RAS #2	14	4.8 HRS	42	15.1 HRS

EFF. FLOW 0.26 MGD

FLOW TOTAL 0.046 MILLION GALLONS
 9/26/2008 0.197 09/25/2008

[SCADA Overview](#)
[WEST Overview](#)

STP_TOTALIZER_PAGE.bmp - Windows Picture and Fax Viewer

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STP TOTALIZER PAGE

EAST

BANCROFT STP
TODAY 5,358 GALLONS

FLOYDS FORK INFLUENT FLOW
TODAY 0.010 MG

FLOYDS FORK EFFLUENT FLOW
TODAY 0.336 MG

GLENVIEW BLUFF STP
TODAY 3,130 GALLONS

HITE CREEK INFLUENT FLOW
TODAY 0.209 MG

HITE CREEK EFFLUENT FLOW
TODAY 0.579 MG

KEN CARLA STP
TODAY 561 GALLONS

HUNTING CREEK NORTH STP
TODAY 40,062 GALLONS

HUNTING CREEK SOUTH STP
TODAY 24,211 GALLONS

SHADOW WOODS STP
TODAY 9,954 GALLONS

TIMBERLAKE STP
TODAY 21,834 GALLONS

WEST

Mummeys Lake STP
TODAY 0.014 MG

Silver Heights STP
TODAY 0.039 MG

West County A Channel
TODAY 2,394 MG

West County B Channel
TODAY 2,412 MG

West County Effluent
TODAY 4,900 MG

Yorktown STP
TODAY 0.023 MG

CENTRAL

BERRYTOWN STP
TODAY 13,822 GALLONS

CEDAR CREEK INFLUENT FLOW
TODAY 0.799 MG

CEDAR CREEK EFFLUENT FLOW
TODAY 0.814 MG

CHENOWETH HILLS STP
TODAY 0.014 MG

CHENOWETH RUN STP INFLUENT FLOW
TODAY 0.095 MG

CHENOWETH RUN STP EFFLUENT FLOW
TODAY 0.076 MG

JTOWN INFLUENT FLOW
TODAY 2,337 MG

JTOWN EFFLUENT FLOW
TODAY 0.703 MG

LAKE OF THE WOODS STP
TODAY 0.021 MG

STARVIEW ESTATES

SCADA Overview

Run Mode

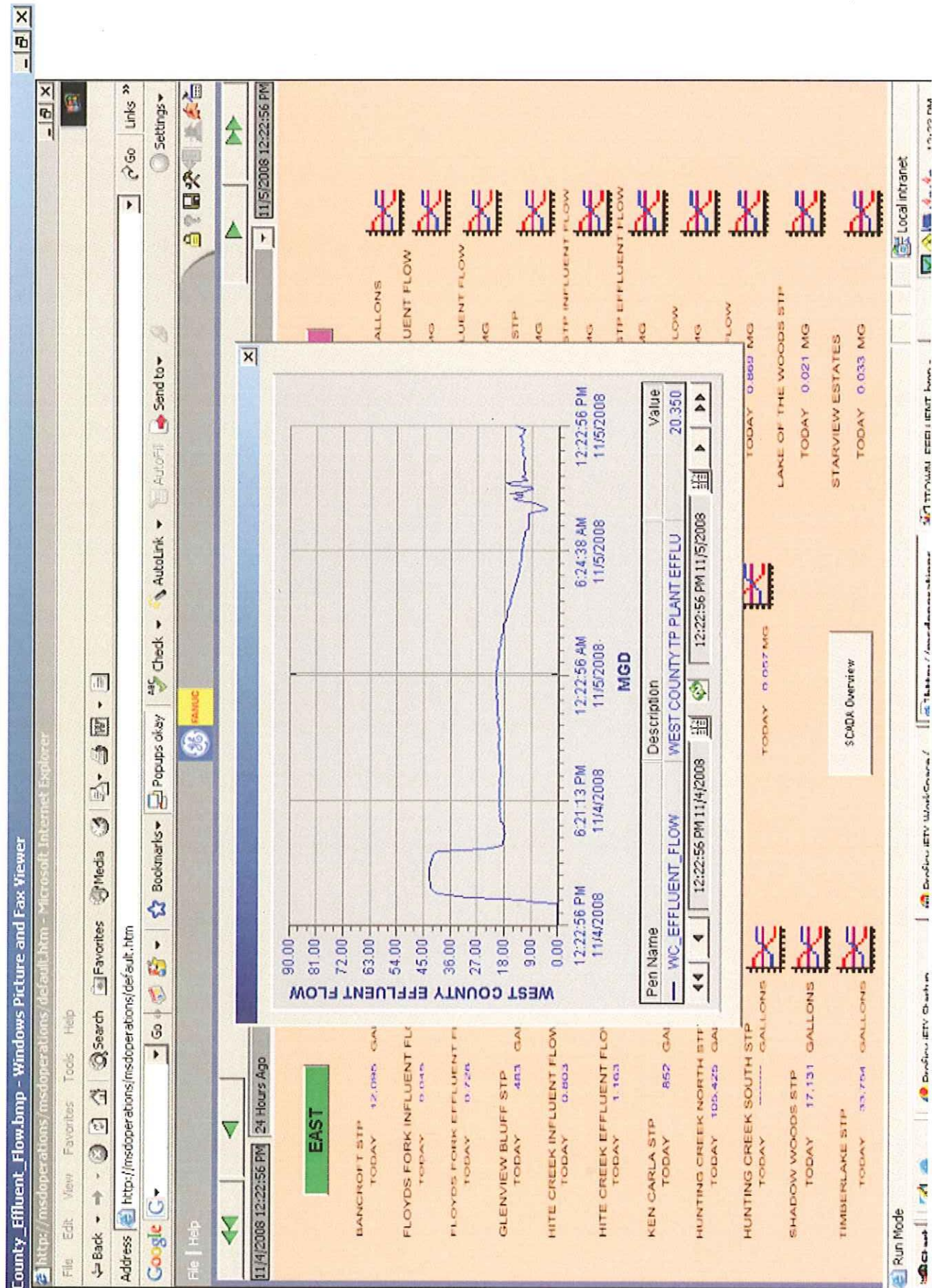
This document was sent to the printer

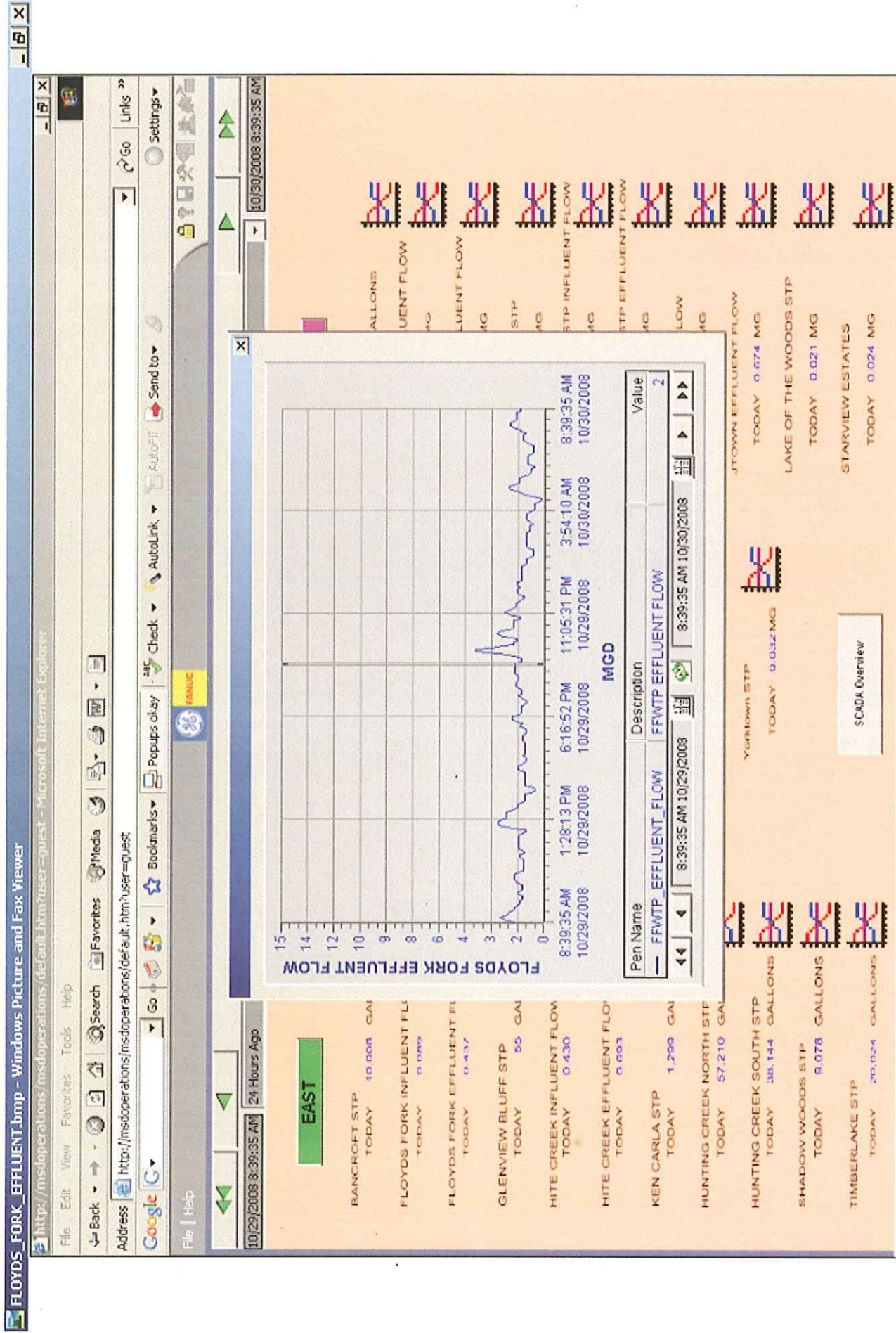
Document name: Microsoft PowerPoint - 2008 ...

Printer name: \\printers01\MO20C

Time sent: 2:24:40 PM 9/30/2008

Local intranet





JTOWN EFFLUENT.bmp - Windows Picture and Fax Viewer

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Google

11/4/2008 1:30:00 PM 24 Hours Ago

EAST

BANCROFT STP TODAY 13,331 GAL

FLOYDS FORK INFLUENT FLO TODAY 0.1346

FLOYDS FORK EFFLUENT FLO TODAY 0.702

GLENVIEW BLUFF STP TODAY 605 GAL

HITE CREEK INFLUENT FLOW TODAY 0.871

HITE CREEK EFFLUENT FLOW TODAY 1.241

KEN CARLA STP TODAY 951 GAL

HUNTING CREEK NORTH STP TODAY 117,134 GAL

HUNTING CREEK SOUTH STP TODAY 34,123 GALLONS

SHADOW WOODS STP TODAY 17,853 GALLONS

TIMBERLAKE STP TODAY 33,818 GALLONS

ALLONS UENT FLOW AG

LUENT FLOW AG

STP AG

STP INFLUENT FLOW AG

STP EFFLUENT FLOW AG

LOW AG

FLOW

TODAY 0.910 MG

LAKE OF THE WOODS STP TODAY 0.021 MG

STARVIEW ESTATES TODAY 0.037 MG

SCADA Overview

Local intranet

Run Mode

JTOWN EFFLUENT FLOW

MGD

Pen Name	Description	Value
JT_TOT_PLT_EFF_FLW	JTOWN TOTAL PLANT EFFLUENT	3.429

10:04:26 AM 10:05:26 AM 10:06:26 AM 10:07:26 AM 10:08:26 AM 10:09:26 AM
 9/25/2008 9/25/2008 9/25/2008 9/25/2008 9/25/2008 9/25/2008

CHENOWETH_HILLS.bmp - Windows Picture and Fax Viewer

Address: http://msdoperations/msdoperations/default.htm

11/3/2008 7:33:43 AM 24 Hours Ago

EAST

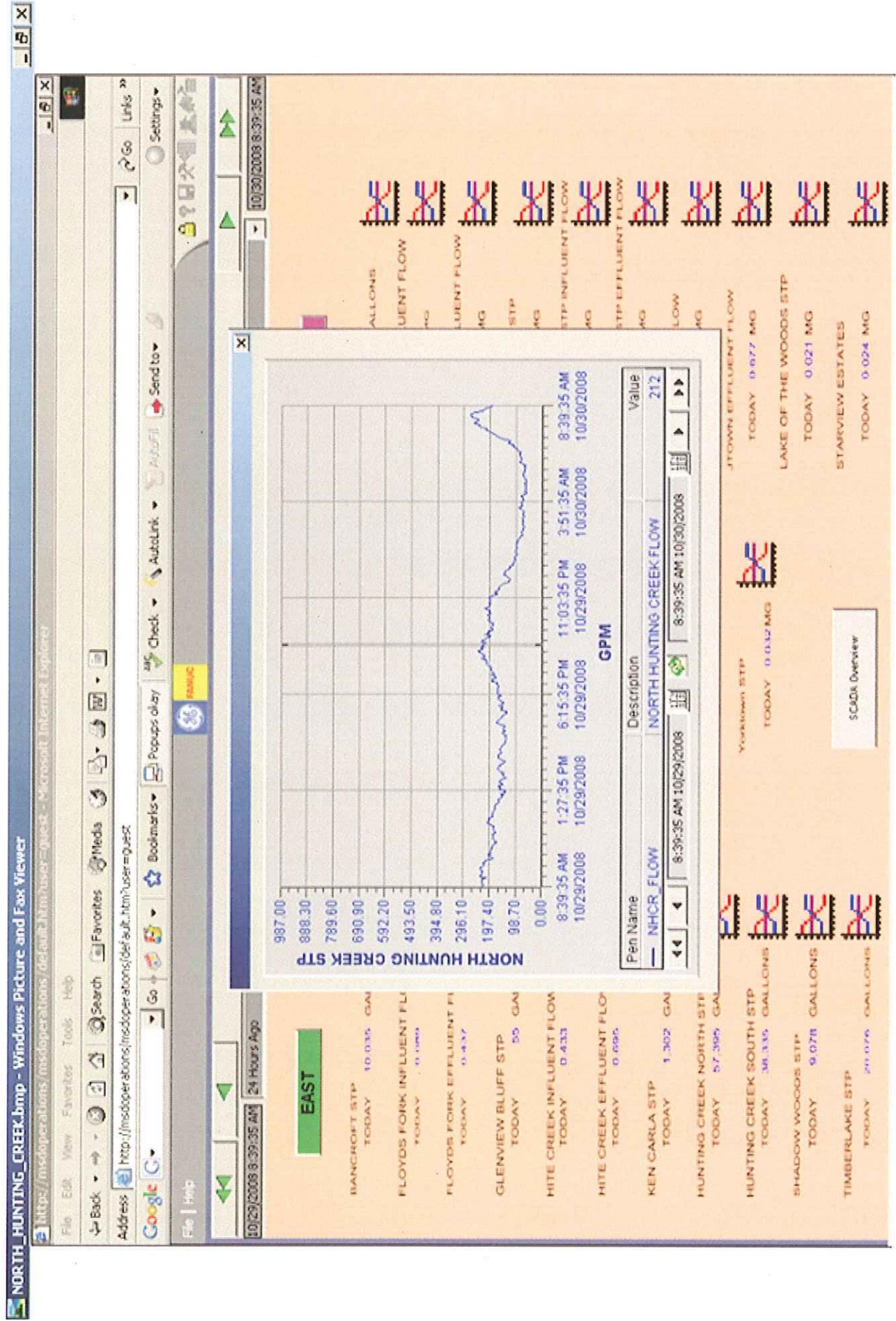
BANCROFT STP	TODAY	5,966	GAL
FLOYDS FORK INFLUENT FLO	TODAY	0.236	MG
FLOYDS FORK EFFLUENT FLO	TODAY	0.303	MG
GLENVIEW BLUFF STP	TODAY	87	GAL
HITE CREEK INFLUENT FLOW	TODAY	0.163	MG
HITE CREEK EFFLUENT FLOW	TODAY	0.026	MG
KEN CARLA STP	TODAY	123	GAL
HUNTING CREEK NORTH STP	TODAY	42,443	GAL
HUNTING CREEK SOUTH STP	TODAY	22,017	GALLONS
SHADOW WOODS STP	TODAY	8,835	GALLONS
TIMBERLAKE STP	TODAY	17,360	GALLONS

CHENOWETH HILLS STP

Pen Name	Description	Value
CHHL_EFF_FLOW	CHENOWETH HILL STP EFF FLO	0.117

YORKTOWN STP	TODAY	0.030	MG
JTOWN EFFLUENT FLOW	TODAY	0.308	MG
LAKE OF THE WOODS STP	TODAY	0.021	MG
STARVIEW ESTATES	TODAY	0.012	MG

[SCADA Overview](#)



SILVER_HEIGHTS.bmp - Windows Picture and Fax Viewer

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10/29/2008 8:39:35 AM 24 Hours Ago

EAST

BANCROFT STP TODAY 10,063 GALLONS

FLOYDS FORK INFLUENT FLOW TODAY 0.000 MGD

FLOYDS FORK EFFLUENT FLOW TODAY 0.430 MGD

GLENVIEW BLUFF STP TODAY 50 GALLONS

HITE CREEK INFLUENT FLOW TODAY 0.436 MGD

HITE CREEK EFFLUENT FLOW TODAY 0.696 MGD

KEN CARLA STP TODAY 1,302 GALLONS

HUNTING CREEK NORTH STP TODAY 57,395 GALLONS

HUNTING CREEK SOUTH STP TODAY 38,335 GALLONS

SHADOW WOODS STP TODAY 9,081 GALLONS

TIMBERLAKE STP TODAY 20,120 GALLONS

YORKTOWN STP TODAY 0.032 MGD

JTOWN EFFLUENT FLOW TODAY 0.670 MGD

LAKE OF THE WOODS STP TODAY 0.021 MGD

STARVIEW ESTATES TODAY 0.024 MGD

SCADA Overview

SILVER HEIGHTS STP

Pen Name Description Value

SILH_EFF_FLOW	SILVER HEIGHTS EFF FLOW (M)	0.264
---------------	-----------------------------	-------

8:39:35 AM 10/29/2008 11:05:34 PM 3:54:14 AM 8:39:35 AM

10/29/2008 10/29/2008 10/29/2008 10/30/2008 10/30/2008

ALLONS
UENT FLOW
MG
LUENT FLOW
MG
STP
MG
STP INFLUENT FLOW
MG
STP EFFLUENT FLOW
MG
LOW
MG

ATTACHMENT 3

Examples of daily and peak flow data from WWTPs

WEST COUNTY WASTEWATER TREATMENT PLANT (DEREK R GUTHRIE WATER QUALITY TREATMENT CENTER)

Total MG	Peak MGD	Total MG	Peak MGD	Total MG	Peak MGD	Total MG	Peak MGD	Total MG	Peak MGD
March 1, 2008	27.4	43.8	56	May 1, 2008	19.6	31	June 1, 2008	18.9	31
March 2, 2008	26.8	40	45	May 2, 2008	24.9	57	June 2, 2008	18.8	31
March 3, 2008	24.9	35.1	45	May 3, 2008	62.1	74	June 3, 2008	21.7	31
March 4, 2008	71.9	80	90	May 4, 2008	39.9	65	June 4, 2008	18.1	28
March 5, 2008	75.2	81	81	May 5, 2008	27.7	43	June 5, 2008	20.3	29
March 6, 2008	52.6	75	81	May 6, 2008	25.2	34	June 6, 2008	18.7	28
March 7, 2008	36.8	42	82	May 7, 2008	24.5	34	June 7, 2008	18.7	28
March 8, 2008	36.7	43	43	May 8, 2008	38.1	60	June 8, 2008	17.9	28
March 9, 2008	37.4	78	36	May 9, 2008	39.3	55	June 9, 2008	17.5	21
March 10, 2008	47.9	65	34	May 10, 2008	31.1	42	June 10, 2008	17.6	23
March 11, 2008	50.6	56	55	May 11, 2008	36.4	51	June 11, 2008	16.7	20
March 12, 2008	43.5	47	45	May 12, 2008	37.3	51	June 12, 2008	17.7	28
March 13, 2008	38.0	47	41	May 13, 2008	31.1	38	June 13, 2008	19.0	30
March 14, 2008	36.5	47	41	May 14, 2008	36.6	53	June 14, 2008	21.9	31
March 15, 2008	42.4	63	33	May 15, 2008	41.8	82	June 15, 2008	17.9	30
March 16, 2008	45.9	62	31	May 16, 2008	78.4	84	June 16, 2008	18.8	30
March 17, 2008	36.0	45	32	May 17, 2008	47.2	70	June 17, 2008	17.7	28
March 18, 2008	48.8	78	30	May 18, 2008	36.1	43	June 18, 2008	17.2	27
March 19, 2008	65.3	86	30	May 19, 2008	30.6	43	June 19, 2008	16.9	27
March 20, 2008	73.8	83	30	May 20, 2008	28.9	36	June 20, 2008	18.5	29
March 21, 2008	62.6	80	30	May 21, 2008	26.1	34	June 21, 2008	19.0	29
March 22, 2008	39.4	45	55	May 22, 2008	23.3	33	June 22, 2008	18.2	28
March 23, 2008	32.7	41	32	May 23, 2008	22.5	42	June 23, 2008	18.0	29
March 24, 2008	30.0	37	31	May 24, 2008	21.4	32	June 24, 2008	16.6	29
March 25, 2008	27.9	34	30	May 25, 2008	19.7	31	June 25, 2008	16.8	28
March 26, 2008	26.6	34	31	May 26, 2008	20.6	32	June 26, 2008	16.5	21
March 27, 2008	50.5	80	31	May 27, 2008	20.9	32	June 27, 2008	16.3	21
March 28, 2008	56.6	78	53	May 28, 2008	21.1	32	June 28, 2008	17.0	23
March 29, 2008	43.0	54	32	May 29, 2008	19.8	31	June 29, 2008	17.0	22
March 30, 2008	35.1	42	30	May 30, 2008	19.9	30	June 30, 2008	17.3	23
March 31, 2008	33.5	42	30	May 31, 2008	19.8	29	July 1, 2008	16.2	22
July 2, 2008	16.0	21	22	July 13, 2008	16.3	27	July 2, 2008	16.2	22
July 3, 2008	16.4	20	23	July 14, 2008	17.8	28	July 3, 2008	16.0	21
July 4, 2008	17.3	23	28	July 15, 2008	17.3	28	July 4, 2008	16.4	20
July 5, 2008	15.5	23	23	July 16, 2008	17.2	28	July 5, 2008	18.1	28
July 6, 2008	17.7	23	28	July 17, 2008	16.1	26	July 6, 2008	20.3	29
July 7, 2008	16.7	23	28	July 18, 2008	16.3	26	July 7, 2008	17.6	28
July 8, 2008	16.8	23	28	July 19, 2008	16.8	27	July 8, 2008	18.7	28
July 9, 2008	16.5	26	21	July 20, 2008	16.8	27	July 9, 2008	17.9	28
July 10, 2008	16.1	21	22	July 21, 2008	16.3	28	July 10, 2008	19.3	29
July 11, 2008	16.2	22	22	July 22, 2008	17.4	23	July 11, 2008	17.6	27
July 12, 2008	16.5	22	22	July 23, 2008	17.0	22	July 12, 2008	17.2	27
July 13, 2008	16.3	23	22	July 24, 2008	16.5	23	July 13, 2008	17.6	26
July 14, 2008	16.7	22	22	July 25, 2008	16.6	21	July 14, 2008	21.2	37
July 15, 2008	16.7	22	22	July 26, 2008	16.3	21	July 15, 2008	17.8	28
July 16, 2008	16.1	26	26	July 27, 2008	16.0	23	July 16, 2008	18.3	29
July 17, 2008	15.7	27	21	July 28, 2008	17.0	22	July 17, 2008	16.8	28
July 18, 2008	15.0	21	21	July 29, 2008	18.0	27	July 18, 2008	17.4	23
July 19, 2008	15.0	20	20	July 30, 2008	17.0	22	July 19, 2008	17.0	22
July 20, 2008	16.2	21	21	July 31, 2008	25.7	33	July 20, 2008	16.8	27
July 21, 2008	15.3	20	20	September 1, 2008	15.7	23	July 21, 2008	16.3	28
July 22, 2008	16.1	22	22				July 22, 2008	16.8	28
July 23, 2008	15.4	26	26				July 23, 2008	16.6	27
July 24, 2008	15.1	27	27				July 24, 2008	16.5	23
July 25, 2008	16.5	21	21				July 25, 2008	16.6	21
July 26, 2008	16.4	28	28				July 26, 2008	16.3	21
July 27, 2008	16.6	28	28				July 27, 2008	16.0	23
July 28, 2008	16.1	22	22				July 28, 2008	16.3	21
July 29, 2008	15.7	21	21				July 29, 2008	17.0	22
July 30, 2008	16.0	21	21				July 30, 2008	17.3	23
August 1, 2008	20.5	33	33				August 1, 2008	17.0	22

FLOYD'S FORK WASTEWATER TREATMENT PLANT

Total MG	Peak MGD	Total MG	Peak MGD	Total MG	Peak MGD	Total MG	Peak MGD				
March 1, 2008	2,187	April 1, 2008	3,227	May 1, 2008	1,764	June 1, 2008	2,949	July 1, 2008	1,614	August 1, 2008	2,885
March 2, 2008	2,158	April 2, 2008	2,665	May 2, 2008	2,072	June 2, 2008	2,832	July 2, 2008	1,687	August 2, 2008	2,885
March 3, 2008	3,590	April 3, 2008	6,699	May 3, 2008	2,072	June 3, 2008	4,360	July 3, 2008	1,586	August 3, 2008	2,182
March 4, 2008	3,568	April 4, 2008	2,756	May 4, 2008	4,651	June 4, 2008	4,394	July 4, 2008	3,068	August 4, 2008	4,769
March 5, 2008	7,097	April 5, 2008	15,000	May 5, 2008	2,774	June 5, 2008	1,838	July 5, 2008	1,566	August 5, 2008	2,033
March 6, 2008	4,590	April 6, 2008	4,673	May 6, 2008	2,209	June 6, 2008	3,269	July 6, 2008	1,982	August 6, 2008	2,047
March 7, 2008	2,785	April 7, 2008	3,102	May 7, 2008	1,989	June 7, 2008	2,667	July 7, 2008	2,444	August 7, 2008	1,862
March 8, 2008	2,686	April 8, 2008	4,505	May 8, 2008	1,662	June 8, 2008	2,989	July 8, 2008	1,961	August 8, 2008	3,977
March 9, 2008	4,134	April 9, 2008	2,379	May 9, 2008	1,971	June 9, 2008	2,592	July 9, 2008	3,833	August 9, 2008	3,077
March 10, 2008	2,633	April 10, 2008	4,198	May 10, 2008	3,208	June 10, 2008	1,731	July 10, 2008	1,961	August 10, 2008	1,853
March 11, 2008	2,578	April 11, 2008	3,548	May 11, 2008	1,715	June 11, 2008	2,813	July 11, 2008	2,944	August 11, 2008	1,916
March 12, 2008	3,304	April 12, 2008	3,468	May 12, 2008	2,874	June 12, 2008	4,595	July 12, 2008	4,563	August 12, 2008	2,924
March 13, 2008	4,830	April 13, 2008	3,400	May 13, 2008	1,580	June 13, 2008	3,059	July 13, 2008	2,219	August 13, 2008	1,861
March 14, 2008	3,553	April 14, 2008	2,768	May 14, 2008	1,531	June 14, 2008	1,531	July 14, 2008	1,878	August 14, 2008	1,812
March 15, 2008	3,208	April 15, 2008	3,102	May 15, 2008	1,531	June 15, 2008	1,531	July 15, 2008	1,878	August 15, 2008	1,810
March 16, 2008	4,483	April 16, 2008	3,102	May 16, 2008	1,531	June 16, 2008	1,531	July 16, 2008	1,878	August 16, 2008	4,045
March 17, 2008	2,696	April 17, 2008	2,726	May 17, 2008	1,531	June 17, 2008	1,531	July 17, 2008	1,878	August 17, 2008	1,821
March 18, 2008	4,196	April 18, 2008	2,462	May 18, 2008	1,531	June 18, 2008	1,531	July 18, 2008	1,878	August 18, 2008	2,998
March 19, 2008	2,755	April 19, 2008	3,867	May 19, 2008	1,531	June 19, 2008	1,531	July 19, 2008	1,878	August 19, 2008	1,717
March 20, 2008	4,299	April 20, 2008	2,175	May 20, 2008	1,531	June 20, 2008	1,531	July 20, 2008	1,878	August 20, 2008	4,228
March 21, 2008	3,174	April 21, 2008	1,992	May 21, 2008	1,531	June 21, 2008	1,531	July 21, 2008	1,878	August 21, 2008	1,646
March 22, 2008	6,059	April 22, 2008	2,927	May 22, 2008	1,531	June 22, 2008	1,531	July 22, 2008	1,878	August 22, 2008	3,084
March 23, 2008	3,207	April 23, 2008	1,954	May 23, 2008	1,531	June 23, 2008	1,531	July 23, 2008	1,878	August 23, 2008	1,610
March 24, 2008	6,008	April 24, 2008	1,872	May 24, 2008	1,531	June 24, 2008	1,531	July 24, 2008	1,878	August 24, 2008	1,725
March 25, 2008	2,535	April 25, 2008	1,872	May 25, 2008	1,531	June 25, 2008	1,531	July 25, 2008	1,878	August 25, 2008	2,877
March 26, 2008	3,518	April 26, 2008	1,813	May 26, 2008	1,531	June 26, 2008	1,531	July 26, 2008	1,878	August 26, 2008	1,795
March 27, 2008	6,760	April 27, 2008	2,607	May 27, 2008	1,531	June 27, 2008	1,531	July 27, 2008	1,878	August 27, 2008	2,651
March 28, 2008	2,849	April 28, 2008	1,813	May 28, 2008	1,531	June 28, 2008	1,531	July 28, 2008	1,878	August 28, 2008	1,812
March 29, 2008	9,928	April 29, 2008	2,547	May 29, 2008	1,531	June 29, 2008	1,531	July 29, 2008	1,878	August 29, 2008	3,851
March 30, 2008	1,830	April 30, 2008	2,169	May 30, 2008	1,531	June 30, 2008	1,531	July 30, 2008	1,878	August 30, 2008	1,844
March 31, 2008	5,791	May 1, 2008	1,963	June 1, 2008	1,531	July 1, 2008	1,531	August 1, 2008	1,531	September 1, 2008	3,025
	3,137	May 2, 2008	1,911	June 2, 2008	1,531	July 2, 2008	1,531	August 2, 2008	1,531	September 2, 2008	3,005
	5,020	May 3, 2008	1,911	June 3, 2008	1,531	July 3, 2008	1,531	August 3, 2008	1,531	September 3, 2008	3,005
	4,592	May 4, 2008	1,819	June 4, 2008	1,531	July 4, 2008	1,531	August 4, 2008	1,531	September 4, 2008	3,005
	2,760	May 5, 2008	1,819	June 5, 2008	1,531	July 5, 2008	1,531	August 5, 2008	1,531	September 5, 2008	3,005
	2,480	May 6, 2008	1,819	June 6, 2008	1,531	July 6, 2008	1,531	August 6, 2008	1,531	September 6, 2008	3,005
	4,479	May 7, 2008	1,819	June 7, 2008	1,531	July 7, 2008	1,531	August 7, 2008	1,531	September 7, 2008	3,005
	2,480	May 8, 2008	1,819	June 8, 2008	1,531	July 8, 2008	1,531	August 8, 2008	1,531	September 8, 2008	3,005
	4,635	May 9, 2008	1,819	June 9, 2008	1,531	July 9, 2008	1,531	August 9, 2008	1,531	September 9, 2008	3,005
	2,248	May 10, 2008	1,819	June 10, 2008	1,531	July 10, 2008	1,531	August 10, 2008	1,531	September 10, 2008	3,005
	2,248	May 11, 2008	1,819	June 11, 2008	1,531	July 11, 2008	1,531	August 11, 2008	1,531	September 11, 2008	3,005
	2,839	May 12, 2008	1,819	June 12, 2008	1,531	July 12, 2008	1,531	August 12, 2008	1,531	September 12, 2008	3,005
	6,426	May 13, 2008	1,819	June 13, 2008	1,531	July 13, 2008	1,531	August 13, 2008	1,531	September 13, 2008	3,005
	2,022	May 14, 2008	1,819	June 14, 2008	1,531	July 14, 2008	1,531	August 14, 2008	1,531	September 14, 2008	3,005
	5,443	May 15, 2008	1,819	June 15, 2008	1,531	July 15, 2008	1,531	August 15, 2008	1,531	September 15, 2008	3,005
	10,540	May 16, 2008	1,819	June 16, 2008	1,531	July 16, 2008	1,531	August 16, 2008	1,531	September 16, 2008	3,005
	10,888	May 17, 2008	1,819	June 17, 2008	1,531	July 17, 2008	1,531	August 17, 2008	1,531	September 17, 2008	3,005
	5,705	May 18, 2008	1,819	June 18, 2008	1,531	July 18, 2008	1,531	August 18, 2008	1,531	September 18, 2008	3,005
	3,547	May 19, 2008	1,819	June 19, 2008	1,531	July 19, 2008	1,531	August 19, 2008	1,531	September 19, 2008	3,005
	5,240	May 20, 2008	1,819	June 20, 2008	1,531	July 20, 2008	1,531	August 20, 2008	1,531	September 20, 2008	3,005
	2,866	May 21, 2008	1,819	June 21, 2008	1,531	July 21, 2008	1,531	August 21, 2008	1,531	September 21, 2008	3,005
	2,608	May 22, 2008	1,819	June 22, 2008	1,531	July 22, 2008	1,531	August 22, 2008	1,531	September 22, 2008	3,005
		May 23, 2008	1,819	June 23, 2008	1,531	July 23, 2008	1,531	August 23, 2008	1,531	September 23, 2008	3,005
		May 24, 2008	1,819	June 24, 2008	1,531	July 24, 2008	1,531	August 24, 2008	1,531	September 24, 2008	3,005
		May 25, 2008	1,819	June 25, 2008	1,531	July 25, 2008	1,531	August 25, 2008	1,531	September 25, 2008	3,005
		May 26, 2008	1,819	June 26, 2008	1,531	July 26, 2008	1,531	August 26, 2008	1,531	September 26, 2008	3,005
		May 27, 2008	1,819	June 27, 2008	1,531	July 27, 2008	1,531	August 27, 2008	1,531	September 27, 2008	3,005
		May 28, 2008	1,819	June 28, 2008	1,531	July 28, 2008	1,531	August 28, 2008	1,531	September 28, 2008	3,005
		May 29, 2008	1,819	June 29, 2008	1,531	July 29, 2008	1,531	August 29, 2008	1,531	September 29, 2008	3,005
		May 30, 2008	1,819	June 30, 2008	1,531	July 30, 2008	1,531	August 30, 2008	1,531	September 30, 2008	3,005
		May 31, 2008	1,819	June 31, 2008	1,531	July 31, 2008	1,531	August 31, 2008	1,531	September 31, 2008	3,005

JEFFERSONTOWN WASTEWATER TREATMENT PLANT

New Effluent Flow meter

Date	Total MG	Peak MGD	Date	Total MG	Peak MGD	Date	Total MG	Peak MGD
March 1, 2008	4.462	5.538	April 1, 2008	6.662	8.863	June 1, 2008	2.791	4.134
March 2, 2008	5.425	5.381	April 2, 2008	5.662	6.888	June 2, 2008	2.804	3.835
March 3, 2008	4.447	8.137	April 3, 2008	5.770	16.778	June 3, 2008	4.114	3.727
March 4, 2008	5.649	18.313	April 4, 2008	16.831	19.569	June 4, 2008	4.145	6.953
March 5, 2008	8.701	14.670	April 5, 2008	11.519	14.468	June 5, 2008	3.834	4.449
March 6, 2008	10.914	8.876	April 6, 2008	7.945	9.548	June 6, 2008	3.034	3.834
March 7, 2008	7.472	7.041	April 7, 2008	6.314	28.787	June 7, 2008	3.870	4.817
March 8, 2008	5.999	7.208	April 8, 2008	5.573	6.374	June 8, 2008	2.855	3.999
March 9, 2008	5.914	8.662	April 9, 2008	4.954	5.740	June 9, 2008	2.825	3.989
March 10, 2008	6.175	10.363	April 10, 2008	4.367	6.917	June 10, 2008	2.647	3.792
March 11, 2008	9.778	10.881	April 11, 2008	5.610	5.984	June 11, 2008	2.651	3.648
March 12, 2008	7.195	7.899	April 12, 2008	5.403	9.024	June 12, 2008	2.585	3.576
March 13, 2008	6.016	7.002	April 13, 2008	5.003	5.934	June 13, 2008	2.594	3.583
March 14, 2008	6.151	8.103	April 14, 2008	4.491	5.934	June 14, 2008	2.593	3.583
March 15, 2008	6.645	9.271	April 15, 2008	4.147	10.999	June 15, 2008	3.732	7.296
March 16, 2008	6.513	7.958	April 16, 2008	3.913	18.337	June 16, 2008	3.108	4.120
March 17, 2008	6.340	6.340	April 17, 2008	4.921	17.792	June 17, 2008	3.319	5.218
March 18, 2008	7.706	12.564	April 18, 2008	3.692	8.831	June 18, 2008	3.122	4.314
March 19, 2008	11.086	14.274	April 19, 2008	4.821	7.070	June 19, 2008	2.662	5.389
March 20, 2008	7.686	14.274	April 20, 2008	3.524	5.833	June 20, 2008	3.009	5.986
March 21, 2008	6.070	9.021	April 21, 2008	3.288	4.817	June 21, 2008	3.040	6.758
March 22, 2008	5.043	7.326	April 22, 2008	3.209	4.562	June 22, 2008	4.871	4.945
March 23, 2008	4.714	6.387	April 23, 2008	3.115	3.652	June 23, 2008	3.605	5.779
March 24, 2008	4.421	5.349	April 24, 2008	3.025	4.029	June 24, 2008	4.562	4.562
March 25, 2008	4.140	5.694	April 25, 2008	3.017	4.174	June 25, 2008	3.282	4.188
March 26, 2008	4.421	5.694	April 26, 2008	3.503	2.986	June 26, 2008	2.961	3.910
March 27, 2008	9.853	13.136	April 27, 2008	3.241	4.544	June 27, 2008	2.901	6.123
March 28, 2008	10.739	14.584	April 28, 2008	3.216	4.262	June 28, 2008	3.263	4.914
March 29, 2008	7.335	8.789	April 29, 2008	3.101	4.098	June 29, 2008	3.777	5.470
March 30, 2008	5.739	7.008	April 30, 2008	2.951	4.167	June 30, 2008	3.164	4.123
March 31, 2008	5.570	6.870				May 1, 2008	2.902	4.068
						May 2, 2008	3.825	6.987
						May 3, 2008	8.033	12.916
						May 4, 2008	5.201	6.502
						May 5, 2008	4.427	5.244
						May 6, 2008	3.869	4.970
						May 7, 2008	3.830	6.350
						May 8, 2008	6.452	10.845
						May 9, 2008	5.782	6.917
						May 10, 2008	4.900	5.984
						May 11, 2008	6.259	9.024
						May 12, 2008	5.821	7.514
						May 13, 2008	5.628	5.934
						May 14, 2008	6.695	10.999
						May 15, 2008	8.139	18.337
						May 16, 2008	12.136	17.792
						May 17, 2008	6.928	8.371
						May 18, 2008	5.761	7.070
						May 19, 2008	5.109	5.833
						May 20, 2008	4.562	4.817
						May 21, 2008	3.983	5.144
						May 22, 2008	3.652	4.739
						May 23, 2008	3.337	4.291
						May 24, 2008	3.293	4.646
						May 25, 2008	3.099	4.407
						May 26, 2008	2.986	4.387
						May 27, 2008	2.886	4.073
						May 28, 2008	3.351	4.347
						May 29, 2008	3.345	4.046
						May 30, 2008	3.010	3.925
						May 31, 2008	2.890	4.128
						July 1, 2008	2.854	3.848
						July 2, 2008	2.853	3.727
						July 3, 2008	2.855	3.621
						July 4, 2008	4.984	14.583
						July 5, 2008	5.769	12.231
						July 6, 2008	4.260	4.817
						July 7, 2008	3.528	6.071
						July 8, 2008	3.349	4.299
						July 9, 2008	3.454	5.088
						July 10, 2008	3.182	3.991
						July 11, 2008	2.917	3.837
						July 12, 2008	2.857	3.803
						July 13, 2008	3.322	4.626
						July 14, 2008	2.955	3.987
						July 15, 2008	2.952	3.801
						July 16, 2008	2.710	3.515
						July 17, 2008	3.150	3.716
						July 18, 2008	2.410	3.808
						July 19, 2008	2.407	3.985
						July 20, 2008	2.368	4.137
						July 21, 2008	2.413	19.263
						July 22, 2008	5.041	19.021
						July 23, 2008	2.604	18.542
						July 24, 2008	2.501	17.025
						July 25, 2008	2.278	3.860
						July 26, 2008	2.231	3.812
						July 27, 2008	2.145	3.760
						July 28, 2008	2.132	10.616
						July 29, 2008	2.658	8.487
						July 30, 2008	2.891	19.600
						July 31, 2008	3.303	9.403

Note: Data points prior through July 16, 2008, are calculated from adding the influent flow meter readings together for each timestep. Beginning July 17, 2008, the data points are taken from the effluent flow meter downstream from the UV disinfection unit.

CHENOWETH HILLS WASTEWATER TREATMENT PLANT

Total MG	Peak MGD	Total MG	Peak MGD	Total MG	Peak MGD	Total MG	Peak MGD
March 1, 2008	0.0758	0.1200	0.0931	0.1836	June 1, 2008	0.0639	0.1092
March 2, 2008	0.0745	0.1322	0.0973	0.2161	June 2, 2008	0.0639	0.1092
March 3, 2008	0.0745	0.1322	0.0973	0.2161	June 3, 2008	0.0639	0.1092
March 4, 2008	0.2729	0.3408	0.2956	0.3731	June 4, 2008	0.0639	0.1092
March 5, 2008	0.1602	0.2385	0.1817	0.2480	June 5, 2008	0.0639	0.1092
March 6, 2008	0.0999	0.1966	0.1113	0.1406	June 6, 2008	0.0639	0.1092
March 7, 2008	0.0886	0.1383	0.0763	0.1195	June 7, 2008	0.0639	0.1092
March 8, 2008	0.0843	0.1556	0.1098	0.2030	June 8, 2008	0.0639	0.1092
March 9, 2008	0.0943	0.1711	0.1098	0.1477	June 9, 2008	0.0639	0.1092
March 10, 2008	0.1183	0.2020	0.0793	0.1350	June 10, 2008	0.0639	0.1092
March 11, 2008	0.1083	0.1688	0.0821	0.1275	June 11, 2008	0.0639	0.1092
March 12, 2008	0.0874	0.1558	0.0821	0.1275	June 12, 2008	0.0639	0.1092
March 13, 2008	0.0854	0.1495	0.0797	0.1209	June 13, 2008	0.0639	0.1092
March 14, 2008	0.0916	0.1514	0.0797	0.1209	June 14, 2008	0.0639	0.1092
March 15, 2008	0.1115	0.1964	0.0797	0.1209	June 15, 2008	0.0639	0.1092
March 16, 2008	0.1088	0.1519	0.0635	0.1242	June 16, 2008	0.0639	0.1092
March 17, 2008	0.0630	0.1392	0.0635	0.1242	June 17, 2008	0.0639	0.1092
March 18, 2008	0.1189	0.2034	0.0621	0.1214	June 18, 2008	0.0639	0.1092
March 19, 2008	0.2605	0.3544	0.0611	0.1158	June 19, 2008	0.0639	0.1092
March 20, 2008	0.1749	0.2348	0.0726	0.1134	June 20, 2008	0.0639	0.1092
March 21, 2008	0.1060	0.1566	0.0733	0.2025	June 21, 2008	0.0639	0.1092
March 22, 2008	0.0902	0.1270	0.0715	0.1294	June 22, 2008	0.0639	0.1092
March 23, 2008	0.0852	0.1303	0.0635	0.1247	June 23, 2008	0.0639	0.1092
March 24, 2008	0.0773	0.1186	0.0610	0.1167	June 24, 2008	0.0639	0.1092
March 25, 2008	0.0712	0.1261	0.0592	0.1266	June 25, 2008	0.0639	0.1092
March 26, 2008	0.0666	0.1219	0.0577	0.1195	June 26, 2008	0.0639	0.1092
March 27, 2008	0.1162	0.2189	0.0729	0.1195	June 27, 2008	0.0639	0.1092
March 28, 2008	0.1576	0.2639	0.0711	0.1533	June 28, 2008	0.0639	0.1092
March 29, 2008	0.1292	0.1416	0.0647	0.1238	June 29, 2008	0.0639	0.1092
March 30, 2008	0.0742	0.1327	0.0631	0.1148	June 30, 2008	0.0639	0.1092
March 31, 2008	0.0676	0.1228	0.0599	0.1280	May 1, 2008	0.0582	0.1035
					May 2, 2008	0.0582	0.1035
					May 3, 2008	0.0582	0.1035
					May 4, 2008	0.0582	0.1035
					May 5, 2008	0.0582	0.1035
					May 6, 2008	0.0582	0.1035
					May 7, 2008	0.0582	0.1035
					May 8, 2008	0.0582	0.1035
					May 9, 2008	0.0582	0.1035
					May 10, 2008	0.0582	0.1035
					May 11, 2008	0.0582	0.1035
					May 12, 2008	0.0582	0.1035
					May 13, 2008	0.0582	0.1035
					May 14, 2008	0.0582	0.1035
					May 15, 2008	0.0582	0.1035
					May 16, 2008	0.0582	0.1035
					May 17, 2008	0.0582	0.1035
					May 18, 2008	0.0582	0.1035
					May 19, 2008	0.0582	0.1035
					May 20, 2008	0.0582	0.1035
					May 21, 2008	0.0582	0.1035
					May 22, 2008	0.0582	0.1035
					May 23, 2008	0.0582	0.1035
					May 24, 2008	0.0582	0.1035
					May 25, 2008	0.0582	0.1035
					May 26, 2008	0.0582	0.1035
					May 27, 2008	0.0582	0.1035
					May 28, 2008	0.0582	0.1035
					May 29, 2008	0.0582	0.1035
					May 30, 2008	0.0582	0.1035
					May 31, 2008	0.0582	0.1035
					July 1, 2008	0.0622	0.1059
					July 2, 2008	0.0622	0.1059
					July 3, 2008	0.0622	0.1059
					July 4, 2008	0.0622	0.1059
					July 5, 2008	0.0622	0.1059
					July 6, 2008	0.0622	0.1059
					July 7, 2008	0.0622	0.1059
					July 8, 2008	0.0622	0.1059
					July 9, 2008	0.0622	0.1059
					July 10, 2008	0.0622	0.1059
					July 11, 2008	0.0622	0.1059
					July 12, 2008	0.0622	0.1059
					July 13, 2008	0.0622	0.1059
					July 14, 2008	0.0622	0.1059
					July 15, 2008	0.0622	0.1059
					July 16, 2008	0.0622	0.1059
					July 17, 2008	0.0622	0.1059
					July 18, 2008	0.0622	0.1059
					July 19, 2008	0.0622	0.1059
					July 20, 2008	0.0622	0.1059
					July 21, 2008	0.0622	0.1059
					July 22, 2008	0.0622	0.1059
					July 23, 2008	0.0622	0.1059
					July 24, 2008	0.0622	0.1059
					July 25, 2008	0.0622	0.1059
					July 26, 2008	0.0622	0.1059
					July 27, 2008	0.0622	0.1059
					July 28, 2008	0.0622	0.1059
					July 29, 2008	0.0622	0.1059
					July 30, 2008	0.0622	0.1059
					July 31, 2008	0.0622	0.1059

HUNTING CREEK NORTH WASTEWATER TREATMENT PLANT

Date	Total Gallons	Peak GPM	Total Gallons	Peak GPM	Total Gallons	Peak GPM	Total Gallons	Peak GPM	Total Gallons	Peak GPM	
March 1, 2008	355135.2	436.81	April 1, 2008	565090.0	536.59	June 1, 2008	291757.0	357.11	July 1, 2008	263516.5	293.62
March 2, 2008	364533.0	381.20	April 2, 2008	483305.6	485.93	June 2, 2008	271067.7	336.10	July 2, 2008	259324.0	273.70
March 3, 2008	370941.5	486.54	April 3, 2008	512600.6	1015.41	June 3, 2008	334304.6	435.26	July 3, 2008	253628.8	372.55
March 4, 2008	998471.2	1017.57	April 4, 2008	577436.9	1015.41	June 4, 2008	305545.2	345.99	July 4, 2008	274468.7	316.64
March 5, 2008	630516.3	617.83	April 5, 2008	648310.9	587.17	June 5, 2008	287712.0	317.87	July 5, 2008	281017.0	311.70
March 6, 2008	501400.5	547.71	April 6, 2008	554391.5	553.89	June 6, 2008	388622.3	449.47	July 6, 2008	264406.7	281.42
March 7, 2008	478574.1	447.31	April 7, 2008	482813.9	479.13	June 7, 2008	367568.2	327.45	July 7, 2008	261170.0	449.47
March 8, 2008	457460.9	433.41	April 8, 2008	432306.9	480.67	June 8, 2008	285362.6	352.16	July 8, 2008	262640.0	303.97
March 9, 2008	461673.6	501.06	April 9, 2008	396915.0	472.64	June 9, 2008	283195.4	316.95	July 9, 2008	262640.0	303.97
March 10, 2008	477832.0	501.37	April 10, 2008	386033.1	482.72	June 10, 2008	275803.2	329.00	July 10, 2008	276648.7	338.57
March 11, 2008	531090.1	711.74	April 11, 2008	455096.1	505.39	June 11, 2008	283075.4	298.24	July 11, 2008	276976.3	342.80
March 12, 2008	510201.5	469.55	April 12, 2008	405978.4	377.80	June 12, 2008	265747.0	302.43	July 12, 2008	263962.9	333.94
March 13, 2008	492607.5	518.67	April 13, 2008	407193.3	553.59	June 13, 2008	271606.4	312.62	July 13, 2008	260941.1	288.56
March 14, 2008	477046.2	424.45	April 14, 2008	375632.0	414.57	June 14, 2008	289015.8	333.32	July 14, 2008	269291.6	368.99
March 15, 2008	469485.3	598.68	April 15, 2008	346293.9	428.16	June 15, 2008	285976.8	401.90	July 15, 2008	284436.0	489.32
March 16, 2008	472351.6	472.33	April 16, 2008	355724.7	403.14	June 16, 2008	289762.9	417.35	July 16, 2008	260251.6	403.14
March 17, 2008	434362.3	356.05	April 17, 2008	336693.7	405.92	June 17, 2008	289462.3	400.05	July 17, 2008	262484.3	282.97
March 18, 2008	873009.9	1016.03	April 18, 2008	333597.2	354.33	June 18, 2008	267772.9	317.57	July 18, 2008	249664.2	384.91
March 19, 2008	1270228.5	1016.03	April 19, 2008	344134.1	363.29	June 19, 2008	196858.8	351.24	July 19, 2008	264336.1	295.84
March 20, 2008	829005.4	764.57	April 20, 2008	353055.4	380.89	June 20, 2008	263553.5	292.54	July 20, 2008	260368.8	401.28
March 21, 2008	599006.4	587.48	April 21, 2008	333397.4	409.62	June 21, 2008	273976.0	322.20	July 21, 2008	277955.2	345.99
March 22, 2008	539383.0	487.78	April 22, 2008	307598.8	361.12	June 22, 2008	274949.9	344.75	July 22, 2008	277435.3	417.86
March 23, 2008	480227.9	466.15	April 23, 2008	306859.4	489.94	June 23, 2008	278303.9	554.81	July 23, 2008	275606.6	401.59
March 24, 2008	420722.3	487.16	April 24, 2008	306619.7	414.26	June 24, 2008	268655.4	368.23	July 24, 2008	275496.8	398.50
March 25, 2008	417454.4	691.35	April 25, 2008	308610.0	593.74	June 25, 2008	268216.7	345.68	July 25, 2008	267716.1	258.56
March 26, 2008	393203.7	410.55	April 26, 2008	323213.3	369.46	June 26, 2008	248000.3	410.24	July 26, 2008	244285.0	470.48
March 27, 2008	849395.9	1016.64	April 27, 2008	317240.4	346.29	June 27, 2008	283233.6	313.55	July 27, 2008	252526.6	288.22
March 28, 2008	801558.4	1015.41	April 28, 2008	308099.4	396.34	June 28, 2008	268292.1	318.18	July 28, 2008	252876.3	306.75
March 29, 2008	592494.0	552.34	April 29, 2008	298510.9	360.20	June 29, 2008	325407.8	383.06	July 29, 2008	235117.4	326.83
March 30, 2008	541724.3	582.85	April 30, 2008	288211.2	357.72	June 30, 2008	279580.3	359.27	August 1, 2008	236999.7	275.55
March 31, 2008	552322.1	534.42				June 31, 2008	291282.5	341.66	August 2, 2008	231373.3	256.09
									August 3, 2008	227144.9	292.54
									August 4, 2008	244128.1	248.78
									August 5, 2008	244128.1	248.78
									August 6, 2008	244128.1	248.78
									August 7, 2008	244128.1	248.78
									August 8, 2008	244128.1	248.78
									August 9, 2008	244128.1	248.78
									August 10, 2008	244128.1	248.78
									August 11, 2008	244128.1	248.78
									August 12, 2008	244128.1	248.78
									August 13, 2008	244128.1	248.78
									August 14, 2008	244128.1	248.78
									August 15, 2008	244128.1	248.78
									August 16, 2008	244128.1	248.78
									August 17, 2008	244128.1	248.78
									August 18, 2008	244128.1	248.78
									August 19, 2008	244128.1	248.78
									August 20, 2008	244128.1	248.78
									August 21, 2008	244128.1	248.78
									August 22, 2008	244128.1	248.78
									August 23, 2008	244128.1	248.78
									August 24, 2008	244128.1	248.78
									August 25, 2008	244128.1	248.78
									August 26, 2008	244128.1	248.78
									August 27, 2008	244128.1	248.78
									August 28, 2008	244128.1	248.78
									August 29, 2008	244128.1	248.78
									August 30, 2008	244128.1	248.78
									August 31, 2008	244128.1	248.78

SILVER HEIGHTS WASTEWATER TREATMENT PLANT

Total	Peak	Total	Peak	Total	Peak	Total	Peak	Total	Peak								
March 1, 2008	0.461298	1.04364	April 1, 2008	0.776881	1.25432	May 1, 2008	0.275071	0.575914	June 1, 2008	0.268039	0.537682	July 1, 2008	0.186307	0.474234	01-Aug-08 00:00:01	0.265594	0.4527152
March 2, 2008	0.449836	1.059095	April 2, 2008	0.585599	1.133118	May 2, 2008	0.374276	1.458493	June 2, 2008	0.253957	0.547443	July 2, 2008	0.195232	0.417293	02-Aug-08 00:00:01	0.214955	0.422174
March 3, 2008	0.453021	1.503232	April 3, 2008	0.600801	2.670514	May 3, 2008	1.051951	1.908324	June 3, 2008	0.296623	0.632041	July 3, 2008	0.18539	0.402651	03-Aug-08 00:00:01	0.224693	0.411599
March 4, 2008	1.785948	2.37117	April 4, 2008	1.13	6.662864	May 4, 2008	0.600546	1.399112	June 4, 2008	0.294804	0.597063	July 4, 2008	0.198578	0.575914	04-Aug-08 00:00:01	0.228701	0.477928
March 5, 2008	1.299096	2.151541	April 5, 2008	1.434134	2.183145	May 5, 2008	0.480505	1.04608	June 5, 2008	0.26159	0.47342	July 5, 2008	0.25183	0.497824	05-Aug-08 00:00:01	0.218173	0.477965
March 6, 2008	0.91325	1.679748	April 6, 2008	0.916973	1.458493	May 6, 2008	0.427593	1.17135	June 6, 2008	0.231132	0.462846	July 6, 2008	0.225937	0.467726	06-Aug-08 00:00:01	0.222887	0.574287
March 7, 2008	0.639118	1.364134	April 7, 2008	0.686468	1.129864	May 7, 2008	0.40892	1.11929	June 7, 2008	0.23003	0.483995	July 7, 2008	0.23191	0.481555	07-Aug-08 00:00:01	0.221815	0.463659
March 8, 2008	0.627903	1.351119	April 8, 2008	0.571789	1.085939	May 8, 2008	0.722405	1.953876	June 8, 2008	0.245823	0.46854	July 8, 2008	0.233442	0.501077	08-Aug-08 00:00:01	0.221364	0.469353
March 9, 2008	0.688177	1.452799	April 9, 2008	0.552768	1.034592	May 9, 2008	0.673715	1.222596	June 9, 2008	0.228823	0.425428	July 9, 2008	0.237539	0.465286	09-Aug-08 00:00:01	0.205887	0.457965
March 10, 2008	0.873457	1.820472	April 10, 2008	0.486107	1.168469	May 10, 2008	0.536043	1.429209	June 10, 2008	0.221174	0.438443	July 10, 2008	0.244196	0.476674	10-Aug-08 00:00:01	0.218201	0.493756
March 11, 2008	0.876711	1.48859	April 11, 2008	0.545559	1.098954	May 11, 2008	0.716528	1.827793	June 11, 2008	0.213063	0.471794	July 11, 2008	0.204989	0.399398	11-Aug-08 00:00:01	0.234246	0.516533
March 12, 2008	0.773143	1.519501	April 12, 2008	0.474457	0.950095	May 12, 2008	0.600545	1.80095	June 12, 2008	0.211192	0.423801	July 12, 2008	0.194906	0.444137	12-Aug-08 00:00:01	0.215333	0.466913
March 13, 2008	0.640794	1.38691	April 13, 2008	0.443657	0.979326	May 13, 2008	0.508165	0.935453	June 13, 2008	0.234178	0.641802	July 13, 2008	0.224308	0.638548	13-Aug-08 00:00:01	0.217873	0.461219
March 14, 2008	0.701914	1.371455	April 14, 2008	0.416661	0.847602	May 14, 2008	0.707101	1.634195	June 14, 2008	0.277404	0.648309	July 14, 2008	0.288621	0.49457	14-Aug-08 00:00:01	0.202091	0.452271
March 15, 2008	0.773442	1.778987	April 15, 2008	0.380908	0.764631	May 15, 2008	0.957482	2.670514	June 15, 2008	0.296311	0.469953	July 15, 2008	0.226329	0.501891	15-Aug-08 00:00:01	0.198919	0.422174
March 16, 2008	0.798862	1.325903	April 16, 2008	0.370422	0.737788	May 16, 2008	1.584801	2.670514	June 16, 2008	0.235667	0.527921	July 16, 2008	0.203424	0.463659	16-Aug-08 00:00:01	0.205315	0.454711
March 17, 2008	0.696935	1.305567	April 17, 2008	0.339785	0.709317	May 17, 2008	0.871048	1.464187	June 17, 2008	0.230563	0.452271	July 17, 2008	0.201552	0.41648	17-Aug-08 00:00:01	0.203781	0.501077
March 18, 2008	0.827056	1.794442	April 18, 2008	0.329175	0.672713	May 18, 2008	0.684175	1.247813	June 18, 2008	0.219683	0.484809	July 18, 2008	0.190423	0.434375	18-Aug-08 00:00:01	0.219436	0.478301
March 19, 2008	1.841855	2.670514	April 19, 2008	0.328506	0.713384	May 19, 2008	0.529568	1.106275	June 19, 2008	0.219677	0.440883	July 19, 2008	0.194389	0.431635	19-Aug-08 00:00:01	0.213955	0.448204
March 20, 2008	1.522841	2.641231	April 20, 2008	0.330936	1.057468	May 20, 2008	0.479299	1.030625	June 20, 2008	0.232838	0.450644	July 20, 2008	0.216687	0.478301	20-Aug-08 00:00:01	0.200551	0.446577
March 21, 2008	0.922709	1.682188	April 21, 2008	0.309584	0.75975	May 21, 2008	0.429804	0.956602	June 21, 2008	0.232831	0.451458	July 21, 2008	0.224078	0.496197	21-Aug-08 00:00:01	0.199256	0.490503
March 22, 2008	0.68988	1.278723	April 22, 2008	0.299488	0.645869	May 22, 2008	0.379768	0.904542	June 22, 2008	0.228711	0.475047	July 22, 2008	0.226907	0.4661	22-Aug-08 00:00:01	0.211286	0.461219
March 23, 2008	0.601575	1.309634	April 23, 2008	0.27879	0.591369	May 23, 2008	0.34811	0.828893	June 23, 2008	0.231831	0.427868	July 23, 2008	0.20362	0.428661	23-Aug-08 00:00:01	0.193335	0.472607
March 24, 2008	0.540689	1.246186	April 24, 2008	0.297776	0.626347	May 24, 2008	0.326484	0.682138	June 24, 2008	0.216371	0.46854	July 24, 2008	0.204315	0.389636	24-Aug-08 00:00:01	0.224439	0.49701
March 25, 2008	0.472578	1.239678	April 25, 2008	0.281775	0.623093	May 25, 2008	0.31554	0.630414	June 25, 2008	0.204116	0.423302	July 25, 2008	0.190854	0.378248	25-Aug-08 00:00:01	0.206462	0.513279
March 26, 2008	0.448561	1.037132	April 26, 2008	0.320729	0.974498	May 26, 2008	0.313802	0.65075	June 26, 2008	0.187527	0.396957	July 26, 2008	0.20095	0.423801	26-Aug-08 00:00:01	0.211337	0.49701
March 27, 2008	0.787017	1.577255	April 27, 2008	0.308848	0.70281	May 27, 2008	0.293958	0.701183	June 27, 2008	0.202359	0.406719	July 27, 2008	0.215902	0.420547	27-Aug-08 00:00:01	0.199716	0.449017
March 28, 2008	0.942402	1.64233	April 28, 2008	0.294727	0.59689	May 28, 2008	0.277273	0.632377	June 28, 2008	0.201947	0.477488	July 28, 2008	0.226701	0.467726	28-Aug-08 00:00:01	0.200917	0.467538
March 29, 2008	0.715874	1.508926	April 29, 2008	0.281607	0.49701	May 29, 2008	0.259497	1.806644	June 29, 2008	0.237886	0.501891	July 29, 2008	0.213836	0.49457	29-Aug-08 00:00:01	0.195066	0.407532
March 30, 2008	0.682524	1.129864	April 30, 2008	0.277238	0.662421	May 30, 2008	0.261828	0.486435	June 30, 2008	0.222079	0.449017	July 30, 2008	0.213684	0.475961	30-Aug-08 00:00:01	0.193484	0.484809
March 31, 2008	0.593933					May 31, 2008	0.266199	0.49945	June 31, 2008	0.222711	0.483955	July 31, 2008	0.227711	0.483955	31-Aug-08 00:00:01	0.186161	0.483182