WATERSHED-LEVEL ANALYSIS OF URBAN RAINGARDEN PERFORMANCE

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WATERSHED-LEVEL ANALYSIS OF

URBAN RAINGARDEN

PERFORMANCE

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University of Missouri-Kansas City, 2013

ABSTRACT

Urban flooding became to be a big issue for many cities in the world due to the urbanization. Best Management Practices (BMP) are considered to be an economically friendly solution for the urban storm water problem.

The City of Kansas City began the project of "10,000 Raingarndens in Metropolitan Area" in 2008. For the project, there are a test area and a control area. Both have similar drainage areas and similar precipitation. In the test area, there are 135 rain gardens completed in June 2012. There are four flow meters to monitor the flow rate in the combined sewer. This analysis examines the watershed-level runoff response from the rain garden installation.

APPROVAL PAGE

The faculty listed below, appointed by the Dean of the School of Computing and Engineering have examined a thesis titled "Watershed-level Analysis of Urban Raingarden Performance," presented by Yanan Ma, candidate for Master of Science degree, and certify that in their opinion is worthy of acceptance.

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INTRODUCTION

1.1. Literature Review

The hydrologic cycle is a continuous process in which water is evaporated from water surfaces and the oceans, moves inland as moist air masses, and produces precipitation if the correct vertical lifting condition exist (Philip, Wayne and Baxter 2013). When rainfall exceeds the infiltration rate at the surface, excess water begins to accumulate as surface storage in small depressions governed by surface topography. Then the entire area contributes to runoff at the outlet of a watershed (Philip, Wayne and Baxter 2013). Water that falls onto buildings or ground surfaces flows rapidly into drains. The natural behavior of water includes infiltrating into the ground and evaporating back to the atmosphere. However, human development significantly changes the patterns of water movement, especially in the urban area where there are a large amount of impervious surfaces, such as parking lots, streets and houses (Nigel and Andy 2007). Impervious surfaces associated with urbanization have led to increases in stormwater runoff volumes and pollutant mass loads entering surface waters (Hollis 1977, Jennings and Jarnagin 2002) The rapid conveyance of runoff from urban areas has been associated with increases in both peak runoff flow rates and also the runoff from urbanized areas always contains pollutants including sediment, nutrients, salt, metals, hydrocarbons, pathogens, pesticides, herbicides, oil and grease, and polycyclic aromatic hydrocarbons (PAHs) (Randall 2011).

The earliest documentation of increased runoff from urban runoff was in the late 1800s (Kuichlin 1889). Prior to the 1960s, the principal concern with urban stormwater runoff was safety and property protection from flooding. Regulations have been expanded in recent decades to require developers to use best management practices (BMPs) to detain and filter polluted runoff (Berke and MacDonald 2003). BMPs help manage and lessen the adverse impacts typically associated with stormwater runoffand include structural and nonstructural practices. Structural BMPs can be thought of as engineering solutions to stormwater management nonstructural (South Carolina Department of Health and Environmental Control). The traditional solution for stormwater is to discharge the water into conventional combined or separated sewer system (Martin 2006). Urban sprawl has become an issue to many communities and is a form of development that consumes green space, promotes automobile dependency and widens urban fringes, which can put pressure on environmentally sensitive areas. "Smart growth" strategies are designed to reconfigure development in a more eco-efficient and community oriented style (US EPA 2000). "Smart growth" covers a range of development and conservation strategies that help protect our natural environment and make our communities more attractive, economically stronger, and more socially diverse(US EPA).

Recently, the concept of low impact development (LID) has been introduced to mitigate the problems associated with urban stormwater runoff (Bedan and Clausen 2009). LID promotes a more environmentally sound technology and a more economically sustainable approach to addressing the adverse impacts of urbanization (South Carolina Department of Health and Environmental Control). LID techniques for stormwater such as

rooftop retention, permeable pavements, bioretention and disconnecting rooftop rain gutter spouts are valuable tools that can be used in urban areas (US EPA 2000). LID began in Prince George's County, Maryland in the 1990's and these first bioretention cells led to incorporating LID into the County's resources protection program (Naval Facilities Engineering Command). A developer of a new housing subdivision suggested replacing the traditional best management practices (BMP) pond with a bioretention area to the the Department of Environmental Resources. The proposal was approved in Somerset, a residential subdivision which has a 300-400 sq. ft. rain garden for each house's property instead of curbs, sidewalks and gutters. This solution saved them nearly $300,000 to install.(USEPA 1995) The final EPA guidance on implementing the stormwater runoff requirements was completed in December 2009. The intention of Energy Independence Security Act(EISA) Section 438 is to preserve or restore the hydrology of the site during the development or redevelopment process (USEPA 2009).

BMPs and LID types are varied for stormwater, and can consist of rain gardens and constructed wetlands, rain barrels and cisterns to collect water runoff from building roofs, green roofs to reduce the volume of runoff, and permeable pavement surfaces (Eichenwald and McGarity 2010). In contrast to traditional stormwater treatment, which typically only reduces peak flow rates, the use of LID will also help to maintain the pre-development runoff volume (Dietz 2007). A highly detailed bioretention conservation practice standard including the site criteria, design specifications, construction guidance, and maintenance recommendations is available through the Wisconsin DNR (WI DNR 2006).Underlying soils provide adequate infiltration for LID practices. There are often designed and

constructed without underdrains (Stander, Rowe, Borst and O'Connor 2013). The stormwater runoff increase in urban areas is due to the impermeable surfaces which includes roads, highways, sidewalks, driveways and roofs. Pervious surfaces can greatly reduce the volume of runoff generated by rainfall. However, they are more expensive to construction than asphalt pavements (US EPA 2000). Permeable pavements, especially Portland Cement Pervious Concrete (PCPC), help control pollution discharge by allowing rainwater to rapidly infiltrate through the pavement surface into an open-graded aggregate subbase detention layer(Kevern 2011).

The bioretention system is a structural stormwater BMP that is commonly used in suburban settings (Rusciano and Obropta 2005). Bioretention systems are designed based on soil types, site conditions and land uses. There are six typical components in bioretention cells: (1) grass buffer strip which reduces runoff velocity, (2) sand bed which provides aeration and drainage of the planting soil and help with the flushing of pollutants, (3) ponding area which provides the storage of excess runoff,. (4) organic layer which performs the function of decomposition of organic material by providing a medium for biological growth to degrade petroleum-based pollutants, (5) planting soil which provides the area for stormwater storage and nutrient uptake by plants, (6) vegetation which with the function to remove water through evapotranspiration and remove pollutant through nutrient cycling (US EPA 2000). The criteria for choosing the plants in the bioretention cells, are long deep roots to conserve water, ability to live in drought condition and native plants which can grow well locally. Bioretention facilities are less cost intensive than traditional structural stormwater conveyance systems. Based on the construction of Prince

George's County in Maryland, the cost is between $5,000 and $10,000 per acre drained (US EPA 2000).

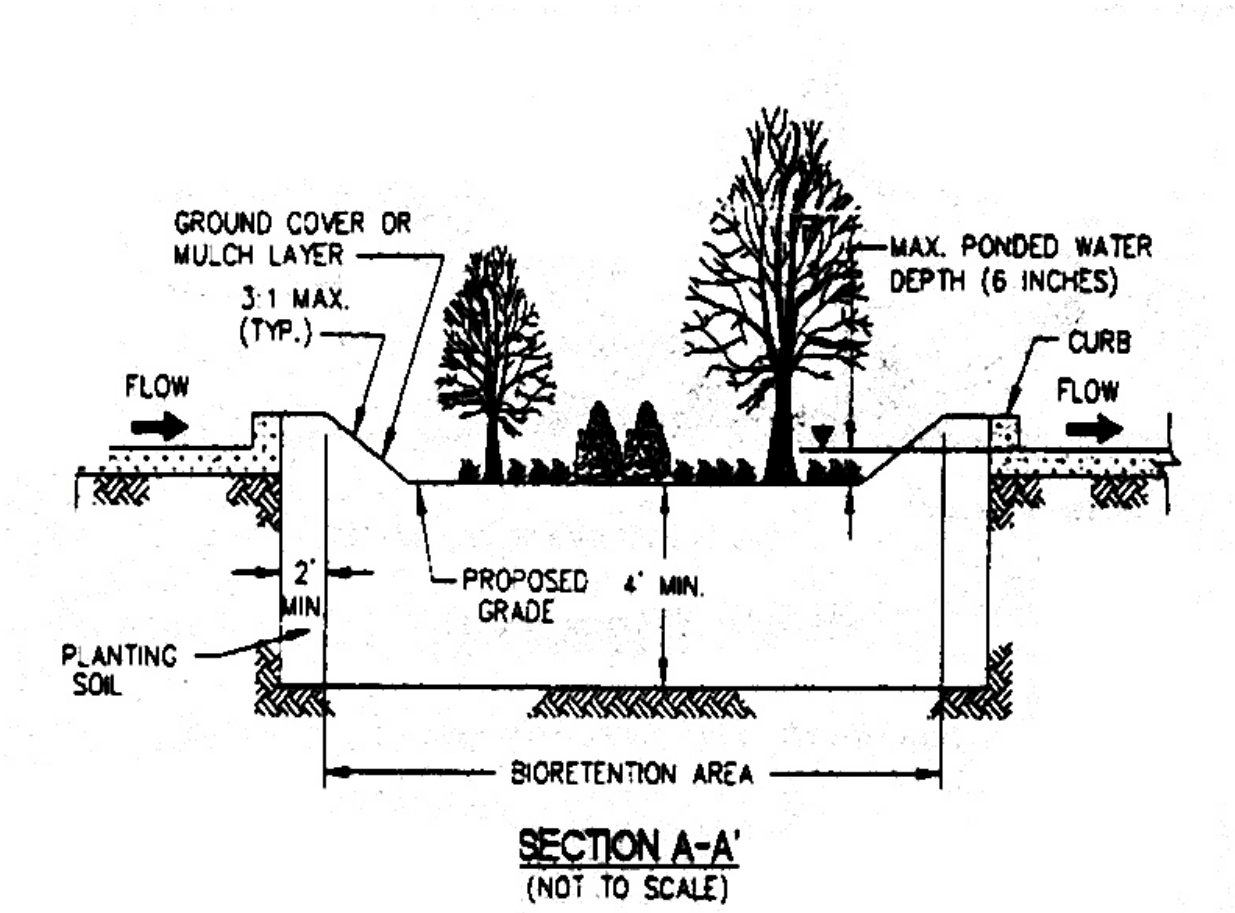

Figure 1-1 Typical Bioretention System

(Prince George's County Department of Environmental Resources, 1993)

Rain gardens, also referred to as bioretention practices, are shallow, vegetated depressions, designed to receive stormwater runoff from impervious surfaces such as parking lots, roofs, and roads (Stander, Borst and O'Connor 2010). Rain gardens are typically constructed by placing a porous soil medium in shallow trenches or basins and planting various types of vegetation (Yang and Dick 2013). The concept of raingardens has

mushroomed into one of the fastest growing areas of interest for the development of home landscapes beginning in the late 1980s in the state of Maryland. Rain gardens have the potential to be aesthetic additions to properties that bring other benefits (Nigel and Andy 2007).

Bioretention cells have been effective in retaining large volumes of runoff and pollutants on site, and consistently reducing concentrations of certain pollutants such as metals (Dietz 2007). In general, bioretention areas were found to be effective in reducing runoff volume and in treating the first flush (first ½ inch) of stormwater (US EPA 2000).

A laboratory study indicated an average removal rate of 87.8% of fecal coliform bacteria and a range of 54.7-99.7% in simulated bioretention columns (Rusciano and Obropta 2005). Laboratory studies from Greenbelt Maryland also shows the bioretention has the ability to reduce (>95%) of copper (Cu), lead (Pb) and zinc (Zn). Nutrient concentration reductions were also observed: total Kjeldahl-nitrogen (TKN) retention was 52% and about 50% of the phosphorous has been removed. Only the nitrate was not well removed by this system with a retention of 16% (US EPA 2000). Temperature also been studied on rain garden systems. However, there was no temperature difference been found between inflow and underdrain outflow from a rain garden (Dietz and Clausen 2005). The total suspended solids removal also been studied in 1999 in Taiwan and Virginia. Average pollutant removal efficiencies reported for the test swales vary from 14% to 99% for total suspended solids (TSS) (US EPA 2000).

A comparison of stormwater lag times for LID and traditional development has indicated that the LID had a significantly greater centroid lag-to-peak, and peak lag -to-

peak times than the traditional method. Preliminary data from Norway showed that there is no seasonal differences in retention time or lag time in rain gardens (Muthanna et al.2006). And LID has a significantly smaller depth of discharge and runoff coefficient than traditional solutions, The mean centroid lag-to-peak time of the LID watershed was 8.7 times greater than the traditional watershed (Mark, John and Glenn 2007). An earlier study was conducted in Burnsville, Minnesota with a paired watershed study has determined, with greater than 95 percent confidence, that the rainwater gardens designed to capture 0.9 inches of rainfall over the tributary impervious area reduced the runoff volumes by approximately 90 percent (Burnsville stormwater retrofit study, 2006). However, this study was done in over a relatively short time period and only received limited rainfall. It needs a future long-term monitoring study to tell if the rain gardens can work well consistently. Furthermore, the similar study near Long Island Sound in the town of Waterford, Connecticut showed that the post-construction storm flow in an LID watershed was reduced by 42% and the peak discharge in LID watershed was 88% lower than the control area (Bedan and Clausen 2009). The City of Seattle is also redeveloping a 129-acre housing project using an entirely new approach towards stormwater management, and the goal of their project is to infiltrate approximately 75% to 80% of the water quality storms(Johnson and Staeheli 2006).

1.2. Project Overview

Rain gardens otherwise known as bioretention cells are small, natural or excavated depressions in the ground, graded to collect stormwater, backfilled with engineered soil

media, and planted with native plant species (Hallam and Carpenter 2008). The benefits for native plants are (1)Be resilient to insects and disease, (2)Be best adapted to local conditions, (3)Conserve water ,(4)Provide nesting areas for wildlife. They can help reduce the amount of storm water runoff that get into the collection system and also help remove pollution from urban storm runoff.

A combined sewer is a type of sewer system that collects sanitary sewage and stormwater runoff in a single pipe system. Kansas City has the combined sewer overflow (CSO) in much of pre-1945 constructed areas, and the need to reduced overflows to surface waters. There were 36 sewer overflows per year when the rainfall was over 0.6 inch where the total overflow volume was 6.4 billion gal per year. The goal for the City is to reduce CSOs to 1.4 billion gallon and reduce the CSO frequency by 65%.The City of Kansas City began the program of "10,000 Rain Gardens" in mid-2005 to encourage raingarden construction and use on private properties.

The Marlborough neighborhood, in the Middle Blue River drainage basin, is located in a largely-residential, urban area of Kansas City, MO. The city introduced the rain garden project into this neighborhood to see if the rain gardens can perform well in reducing the water that gets into the collection system. The traditional solutions are enlarge the pipe diameter or build two pipes underground. Both of them will cost a huge amount of money and time.

The project described in this thesis analyzed the performance of rain gardens built by Kansas City in the Marlborough neighborhood on a watershed level. (Pitt, Voorhees,and Clark 2010). 135 city rain gardens were completed in the test area, and there

is also a control area next to the test area. The monitoring data can be analyzed to assess whether the rain gardens work well in reducing storm water runoff .

1.3. Experimental Plan

The study area is a 100 acre subcatchment. The selected pilot area contains commercial, medium density, and some high density residential land uses. An adjacent 80 acres subcatchment was selected as a control watershed (Pitt, Voorhees, and Clark 2010). Based on the survey data conducted by UMKC, the total area treated by rain gardens and stormwater BMPs is 54%. Table1-1 is the summary of test area characteristics.

Table1-1 Summary of test area characteristics for each category of stormwater control used in the test area

Design Plan Component	Structural Description	Number of this type of storm water control units in test(pilot) area	Drainage area to device area ratio	Device as a % of the drainage area	Average Drainage area for each unit (ac)	Total area treated by these devices(ac)
Bioretention	Bioretention without curb	24	61.8	1.6	0.4	9.6
	Curb extensions with biotention	28	66.1	1.5	0.4	11.2
	Shallow bioretention	5	61.8	1.6	0.4	2
Bioswale	Vegetated swale infiltrates to background soil	1	11.2	8.9	0.5	0.5
Cascade	Terraced bioretention cells in series	5	53.0	1.9	0.4	2
Porous sidewalk or pavement	With underdrain	18	1.0	100	0.015	0.3
	With underground storage cubes	5	1.0	100	0.015	0.1
Rain garden	Rain garden without curb	64	35.8	2.8	0.4	25.6
	Curb extensions with raingardens	8	66.0	1.5	0.4	3.2
	Total number of control units (without porous pavement):	135			Total area treated	54.4

Following figure shows the treated area (light area) and the untreated area in test area.

Figure 1-2 Map of treated area in test area

Following figure shows the map of test area and control area for the project

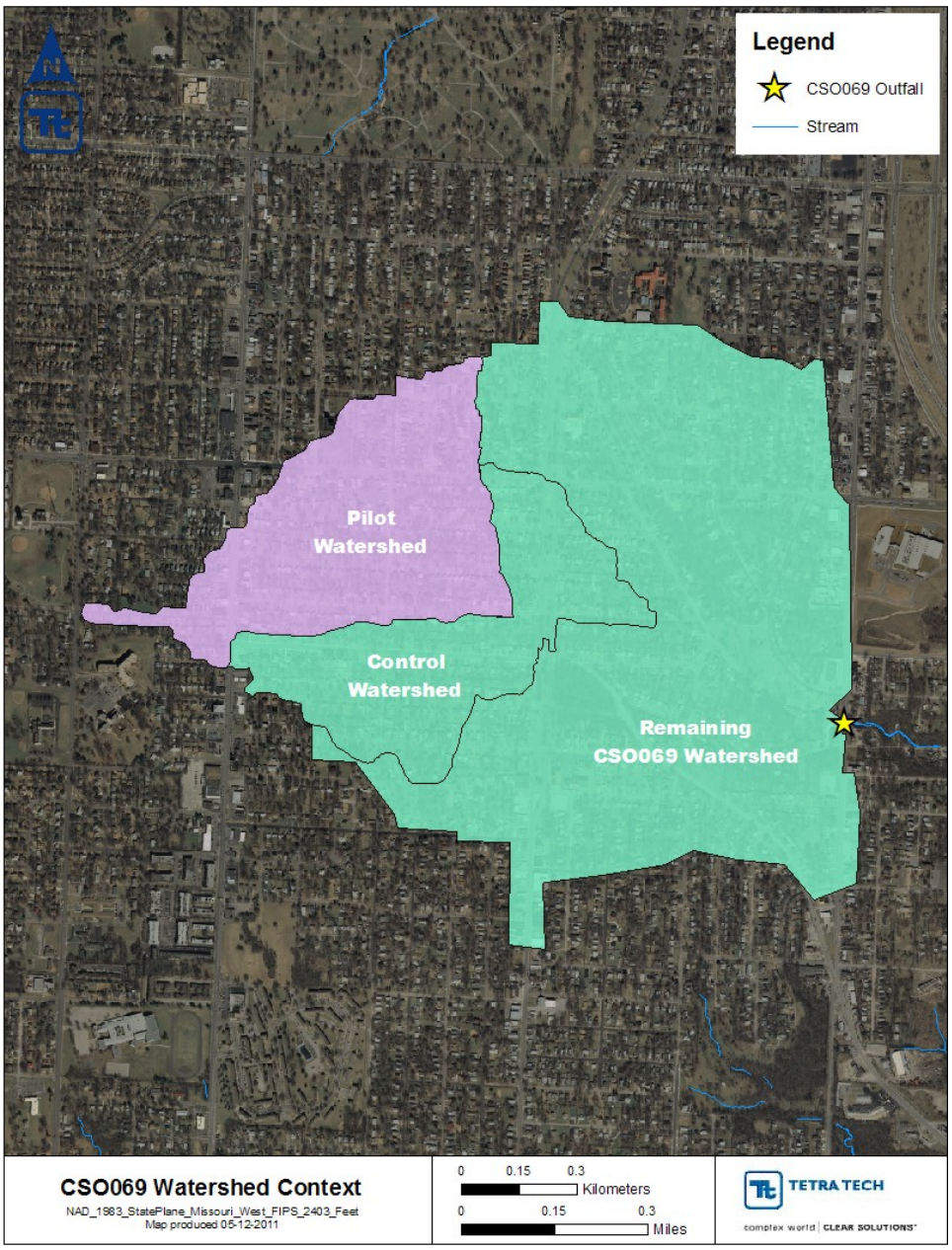

Figure 1-3 Watershed Map

There are four manholes were selected by Kansas City Water Services and GBA to monitor sewer flow rate data for this study. UMKC1 is located near 1461 E. 76th Terrace which monitors the flow from the whole test area (red line in the map). UMKC2a located near 1451 E. 77th Street, UMKC2b located near 1451 E. 77th Street and UMKC3 located at East 77th Street and The Paseo. The three monitoring locations collectively monitor the control area. The flowrate data from UMKC2a , UMKC2b and UMKC3 need to be added up to be the control area data and then calculated as the average runoff depth for each significant storm event. The runoff depth can then be compared between test area and control area. During the year of 2013, there are two flowmeters in the control area which were malfunctioning. This analysis only use the flowrate data from UMKC 2A with a drainage area of 17.5 acres to calculated the runoff volume in control area during the post-construction period.

This monitoring project started on 09/05/2008 and will continue until 10/31/2013. There are three different periods which affect the flow into the collection system. The first period began from 09/05/2008 to 08/2010 and is labeled as the pre-construction period. In this period there were no rain gardens built. Kansas City began to reline and rehabilitate the piping system in the test area in 08/2010 and finished the construction of relining in 01/2011. During the construction of the pipe system, the UMKC1 flow monitor was removed. Therefore, there is no flow data from this period.. The second period began from 1/1/2011 to 6/1/2012 which is the pre-construction after pipe-repair period. In this period, the city began to build 135 rain gardens in the test area. The third period is from 6/1/2012 until now, which is the post-construction period. During this period, the 135 rain gardens have been completed and can capture storm runoff.

CHAPTER 2

STUDY METHODOLOGY

2.1 Installation and instrumentation of flow monitoring devices and structures

The information of four manholes and the monitoring devices are summarized in Table 2-1:

Table 2-1 Flow Meter Installation Details

Monitor Information Four Manholes							
Site	Location	Manhole NO.	Manhole Depth (ft)	Pipe D (in)	Pipe Material	Meter	Monitoring Area
UMKC1	1461 E 76th Terr	S128-498	14.8	42	RCP	ISCO2150	Test
UMKC2a	1451 E 77th	S128-422	12.78	30	RCP	ISCO2150	Control
UMKC2b	1415 E77th sidewalk	S128-420	10.44	24	RCP	ISCO2150	Control
UMKC3	E 77th & Paseo	S128-426	9.52	30	RCP	ISCO2150	Control

The meter used in this monitoring is the 2150 Area Velocity Module. It uses continuous wave Doppler technology to measure mean velocity. The sensor transmits a continuous ultrasonic wave, then measures the frequency shift of returned echoes reflected by air bubbles or particles in the flow.

Figure 2-1Air monitor and computer connection for flow meter data collection

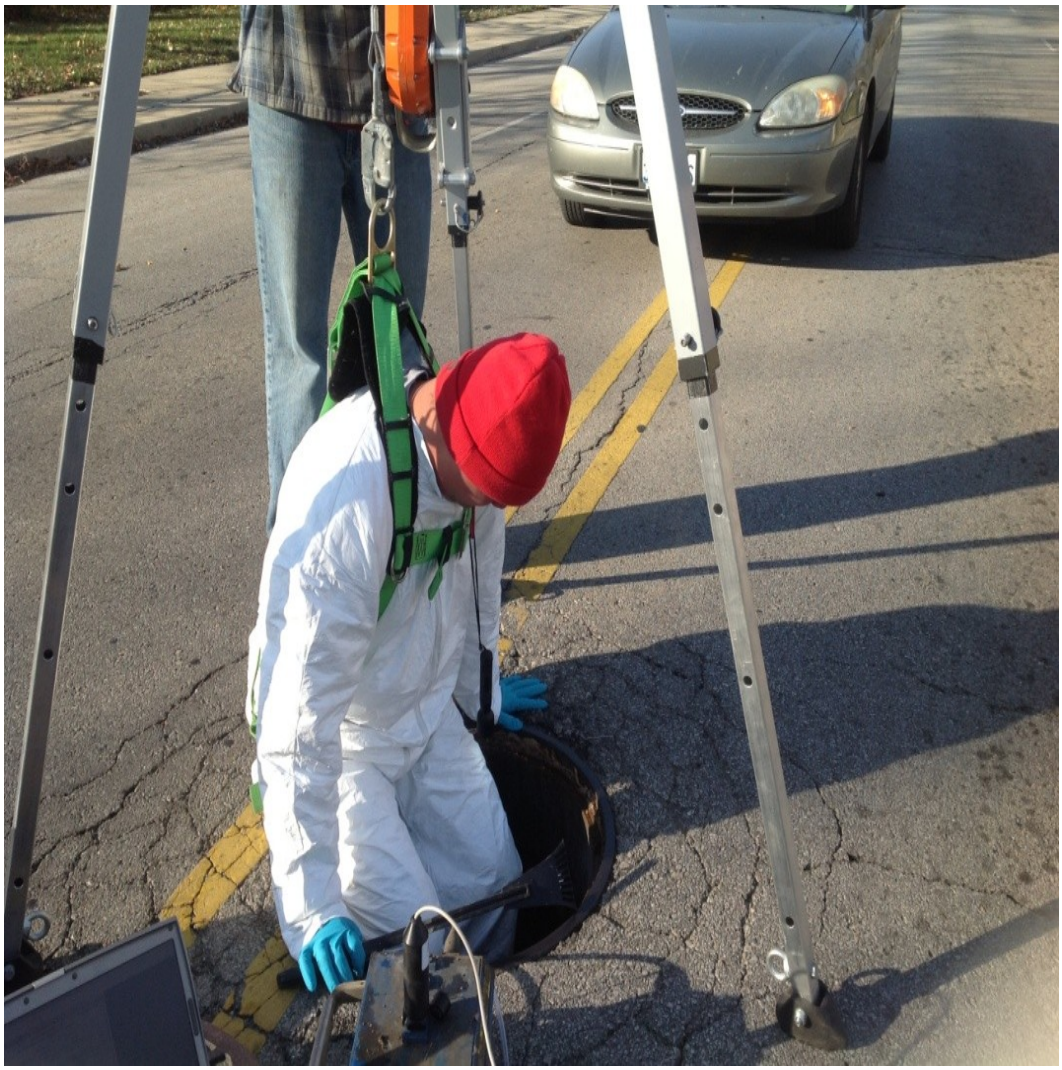

Figure 2-2 Typical confined space entry for flow meter inspection and data collection

And the four flow monitoring locations are showed in the Figure 2-3.

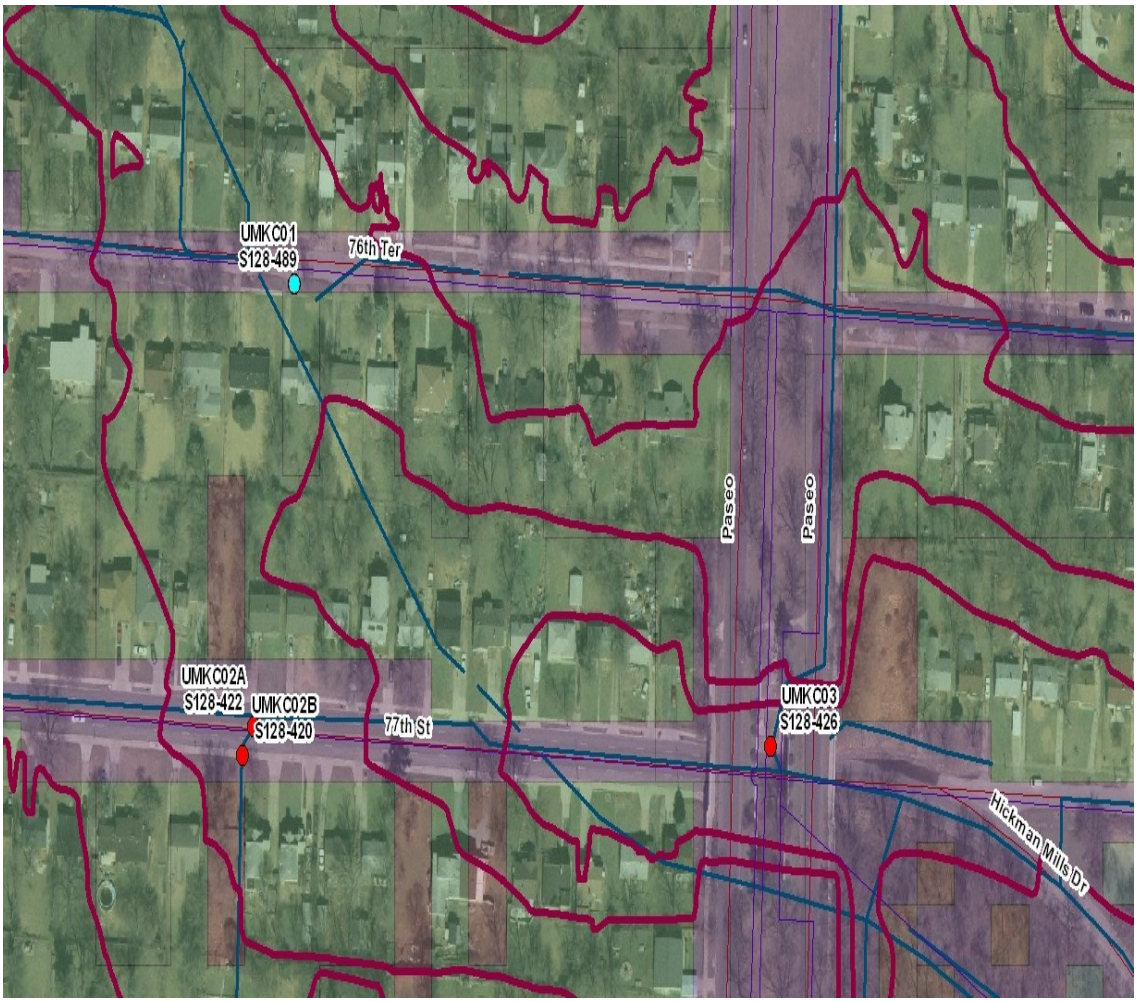

Figure 2-3 Map Locations for Flow Meter Monitoring

In order to get accurate rainfall data, UMKC group also installed a rain gauge for monitoring the rain fall in this watershed at 77th Street and the Paseo. The RainLogger is

comprised of our tipping bucket rain gauge and the RainLog rain logger. It will collect and record rainfall for one year at a resolution of one minute.

The Rainlog data logger is supplied with a polypropylene rain collector, RL-Loader software and serial cable. The tipping bucket rain gauge is calibrated to 0.01 inches / 0.25 mm per tip. The rain gauge is showed in Figure2-4.

Figure 2-4 Rain Gauge Located at The Paseo and 77th Street

2.2 Data Collection

The project started collecting flow monitoring data in August 2008 and will continue until 31 October 2013. During the first period ---pre-construction period, there are 29 significant rainfall/runoff events. The rain fall data, test area flow data and control area flow data are listed in Table 2-2 Pre-construction Period.

Table 2-2 Data from Pre-construction Period

Pre-Construction Period--9/5/2008 to 8/2010

Date Starts	Date ends	Rainfall(inch)		Test (gal)	Control (gal)	Test depth (inch)	Control depth (inch)
		Brooklyn PS	77th & Paseo				
12/27/2008	12/28/2008	1.06		120,000	110,000	0.05	0.05
3/9/2009	3/10/2009	1.50		1,300,000	2,300,000	0.49	1.08
3/29/2009	3/30/2009	0.95		610,000	900,000	0.23	0.42
4/29/2009	4/30/2009	0.87		500,000	300,000	0.19	0.14
5/15/2009	5/16/2009	1.30		400,000	280,000	0.15	0.13
6/2/2009	6/3/2009	2.60		390,000	230,000	0.14	0.11
6/9/2009	6/10/2009	2.01		380,000	990,000	0.14	0.46
7/4/2009	7/5/2009	1.77		600,000	420,000	0.22	0.19
7/12/2009	7/13/2009	0.95		320,000	240,000	0.12	0.11
7/27/2009	7/28/2009	0.83		620,000	400,000	0.23	0.19
8/16/2009	8/17/2009	1.26		910,000	510,000	0.33	0.23
8/19/2009	8/20/2009	0.91		710,000	360,000	0.26	0.17
8/26/2009	8/27/2009	0.75		160,000	95,000	0.06	0.04
10/8/2009	10/9/2009	1.38	1.95	720,000	430,000	0.26	0.20
10/22/2009	10/23/2009	0.75	0.90	850,000	770,000	0.31	0.35
10/29/2009	10/30/2009	0.75	0.79	850,000	1,100,000	0.31	0.53
11/15/2009	11/16/2009	1.42	0.81	450,000	610,000	0.16	0.28
11/17/2009	11/18/2009	0.91		550,000	750,000	0.20	0.34
12/23/2009	12/24/2009	1.38		590,000	750,000	0.22	0.34
4/5/2010	4/6/2010	0.83		580,000	550,000	0.21	0.25
4/22/2010	4/24/2010	2.60		3,000,000	1,900,000	1.1	0.88
4/30/2010	5/1/2010	0.83		460,000	370,000	0.17	0.17
5/19/2010	5/20/2010	1.18		1,400,000	900,000	0.52	0.41
6/2/2010	6/3/2010	0.98		250,000	210,000	0.09	0.10

During the second period ----pipe-repair period, there were 6 significant storm events. For this period, there was only have velocity data from flowmeter in the UMKC1 and a reconstruction was needed based on the velocity data. It will be discussed in section 2.3. The rain fall data are listed in the table below.

Table 2-3 Rainfall Data During Pipe Repair Period

Pipe repair period			
Starting Date	Ending Date	Rainfall (inch)	
		75 Terr & Troost	77th & Paseo
2/27/2011	2/28/2011	1.73	
11/25/2011	11/27/2011	1.14	
12/19/2011	12/21/2011	1.54	
2/3/2012	2/6/2012	1.57	
3/19/2012	3/20/2012	1.77	1.77
5/6/2012	5/8/2012	1.85	1.85

During the third period ----post-construction period, there were 8 significant storm events. The rain fall data are listed in Table 2-4. There were two flowmeters broken out of the three in control area during the post-construction period. So the control volume is calculated from UMKC2a data which has only 17.5 acres of drainage area as the control data in the following table and analysis only for the post construction period.

Table 2-4 Flow Data From Post Construction Period

Post Construction Period							
Starting Date	Ending Date	Rainfall(inch)		Test (gal)	Control (gal)	Test depth (inch)	Control depth (inch)
		75 Terr & Troost	77th & Paseo				
11/11/2012	11/12/2012	1.5	1.45	430,000	130,000	0.16	0.274
4/7/2013	4/8/2013	0.16	0.98	180,000	18,000	0.067	0.037
4/9/2013	4/11/2013	0	1.24	320,000	180,000	0.12	0.387
4/17/2013	4/18/2013	1.14	1.34	210,000	78,000	0.076	0.165
4/26/2013	4/27/2013	0.87	0.88	170,000	69,000	0.062	0.145
5/2/2013	5/3/2013	1.14	1.17	200,000	58,000	0.075	0.123
5/27/2013	5/28/2013	2.76	2.41	360,000	350,000	0.13	0.74
5/29/2013	5/31/2013	1.3	2.41	570,000	920,000	0.21	1.94

2.3 Reconstruction of UMKC1

There was a problem in monitoring data from UMKC1 after the pipe repair when only velocity data was downloaded from the flow meter. A data interpretation method was sought to reconstruct flow data from only velocity data. Both the pipe-repair period and post construction period have the same pipe system, so the continuity equation can be applied: Q = VA. A relationship was needed between flowrate and velocity based on the data and then it could be applied to the data during pipe-repair period to get reconstructed data for UMKC1. A similar reconstruction was done where a model was developed for each flow water distribution network based only on the actual and past readings of the same flow meter Quevedo, Puig, Cembrano 2010).

The observed data from post-construction period is listed in appendix A, and the model (relationship between flowrate and velocity) achieved from those real-time data is

$When\ velocity\ is\ <\ 2m/s\ ,\qquad q = 0.0109 + 0.1198/(1 + e^{(-(v-1.4389)/0.1420)}$

$When\ velocity\ is\ >2m/s,$

$$Upper\ boundary: q = -0.6121 + 0.3304e^{0.3957v} + 0.25$$

$$Lower\ boundary:\ q = -0.6121 + 0.3304e^{0.3957v} - 0.25$$

$$Central\ line: q = -0.6121 + 0.3304e^{0.3957v}$$

During the pre-construction after pipe repair period, there is only one storm event has got good flowrate data. So the graph of regression model vs. the monitoring data from rain event 2/27/2011 can to developed to show how well the model represents the real data.

Figure 2-5 Regression of UMKC1 model v.s. monitored data from 2/27/2011

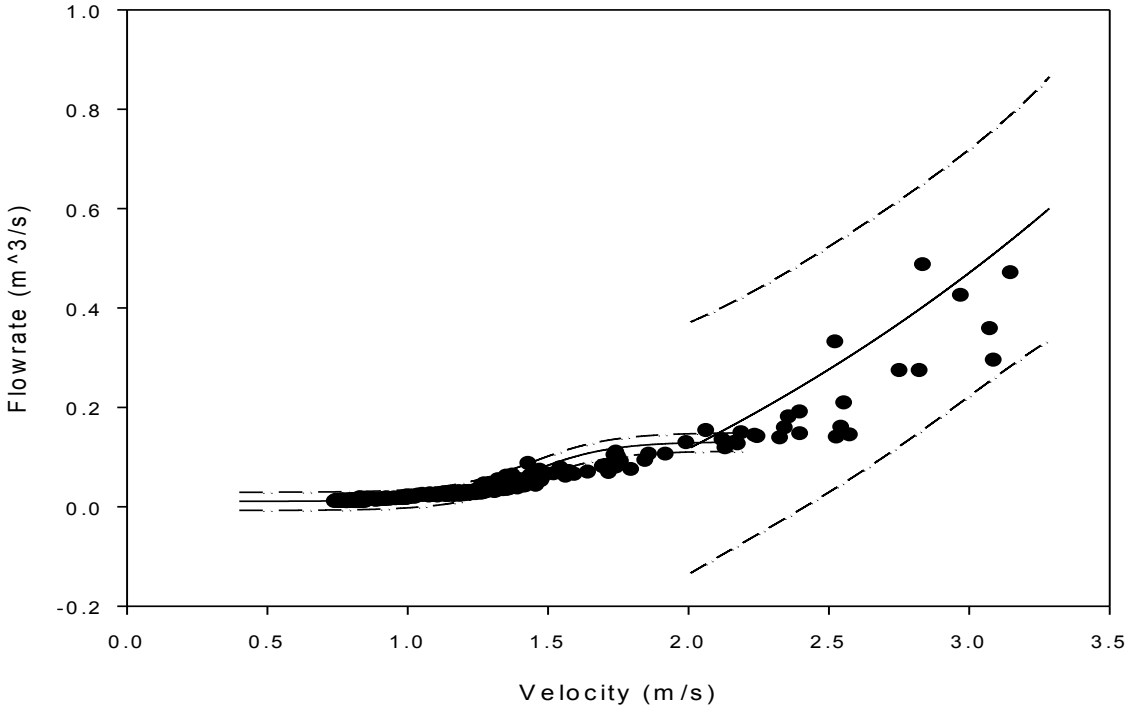

Figure 2-5 shows the reconstruction model fits the real data very well. When the velocity is greater than 2m/s, there is a upper boundary and a lower boundary which leads the reconstruction flowrate data to have a range.

The reconstructed data are reported in the table below:

Table 2-5 Data From Pre-construction After Pipe Repair Period

Event Time	Rain fall(inch)		Total Volume in Test Area (gal)				Total Volume in Test Area (inchl)			
	75 Terr & Troost	77th and Paseo	upper	normal	lower	control volume(gal)	upper	normal	lower	Control volume (inch)
2/28/2011	1.73			1,600,000		1000000		0.60		0.47
11/27/2011	1.14			1,100,000		280000		0.39		0.13
12/21/2011	1.54		2,700,000	2,400,000	2,300,000		0.98	0.90	0.83	
2/6/2012	1.57		2,300,000	2,200,000	2,100,000	680000	0.86	0.83	0.79	0.31
3/20/2012	1.77	1.77	1,900,000	1,900,000	1,800,000	1100000	0.71	0.69	0.66	0.49
5/8/2012	1.85	1.85	1,800,000	1,500,000	1,200,000	910000	0.68	0.57	0.46	0.42

2.4 Data Analysis

The data analysis focused on the flow data from the test area, and compared the three different periods. The volume (inch) data achieved from total volume (gal) divided the test area (100 acres). So the runoff depth comparison between the pre-construction period and the pre-construction after pipe-repair period from test area can be displayed in the Figure 2-6 and the runoff depth comparison between the pre-construction after pipe-repair period and post-construction period data from test area displayed in the Figure 2-7.

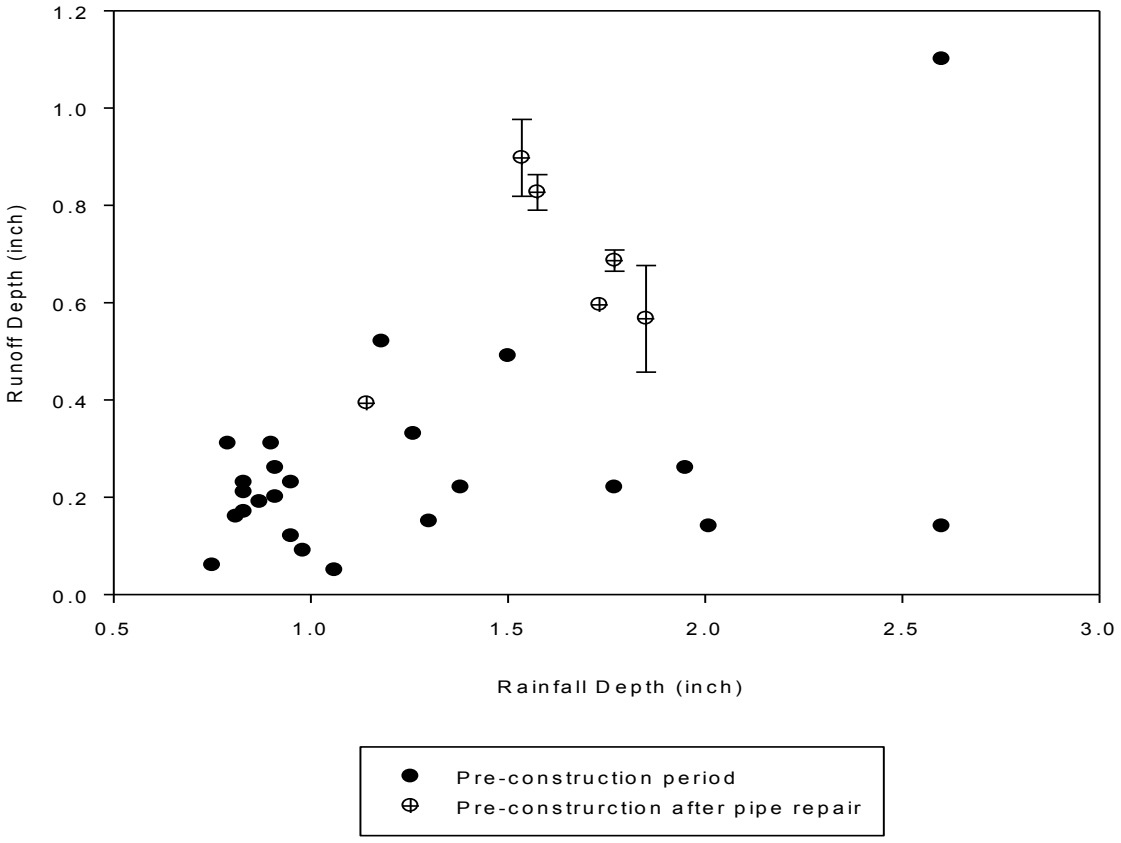

Figure 2-6 Test area volume comparison before/after pipe repair

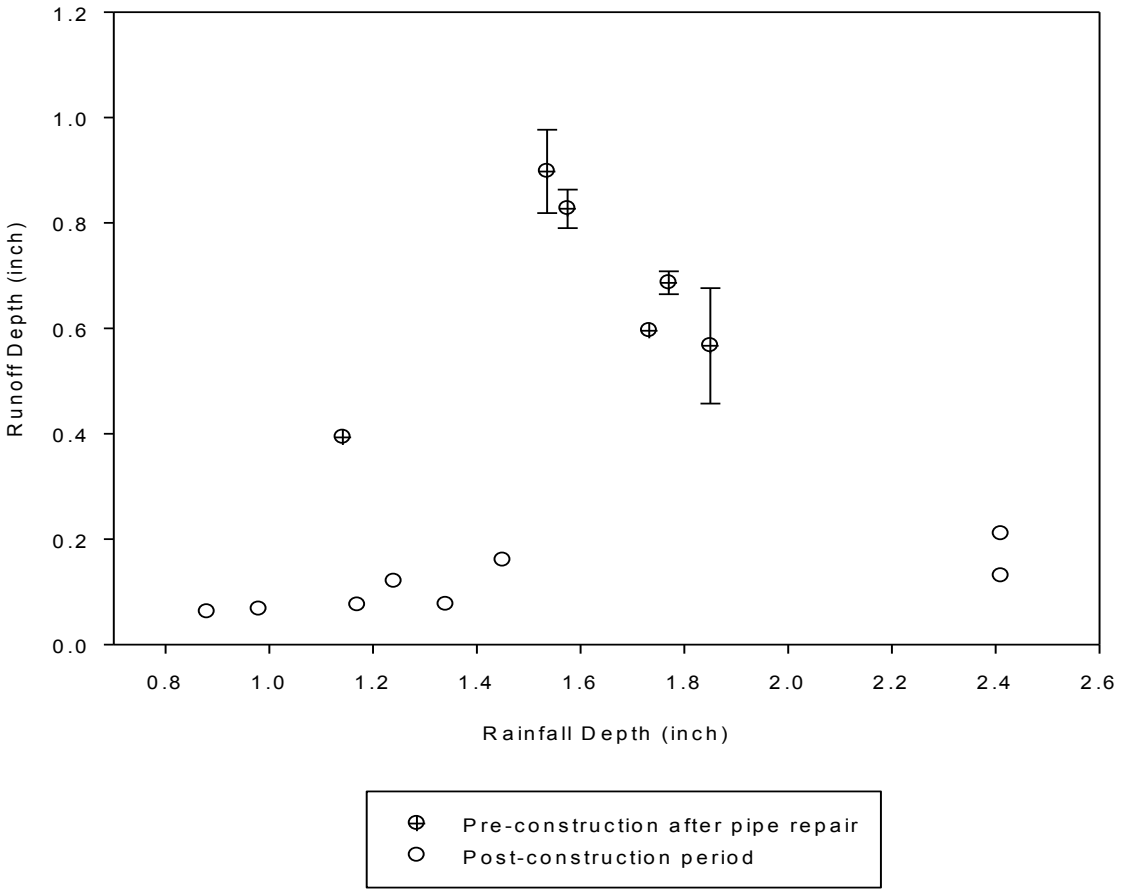

Figure 2-7 Test area volume comparison before/after rain garden completed

From Figure 2-6, there is an increase of runoff depth from the pipe-repair to the pre-construction period in the test area. One can suppose that there was more exfiltration than infiltration in the previous pipe system. That is why the monitoring data before pipe repair were lower than the data after pipes were repaired.

Figure 2-7 shows that the runoff depths decreased from the pre-construction after pipe repair to the post-construction period in the test area. Both periods are post-repair. The only difference is the rain gardens completion in the post-construction period, from which

one can conclude that the rain gardens intercept and infiltrate runoff from entering the combined sewer pipe system. The error bars showed in the figures are due to the reconstruction boundary value showed in Table 2-5.

Table 2-6 is the Summary data table for three periods.

Table 2-6 Summary Data Table For Three Periods.

Pre Construction Period--9/5/2008 to 8/2010

Date Starts	Date ends	Rainfall (inch)		Test (gal)	Control (gal)	Test depth (inch)	Control depth (inch)
		Brooklyn PS	77th & Paseo				
12/27/2008	12/28/2008	1.06		120,000	110,000	0.05	0.05
3/9/2009	3/10/2009	1.50		1,300,000	2,300,000	0.49	1.08
3/29/2009	3/30/2009	0.95		610,000	900,000	0.23	0.42
4/29/2009	4/30/2009	0.87		500,000	300,000	0.19	0.14
5/15/2009	5/16/2009	1.30		400,000	280,000	0.15	0.13
6/2/2009	6/3/2009	2.60		390,000	230,000	0.14	0.11
6/9/2009	6/10/2009	2.01		380,000	990,000	0.14	0.46
7/4/2009	7/5/2009	1.77		600,000	420,000	0.22	0.19
7/12/2009	7/13/2009	0.95		320,000	240,000	0.12	0.11
7/27/2009	7/28/2009	0.83		620,000	400,000	0.23	0.19
8/16/2009	8/17/2009	1.26		910,000	510,000	0.33	0.23
8/19/2009	8/20/2009	0.91		710,000	360,000	0.26	0.17
8/26/2009	8/27/2009	0.75		160,000	95,000	0.06	0.04
10/8/2009	10/9/2009	1.38	1.95	720,000	430,000	0.26	0.20
10/22/2009	10/23/2009	0.75	0.90	850,000	770,000	0.31	0.35
10/29/2009	10/30/2009	0.75	0.79	850,000	1,100,000	0.31	0.53
11/15/2009	11/16/2009	1.42	0.81	450,000	610,000	0.16	0.28
11/17/2009	11/18/2009	0.91		550,000	750,000	0.20	0.34
12/23/2009	12/24/2009	1.38		590,000	750,000	0.22	0.34
4/5/2010	4/6/2010	0.83		580,000	550,000	0.21	0.25
4/22/2010	4/24/2010	2.60		3,000,000	1,900,000	1.1	0.88
4/30/2010	5/1/2010	0.83		460,000	370,000	0.17	0.17
5/19/2010	5/20/2010	1.18		1,400,000	900,000	0.52	0.41
6/2/2010	6/3/2010	0.98		250,000	210,000	0.09	0.10

Pre-construction after pipe repair

Date Starts	Date ends	Rainfall (inch)		Test (gal)	Control (gal)	Test depth (inch)	Error	Control depth (inch)
		Brooklyn PS	77th & Paseo					
2/27/2011	2/28/2011	1.73		1,600,000	1000000	0.60	0	0.47
11/25/2011	11/27/2011	1.14		1,100,000	280000	0.39	0	0.13
12/19/2011	12/21/2011	1.54		2,400,000		0.90	0.0789	
2/3/2012	2/6/2012	1.57		2,200,000	680000	0.83	0.0365	0.31
3/19/2012	3/20/2012	1.77	1.77	1,900,000	1100000	0.69	0.0219	0.49
5/6/2012	5/8/2012	1.85	1.85	1,500,000	910000	0.57	0.1095	0.42

Post Construction Period

Starting Date	Ending Date	Rainfall (inch)		Test (gal)	Control (gal)	Test depth (inch)	Control depth (inch)
		75 Terr & Troost	77th & Paseo				
11/11/2012	11/12/2012	1.5	1.45	430,000	130,000	0.16	0.125
4/7/2013	4/8/2013	0.16	0.98	180,000	18,000	0.067	0.017
4/9/2013	4/11/2013	0	1.24	320,000	180,000	0.12	0.177
4/17/2013	4/18/2013	1.14	1.34	210,000	78,000	0.076	0.075
4/26/2013	4/27/2013	0.87	0.88	170,000	69,000	0.062	0.067
5/2/2013	5/3/2013	1.14	1.17	200,000	58,000	0.075	0.056
5/27/2013	5/28/2013	2.76	2.41	360,000	350,000	0.13	0.341
5/29/2013	5/31/2013	1.3	2.41	570,000	920,000	0.21	0.892

CHAPTER 3

RESULTS AND DISCUSSIONS

3.1 Results

The runoff depth data and the runoff percentages suggest that the extensive raingarden installation has provided significant infiltration and reduced the flow to the combined sewer. From the runoff depth comparison among three different periods, a decrease in the runoff depth during post-construction period from earlier periods is observed in Figure 3-1.

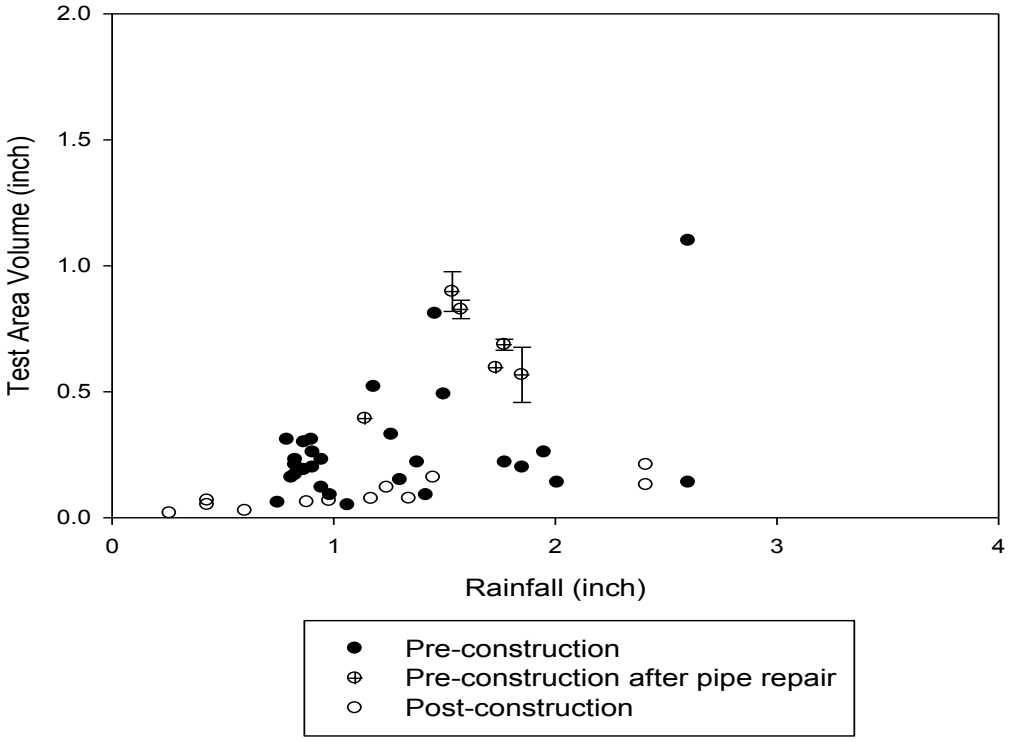

Figure 3-1 Test Area Volume (inch) Comparison Among Three Periods

Figure 3-2 Average Runoff Depth in Test Area During Three Periods has been developed normalized for rainfall differences. There is an 60% increase of the runoff depth from the pre-construction period to the pre-construction after pipe repair period. There is an 80% decrease on the runoff depth which occurred from pre-construction after pipe repair period to the post-construction period.

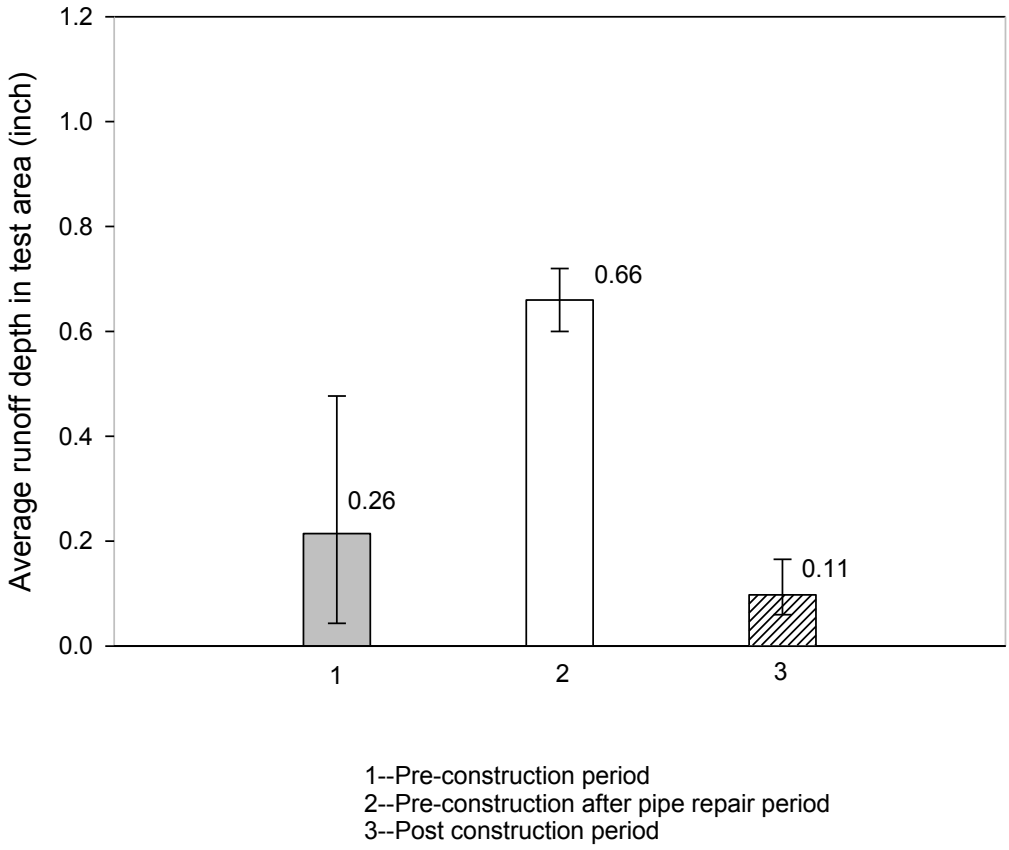

Figure 3-2 Average Runoff Depth in Test Area During Three Periods

However, the rainfall depths are different during each period. So in order to compare how much percentage of the rainfall comes into the sewer system flow, a calculation of runoff percentage (test area depth divide by the rainfall depth) is needed.

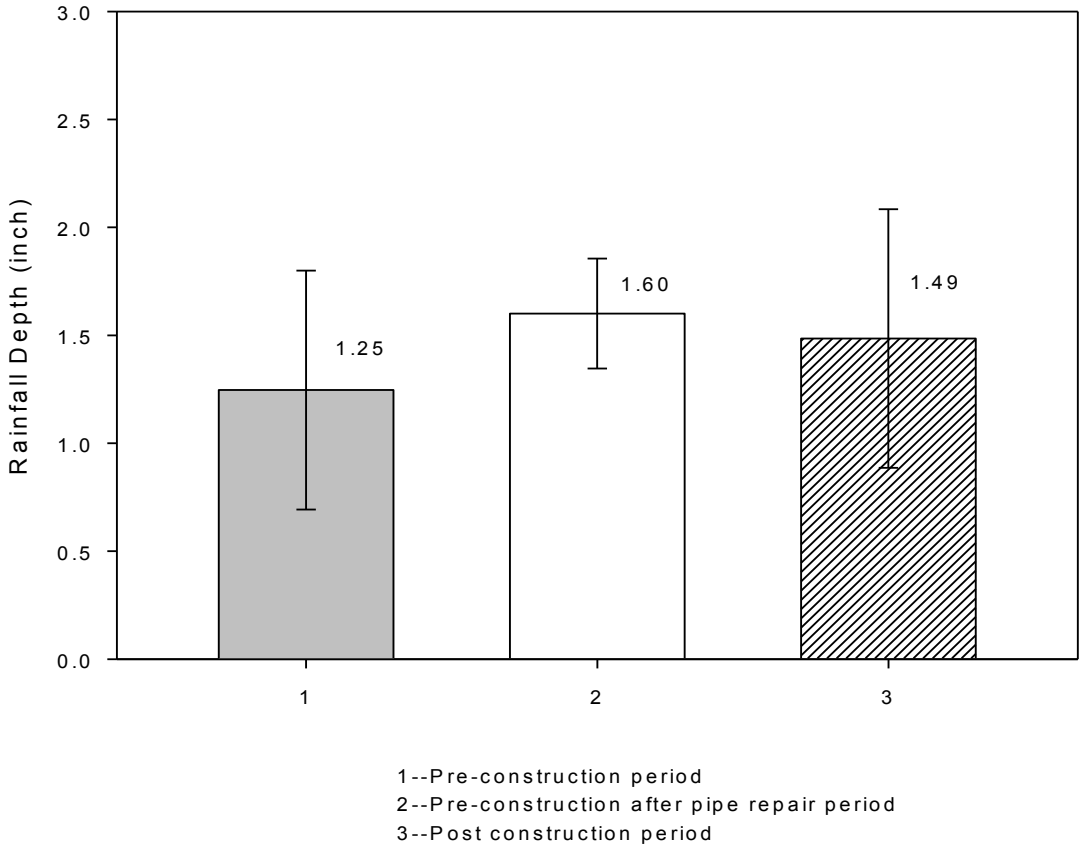

Figure 3-3 Average Rainfall Depth Among Three Periods

Obviously, the rainfall data varied during three periods, and the factor of rainfall impacts the runoff behavior. So the runoff percentage data need to be developed to show true performance. Runoff percentage is calculated from runoff depth divided by the rainfall depth.

A graph of the average runoff percentage for three periods is shown in Figure 3-4.

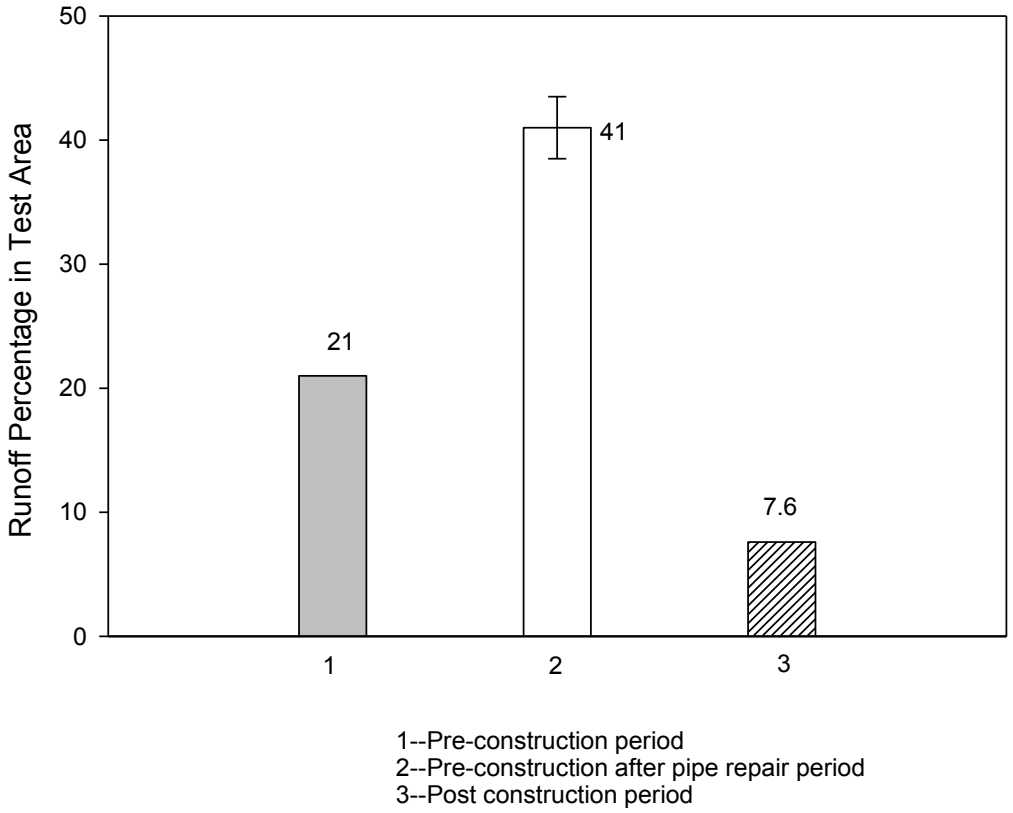

Figure 3-4 Average Runoff Percentage In Test Area Among Three Periods

From the Figure 3-4 demonstrates that there is a decrease of the average runoff percentage from the pre-construction after pipe repair period to the post-construction period. The pipe repair shows that the pipe captured more water after it has been repaired. Even the comparison between the pre-construction and the post-construction period shows a decrease in the runoff percentage. It means the rain gardens can decrease the runoff that gets into the collection system. The error bar from the second period results from the reconstruction value range.

3.2 Discussion

The data analysis presented in this report is in agreement with a detailed hydrology model of the test watershed which used the WinSLAMM Model generate the ratio of runoff volume from test to control area as shown in Figure 3-5 and the Table 3-1.

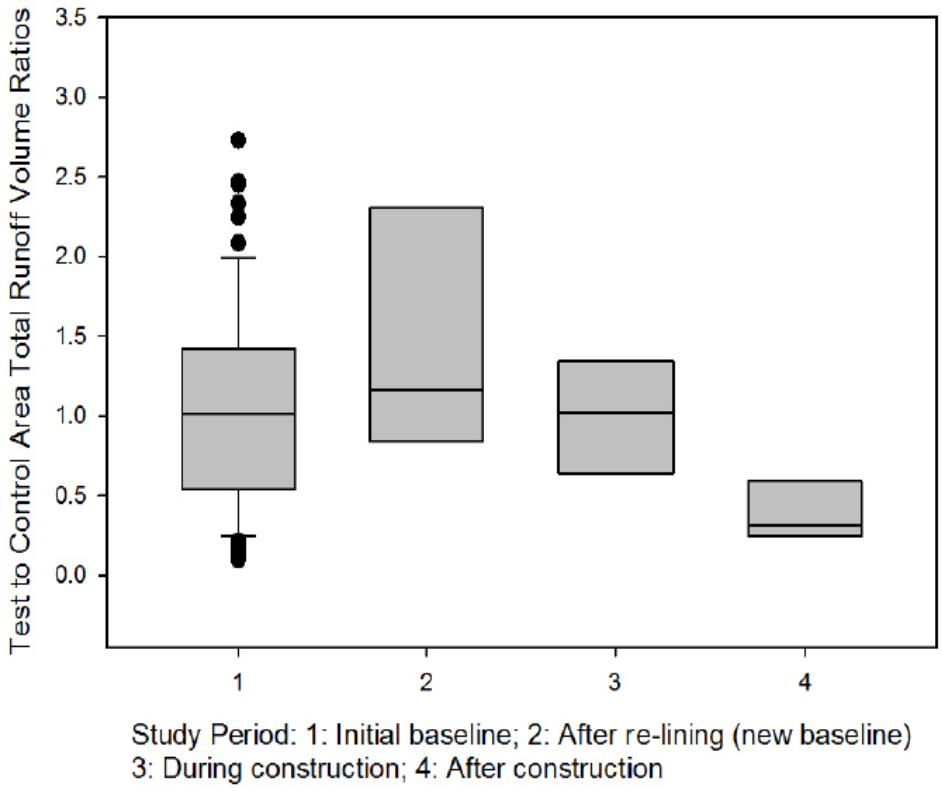

Figure 3-5 Ratio of the total volume of test and control area (Pitt and Talebi,2012). Period 2 and Period 3 are belong to the pre-construction period after pipe repair.

Table 3-1 Ratio of the total volume of test and control area (Pitt and Talebi,2012)

Monitoring Period	Average test (pilot) to control area runoff volume ratio	% change compared to initial baseline (and p from Wilcoxon Rank-Sum test)	% change compared to final baseline (after re-lining) (and p from Wilcoxon Rank-Sum test)
Initial baseline	1.06	n/a	n/a
After re-lining (final baseline)	1.53	44% increase (p=0.20)	n/a
During construction	1.02	4% decrease (p=0.94)	33% decrease (p=0.26)
After construction (after April 1, 2012)	0.46	55% decrease (***p=0.006***)*	70% decrease (***p=0.004***)*

The average runoff percentage from test and control has been developed from this analysis and is shown in Figure 3-6.

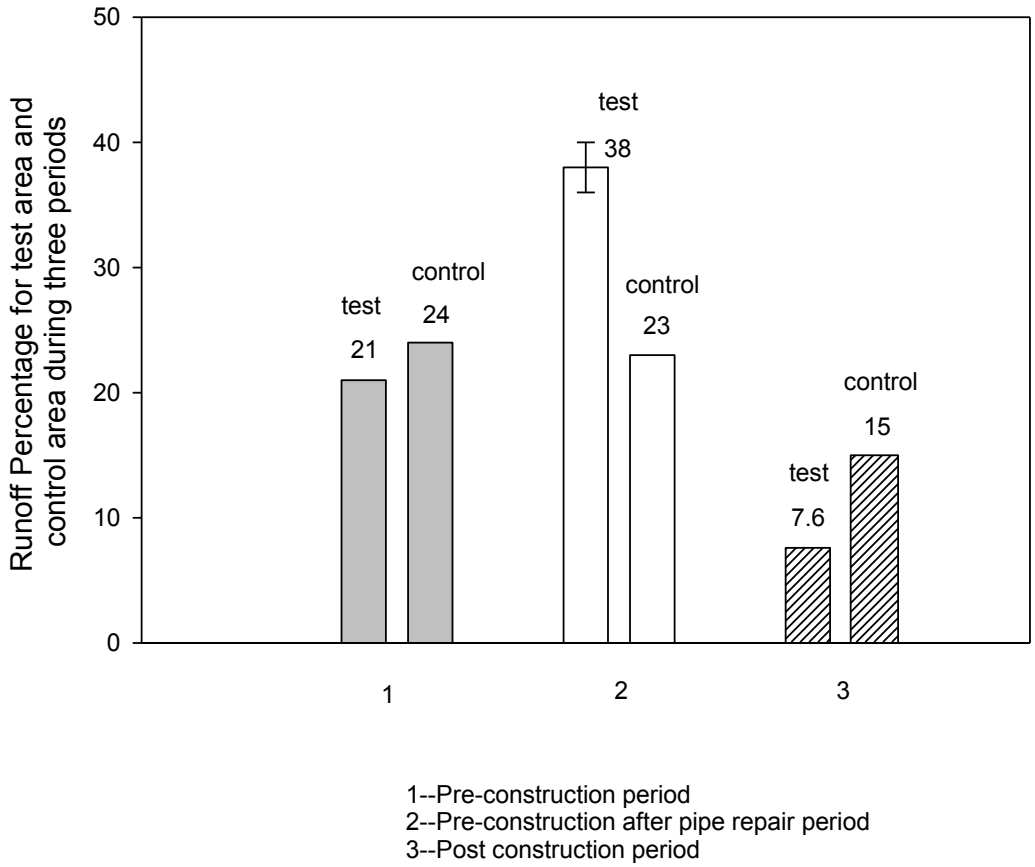

Figure 3-6 Average Runoff Percentage From Test Area and Control Area

In Figure 3-6, the runoff percentage value from test area only use five storm events out of six events for the analysis. Because there are only five storms have been recorded by the flowmeters. Table 2-6 showed all the data summary.That changes the average runoff percentage from 41% to 38% in test area. For the control area runoff calculation, only the UMKC2a data has been used due to the other flowmeters were broken during the third

period. And based on the previous flowmeter records from control area, UMKC 2a contributes 48% of the total flow volume in the whole control area. While UMKC 2a only has a drainage area of 17.5 acres which occupy 22% of the total control drainage area. The equation $UMKC\ 2a\ drainage\ area\ runoff\ depth\ = \frac{UMKC\ 2a\ total\ volume}{UMKC\ 2a\ drainage\ area}$ can be applied to calculate the runoff depth in the drainage area of UMKC 2a flowmeter. However, the runoff depth from UMKC2a needs to divide an adjustment factor $\frac{48\%}{22\%} = 2.18$ to represent the runoff depth from the whole control area. Because a half amount of total runoff volume dividing a quarter amount of the total drainage area will doubled the runoff depths value. This factor makes the runoff percentage in control area changing from 32 %to 15%.

Based on the previous analysis the ratios from test area to control area in this analysis can be developed in Figure 3-7

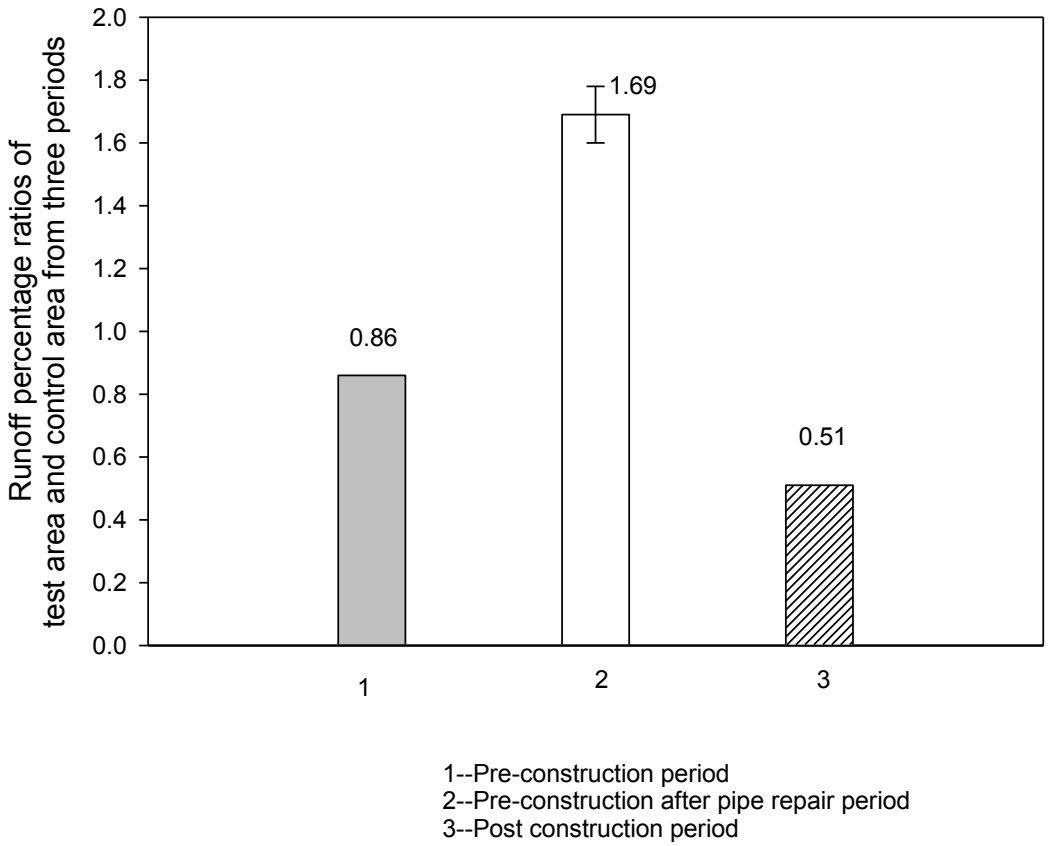

Figure 3-7 Ratio of runoff percentage from test area to control area

From Figure 3-7, there is an agreement on the overall tendency from the pre-construction to post-construction. It agrees with the ratios from the first and second periods in Table 3-1 result from the WinSLAMM Model. This model is based on the data before

2013. The updating is still in process, the data from 2013 may cause some change on the ratios. And also during the year of 2013, there are two flowmeters in the control area which malfunctioned in April-July 2013. So this analysis only uses the flowrate data from UMKC2A with a drainage area of 17.5 acres and an adjustment factor of 2.18 to calculate the runoff volume in control area during the post-construction period. That is why there is an 8% difference of the runoff percentage in control area from the second period to the third period.

The pipe repair had a significant impact on the runoff depth in the test area. The post-construction period includes the different factors between the test area and control area which are the gardens' completion and the pipe repair. Resolving this mix of runoff variables requires a hydrology model. So in this analysis, the comparisons are among different time periods in only the test area.

CHAPTER 4

CONCLUSIONS

In the test area, not the whole area has been treated by the green solution. There is only 54.4% of total test area has been treated. So before the rain gardens had been built, the runoff depth =total runoff volume /total test area (100 acres). However, after the rain gardens had been finished, the runoff depth =total runoff volume /non-treated test area(45.6%)+treated test area(54.4%).

The fact is from Figure 4-1, there is about 80% decrease on the runoff percentage from the pipe-repair period to the post-construction period. And in the huge decrease, there is only about 54.4% treated area contributed to this decrease, which means if all of the 100 acres been treated, the decrease would increase.

During this work, the pipe repair made this analysis more complex. This analysis not only explains how well the rain gardens work on reducing water quality, but also indicates the pipe repair increased a large amount of water get into the combined sewer system.

Overall, based on the previous data analysis, the rain gardens works well on reducing the total water volume get into the combined sewer system and also works well on the reducing of the runoff percentage.

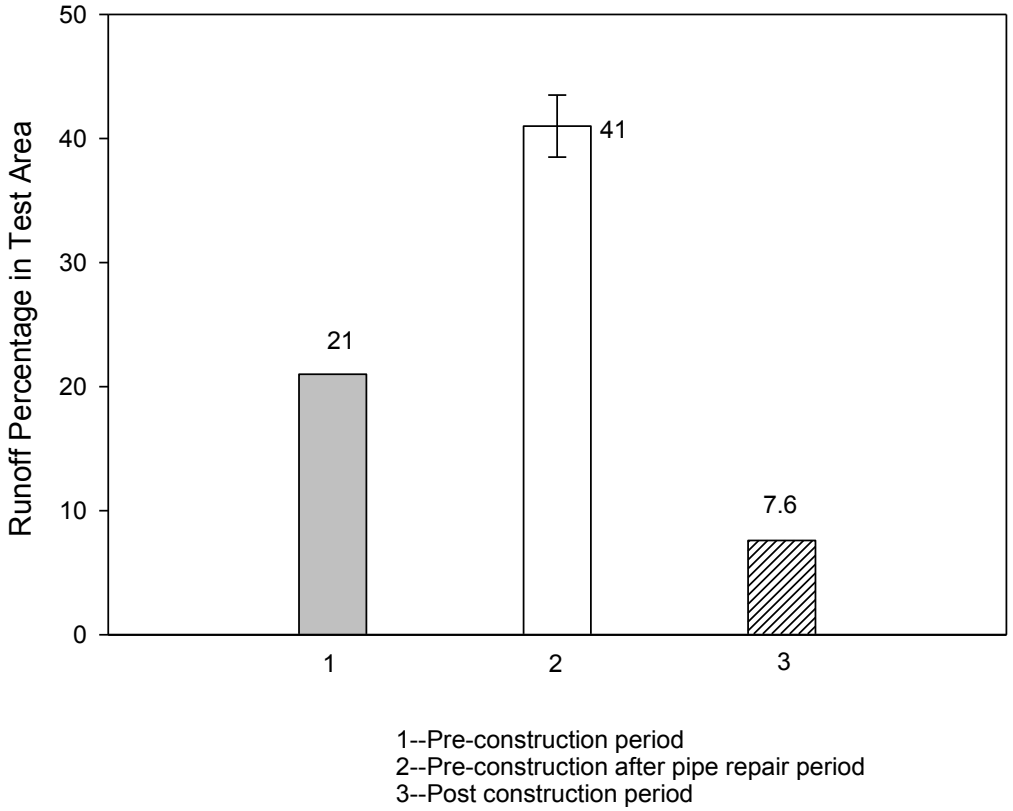

Figure 4-1 Runoff Percentage Among Three Periods

CHAPTER 5

FUTURE RESEARCH

This analysis focuses on the watershed -level analysis on the rain gardens performance. During the post-construction period, the biggest storm event was a total rainfall of 2.41 inches which is a 2-year event in Kansas City. The monitoring work will continue till October 2013. So part of the future work will look at how the rain gardens perform during a high return period storm event.

Another part of the future work will be studying on the impact of rain garden on peak flow delay. By comparison of the similar storm events before and after rain garden completed, the different time lag for peak flow also can be compared.

This analysis examines how well does rain gardens performance in a watershed-level. The results show the rain gardens works well on reducing the total volume in test area. This green solution has already been practiced in different cities in United States, among those studies, the study been conducted in Kansas City is one of the biggest project. The good results show the rain gardens have the potential to solve the CSO problems.

APPENDIX Data for UMKC1 Reconstruction

Unit: Flow rate($\frac{m^3}{s}$) Velocity(m/s) Level(m)

time	flow rate	Velocity	Level	time	flow rate	velocity	level
11/11/2012 00:00:00	0.11	1.01	2.70	11/11/2012 02:30:00	0.12	1.09	2.66
11/11/2012 00:05:00	0.11	1.02	2.77	11/11/2012 02:35:00	0.11	1.11	2.42
11/11/2012 00:10:00	0.11	1.06	2.70	11/11/2012 02:40:00	0.13	1.25	2.64
11/11/2012 00:15:00	0.12	1.05	2.89	11/11/2012 02:45:00	0.13	1.23	2.60
11/11/2012 00:20:00	0.12	0.98	2.88	11/11/2012 02:50:00	0.12	1.22	2.59
11/11/2012 00:25:00	0.12	1.03	2.82	11/11/2012 02:55:00	0.12	1.15	2.63
11/11/2012 00:30:00	0.11	1.01	2.76	11/11/2012 03:00:00	0.12	1.18	2.70
11/11/2012 00:35:00	0.11	1.05	2.78	11/11/2012 03:05:00	0.13	1.15	2.55
11/11/2012 00:40:00	0.10	0.98	2.72	11/11/2012 03:10:00	0.12	1.16	2.63
11/11/2012 00:45:00	0.11	1.06	2.76	11/11/2012 03:15:00	0.12	1.14	2.57
11/11/2012 00:50:00	0.11	1.02	2.73	11/11/2012 03:20:00	0.14	1.25	2.69
11/11/2012 00:55:00	0.12	1.06	2.80	11/11/2012 03:25:00	0.13	1.27	2.51
11/11/2012 01:00:00	0.11	1.04	2.81	11/11/2012 03:30:00	0.14	1.16	2.69
11/11/2012 01:05:00	0.11	1.01	2.73	11/11/2012 03:35:00	0.11	1.10	2.64
11/11/2012 01:10:00	0.11	1.01	2.70	11/11/2012 03:40:00	0.13	1.23	2.58
11/11/2012 01:15:00	0.11	1.04	2.69	11/11/2012 03:45:00	0.13	1.23	2.57
11/11/2012 01:20:00	0.11	1.03	2.68	11/11/2012 03:50:00	0.13	1.12	2.68
11/11/2012 01:25:00	0.11	1.04	2.73	11/11/2012 03:55:00	0.12	1.24	2.56
11/11/2012 01:30:00	0.11	1.09	2.72	11/11/2012 04:00:00	0.13	1.18	2.58
11/11/2012 01:35:00	0.11	1.02	2.75	11/11/2012 04:05:00	0.13	1.08	2.65
11/11/2012 01:40:00	0.11	1.02	2.76	11/11/2012 04:10:00	0.12	1.10	2.68
11/11/2012 01:45:00	0.11	1.02	2.80	11/11/2012 04:15:00	0.12	1.10	2.66
11/11/2012 01:50:00	0.11	0.98	2.69	11/11/2012 04:20:00	0.12	1.18	2.66
11/11/2012 01:55:00	0.11	0.99	2.70	11/11/2012 04:25:00	0.12	1.14	2.61
11/11/2012 02:00:00	0.11	1.01	2.69	11/11/2012 04:30:00	0.12	1.15	2.58
11/11/2012 02:05:00	0.11	1.04	2.61	11/11/2012 04:35:00	0.12	1.12	2.55
11/11/2012 02:10:00	0.11	1.03	2.72	11/11/2012 04:40:00	0.12	1.12	2.64
11/11/2012 02:15:00	0.11	1.03	2.55	11/11/2012 04:45:00	0.12	1.14	2.59
11/11/2012 02:20:00	0.11	1.01	2.71	11/11/2012 04:50:00	0.13	1.18	2.62
11/11/2012 02:25:00	0.10	1.08	2.59	11/11/2012 04:55:00	0.12	1.11	2.60

time	flow rate	velocity	level	time	flow rate	velocity	level
11/11/2012 05:00:00	0.13	1.15	2.73	11/11/2012 07:45:00	1.32	3.99	4.29
11/11/2012 05:05:00	0.13	1.23	2.70	11/11/2012 07:50:00	1.22	3.86	4.13
11/11/2012 05:10:00	0.13	1.10	2.60	11/11/2012 07:55:00	1.07	3.83	3.66
11/11/2012 05:15:00	0.12	1.09	2.67	11/11/2012 08:00:00	1.16	3.99	3.97
11/11/2012 05:20:00	0.12	1.05	2.75	11/11/2012 08:05:00	1.16	4.01	3.85
11/11/2012 05:25:00	0.17	1.72	3.38	11/11/2012 08:10:00	1.28	4.51	3.78
11/11/2012 05:30:00	0.66	2.94	3.67	11/11/2012 08:15:00	1.78	4.98	4.40
11/11/2012 05:35:00	0.66	2.60	3.62	11/11/2012 08:20:00	1.70	4.80	4.11
11/11/2012 05:40:00	0.41	2.12	3.25	11/11/2012 08:25:00	1.58	4.87	3.97
11/11/2012 05:45:00	0.31	1.97	2.77	11/11/2012 08:30:00	1.52	4.54	4.05
11/11/2012 05:50:00	0.29	1.90	2.80	11/11/2012 08:35:00	1.29	4.25	3.85
11/11/2012 05:55:00	0.27	1.93	2.67	11/11/2012 08:40:00	1.17	3.84	3.85
11/11/2012 06:00:00	0.27	1.93	2.73	11/11/2012 08:45:00	1.16	3.83	4.08
11/11/2012 06:05:00	0.27	1.87	2.70	11/11/2012 08:50:00	1.12	3.83	3.96
11/11/2012 06:10:00	0.28	1.93	2.79	11/11/2012 08:55:00	1.02	3.74	3.73
11/11/2012 06:15:00	0.52	2.71	3.89	11/11/2012 09:00:00	1.07	3.71	3.95
11/11/2012 06:20:00	0.66	2.84	3.84	11/11/2012 09:05:00	1.06	3.79	3.87
11/11/2012 06:25:00	0.83	3.15	4.03	11/11/2012 09:10:00	1.03	3.78	3.76
11/11/2012 06:30:00	0.80	2.94	4.00	11/11/2012 09:15:00	1.12	3.79	4.00
11/11/2012 06:35:00	0.78	3.01	4.07	11/11/2012 09:20:00	1.07	4.22	3.63
11/11/2012 06:40:00	1.00	3.59	4.10	11/11/2012 09:25:00	1.50	4.58	3.98
11/11/2012 06:45:00	1.24	4.26	4.21	11/11/2012 09:30:00	1.66	5.19	4.13
11/11/2012 06:50:00	1.75	4.95	3.93	11/11/2012 09:35:00	2.68	6.04	5.14
11/11/2012 06:55:00	3.00	6.78	6.09	11/11/2012 09:40:00	2.42	5.88	4.36
11/11/2012 07:00:00	3.83	6.94	5.08	11/11/2012 09:45:00	2.24	5.71	4.33
11/11/2012 07:05:00	3.02	6.01	5.15	11/11/2012 09:50:00	2.19	5.79	4.29
11/11/2012 07:10:00	2.30	6.08	4.35	11/11/2012 09:55:00	2.15	5.70	4.17
11/11/2012 07:15:00	2.29	6.06	4.05	11/11/2012 10:00:00	2.06	5.59	4.12
11/11/2012 07:20:00	2.10	5.35	4.25	11/11/2012 10:05:00	1.73	4.84	4.01
11/11/2012 07:25:00	1.94	5.27	4.42	11/11/2012 10:10:00	1.45	4.44	3.95
11/11/2012 07:30:00	1.67	4.94	3.88	11/11/2012 10:15:00	1.35	4.34	3.98
11/11/2012 07:35:00	1.67	4.48	4.46	11/11/2012 10:20:00	1.38	4.32	4.13
11/11/2012 07:40:00	1.46	4.17	4.28	11/11/2012 10:25:00	1.28	4.12	3.97

time	flow rate	velocity	level	time	flow rate	velocity	level
11/11/2012 10:30:00	1.22	4.07	3.90	11/11/2012 13:15:00	1.43	4.46	4.04
11/11/2012 10:35:00	1.18	3.99	3.96	11/11/2012 13:20:00	1.43	4.44	4.08
11/11/2012 10:40:00	1.16	4.03	3.86	11/11/2012 13:25:00	1.27	4.17	3.83
11/11/2012 10:45:00	1.16	3.99	3.85	11/11/2012 13:30:00	1.30	4.25	3.96
11/11/2012 10:50:00	1.10	3.93	3.72	11/11/2012 13:35:00	1.25	4.15	3.86
11/11/2012 10:55:00	1.07	3.90	3.69	11/11/2012 13:40:00	1.30	4.20	4.07
11/11/2012 11:00:00	1.09	3.94	3.75	11/11/2012 13:45:00	1.22	4.08	3.92
11/11/2012 11:05:00	1.22	4.29	3.88	11/11/2012 13:50:00	1.28	4.05	4.15
11/11/2012 11:10:00	1.41	4.32	4.19	11/11/2012 13:55:00	1.25	4.12	4.00
11/11/2012 11:15:00	1.33	4.33	3.98	11/11/2012 14:00:00	1.21	3.96	4.06
11/11/2012 11:20:00	1.36	4.63	3.97	11/11/2012 14:05:00	1.10	4.04	3.78
11/11/2012 11:25:00	1.61	5.10	4.01	11/11/2012 14:10:00	1.13	3.83	3.92
11/11/2012 11:30:00	1.98	5.51	4.21	11/11/2012 14:15:00	1.07	3.79	3.78
11/11/2012 11:35:00	2.79	6.08	5.37	11/11/2012 14:20:00	1.05	3.68	3.82
11/11/2012 11:40:00	3.32	6.09	5.88	11/11/2012 14:25:00	1.08	3.70	3.92
11/11/2012 11:45:00	3.00	6.03	5.25	11/11/2012 14:30:00	1.07	3.79	3.85
11/11/2012 11:50:00	2.67	5.66	4.96	11/11/2012 14:35:00	1.09	3.75	3.96
11/11/2012 11:55:00	2.41	5.83	4.60	11/11/2012 14:40:00	1.04	3.62	3.77
11/11/2012 12:00:00	2.55	5.70	5.05	11/11/2012 14:45:00	1.03	3.79	3.75
11/11/2012 12:05:00	3.03	6.17	5.59	11/11/2012 14:50:00	1.03	3.66	3.92
11/11/2012 12:10:00	2.94	5.93	5.41	11/11/2012 14:55:00	0.96	3.65	3.70
11/11/2012 12:15:00	2.99	6.04	5.49	11/11/2012 15:00:00	1.01	3.58	3.85
11/11/2012 12:20:00	2.79	6.20	5.14	11/11/2012 15:05:00	0.97	3.62	3.71
11/11/2012 12:25:00	3.02	5.88	5.43	11/11/2012 15:10:00	0.91	3.55	3.58
11/11/2012 12:30:00	2.39	5.70	4.54	11/11/2012 15:15:00	0.96	3.58	3.79
11/11/2012 12:35:00	1.94	5.24	4.08	11/11/2012 13:15:00	1.43	4.46	4.04
11/11/2012 12:40:00	1.90	5.23	4.30	11/11/2012 13:20:00	1.43	4.44	4.08
11/11/2012 12:45:00	2.29	5.72	4.57	11/11/2012 13:25:00	1.27	4.17	3.83
11/11/2012 12:50:00	1.95	5.63	3.98	11/11/2012 13:30:00	1.30	4.25	3.96
11/11/2012 12:55:00	1.91	5.34	4.06	11/11/2012 13:35:00	1.25	4.15	3.86
11/11/2012 13:00:00	1.81	5.05	4.17	11/11/2012 13:40:00	1.30	4.20	4.07
11/11/2012 13:05:00	1.64	4.67	4.10	11/11/2012 13:45:00	1.22	4.08	3.92
11/11/2012 13:10:00	1.53	4.66	4.03	11/11/2012 13:50:00	1.28	4.05	4.15

time	flow rate	velocity	level	time	flow rate	velocity	level
11/11/2012 16:00:00	0.90	3.48	3.68	11/11/2012 18:45:00	0.53	2.76	2.94
11/11/2012 16:05:00	0.80	3.56	3.27	11/11/2012 18:50:00	0.57	2.76	3.22
11/11/2012 16:10:00	0.85	3.42	3.45	11/11/2012 18:55:00	0.58	2.77	3.22
11/11/2012 16:15:00	0.87	3.35	3.62	11/11/2012 19:00:00	0.54	2.84	2.94
11/11/2012 16:20:00	0.79	3.38	3.36	11/11/2012 19:05:00	0.59	2.90	3.21
11/11/2012 16:25:00	0.81	3.34	3.44	11/11/2012 19:10:00	0.59	2.65	3.35
11/11/2012 16:30:00	0.79	3.37	3.38	11/11/2012 19:15:00	0.57	2.91	3.22
11/11/2012 16:35:00	0.78	3.23	3.46	11/11/2012 19:20:00	0.53	2.70	3.10
11/11/2012 16:40:00	0.79	3.28	3.43	11/11/2012 19:25:00	0.50	2.91	2.78
11/11/2012 16:45:00	0.76	3.28	3.25	11/11/2012 19:30:00	0.53	2.88	2.78
11/11/2012 16:50:00	0.78	3.33	3.34	11/11/2012 19:35:00	0.52	2.90	2.77
11/11/2012 16:55:00	0.83	3.42	3.48	11/11/2012 19:40:00	0.51	2.72	2.71
11/11/2012 17:00:00	0.79	3.32	3.47	11/11/2012 19:45:00	0.52	2.78	2.76
11/11/2012 17:05:00	0.75	3.19	3.32	11/11/2012 19:50:00	0.51	2.83	2.72
11/11/2012 17:10:00	0.75	3.27	3.24	11/11/2012 19:55:00	0.52	2.98	2.68
11/11/2012 17:15:00	0.75	3.24	3.42	11/11/2012 20:00:00	0.55	3.00	2.73
11/11/2012 17:20:00	0.71	3.07	3.26	11/11/2012 20:05:00	0.53	2.97	2.64
11/11/2012 17:25:00	0.71	3.14	3.35	11/11/2012 20:10:00	0.52	2.99	2.66
11/11/2012 17:30:00	0.73	3.15	3.43	11/11/2012 20:15:00	0.52	2.91	2.74
11/11/2012 17:35:00	0.72	3.19	3.40	11/11/2012 20:20:00	0.50	2.95	2.60
11/11/2012 17:40:00	0.72	3.08	3.41	11/11/2012 20:25:00	0.53	2.92	2.78
11/11/2012 17:45:00	0.72	3.14	3.44	11/11/2012 20:30:00	0.52	3.09	2.70
11/11/2012 17:50:00	0.69	3.15	3.22	11/11/2012 20:35:00	0.56	2.95	2.86
11/11/2012 17:55:00	0.70	3.13	3.36	11/11/2012 20:40:00	0.54	2.90	2.81
11/11/2012 18:00:00	0.71	3.15	3.53	11/11/2012 20:45:00	0.52	3.03	2.71
11/11/2012 18:05:00	0.72	3.08	3.33	11/11/2012 20:50:00	0.52	3.03	2.65
11/11/2012 18:10:00	0.65	3.09	3.16	11/11/2012 20:55:00	0.49	2.90	2.54
11/11/2012 18:15:00	0.63	3.12	3.15	11/11/2012 21:00:00	0.50	2.99	2.57
11/11/2012 18:20:00	0.64	2.84	3.34	11/11/2012 21:05:00	0.53	3.10	2.70
11/11/2012 18:25:00	0.58	2.95	3.01	11/11/2012 21:10:00	0.50	3.02	2.58
11/11/2012 18:30:00	0.60	2.84	3.28	11/11/2012 21:15:00	0.53	2.95	2.72
11/11/2012 18:35:00	0.56	2.60	3.16	11/11/2012 21:20:00	0.37	2.85	2.00
11/11/2012 18:40:00	0.53	2.59	3.09	11/11/2012 21:25:00	0.34	2.78	1.91

time	flow rate	velocity	level	time	flow rate	velocity	level
11/11/2012 21:30:00	0.34	2.87	1.92	11/12/2012 00:15:00	0.40	2.72	2.32
11/11/2012 21:35:00	0.38	2.75	2.15	11/12/2012 00:20:00	0.32	2.65	1.87
11/11/2012 21:40:00	0.30	2.75	1.72	11/12/2012 00:25:00	0.41	2.78	2.40
11/11/2012 21:45:00	0.37	2.84	2.07	11/12/2012 00:30:00	0.40	2.73	2.30
11/11/2012 21:50:00	0.38	2.85	2.12	11/12/2012 00:35:00	0.41	2.81	2.38
11/11/2012 21:55:00	0.39	2.90	2.14	11/12/2012 00:40:00	0.39	2.72	2.27
11/11/2012 22:00:00	0.33	2.82	1.87	11/12/2012 00:45:00	0.37	2.71	2.19
11/11/2012 22:05:00	0.38	2.75	2.13	11/12/2012 00:50:00	0.39	2.66	2.32
11/11/2012 22:10:00	0.36	2.74	2.02	11/12/2012 00:55:00	0.38	2.70	2.24
11/11/2012 22:15:00	0.39	2.77	2.23	11/12/2012 01:00:00	0.37	2.67	2.17
11/11/2012 22:20:00	0.36	2.63	2.11	11/12/2012 01:05:00	0.40	2.77	2.32
11/11/2012 22:25:00	0.36	2.80	2.08	11/12/2012 01:10:00	0.38	2.69	2.21
11/11/2012 22:30:00	0.39	2.70	2.27	11/12/2012 01:15:00	0.37	2.65	2.23
11/11/2012 22:35:00	0.34	2.75	1.98	11/12/2012 01:20:00	0.34	2.62	2.06
11/11/2012 22:40:00	0.38	2.74	2.24	11/12/2012 01:25:00	0.36	2.71	2.12
11/11/2012 22:45:00	0.35	2.85	2.00	11/12/2012 01:30:00	0.36	2.68	2.09
11/11/2012 22:50:00	0.39	2.69	2.26	11/12/2012 01:35:00	0.47	2.71	2.71
11/11/2012 22:55:00	0.36	2.76	2.08	11/12/2012 01:40:00	0.48	2.70	2.82
11/11/2012 23:00:00	0.36	2.73	2.06	11/12/2012 01:45:00	0.46	2.70	2.79
11/11/2012 23:05:00	0.36	2.82	2.03	11/12/2012 01:50:00	0.47	2.64	2.83
11/11/2012 23:10:00	0.35	2.74	2.03	11/12/2012 01:55:00	0.46	2.67	2.79
11/11/2012 23:15:00	0.33	2.73	1.95	11/12/2012 02:00:00	0.47	2.68	2.76
11/11/2012 23:20:00	0.37	2.68	2.12	11/12/2012 02:05:00	0.46	2.63	2.83
11/11/2012 23:25:00	0.35	2.76	2.03	11/12/2012 02:10:00	0.45	2.58	2.80
11/11/2012 23:30:00	0.37	2.74	2.17	11/12/2012 02:15:00	0.47	2.65	2.85
11/11/2012 23:35:00	0.35	2.64	2.10	11/12/2012 02:20:00	0.46	2.67	2.84
11/11/2012 23:40:00	0.36	2.69	2.15	11/12/2012 02:25:00	0.46	2.66	2.81
11/11/2012 23:45:00	0.36	2.69	2.10	11/12/2012 02:30:00	0.44	2.63	2.69
11/11/2012 23:50:00	0.38	2.73	2.25	11/12/2012 02:35:00	0.46	2.65	2.87
11/11/2012 23:55:00	0.35	2.72	2.15	11/12/2012 02:40:00	0.45	2.59	2.78
11/12/2012 00:00:00	0.38	2.68	2.30	11/12/2012 02:45:00	0.47	2.75	2.83
11/12/2012 00:05:00	0.40	2.69	2.43	11/12/2012 02:50:00	0.43	2.62	2.73
11/12/2012 00:10:00	0.38	2.66	2.24	11/12/2012 02:55:00	0.46	2.61	2.82

time	flow rate	velocity	level	time	flow rate	velocity	level
11/12/2012 03:00:00	0.44	2.66	2.69	11/12/2012 05:45:00	0.40	2.47	2.72
11/12/2012 03:05:00	0.45	2.60	2.85	11/12/2012 05:50:00	0.41	2.48	2.77
11/12/2012 03:10:00	0.45	2.60	2.80	11/12/2012 05:55:00	0.41	2.44	2.75
11/12/2012 03:15:00	0.46	2.58	2.83	11/12/2012 06:00:00	0.41	2.47	2.71
11/12/2012 03:20:00	0.45	2.62	2.77	11/12/2012 06:05:00	0.43	2.40	2.84
11/12/2012 03:25:00	0.44	2.63	2.77	11/12/2012 06:10:00	0.41	2.53	2.72
11/12/2012 03:30:00	0.44	2.49	2.81	11/12/2012 06:15:00	0.41	2.39	2.74
11/12/2012 03:35:00	0.45	2.48	2.89	11/12/2012 06:20:00	0.40	2.44	2.73
11/12/2012 03:40:00	0.46	2.55	2.92	11/12/2012 06:25:00	0.42	2.53	2.76
11/12/2012 03:45:00	0.46	2.55	2.94	11/12/2012 06:30:00	0.44	2.53	2.80
11/12/2012 03:50:00	0.48	2.62	3.06	11/12/2012 06:35:00	0.43	2.56	2.76
11/12/2012 03:55:00	0.44	2.60	2.83	11/12/2012 06:40:00	0.44	2.56	2.77
11/12/2012 04:00:00	0.43	2.59	2.70	11/12/2012 06:45:00	0.44	2.64	2.74
11/12/2012 04:05:00	0.45	2.60	2.86	11/12/2012 06:50:00	0.45	2.62	2.77
11/12/2012 04:10:00	0.45	2.63	2.88	11/12/2012 06:55:00	0.47	2.66	2.93
11/12/2012 04:15:00	0.42	2.66	2.68	11/12/2012 07:00:00	0.47	2.70	2.80
11/12/2012 04:20:00	0.41	2.55	2.67	11/12/2012 07:05:00	0.45	2.60	2.77
11/12/2012 04:25:00	0.43	2.57	2.82	11/12/2012 07:10:00	0.45	2.58	2.86
11/12/2012 04:30:00	0.43	2.50	2.81	11/12/2012 07:15:00	0.44	2.62	2.75
11/12/2012 04:35:00	0.44	2.55	2.83	11/12/2012 07:20:00	0.44	2.54	2.84
11/12/2012 04:40:00	0.41	2.58	2.67	11/12/2012 07:25:00	0.46	2.64	2.86
11/12/2012 04:45:00	0.42	2.50	2.77	11/12/2012 07:30:00	0.46	2.66	2.77
11/12/2012 04:50:00	0.46	2.62	2.91	11/12/2012 07:35:00	0.45	2.65	2.80
11/12/2012 04:55:00	0.43	2.55	2.76	11/12/2012 07:40:00	0.43	2.57	2.74
11/12/2012 05:00:00	0.42	2.37	2.78	11/12/2012 07:45:00	0.42	2.59	2.71
11/12/2012 05:05:00	0.42	2.56	2.77	11/12/2012 07:50:00	0.44	2.69	2.75
11/12/2012 05:10:00	0.42	2.53	2.71	11/12/2012 07:55:00	0.44	2.67	2.75
11/12/2012 05:15:00	0.41	2.52	2.70	11/12/2012 08:00:00	0.47	2.70	2.80
11/12/2012 05:20:00	0.45	2.66	2.84	11/12/2012 08:05:00	0.47	2.64	2.79
11/12/2012 05:25:00	0.42	2.56	2.69	11/12/2012 08:10:00	0.46	2.70	2.80
11/12/2012 05:30:00	0.41	2.61	2.62	11/12/2012 08:15:00	0.49	2.72	2.89
11/12/2012 05:35:00	0.43	2.49	2.80	11/12/2012 08:20:00	0.45	2.75	2.68
11/12/2012 05:40:00	0.42	2.52	2.78	11/12/2012 08:25:00	0.48	2.68	2.90

time	flow rate	velocity	level	time	flow rate	velocity	level
11/12/2012 08:30:00	0.45	2.69	2.75	11/12/2012 11:15:00	0.42	2.45	2.71
11/12/2012 08:35:00	0.46	2.70	2.77	11/12/2012 11:20:00	0.42	2.60	2.77
11/12/2012 08:40:00	0.43	2.69	2.62	11/12/2012 11:25:00	0.40	2.43	2.78
11/12/2012 08:45:00	0.46	2.59	2.87	11/12/2012 11:30:00	0.44	2.50	2.79
11/12/2012 08:50:00	0.44	2.61	2.68	11/12/2012 11:35:00	0.44	2.60	2.76
11/12/2012 08:55:00	0.48	2.66	2.91	11/12/2012 11:40:00	0.40	2.43	2.64
11/12/2012 09:00:00	0.46	2.61	2.81	11/12/2012 11:45:00	0.42	2.59	2.69
11/12/2012 09:05:00	0.48	2.74	2.82	11/12/2012 11:50:00	0.39	2.48	2.52
11/12/2012 09:10:00	0.47	2.71	2.77	11/12/2012 11:55:00	0.40	2.43	2.72
11/12/2012 09:15:00	0.47	2.63	2.79	11/12/2012 12:00:00	0.40	2.38	2.66
11/12/2012 09:20:00	0.45	2.64	2.75	11/12/2012 12:05:00	0.40	2.49	2.67
11/12/2012 09:25:00	0.46	2.64	2.86	11/12/2012 12:10:00	0.41	2.36	2.78
11/12/2012 09:30:00	0.48	2.62	3.02	11/12/2012 12:15:00	0.40	2.45	2.70
11/12/2012 09:35:00	0.43	2.61	2.74	11/12/2012 12:20:00	0.43	2.63	2.86
11/12/2012 09:40:00	0.45	2.60	2.89	11/12/2012 12:25:00	0.41	2.49	2.65
11/12/2012 09:45:00	0.43	2.64	2.70	11/12/2012 12:30:00	0.37	2.45	2.57
11/12/2012 09:50:00	0.44	2.77	2.64	11/12/2012 12:35:00	0.38	2.43	2.63
11/12/2012 09:55:00	0.45	2.57	2.82	11/12/2012 12:40:00	0.40	2.41	2.75
11/12/2012 10:00:00	0.43	2.62	2.84	11/12/2012 12:45:00	0.40	2.48	2.70
11/12/2012 10:05:00	0.46	2.57	2.92	11/12/2012 12:50:00	0.43	2.45	2.91
11/12/2012 10:10:00	0.44	2.56	2.83	11/12/2012 12:55:00	0.42	2.42	2.82
11/12/2012 10:15:00	0.44	2.52	2.84	11/12/2012 13:00:00	0.42	2.56	2.76
11/12/2012 10:20:00	0.43	2.41	2.78	11/12/2012 13:05:00	0.45	2.70	2.82
11/12/2012 10:25:00	0.42	2.56	2.80	11/12/2012 13:10:00	0.44	2.66	2.70
11/12/2012 10:30:00	0.42	2.42	2.82	11/12/2012 13:15:00	0.44	2.59	2.70
11/12/2012 10:35:00	0.47	2.64	2.91	11/12/2012 13:20:00	0.41	2.47	2.70
11/12/2012 10:40:00	0.44	2.49	2.80	11/12/2012 13:25:00	0.43	2.49	2.86
11/12/2012 10:45:00	0.44	2.57	2.80	11/12/2012 13:30:00	0.48	2.57	2.93
11/12/2012 10:50:00	0.49	2.65	2.88	11/12/2012 13:35:00	0.41	2.43	2.67
11/12/2012 10:55:00	0.45	2.69	2.70	11/12/2012 13:40:00	0.38	2.44	2.56
11/12/2012 11:00:00	0.46	2.71	2.84	11/12/2012 13:45:00	0.43	2.57	2.81
11/12/2012 11:05:00	0.47	2.69	2.83	11/12/2012 13:50:00	0.41	2.55	2.70
11/12/2012 11:10:00	0.47	2.60	2.89	11/12/2012 13:55:00	0.38	2.37	2.67

time	flow rate	velocity	level	time	flow rate	velocity	level
11/12/2012 14:00:00	0.37	2.49	2.51	11/12/2012 16:45:00	0.43	2.51	2.84
11/12/2012 14:05:00	0.44	2.50	2.87	11/12/2012 16:50:00	0.39	2.34	2.72
11/12/2012 14:10:00	0.41	2.55	2.80	11/12/2012 16:55:00	0.38	2.42	2.64
11/12/2012 14:15:00	0.39	2.48	2.64	11/12/2012 17:00:00	0.36	2.48	2.54
11/12/2012 14:20:00	0.43	2.57	2.86	11/12/2012 17:05:00	0.36	2.39	2.53
11/12/2012 14:25:00	0.39	2.44	2.65	11/12/2012 17:10:00	0.34	2.41	2.38
11/12/2012 14:30:00	0.44	2.67	2.93	11/12/2012 17:15:00	0.38	2.52	2.69
11/12/2012 14:35:00	0.47	2.58	2.78	11/12/2012 17:20:00	0.38	2.54	2.55
11/12/2012 14:40:00	0.41	2.46	2.79	11/12/2012 17:25:00	0.40	2.50	2.68
11/12/2012 14:45:00	0.39	2.37	2.76	11/12/2012 17:30:00	0.38	2.41	2.60
11/12/2012 14:50:00	0.42	2.28	2.82	11/12/2012 17:35:00	0.37	2.45	2.54
11/12/2012 14:55:00	0.40	2.49	2.71	11/12/2012 17:40:00	0.36	2.40	2.43
11/12/2012 15:00:00	0.42	2.48	2.86	11/12/2012 17:45:00	0.40	2.45	2.70
11/12/2012 15:05:00	0.38	2.36	2.74	11/12/2012 17:50:00	0.38	2.46	2.62
11/12/2012 15:10:00	0.36	2.44	2.52	11/12/2012 17:55:00	0.40	2.41	2.77
11/12/2012 15:15:00	0.41	2.45	2.81	11/12/2012 18:00:00	0.37	2.42	2.49
11/12/2012 15:20:00	0.39	2.40	2.67	11/12/2012 18:05:00	0.38	2.47	2.66
11/12/2012 15:25:00	0.39	2.44	2.76	11/12/2012 18:10:00	0.39	2.44	2.64
11/12/2012 15:30:00	0.39	2.48	2.68	11/12/2012 18:15:00	0.32	2.38	2.28
11/12/2012 15:35:00	0.39	2.44	2.66	11/12/2012 18:20:00	0.36	2.38	2.57
11/12/2012 15:40:00	0.40	2.54	2.71	11/12/2012 18:25:00	0.40	2.45	2.71
11/12/2012 15:45:00	0.44	2.32	2.93	11/12/2012 18:30:00	0.40	2.50	2.68
11/12/2012 15:50:00	0.36	2.43	2.51	11/12/2012 18:35:00	0.41	2.50	2.71
11/12/2012 15:55:00	0.38	2.44	2.69	11/12/2012 18:40:00	0.40	2.48	2.64
11/12/2012 16:00:00	0.41	2.45	2.79	11/12/2012 18:45:00	0.44	2.67	2.84
11/12/2012 16:05:00	0.37	2.46	2.51	11/12/2012 18:50:00	0.43	2.49	2.81
11/12/2012 16:10:00	0.35	2.43	2.44	11/12/2012 18:55:00	0.42	2.45	2.91
11/12/2012 16:15:00	0.37	2.47	2.52	11/12/2012 19:00:00	0.44	2.60	2.70
11/12/2012 16:20:00	0.39	2.43	2.65	11/12/2012 19:05:00	0.43	2.53	2.80
11/12/2012 16:25:00	0.36	2.46	2.46	11/12/2012 19:10:00	0.41	2.47	2.72
11/12/2012 16:30:00	0.41	2.44	2.80	11/12/2012 19:15:00	0.37	2.54	2.42
11/12/2012 16:35:00	0.39	2.51	2.61	11/12/2012 19:20:00	0.40	2.46	2.65
11/12/2012 16:40:00	0.41	2.44	2.77	11/12/2012 19:25:00	0.41	2.57	2.68

time	flow rate	velocity	level	time	flow rate	velocity	level
11/12/2012 19:30:00	0.42	2.47	2.79	11/12/2012 22:15:00	0.42	2.62	2.66
11/12/2012 19:35:00	0.39	2.57	2.49	11/12/2012 22:20:00	0.45	2.58	2.91
11/12/2012 19:40:00	0.38	2.49	2.60	11/12/2012 22:25:00	0.40	2.53	2.62
11/12/2012 19:45:00	0.40	2.45	2.67	11/12/2012 22:30:00	0.42	2.64	2.72
11/12/2012 19:50:00	0.40	2.44	2.74	11/12/2012 22:35:00	0.44	2.62	2.84
11/12/2012 19:55:00	0.40	2.57	2.61	11/12/2012 22:40:00	0.45	2.61	2.92
11/12/2012 20:00:00	0.40	2.63	2.61	11/12/2012 22:45:00	0.43	2.51	2.80
11/12/2012 20:05:00	0.39	2.53	2.59	11/12/2012 22:50:00	0.39	2.50	2.59
11/12/2012 20:10:00	0.43	2.56	2.80	11/12/2012 22:55:00	0.35	2.40	2.41
11/12/2012 20:15:00	0.34	2.49	2.25	11/12/2012 23:00:00	0.42	2.55	2.82
11/12/2012 20:20:00	0.37	2.43	2.50	11/12/2012 23:05:00	0.39	2.46	2.66
11/12/2012 20:25:00	0.37	2.46	2.50	11/12/2012 23:10:00	0.41	2.57	2.74
11/12/2012 20:30:00	0.41	2.55	2.70	11/12/2012 23:15:00	0.43	2.49	2.85
11/12/2012 20:35:00	0.45	2.45	2.93	11/12/2012 23:20:00	0.43	2.46	2.80
11/12/2012 20:40:00	0.44	2.61	2.86	11/12/2012 23:25:00	0.38	2.51	2.57
11/12/2012 20:45:00	0.40	2.46	2.65	11/12/2012 23:30:00	0.37	2.40	2.49
11/12/2012 20:50:00	0.36	2.41	2.49	11/12/2012 23:35:00	0.40	2.55	2.66
11/12/2012 20:55:00	0.38	2.42	2.58	11/12/2012 23:40:00	0.40	2.51	2.68
11/12/2012 21:00:00	0.39	2.54	2.60	11/12/2012 23:45:00	0.36	2.44	2.52
11/12/2012 21:05:00	0.44	2.66	2.83	11/12/2012 23:50:00	0.37	2.47	2.56
11/12/2012 21:10:00	0.47	2.64	2.89	11/12/2012 23:55:00	0.39	2.40	2.62
11/12/2012 21:15:00	0.39	2.58	2.56	4/7/2013 00:00:00	0.22	1.62	2.79
11/12/2012 21:20:00	0.44	2.59	2.77	4/7/2013 00:05:00	0.22	1.61	2.79
11/12/2012 21:25:00	0.38	2.53	2.53	4/7/2013 00:10:00	0.22	1.63	2.84
11/12/2012 21:30:00	0.43	2.61	2.83	4/7/2013 00:15:00	0.21	1.60	2.82
11/12/2012 21:35:00	0.41	2.49	2.67	4/7/2013 00:20:00	0.22	1.61	2.88
11/12/2012 21:40:00	0.45	2.63	2.86	4/7/2013 00:25:00	0.21	1.62	2.79
11/12/2012 21:45:00	0.41	2.49	2.65	4/7/2013 00:30:00	0.22	1.63	2.79
11/12/2012 21:50:00	0.42	2.54	2.73	4/7/2013 00:35:00	0.22	1.62	2.89
11/12/2012 21:55:00	0.44	2.57	2.79	4/7/2013 00:40:00	0.22	1.59	2.76
11/12/2012 22:00:00	0.40	2.48	2.65	4/7/2013 00:45:00	0.22	1.62	2.80
11/12/2012 22:05:00	0.41	2.56	2.76	4/7/2013 00:50:00	0.21	1.55	2.81
11/12/2012 22:10:00	0.40	2.47	2.69	4/7/2013 00:55:00	0.22	1.58	2.84

time	flow rate	velocity	level	time	flow rate	velocity	level
4/7/13 1:00	0.220	1.63	2.81	4/7/13 3:45	0.230	1.64	2.81
4/7/13 1:05	0.210	1.57	2.74	4/7/13 3:50	0.220	1.6	2.85
4/7/13 1:10	0.220	1.6	2.8	4/7/13 3:55	0.230	1.59	2.91
4/7/13 1:15	0.210	1.57	2.77	4/7/13 4:00	0.220	1.65	2.82
4/7/13 1:20	0.220	1.63	2.86	4/7/13 4:05	0.220	1.6	2.84
4/7/13 1:25	0.210	1.6	2.7	4/7/13 4:10	0.230	1.59	2.93
4/7/13 1:30	0.210	1.6	2.74	4/7/13 4:15	0.220	1.64	2.8
4/7/13 1:35	0.220	1.55	2.79	4/7/13 4:20	0.210	1.61	2.72
4/7/13 1:40	0.220	1.53	2.84	4/7/13 4:25	0.220	1.63	2.91
4/7/13 1:45	0.220	1.58	2.85	4/7/13 4:30	0.210	1.6	2.73
4/7/13 1:50	0.220	1.65	2.86	4/7/13 4:35	0.220	1.53	2.88
4/7/13 1:55	0.220	1.63	2.88	4/7/13 4:40	0.220	1.59	2.81
4/7/13 2:00	0.230	1.61	2.9	4/7/13 4:45	0.220	1.62	2.78
4/7/13 2:05	0.230	1.64	2.83	4/7/13 4:50	0.210	1.6	2.68
4/7/13 2:10	0.210	1.62	2.7	4/7/13 4:55	0.220	1.59	2.73
4/7/13 2:15	0.210	1.58	2.76	4/7/13 5:00	0.230	1.59	2.92
4/7/13 2:20	0.220	1.6	2.82	4/7/13 5:05	0.220	1.63	2.77
4/7/13 2:25	0.220	1.6	2.8	4/7/13 5:10	0.230	1.63	2.94
4/7/13 2:30	0.220	1.58	2.83	4/7/13 5:15	0.220	1.64	2.79
4/7/13 2:35	0.220	1.6	2.87	4/7/13 5:20	0.220	1.6	2.83
4/7/13 2:40	0.230	1.59	2.86	4/7/13 5:25	0.220	1.58	2.76
4/7/13 2:45	0.220	1.64	2.79	4/7/13 5:30	0.220	1.59	2.85
4/7/13 2:50	0.230	1.68	2.94	4/7/13 5:35	0.220	1.58	2.73
4/7/13 2:55	0.220	1.6	2.82	4/7/13 5:40	0.230	1.62	2.88
4/7/13 3:00	0.220	1.59	2.83	4/7/13 5:45	0.220	1.6	2.85
4/7/13 3:05	0.220	1.58	2.83	4/7/13 5:50	0.220	1.62	2.8
4/7/13 3:10	0.220	1.61	2.81	4/7/13 5:55	0.220	1.54	2.84
4/7/13 3:15	0.220	1.59	2.79	4/7/13 6:00	0.230	1.66	2.93
4/7/13 3:20	0.230	1.61	2.89	4/7/13 6:05	0.220	1.64	2.81
4/7/13 3:25	0.210	1.58	2.74	4/7/13 6:10	0.220	1.61	2.91
4/7/13 3:30	0.220	1.61	2.9	4/7/13 6:15	0.220	1.63	2.76
4/7/13 3:35	0.200	1.55	2.74	4/7/13 6:20	0.220	1.6	2.77
4/7/13 3:40	0.230	1.61	2.87	4/7/13 6:25	0.220	1.62	2.82

time	flow rate	velocity	level	time	flow rate	velocity	level
4/7/2013 6:30	0.230	1.68	2.88	4/7/2013 9:15	0.24	1.6	3.01
4/7/2013 6:35	0.230	1.61	2.87	4/7/2013 9:20	0.24	1.61	2.93
4/7/2013 6:40	0.230	1.58	2.85	4/7/2013 9:25	0.23	1.66	2.82
4/7/2013 6:45	0.230	1.61	2.94	4/7/2013 9:30	0.23	1.7	2.85
4/7/2013 6:50	0.210	1.54	2.8	4/7/2013 9:35	0.23	1.61	2.89
4/7/2013 6:55	0.230	1.65	2.81	4/7/2013 9:40	0.22	1.62	2.71
4/7/2013 7:00	0.210	1.59	2.75	4/7/2013 9:45	0.24	1.7	2.91
4/7/2013 7:05	0.21	1.52	2.77	4/7/2013 9:50	0.23	1.55	2.9
4/7/2013 7:10	0.22	1.67	2.89	4/7/2013 9:55	0.23	1.64	2.82
4/7/2013 7:15	0.24	1.63	2.84	4/7/2013 10:00	0.23	1.62	2.93
4/7/2013 7:20	0.23	1.63	2.87	4/7/2013 10:05	0.22	1.64	2.66
4/7/2013 7:25	0.23	1.61	2.83	4/7/2013 10:10	0.23	1.59	2.87
4/7/2013 7:30	0.22	1.69	2.71	4/7/2013 10:15	0.21	1.54	2.74
4/7/2013 7:35	0.230	1.6	2.87	4/7/2013 10:20	0.23	1.66	2.88
4/7/2013 7:40	0.230	1.62	2.89	4/7/2013 10:25	0.23	1.62	2.92
4/7/2013 7:45	0.240	1.68	2.91	4/7/2013 10:30	0.22	1.64	2.8
4/7/2013 7:50	0.220	1.72	2.69	4/7/2013 10:35	0.23	1.62	2.87
4/7/2013 7:55	0.240	1.59	2.99	4/7/2013 10:40	0.24	1.62	2.93
4/7/2013 8:00	0.230	1.64	2.81	4/7/2013 10:45	0.22	1.63	2.79
4/7/2013 8:05	0.230	1.62	2.88	4/7/2013 10:50	0.23	1.7	2.89
4/7/2013 8:10	0.240	1.67	2.93	4/7/2013 10:55	0.23	1.67	2.88
4/7/2013 8:15	0.240	1.59	2.99	4/7/2013 11:00	0.23	1.64	2.85
4/7/2013 8:20	0.240	1.64	2.87	4/7/2013 11:05	0.24	1.7	2.9
4/7/2013 8:25	0.230	1.63	2.79	4/7/2013 11:10	0.23	1.61	2.88
4/7/2013 8:30	0.240	1.64	2.85	4/7/2013 11:15	0.23	1.59	2.95
4/7/2013 8:35	0.250	1.59	3.13	4/7/2013 11:20	0.22	1.61	2.8
4/7/2013 8:40	0.240	1.65	2.95	4/7/2013 11:25	0.23	1.58	2.81
4/7/2013 8:45	0.250	1.67	3.05	4/7/2013 11:30	0.23	1.62	2.81
4/7/2013 8:50	0.250	1.73	2.99	4/7/2013 11:35	0.23	1.69	2.86
4/7/2013 8:55	0.240	1.59	2.91	4/7/2013 11:40	0.23	1.73	2.83
4/7/2013 9:00	0.220	1.57	2.86	4/7/2013 11:45	0.24	1.71	2.88
4/7/2013 9:05	0.230	1.63	2.84	4/7/2013 11:50	0.23	1.62	2.81
4/7/2013 9:10	0.240	1.64	3.07	4/7/2013 11:55	0.23	1.63	2.9

time	flow rate	velocity	level	time	flow rate	velocity	level
4/7/2013 12:00	0.23	1.67	2.83	4/7/2013 14:45	0.23	1.64	2.97
4/7/2013 12:05	0.23	1.59	2.98	4/7/2013 14:50	0.23	1.61	2.95
4/7/2013 12:10	0.22	1.54	2.87	4/7/2013 14:55	0.24	1.59	3.04
4/7/2013 12:15	0.23	1.66	2.87	4/7/2013 15:00	0.23	1.67	2.9
4/7/2013 12:20	0.24	1.64	2.96	4/7/2013 15:05	0.23	1.63	2.99
4/7/2013 12:25	0.22	1.63	2.83	4/7/2013 15:10	0.22	1.64	2.85
4/7/2013 12:30	0.24	1.61	2.98	4/7/2013 15:15	0.23	1.66	2.86
4/7/2013 12:35	0.22	1.63	2.79	4/7/2013 15:20	0.23	1.63	2.82
4/7/2013 12:40	0.21	1.6	2.72	4/7/2013 15:25	0.23	1.65	2.84
4/7/2013 12:45	0.22	1.6	2.76	4/7/2013 15:30	0.22	1.56	2.93
4/7/2013 12:50	0.22	1.61	2.83	4/7/2013 15:35	0.22	1.58	2.88
4/7/2013 12:55	0.22	1.67	2.73	4/7/2013 15:40	0.23	1.64	2.88
4/7/2013 13:00	0.21	1.6	2.72	4/7/2013 15:45	0.22	1.6	2.83
4/7/2013 13:05	0.22	1.54	2.87	4/7/2013 15:50	0.23	1.56	2.99
4/7/2013 13:10	0.23	1.62	2.88	4/7/2013 15:55	0.23	1.68	2.88
4/7/2013 13:15	0.23	1.65	2.84	4/7/2013 16:00	0.22	1.58	2.9
4/7/2013 13:20	0.24	1.7	2.88	4/7/2013 16:05	0.23	1.62	2.86
4/7/2013 13:25	0.23	1.61	2.87	4/7/2013 16:10	0.24	1.57	2.99
4/7/2013 13:30	0.22	1.59	2.85	4/7/2013 16:15	0.23	1.59	2.88
4/7/2013 13:35	0.22	1.62	2.83	4/7/2013 16:20	0.22	1.53	2.93
4/7/2013 13:40	0.22	1.58	2.87	4/7/2013 16:25	0.22	1.59	2.79
4/7/2013 13:45	0.23	1.61	2.95	4/7/2013 16:30	0.22	1.57	2.86
4/7/2013 13:50	0.23	1.6	3.02	4/7/2013 16:35	0.22	1.6	2.89
4/7/2013 13:55	0.23	1.64	2.96	4/7/2013 16:40	0.21	1.58	2.77
4/7/2013 14:00	0.24	1.61	2.97	4/7/2013 16:45	0.22	1.61	2.79
4/7/2013 14:05	0.24	1.54	3.01	4/7/2013 16:50	0.22	1.61	2.87
4/7/2013 14:10	0.22	1.6	2.89	4/7/2013 16:55	0.23	1.59	2.93
4/7/2013 14:15	0.23	1.6	2.98	4/7/2013 17:00	0.21	1.62	2.71
4/7/2013 14:20	0.21	1.66	2.79	4/7/2013 17:05	0.22	1.65	2.75
4/7/2013 14:25	0.23	1.65	2.92	4/7/2013 17:10	0.23	1.57	2.92
4/7/2013 14:30	0.23	1.51	2.92	4/7/2013 17:15	0.23	1.65	2.9
4/7/2013 14:35	0.23	1.65	2.9	4/7/2013 17:20	0.24	1.62	3.04
4/7/2013 14:40	0.22	1.57	2.93	4/7/2013 17:25	0.23	1.6	2.92

time	flow rate	velocity	level	time	flow rate	velocity	level
4/7/2013 17:30	0.23	1.59	2.89	4/7/13 20:15	3.61	6.07	5.97
4/7/2013 17:35	0.22	1.6	2.76	4/7/13 20:20	3.66	6.61	6.12
4/7/2013 17:40	0.22	1.59	2.88	4/7/13 20:25	5.62	7.69	7.46
4/7/2013 17:45	0.23	1.6	2.91	4/7/13 20:30	3.84	5.81	6.29
4/7/2013 17:50	0.23	1.64	2.91	4/7/13 20:35	2.05	5.22	4.41
4/7/2013 17:55	0.23	1.65	2.92	4/7/13 20:40	1.51	4.41	4.13
4/7/2013 18:00	0.22	1.58	2.79	4/7/13 20:45	1.42	4.2	4.41
4/7/2013 18:05	0.22	1.56	2.84	4/7/13 20:50	1.28	3.94	4.17
4/7/2013 18:10	0.23	1.69	2.85	4/7/13 20:55	1.21	3.74	4.27
4/7/2013 18:15	0.23	1.57	2.95	4/7/13 21:00	1.13	3.66	4.25
4/7/2013 18:20	0.23	1.63	2.91	4/7/13 21:05	1.04	3.58	4.08
4/7/2013 18:25	0.22	1.68	2.86	4/7/13 21:10	0.95	3.56	3.77
4/7/2013 18:30	0.23	1.59	3.01	4/7/13 21:15	1.04	3.4	4.16
4/7/2013 18:35	0.23	1.64	2.94	4/7/13 21:20	0.96	3.38	4.04
4/7/2013 18:40	0.24	1.62	2.96	4/7/13 21:25	0.95	3.37	3.96
4/7/2013 18:45	0.24	1.66	3.05	4/7/13 21:30	0.95	3.37	4.04
4/7/2013 18:50	0.23	1.61	2.98	4/7/13 21:35	0.97	3.34	4.15
4/7/2013 18:55	2.66	7.43	5.98	4/7/13 21:40	0.94	3.36	4.07
4/7/2013 19:00	2.73	5.24	4.99	4/7/13 21:45	0.89	3.36	3.93
4/7/2013 19:05	1.43	3.98	4.14	4/7/13 21:50	0.91	3.26	4.05
4/7/2013 19:10	1.05	3.49	4.13	4/7/13 21:55	0.88	3.25	3.87
4/7/2013 19:15	0.81	3.25	3.57	4/7/13 22:00	0.9	3.3	4.01
4/7/2013 19:20	0.71	2.72	3.74	4/7/13 22:05	0.92	3.43	3.98
4/7/2013 19:25	0.57	2.78	3.4	4/7/13 22:10	0.92	3.33	3.94
4/7/2013 19:30	0.58	2.76	3.47	4/7/13 22:15	0.95	3.48	3.9
4/7/2013 19:35	0.57	2.66	3.33	4/7/13 22:20	0.88	3.42	3.74
4/7/2013 19:40	0.55	2.59	3.42	4/7/13 22:25	0.9	3.33	3.89
4/7/2013 19:45	0.69	3.12	3.66	4/7/13 22:30	0.88	3.4	3.78
4/7/2013 19:50	1.58	4.91	4.42	4/7/13 22:35	0.87	3.29	3.79
4/7/2013 19:55	1.47	4.43	4.1	4/7/13 22:40	0.9	3.43	3.8
4/7/2013 20:00	1.35	4.28	4.05	4/7/13 22:45	0.88	3.41	3.68
4/7/2013 20:05	1.64	5.47	4.58	4/7/13 22:50	0.87	3.44	3.71
4/7/2013 20:10	3.89	6.89	6.75	4/7/13 22:55	0.87	3.33	3.66

time	flow rate	velocity	level	time	flow rate	velocity	level
4/7/13 23:00	0.88	3.38	3.78	4/8/13 1:45	1.47	4.48	4.25
4/7/13 23:05	0.81	3.34	3.56	4/8/13 1:50	1.5	4.34	4.4
4/7/13 23:10	0.9	3.31	3.96	4/8/13 1:55	1.49	4.39	4.41
4/7/13 23:15	0.8	3.2	3.58	4/8/13 2:00	1.4	4.27	4.16
4/7/13 23:20	0.79	3.29	3.63	4/8/13 2:05	1.48	4.24	4.55
4/7/13 23:25	0.79	3.13	3.59	4/8/13 2:10	1.43	4.13	4.45
4/7/13 23:30	0.75	3.13	3.52	4/8/13 2:15	1.37	4.2	4.25
4/7/13 23:35	0.76	2.94	3.67	4/8/13 2:20	1.36	4.14	4.28
4/7/13 23:40	0.78	3	3.8	4/8/13 2:25	1.31	4.1	4.12
4/7/13 23:45	0.74	2.98	3.63	4/8/13 2:30	1.31	4.08	4.17
4/7/13 23:50	0.66	2.97	3.44	4/8/13 2:35	1.35	4.07	4.36
4/7/13 23:55	0.68	3.13	3.45	4/8/13 2:40	1.36	4.11	4.36
4/8/13 0:00	1.02	3.53	4.38	4/8/13 2:45	1.33	4.15	4.24
4/8/13 0:05	1.13	3.51	4.31	4/8/13 2:50	1.35	4.03	4.33
4/8/13 0:10	0.97	3.24	4.18	4/8/13 2:55	1.32	4.04	4.31
4/8/13 0:15	2.71	10.54	0	4/8/13 3:00	1.33	4.03	4.34
4/8/13 0:20	11.48	9.77	8.96	4/8/13 3:05	1.34	4.16	4.31
4/8/13 0:25	11.76	12.27	8.77	4/8/13 3:10	1.34	4.11	4.24
4/8/13 0:30	8.98	8.15	8.13	4/8/13 3:15	1.24	4.22	3.95
4/8/13 0:35	4.03	6.53	5.86	4/8/13 3:20	1.29	4.11	4.07
4/8/13 0:40	3.1	5.97	5.6	4/8/13 3:25	1.37	4.25	4.24
4/8/13 0:45	2.44	5.8	4.65	4/8/13 3:30	1.32	4.36	4.03
4/8/13 0:50	2.23	5.45	4.52	4/8/13 3:35	1.32	4.32	3.99
4/8/13 0:55	2	5.25	4.3	4/8/13 3:40	1.29	4.22	3.86
4/8/13 1:00	1.89	5.02	4.4	4/8/13 3:45	1.37	4.32	4.06
4/8/13 1:05	1.92	4.88	4.62	4/8/13 3:50	1.39	4.21	4.13
4/8/13 1:10	1.65	4.82	4.21	4/8/13 3:55	1.32	4.24	3.96
4/8/13 1:15	1.73	4.78	4.43	4/8/13 4:00	1.18	4.17	3.59
4/8/13 1:20	1.62	4.66	4.22	4/8/13 4:05	1.26	4.34	3.78
4/8/13 1:25	1.62	4.58	4.33	4/8/13 4:10	1.34	4.25	4.05
4/8/13 1:30	1.66	4.5	4.54	4/8/13 4:15	1.28	4.27	3.87
4/8/13 1:35	1.53	4.5	4.28	4/8/13 4:20	1.25	4.15	3.83
4/8/13 1:40	1.49	4.37	4.31	4/8/13 4:25	1.16	4.21	3.54

time	flow rate	velocity	level	time	flow rate	velocity	level
4/8/13 4:30	1.24	4.23	3.83	4/8/13 7:15	0.87	3.7	3.18
4/8/13 4:35	1.24	4.2	3.8	4/8/13 7:20	0.89	3.59	3.36
4/8/13 4:40	1.13	4.11	3.46	4/8/13 7:25	0.91	3.68	3.31
4/8/13 4:45	1.2	4.09	3.79	4/8/13 7:30	0.87	3.66	3.29
4/8/13 4:50	1.19	4.11	3.71	4/8/13 7:35	0.67	2.72	3.8
4/8/13 4:55	1.21	4.08	3.81	4/8/13 7:40	0.65	2.68	3.91
4/8/13 5:00	1.19	4.12	3.78	4/8/13 7:45	0.67	2.72	3.98
4/8/13 5:05	1.06	4.01	3.43	4/8/13 7:50	0.67	2.7	3.88
4/8/13 5:10	1.08	4.04	3.49	4/8/13 7:55	0.71	2.82	4.11
4/8/13 5:15	1.13	4.03	3.68	4/8/13 8:00	0.71	2.76	4.1
4/8/13 5:20	1.08	4	3.59	4/8/13 8:05	0.7	2.76	4.05
4/8/13 5:25	1.07	4.05	3.57	4/8/13 8:10	0.74	2.79	4.18
4/8/13 5:30	1.03	4.04	3.47	4/8/13 8:15	0.71	2.72	4.07
4/8/13 5:35	1.03	4.07	3.46	4/8/13 8:20	0.67	2.77	3.8
4/8/13 5:40	1.01	3.93	3.47	4/8/13 8:25	0.7	2.78	4
4/8/13 5:45	1.04	3.99	3.56	4/8/13 8:30	0.7	2.74	4.07
4/8/13 5:50	1.05	3.84	3.55	4/8/13 8:35	0.7	2.77	4.09
4/8/13 5:55	1	3.95	3.42	4/8/13 8:40	0.68	2.73	3.93
4/8/13 6:00	0.96	3.91	3.36	4/8/13 8:45	0.67	2.74	3.96
4/8/13 6:05	0.97	3.97	3.34	4/8/13 8:50	0.7	2.76	4.07
4/8/13 6:10	1.05	3.86	3.61	4/8/13 8:55	0.68	2.71	3.96
4/8/13 6:15	0.98	3.83	3.46	4/8/13 9:00	0.68	2.66	4
4/8/13 6:20	0.98	3.91	3.43	4/8/13 9:05	0.69	2.76	4.01
4/8/13 6:25	0.94	3.69	3.34	4/8/13 9:10	0.68	2.74	3.98
4/8/13 6:30	0.97	3.84	3.48	4/8/13 9:15	0.71	2.79	4.15
4/8/13 6:35	0.96	3.84	3.49	4/8/13 9:20	0.69	2.68	3.97
4/8/13 6:40	0.95	3.78	3.43	4/8/13 9:25	0.68	2.7	3.98
4/8/13 6:45	0.92	3.79	3.3	4/8/13 9:30	0.7	2.7	4.02
4/8/13 6:50	0.89	3.72	3.3	4/8/13 9:35	0.71	2.73	4.15
4/8/13 6:55	0.94	3.64	3.47	4/8/13 9:40	0.68	2.69	4.03
4/8/13 7:00	0.81	3.8	2.91	4/8/13 9:45	0.7	2.71	4.05
4/8/13 7:05	0.89	3.6	3.27	4/8/13 9:50	0.68	2.72	4.02
4/8/13 7:10	0.93	3.72	3.38	4/8/13 9:55	0.68	2.73	3.98

time	flow rate	velocity	level	time	flow rate	velocity	level
4/8/13 10:00	0.69	2.72	4	4/8/13 12:45	0.6	2.58	3.79
4/8/13 10:05	0.67	2.69	3.88	4/8/13 12:50	0.61	2.59	3.84
4/8/13 10:10	0.67	2.73	3.91	4/8/13 12:55	0.6	2.53	3.91
4/8/13 10:15	0.68	2.72	4.05	4/8/13 13:00	0.61	2.52	3.95
4/8/13 10:20	0.65	2.68	3.92	4/8/13 13:05	0.63	2.58	3.96
4/8/13 10:25	0.68	2.69	4.12	4/8/13 13:10	0.63	2.51	4.1
4/8/13 10:30	0.68	2.63	4.12	4/8/13 13:15	0.6	2.51	3.9
4/8/13 10:35	0.64	2.7	3.86	4/8/13 13:20	0.56	2.48	3.73
4/8/13 10:40	0.66	2.64	3.96	4/8/13 13:25	0.59	2.5	3.89
4/8/13 10:45	0.65	2.71	3.98	4/8/13 13:30	0.6	2.54	3.87
4/8/13 10:50	0.66	2.64	4	4/8/13 13:35	0.58	2.48	3.86
4/8/13 10:55	0.66	2.64	4.05	4/8/13 13:40	0.58	2.54	3.78
4/8/13 11:00	0.64	2.62	3.91	4/8/13 13:45	0.59	2.51	3.91
4/8/13 11:05	0.62	2.59	3.91	4/8/13 13:50	0.58	2.5	3.81
4/8/13 11:10	0.63	2.67	3.92	4/8/13 13:55	0.6	2.5	3.92
4/8/13 11:15	0.63	2.55	3.91	4/8/13 14:00	0.58	2.5	3.88
4/8/13 11:20	0.64	2.61	4.04	4/8/13 14:05	0.6	2.48	4.03
4/8/13 11:25	0.63	2.61	3.84	4/8/13 14:10	0.6	2.59	3.85
4/8/13 11:30	0.59	2.6	3.72	4/8/13 14:15	0.6	2.53	3.97
4/8/13 11:35	0.64	2.62	4.02	4/8/13 14:20	0.59	2.51	3.85
4/8/13 11:40	0.65	2.61	4.09	4/8/13 14:25	0.58	2.5	3.85
4/8/13 11:45	0.63	2.61	3.98	4/8/13 14:30	0.6	2.48	4
4/8/13 11:50	0.63	2.59	4.05	4/8/13 14:35	0.58	2.46	3.88
4/8/13 11:55	0.58	2.54	3.76	4/8/13 14:40	0.58	2.56	3.87
4/8/13 12:00	0.62	2.55	4	4/8/13 14:45	0.61	2.52	4
4/8/13 12:05	0.63	2.53	3.95	4/8/13 14:50	0.57	2.44	3.87
4/8/13 12:10	0.6	2.58	3.92	4/8/13 14:55	0.58	2.44	3.95
4/8/13 12:15	0.63	2.55	4.08	4/8/13 15:00	0.58	2.48	3.91
4/8/13 12:20	0.61	2.55	3.91	4/8/13 15:05	0.58	2.5	3.87
4/8/13 12:25	0.59	2.52	3.86	4/8/13 15:10	0.58	2.49	3.84
4/8/13 12:30	0.6	2.63	3.87	4/8/13 15:15	0.57	2.52	3.82
4/8/13 12:35	0.6	2.5	3.84	4/8/13 15:20	0.64	2.63	4.03
4/8/13 12:40	0.63	2.56	3.96	4/8/13 15:25	0.62	2.6	3.85

time	flow rate	velocity	level	time	flow rate	velocity	level
4/8/13 15:30	0.61	2.51	3.94	4/8/13 18:15	0.57	2.54	3.68
4/8/13 15:35	0.62	2.54	3.95	4/8/13 18:20	0.56	2.51	3.62
4/8/13 15:40	0.66	2.91	4.04	4/8/13 18:25	0.57	2.55	3.78
4/8/13 15:45	0.7	2.65	3.92	4/8/13 18:30	0.56	2.45	3.72
4/8/13 15:50	0.61	2.59	3.83	4/8/13 18:35	0.58	2.51	3.84
4/8/13 15:55	0.59	2.58	3.8	4/8/13 18:40	0.57	2.47	3.8
4/8/13 16:00	0.61	2.61	3.9	4/8/13 18:45	0.55	2.53	3.62
4/8/13 16:05	0.6	2.6	3.73	4/8/13 18:50	0.57	2.51	3.84
4/8/13 16:10	0.62	2.65	3.82	4/8/13 18:55	0.55	2.42	3.75
4/8/13 16:15	0.62	2.58	3.84	4/8/13 19:00	0.6	2.61	3.89
4/8/13 16:20	0.6	2.64	3.67	4/8/13 19:05	0.61	2.56	3.86
4/8/13 16:25	0.66	2.63	3.94	4/8/13 19:10	0.57	2.52	3.71
4/8/13 16:30	0.59	2.58	3.73	4/8/13 19:15	0.56	2.57	3.77
4/8/13 16:35	0.62	2.64	3.81	4/8/13 19:20	0.56	2.48	3.76
4/8/13 16:40	0.6	2.6	3.74	4/8/13 19:25	0.57	2.43	3.84
4/8/13 16:45	0.6	2.57	3.85	4/8/13 19:30	0.53	2.55	3.6
4/8/13 16:50	0.6	2.58	3.78	4/8/13 19:35	0.53	2.43	3.58
4/8/13 16:55	0.51	2.59	3.29	4/8/13 19:40	0.52	2.42	3.58
4/8/13 17:00	0.6	2.56	3.8	4/8/13 19:45	0.55	2.41	3.74
4/8/13 17:05	0.6	2.67	3.75	4/8/13 19:50	0.54	2.51	3.72
4/8/13 17:10	0.59	2.65	3.66	4/8/13 19:55	0.57	2.49	3.79
4/8/13 17:15	0.59	2.64	3.64	4/8/13 20:00	0.56	2.4	3.82
4/8/13 17:20	0.61	2.57	3.84	4/8/13 20:05	0.54	2.43	3.68
4/8/13 17:25	0.6	2.6	3.73	4/8/13 20:10	0.54	2.44	3.79
4/8/13 17:30	0.59	2.65	3.77	4/8/13 20:15	0.58	2.48	3.83
4/8/13 17:35	0.6	2.52	3.88	4/8/13 20:20	0.52	2.4	3.57
4/8/13 17:40	0.59	2.53	3.88	4/8/13 20:25	0.56	2.4	3.79
4/8/13 17:45	0.59	2.56	3.8	4/8/13 20:30	0.52	2.41	3.51
4/8/13 17:50	0.6	2.61	3.8	4/8/13 20:35	0.53	2.37	3.7
4/8/13 17:55	0.59	2.55	3.76	4/8/13 20:40	0.48	2.29	3.47
4/8/13 18:00	0.57	2.58	3.7	4/8/13 20:45	0.55	2.4	3.78
4/8/13 18:05	0.6	2.58	3.86	4/8/13 20:50	0.54	2.41	3.67
4/8/13 18:10	0.61	2.61	3.89	4/8/13 20:55	0.52	2.49	3.68

time	flow rate	velocity	level	time	flow rate	velocity	level
4/8/13 15:30	0.61	2.51	3.94	4/8/13 18:15	0.57	2.54	3.68
4/8/13 15:35	0.62	2.54	3.95	4/8/13 18:20	0.56	2.51	3.62
4/8/13 15:40	0.66	2.91	4.04	4/8/13 18:25	0.57	2.55	3.78
4/8/13 15:45	0.7	2.65	3.92	4/8/13 18:30	0.56	2.45	3.72
4/8/13 15:50	0.61	2.59	3.83	4/8/13 18:35	0.58	2.51	3.84
4/8/13 15:55	0.59	2.58	3.8	4/8/13 18:40	0.57	2.47	3.8
4/8/13 16:00	0.61	2.61	3.9	4/8/13 18:45	0.55	2.53	3.62
4/8/13 16:05	0.6	2.6	3.73	4/8/13 18:50	0.57	2.51	3.84
4/8/13 16:10	0.62	2.65	3.82	4/8/13 18:55	0.55	2.42	3.75
4/8/13 16:15	0.62	2.58	3.84	4/8/13 19:00	0.6	2.61	3.89
4/8/13 16:20	0.6	2.64	3.67	4/8/13 19:05	0.61	2.56	3.86
4/8/13 16:25	0.66	2.63	3.94	4/8/13 19:10	0.57	2.52	3.71
4/8/13 16:30	0.59	2.58	3.73	4/8/13 19:15	0.56	2.57	3.77
4/8/13 16:35	0.62	2.64	3.81	4/8/13 19:20	0.56	2.48	3.76
4/8/13 16:40	0.6	2.6	3.74	4/8/13 19:25	0.57	2.43	3.84
4/8/13 16:45	0.6	2.57	3.85	4/8/13 19:30	0.53	2.55	3.6
4/8/13 16:50	0.6	2.58	3.78	4/8/13 19:35	0.53	2.43	3.58
4/8/13 16:55	0.51	2.59	3.29	4/8/13 19:40	0.52	2.42	3.58
4/8/13 17:00	0.6	2.56	3.8	4/8/13 19:45	0.55	2.41	3.74
4/8/13 17:05	0.6	2.67	3.75	4/8/13 19:50	0.54	2.51	3.72
4/8/13 17:10	0.59	2.65	3.66	4/8/13 19:55	0.57	2.49	3.79
4/8/13 17:15	0.59	2.64	3.64	4/8/13 20:00	0.56	2.4	3.82
4/8/13 17:20	0.61	2.57	3.84	4/8/13 20:05	0.54	2.43	3.68
4/8/13 17:25	0.6	2.6	3.73	4/8/13 20:10	0.54	2.44	3.79
4/8/13 17:30	0.59	2.65	3.77	4/8/13 20:15	0.58	2.48	3.83
4/8/13 17:35	0.6	2.52	3.88	4/8/13 20:20	0.52	2.4	3.57
4/8/13 17:40	0.59	2.53	3.88	4/8/13 20:25	0.56	2.4	3.79
4/8/13 17:45	0.59	2.56	3.8	4/8/13 20:30	0.52	2.41	3.51
4/8/13 17:50	0.6	2.61	3.8	4/8/13 20:35	0.53	2.37	3.7
4/8/13 17:55	0.59	2.55	3.76	4/8/13 20:40	0.48	2.29	3.47
4/8/13 18:00	0.57	2.58	3.7	4/8/13 20:45	0.55	2.4	3.78
4/8/13 18:05	0.6	2.58	3.86	4/8/13 20:50	0.54	2.41	3.67
4/8/13 18:10	0.61	2.61	3.89	4/8/13 20:55	0.52	2.49	3.68

time	flow rate	velocity	level	time	flow rate	velocity	level
4/8/13 21:00	0.55	2.51	3.77	4/8/13 23:45	0.400	1.95	3.73
4/8/13 21:05	0.5	2.38	3.55	4/8/13 23:50	0.390	2.01	3.64
4/8/13 21:10	0.53	2.23	3.84	4/8/13 23:55	0.410	2.05	3.74
4/8/13 21:15	0.48	2.29	3.63	4/9/13 0:00	0.410	2.08	3.62
4/8/13 21:20	0.51	2.33	3.73	4/9/13 0:05	0.420	2.04	3.74
4/8/13 21:25	0.47	2.3	3.7	4/9/13 0:10	0.420	2.01	3.67
4/8/13 21:30	0.51	2.33	3.72	4/9/13 0:15	0.400	1.92	3.72
4/8/13 21:35	0.49	2.37	3.66	4/9/13 0:20	0.420	2.16	3.72
4/8/13 21:40	0.46	2.11	3.64	4/9/13 0:25	0.390	1.91	3.75
4/8/13 21:45	0.5	2.32	3.68	4/9/13 0:30	0.410	2.02	3.72
4/8/13 21:50	0.46	2.13	3.73	4/9/13 0:35	0.420	2.06	3.71
4/8/13 21:55	0.48	2.22	3.67	4/9/13 0:40	0.420	1.96	3.84
4/8/13 22:00	0.46	2.27	3.72	4/9/13 0:45	0.410	1.99	3.8
4/8/13 22:05	0.49	2.34	3.73	4/9/13 0:50	0.380	1.96	3.67
4/8/13 22:10	0.47	2.18	3.71	4/9/13 0:55	0.390	1.85	3.72
4/8/13 22:15	0.47	2.15	3.86	4/9/13 1:00	0.380	1.97	3.5
4/8/13 22:20	0.46	2.19	3.71	4/9/13 1:05	0.400	1.94	3.67
4/8/13 22:25	0.41	2.05	3.52	4/9/13 1:10	0.410	2.1	3.86
4/8/13 22:30	0.45	2.14	3.73	4/9/13 1:15	0.390	1.93	3.59
4/8/13 22:35	0.47	2.18	3.78	4/9/13 1:20	0.410	2.01	3.71
4/8/13 22:40	0.47	2.21	3.69	4/9/13 1:25	0.400	1.97	3.64
4/8/13 22:45	0.47	2.19	3.81	4/9/13 1:30	0.400	2.06	3.69
4/8/13 22:50	0.48	2.23	3.77	4/9/13 1:35	0.410	2	3.69
4/8/13 22:55	0.45	2.2	3.74	4/9/13 1:40	0.430	2.25	3.73
4/8/13 23:00	0.45	2.1	3.73	4/9/13 1:45	0.420	2.03	3.78
4/8/13 23:05	0.44	2.09	3.78	4/9/13 1:50	0.430	2.03	3.79
4/8/13 23:10	0.41	2.13	3.61	4/9/13 1:55	0.420	2.08	3.81
4/8/13 23:15	0.43	2.12	3.58	4/9/13 2:00	0.410	2.07	3.58
4/8/13 23:20	0.46	2.07	3.79	4/9/13 2:05	0.410	2.05	3.68
4/8/13 23:25	0.46	2.21	3.78	4/9/13 2:10	0.410	1.88	3.79
4/8/13 23:30	0.45	2.18	3.76	4/9/13 2:15	0.410	2.01	3.81
4/8/13 23:35	0.41	2.09	3.62	4/9/13 2:20	0.420	2.08	3.71
4/8/13 23:40	0.42	1.98	3.79	4/9/13 2:25	0.410	2.06	3.71

time	flow rate	velocity	level	time	flow rate	velocity	level
4/9/13 2:30	0.420	2.07	3.75	4/9/13 5:15	0.450	2.21	3.78
4/9/13 2:35	0.420	2	3.7	4/9/13 5:20	0.440	2.23	3.77
4/9/13 2:40	0.410	2.01	3.67	4/9/13 5:25	0.400	2.06	3.56
4/9/13 2:45	0.420	1.99	3.94	4/9/13 5:30	0.410	2.21	3.63
4/9/13 2:50	0.390	1.91	3.76	4/9/13 5:35	0.400	1.99	3.58
4/9/13 2:55	0.420	1.97	3.81	4/9/13 5:40	0.400	1.97	3.63
4/9/13 3:00	0.410	1.99	3.66	4/9/13 5:45	0.400	2.07	3.59
4/9/13 3:05	0.420	2.1	3.79	4/9/13 5:50	0.460	2.19	3.6
4/9/13 3:10	0.420	2.01	3.77	4/9/13 5:55	0.420	2.06	3.69
4/9/13 3:15	0.410	2.07	3.83	4/9/13 6:00	0.430	2.01	3.77
4/9/13 3:20	0.410	2.01	3.8	4/9/13 6:05	0.440	2.18	3.74
4/9/13 3:25	0.380	1.92	3.6	4/9/13 6:10	0.460	2.23	3.71
4/9/13 3:30	0.390	1.99	3.59	4/9/13 6:15	0.410	2.09	3.52
4/9/13 3:35	0.390	1.94	3.79	4/9/13 6:20	0.410	2.2	3.55
4/9/13 3:40	0.400	1.8	3.78	4/9/13 6:25	0.450	2.18	3.76
4/9/13 3:45	0.380	1.93	3.74	4/9/13 6:30	0.470	2.22	3.82
4/9/13 3:50	0.390	1.96	3.8	4/9/13 6:35	0.410	2.08	3.64
4/9/13 3:55	0.410	2	3.76	4/9/13 6:40	0.400	1.96	3.6
4/9/13 4:00	0.360	1.88	3.57	4/9/13 6:45	0.390	1.98	3.58
4/9/13 4:05	0.390	2	3.76	4/9/13 6:50	0.380	1.86	3.73
4/9/13 4:10	0.400	2.01	3.75	4/9/13 6:55	0.380	2.03	3.52
4/9/13 4:15	0.420	2.09	3.75	4/9/13 7:00	0.380	2.01	3.54
4/9/13 4:20	0.440	2.13	3.8	4/9/13 7:05	0.410	1.99	3.68
4/9/13 4:25	0.440	1.95	3.8	4/9/13 7:10	0.410	1.96	3.82
4/9/13 4:30	0.410	1.92	3.82	4/9/13 7:15	0.400	2.13	3.64
4/9/13 4:35	0.410	2.15	3.53	4/9/13 7:20	0.430	2.01	3.71
4/9/13 4:40	0.430	2.14	3.72	4/9/13 7:25	0.450	2.19	3.73
4/9/13 4:45	0.400	1.92	3.66	4/9/13 7:30	0.410	2.11	3.66
4/9/13 4:50	0.410	2.02	3.78	4/9/13 7:35	0.420	2	3.66
4/9/13 4:55	0.440	2.18	3.75	4/9/13 7:40	0.420	2.04	3.73
4/9/13 5:00	0.420	2.1	3.68	4/9/13 7:45	0.460	2.03	3.78
4/9/13 5:05	0.410	2.24	3.54	4/9/13 7:50	0.370	2.03	3.43
4/9/13 5:10	0.430	2.15	3.7	4/9/13 7:55	0.420	1.93	3.81

time	flow rate	velocity	level	time	flow rate	velocity	level
4/9/13 8:00	0.390	2.1	3.62	4/9/13 10:45	0.380	2.06	3.66
4/9/13 8:05	0.400	1.99	3.7	4/9/13 10:50	0.390	2.01	3.8
4/9/13 8:10	0.380	1.91	3.69	4/9/13 10:55	0.380	2	3.57
4/9/13 8:15	0.410	2.09	3.8	4/9/13 11:00	0.370	1.89	3.74
4/9/13 8:20	0.370	1.96	3.63	4/9/13 11:05	0.350	1.86	3.62
4/9/13 8:25	0.400	1.93	3.66	4/9/13 11:10	0.360	1.89	3.76
4/9/13 8:30	0.360	1.88	3.52	4/9/13 11:15	0.380	1.96	3.64
4/9/13 8:35	0.410	2.02	3.68	4/9/13 11:20	0.400	2.02	3.69
4/9/13 8:40	0.390	1.91	3.6	4/9/13 11:25	0.380	1.89	3.64
4/9/13 8:45	0.380	1.93	3.72	4/9/13 11:30	0.370	1.88	3.63
4/9/13 8:50	0.370	1.96	3.56	4/9/13 11:35	0.390	1.96	3.73
4/9/13 8:55	0.390	1.95	3.71	4/9/13 11:40	0.390	1.86	3.72
4/9/13 9:00	0.380	1.95	3.78	4/9/13 11:45	0.370	1.83	3.71
4/9/13 9:05	0.400	1.93	3.8	4/9/13 11:50	0.410	1.95	3.75
4/9/13 9:10	0.380	1.95	3.75	4/9/13 11:55	0.370	1.92	3.69
4/9/13 9:15	0.410	1.94	3.69	4/9/13 12:00	0.380	1.91	3.68
4/9/13 9:20	0.400	2.1	3.78	4/9/13 12:05	0.370	1.96	3.36
4/9/13 9:25	0.400	1.98	3.79	4/9/13 12:10	0.350	1.93	3.38
4/9/13 9:30	0.400	2.07	3.6	4/9/13 12:15	0.370	1.97	3.68
4/9/13 9:35	0.370	2.06	3.61	4/9/13 12:20	0.400	1.93	3.74
4/9/13 9:40	0.430	2.09	3.8	4/9/13 12:25	0.390	1.94	3.81
4/9/13 9:45	0.420	1.97	3.77	4/9/13 12:30	0.360	2	3.63
4/9/13 9:50	0.340	1.75	3.62	4/9/13 12:35	0.400	1.96	3.75
4/9/13 9:55	0.360	1.81	3.72	4/9/13 12:40	0.370	1.8	3.67
4/9/13 10:00	0.340	1.82	3.49	4/9/13 12:45	0.400	2.11	3.64
4/9/13 10:05	0.350	1.87	3.7	4/9/13 12:50	0.380	2	3.51
4/9/13 10:10	0.360	1.83	3.71	4/9/13 12:55	0.350	1.86	3.49
4/9/13 10:15	0.360	1.87	3.64	4/9/13 13:00	0.370	1.79	3.64
4/9/13 10:20	0.380	1.91	3.79	4/9/13 13:05	0.370	1.86	3.59
4/9/13 10:25	0.350	1.82	3.42	4/9/13 13:10	0.360	1.95	3.39
4/9/13 10:30	0.340	1.82	3.5	4/9/13 13:15	0.370	1.93	3.65
4/9/13 10:35	0.360	1.81	3.65	4/9/13 13:20	0.400	2.09	3.67
4/9/13 10:40	0.380	1.97	3.68	4/9/13 13:25	0.360	1.89	3.63

time	flow rate	velocity	level	time	flow rate	velocity	level
4/9/13 13:30	0.340	1.92	3.42	4/9/13 16:15	0.36	1.84	3.62
4/9/13 13:35	0.360	1.91	3.61	4/9/13 16:20	0.35	1.9	3.55
4/9/13 13:40	0.360	1.87	3.66	4/9/13 16:25	0.39	1.83	3.67
4/9/13 13:45	0.350	1.91	3.6	4/9/13 16:30	0.35	1.72	3.62
4/9/13 13:50	0.360	1.88	3.7	4/9/13 16:35	0.36	1.87	3.73
4/9/13 13:55	0.340	1.87	3.41	4/9/13 16:40	0.33	1.78	3.68
4/9/13 14:00	0.370	1.88	3.56	4/9/13 16:45	0.31	1.72	3.44
4/9/13 14:05	0.320	1.88	3.5	4/9/13 16:50	0.3	1.77	3.4
4/9/13 14:10	0.340	1.77	3.53	4/9/13 16:55	0.33	1.91	3.7
4/9/13 14:15	0.350	1.96	3.61	4/9/13 17:00	0.31	1.78	3.45
4/9/13 14:20	0.350	1.87	3.56	4/9/13 17:05	0.31	1.76	3.44
4/9/13 14:25	0.330	1.77	3.41	4/9/13 17:10	0.33	1.85	3.49
4/9/13 14:30	0.350	1.95	3.68	4/9/13 17:15	0.34	1.77	3.42
4/9/13 14:35	0.340	1.8	3.58	4/9/13 17:20	0.31	1.73	3.45
4/9/13 14:40	0.340	1.8	3.5	4/9/13 17:25	0.31	1.73	3.44
4/9/13 14:45	0.310	1.78	3.36	4/9/13 17:30	0.33	1.95	3.58
4/9/13 14:50	0.350	1.93	3.6	4/9/13 17:35	0.32	1.72	3.58
4/9/13 14:55	0.320	1.88	3.47	4/9/13 17:40	0.34	1.89	3.64
4/9/13 15:00	0.340	1.83	3.54	4/9/13 17:45	0.31	1.69	3.48
4/9/13 15:05	0.340	1.81	3.57	4/9/13 17:50	0.31	1.84	3.3
4/9/13 15:10	0.400	1.9	3.76	4/9/13 17:55	0.31	1.83	3.53
4/9/13 15:15	0.360	1.97	3.59	4/9/13 18:00	0.32	1.76	3.51
4/9/13 15:20	0.340	1.84	3.48	4/9/13 18:05	0.34	1.81	3.52
4/9/13 15:25	0.340	1.79	3.63	4/9/13 18:10	0.3	1.76	3.39
4/9/13 15:30	0.330	1.83	3.54	4/9/13 18:15	0.3	1.82	3.41
4/9/13 15:35	0.340	1.79	3.53	4/9/13 18:20	0.3	1.79	3.26
4/9/13 15:40	0.330	1.88	3.38	4/9/13 18:25	0.33	1.79	3.53
4/9/13 15:45	0.330	1.81	3.58	4/9/13 18:30	0.34	1.77	3.59
4/9/13 15:50	0.360	2.07	3.76	4/9/13 18:35	0.35	1.86	3.6
4/9/13 15:55	0.380	1.94	3.63	4/9/13 18:40	0.3	1.75	3.49
4/9/13 16:00	0.340	1.74	3.5	4/9/13 18:45	0.32	1.85	3.57
4/9/13 16:05	0.330	1.82	3.5	4/9/13 18:50	0.37	1.94	3.68
4/9/13 16:10	0.330	1.89	3.37	4/9/13 18:55	0.37	1.95	3.73

time	flow rate	velocity	level	time	flow rate	velocity	level
4/9/13 19:00	0.34	1.82	3.57	4/9/13 21:45	0.64	2.97	3.74
4/9/13 19:05	0.34	1.96	3.51	4/9/13 21:50	2.95	8.6	0
4/9/13 19:10	0.35	1.77	3.59	4/9/13 21:55	4.32	5.57	7.08
4/9/13 19:15	0.34	1.81	3.58	4/9/13 22:00	2.8	4.89	6.22
4/9/13 19:20	0.35	1.99	3.51	4/9/13 22:05	1.68	4.46	4.44
4/9/13 19:25	0.33	1.85	3.44	4/9/13 22:10	1.42	3.99	4.46
4/9/13 19:30	0.34	1.85	3.52	4/9/13 22:15	1.74	5.14	5.01
4/9/13 19:35	0.35	1.99	3.69	4/9/13 22:20	2.14	4.8	5.19
4/9/13 19:40	0.35	1.97	3.56	4/9/13 22:25	1.53	4.37	4.29
4/9/13 19:45	0.31	1.76	3.35	4/9/13 22:30	1.32	3.88	4.43
4/9/13 19:50	0.28	1.75	3.31	4/9/13 22:35	1.17	3.56	4.38
4/9/13 19:55	0.31	1.92	3.26	4/9/13 22:40	1.15	3.59	4.44
4/9/13 20:00	0.34	2	3.54	4/9/13 22:45	1.06	3.48	4.2
4/9/13 20:05	0.34	1.77	3.55	4/9/13 22:50	1.14	3.47	4.58
4/9/13 20:10	0.33	1.83	3.43	4/9/13 22:55	1.04	3.49	4.19
4/9/13 20:15	0.39	2.04	3.8	4/9/13 23:00	1.04	3.38	4.31
4/9/13 20:20	0.35	1.76	3.5	4/9/13 23:05	1.06	3.44	4.37
4/9/13 20:25	0.39	2.03	3.64	4/9/13 23:10	0.97	3.46	4.14
4/9/13 20:30	0.34	1.97	3.5	4/9/13 23:15	1.03	3.31	4.42
4/9/13 20:35	0.32	1.82	3.44	4/9/13 23:20	1.02	3.32	4.46
4/9/13 20:40	0.34	1.77	3.55	4/9/13 23:25	1	3.42	4.35
4/9/13 20:45	0.33	1.78	3.51	4/9/13 23:30	1.01	3.27	4.42
4/9/13 20:50	0.36	2.18	3.48	4/9/13 23:35	0.99	3.2	4.36
4/9/13 20:55	0.41	2.03	3.6	4/9/13 23:40	0.99	3.26	4.41
4/9/13 21:00	0.39	1.96	3.66	4/9/13 23:45	0.98	3.23	4.42
4/9/13 21:05	0.54	2.95	3.95	4/9/13 23:50	0.89	3.21	4.09
4/9/13 21:10	0.98	3.53	4.3	4/9/13 23:55	0.93	3.14	4.34
4/9/13 21:15	0.98	3.32	4.01	4/10/13 0:00	0.93	3.14	4.33
4/9/13 21:20	0.83	2.94	4.05	4/10/13 0:05	0.900	3.17	4.16
4/9/13 21:25	0.71	2.82	3.91	4/10/13 0:10	0.900	3.14	4.23
4/9/13 21:30	0.72	2.68	4.12	4/10/13 0:15	0.940	3.14	4.46
4/9/13 21:35	0.67	2.64	4.03	4/10/13 0:20	0.870	3.1	4.17
4/9/13 21:40	0.64	2.68	4.03	4/10/13 0:25	0.870	3.12	4.23

time	flow rate	velocity	level	time	flow rate	velocity	level
4/10/13 0:30	0.87	3.03	4.32	4/10/13 3:15	0.99	3.37	4.24
4/10/13 0:35	0.86	3.04	4.25	4/10/13 3:20	1.08	3.62	4.27
4/10/13 0:40	0.88	3.17	4.32	4/10/13 3:25	1.12	3.62	4.41
4/10/13 0:45	1	3.29	4.44	4/10/13 3:30	1.12	3.47	4.43
4/10/13 0:50	0.97	3.34	4.26	4/10/13 3:35	1.09	3.43	4.46
4/10/13 0:55	1.01	3.28	4.43	4/10/13 3:40	1.11	3.59	4.6
4/10/13 1:00	0.93	3.18	4.25	4/10/13 3:45	1.83	5.04	4.91
4/10/13 1:05	0.97	3.54	4.19	4/10/13 3:50	3.07	6	6.44
4/10/13 1:10	1.09	3.6	4.29	4/10/13 3:55	3.83	5.89	7.18
4/10/13 1:15	1.07	3.39	4.4	4/10/13 4:00	3.09	5.37	5.98
4/10/13 1:20	0.98	3.21	4.32	4/10/13 4:05	1.9	4.96	4.57
4/10/13 1:25	0.97	3.23	4.44	4/10/13 4:10	1.87	4.64	4.91
4/10/13 1:30	1.03	3.7	4.41	4/10/13 4:15	1.62	4.23	4.59
4/10/13 1:35	1.48	4.73	4.44	4/10/13 4:20	1.42	4.15	4.39
4/10/13 1:40	2.11	4.99	5.1	4/10/13 4:25	1.4	4.02	4.46
4/10/13 1:45	1.82	4.82	4.42	4/10/13 4:30	1.38	4.16	4.37
4/10/13 1:50	1.44	4.16	4.31	4/10/13 4:35	1.33	4.07	4.31
4/10/13 1:55	1.33	3.78	4.55	4/10/13 4:40	1.32	4.08	4.25
4/10/13 2:00	1.15	3.67	4.35	4/10/13 4:45	1.31	4.09	4.26
4/10/13 2:05	1.19	3.67	4.65	4/10/13 4:50	1.35	3.97	4.44
4/10/13 2:10	1.1	3.51	4.41	4/10/13 4:55	1.27	4.09	4.19
4/10/13 2:15	1.06	3.48	4.37	4/10/13 5:00	1.27	3.92	4.3
4/10/13 2:20	1.01	3.5	4.21	4/10/13 5:05	1.26	3.94	4.38
4/10/13 2:25	1.12	3.4	4.65	4/10/13 5:10	1.25	3.87	4.39
4/10/13 2:30	1.07	3.45	4.51	4/10/13 5:15	1.14	3.92	3.99
4/10/13 2:35	1.06	3.42	4.46	4/10/13 5:20	1.18	3.85	4.1
4/10/13 2:40	1.05	3.45	4.44	4/10/13 5:25	1.23	3.9	4.38
4/10/13 2:45	0.99	3.42	4.15	4/10/13 5:30	1.18	3.9	4.17
4/10/13 2:50	1.05	3.43	4.4	4/10/13 5:35	1.19	3.74	4.27
4/10/13 2:55	1.01	3.32	4.39	4/10/13 5:40	1.16	3.8	4.18
4/10/13 3:00	1.04	3.39	4.41	4/10/13 5:45	1.23	3.71	4.49
4/10/13 3:05	1	3.34	4.31	4/10/13 5:50	1.19	3.67	4.39
4/10/13 3:10	1.02	3.35	4.44	4/10/13 5:55	1.18	3.71	4.37

time	flow rate	velocity	level	time	flow rate	velocity	level
4/10/13 6:00	1.13	3.71	4.26	4/10/13 8:45	1.15	3.66	4.47
4/10/13 6:05	1.23	3.67	4.55	4/10/13 8:50	1.17	3.83	4.21
4/10/13 6:10	1.1	3.61	4.11	4/10/13 8:55	1.23	3.75	4.35
4/10/13 6:15	1.05	3.55	4.07	4/10/13 9:00	1.16	3.69	4.29
4/10/13 6:20	1.12	3.7	4.21	4/10/13 9:05	1.16	3.48	4.48
4/10/13 6:25	1.09	3.59	4.18	4/10/13 9:10	1.1	3.44	4.39
4/10/13 6:30	1.07	3.46	4.2	4/10/13 9:15	1.07	3.66	4.21
4/10/13 6:35	1.09	3.64	4.28	4/10/13 9:20	1.07	3.82	4.07
4/10/13 6:40	1.08	3.55	4.26	4/10/13 9:25	1.33	4.09	4.44
4/10/13 6:45	1.13	3.49	4.45	4/10/13 9:30	1.49	4.57	4.41
4/10/13 6:50	1.03	3.54	4.03	4/10/13 9:35	2.1	4.73	5.49
4/10/13 6:55	1.07	3.47	4.22	4/10/13 9:40	2.21	4.85	5.41
4/10/13 7:00	1.09	3.58	4.34	4/10/13 9:45	1.75	4.58	4.62
4/10/13 7:05	1.09	3.46	4.43	4/10/13 9:50	1.45	4.01	4.42
4/10/13 7:10	1.04	3.54	4.24	4/10/13 9:55	1.25	3.87	4.27
4/10/13 7:15	1.05	3.46	4.33	4/10/13 10:00	1.38	3.94	4.68
4/10/13 7:20	1.05	3.45	4.36	4/10/13 10:05	1.26	3.84	4.34
4/10/13 7:25	1.02	3.51	4.08	4/10/13 10:10	1.33	3.91	4.56
4/10/13 7:30	1.04	3.49	4.29	4/10/13 10:15	1.21	3.84	4.25
4/10/13 7:35	1.04	3.4	4.35	4/10/13 10:20	1.32	4.02	4.36
4/10/13 7:40	1.03	3.35	4.35	4/10/13 10:25	1.28	3.99	4.28
4/10/13 7:45	1.06	3.44	4.44	4/10/13 10:30	1.34	3.82	4.58
4/10/13 7:50	1	3.37	4.21	4/10/13 10:35	1.27	3.99	4.32
4/10/13 7:55	0.99	3.42	4.07	4/10/13 10:40	1.3	3.96	4.41
4/10/13 8:00	0.95	3.32	4.14	4/10/13 10:45	1.23	3.82	4.43
4/10/13 8:05	0.95	3.44	4.08	4/10/13 10:50	1.21	3.68	4.4
4/10/13 8:10	0.99	3.34	4.26	4/10/13 10:55	1.15	3.81	4.21
4/10/13 8:15	0.97	3.35	4.18	4/10/13 11:00	1.09	3.73	4.01
4/10/13 8:20	0.98	3.36	4.23	4/10/13 11:05	1.22	3.67	4.54
4/10/13 8:25	0.99	3.35	4.25	4/10/13 11:10	1.16	3.73	4.36
4/10/13 8:30	0.93	3.25	4.14	4/10/13 11:15	1.24	3.79	4.61
4/10/13 8:35	0.94	3.26	4.2	4/10/13 11:20	1.2	3.81	4.45
4/10/13 8:40	1.03	3.49	4.27	4/10/13 11:25	1.17	3.64	4.41

time	flow rate	velocity	level	time	flow rate	velocity	level
4/10/13 11:30	1.13	3.52	4.26	4/10/13 14:15	1.58	4.41	4.63
4/10/13 11:35	1.25	4	4.44	4/10/13 14:20	1.59	4.18	4.68
4/10/13 11:40	1.55	4.28	4.68	4/10/13 14:25	1.32	4.12	4.2
4/10/13 11:45	1.53	4.42	4.39	4/10/13 14:30	1.31	4.19	4.08
4/10/13 11:50	1.43	4.07	4.35	4/10/13 14:35	1.49	4.15	4.85
4/10/13 11:55	1.35	3.94	4.41	4/10/13 14:40	1.37	3.94	4.44
4/10/13 12:00	1.24	3.87	4.3	4/10/13 14:45	1.28	3.9	4.31
4/10/13 12:05	1.19	3.66	4.3	4/10/13 14:50	1.31	3.79	4.51
4/10/13 12:10	1.19	3.8	4.34	4/10/13 14:55	1.25	3.85	4.33
4/10/13 12:15	1.24	3.76	4.52	4/10/13 15:00	1.22	3.93	4.2
4/10/13 12:20	1.21	3.82	4.3	4/10/13 15:05	1.24	3.98	4.24
4/10/13 12:25	1.29	3.79	4.67	4/10/13 15:10	1.35	4.12	4.56
4/10/13 12:30	1.21	3.66	4.44	4/10/13 15:15	1.26	4.04	4.22
4/10/13 12:35	1.26	3.71	4.64	4/10/13 15:20	1.28	3.92	4.5
4/10/13 12:40	1.13	3.77	4.25	4/10/13 15:25	1.28	3.81	4.52
4/10/13 12:45	1.22	3.76	4.56	4/10/13 15:30	1.22	3.78	4.33
4/10/13 12:50	1.2	3.62	4.56	4/10/13 15:35	1.28	3.87	4.57
4/10/13 12:55	1.18	3.66	4.38	4/10/13 15:40	1.36	4.14	4.46
4/10/13 13:00	1.23	3.64	4.57	4/10/13 15:45	1.36	3.92	4.34
4/10/13 13:05	1.14	3.74	4.27	4/10/13 15:50	1.28	3.92	4.47
4/10/13 13:10	1.13	3.58	4.37	4/10/13 15:55	1.22	3.81	4.27
4/10/13 13:15	1.15	3.43	4.52	4/10/13 16:00	1.19	3.77	4.35
4/10/13 13:20	1.14	3.54	4.43	4/10/13 16:05	1.26	3.68	4.55
4/10/13 13:25	1.12	3.51	4.31	4/10/13 16:10	1.18	3.76	4.27
4/10/13 13:30	1.16	3.68	4.33	4/10/13 16:15	1.2	3.7	4.38
4/10/13 13:35	1.18	3.66	4.34	4/10/13 16:20	1.27	3.92	4.49
4/10/13 13:40	1.19	3.69	4.35	4/10/13 16:25	1.35	4.02	4.45
4/10/13 13:45	1.18	3.75	4.36	4/10/13 16:30	1.58	4.32	4.77
4/10/13 13:50	1.18	3.65	4.39	4/10/13 16:35	1.55	4.39	4.58
4/10/13 13:55	1.01	3.78	3.8	4/10/13 16:40	1.58	4.51	4.44
4/10/13 14:00	1.35	4.38	4.38	4/10/13 16:45	1.52	4.31	4.36
4/10/13 14:05	1.6	4.64	4.48	4/10/13 16:50	1.48	4.16	4.62
4/10/13 14:10	1.55	4.5	4.38	4/10/13 16:55	1.2	3.99	4.01

time	flow rate	velocity	level	time	flow rate	velocity	level
4/10/13 17:00	1.25	3.95	4.15	4/10/13 19:45	1.050	3.67	4.13
4/10/13 17:05	1.28	4.02	4.28	4/10/13 19:50	1.100	3.47	4.4
4/10/13 17:10	1.25	3.83	4.29	4/10/13 19:55	1.060	3.54	4.27
4/10/13 17:15	1.32	3.87	4.54	4/10/13 20:00	1.130	3.59	4.52
4/10/13 17:20	1.3	3.79	4.59	4/10/13 20:05	1.080	3.53	4.35
4/10/13 17:25	1.13	3.82	4.07	4/10/13 20:10	1.150	3.53	4.55
4/10/13 17:30	1.2	3.87	4.23	4/10/13 20:15	1.020	3.61	4.11
4/10/13 17:35	1.21	3.76	4.39	4/10/13 20:20	1.040	3.54	4.13
4/10/13 17:40	1.13	3.87	4.07	4/10/13 20:25	1.130	3.48	4.52
4/10/13 17:45	1.19	3.65	4.29	4/10/13 20:30	1.050	3.52	4.15
4/10/13 17:50	1.28	3.9	4.58	4/10/13 20:35	1.030	3.52	4.17
4/10/13 17:55	1.19	3.74	4.37	4/10/13 20:40	1.060	3.53	4.34
4/10/13 18:00	1.17	3.76	4.32	4/10/13 20:45	1.050	3.55	4.22
4/10/13 18:05	1.19	3.66	4.34	4/10/13 20:50	1.000	3.44	4.03
4/10/13 18:10	1.24	3.74	4.55	4/10/13 20:55	1.060	3.46	4.34
4/10/13 18:15	1.12	3.62	4.13	4/10/13 21:00	1.050	3.54	4.3
4/10/13 18:20	1.17	3.73	4.37	4/10/13 21:05	1.050	3.46	4.33
4/10/13 18:25	1.21	3.73	4.47	4/10/13 21:10	1.070	3.4	4.44
4/10/13 18:30	1.07	3.64	4.04	4/10/13 21:15	1.050	3.4	4.36
4/10/13 18:35	1.11	3.68	4.25	4/10/13 21:20	1.030	3.44	4.3
4/10/13 18:40	1.11	3.66	4.2	4/10/13 21:25	1.070	3.48	4.42
4/10/13 18:45	1.11	3.47	4.24	4/10/13 21:30	0.990	3.46	4.12
4/10/13 18:50	1.17	3.54	4.53	4/10/13 21:35	0.970	3.33	4.09
4/10/13 18:55	1.16	3.59	4.49	4/10/13 21:40	0.990	3.4	4.19
4/10/13 19:00	1.15	3.56	4.45	4/10/13 21:45	1.010	3.35	4.33
4/10/13 19:05	1.1	3.62	4.26	4/10/13 21:50	1.070	3.49	4.49
4/10/13 19:10	1.1	3.67	4.26	4/10/13 21:55	1.020	3.39	4.35
4/10/13 19:15	1.11	3.57	4.35	4/10/13 22:00	1.030	3.45	4.37
4/10/13 19:20	1.11	3.61	4.34	4/10/13 22:05	1.000	3.36	4.22
4/10/13 19:25	1.06	3.56	4.07	4/10/13 22:10	1.010	3.33	4.39
4/10/13 19:30	1.09	3.54	4.31	4/10/13 22:15	1.000	3.33	4.29
4/10/13 19:35	1.13	3.5	4.35	4/10/13 22:20	1.020	3.31	4.45
4/10/13 19:40	1.13	3.67	4.36	4/10/13 22:25	0.990	3.28	4.31

time	flow rate	velocity	level	time	flow rate	velocity	level
4/10/13 22:30	1.010	3.3	4.34	4/11/13 1:15	0.930	3.15	4.41
4/10/13 22:35	0.930	3.37	4.09	4/11/13 1:20	0.950	3.14	4.42
4/10/13 22:40	0.990	3.35	4.31	4/11/13 1:25	0.960	3.18	4.52
4/10/13 22:45	1.000	3.28	4.39	4/11/13 1:30	0.910	3.14	4.33
4/10/13 22:50	0.980	3.35	4.35	4/11/13 1:35	0.910	3.08	4.35
4/10/13 22:55	0.970	3.26	4.34	4/11/13 1:40	0.930	3.17	4.43
4/10/13 23:00	0.990	3.35	4.31	4/11/13 1:45	0.920	3.12	4.38
4/10/13 23:05	0.930	3.32	4.12	4/11/13 1:50	0.930	3.13	4.39
4/10/13 23:10	0.960	3.28	4.27	4/11/13 1:55	0.890	3.14	4.21
4/10/13 23:15	0.960	3.27	4.3	4/11/13 2:00	0.930	3.09	4.43
4/10/13 23:20	0.940	3.23	4.19	4/11/13 2:05	0.890	3.12	4.27
4/10/13 23:25	0.970	3.17	4.4	4/11/13 2:10	0.890	3.11	4.32
4/10/13 23:30	0.890	3.25	3.98	4/11/13 2:15	0.920	3.09	4.42
4/10/13 23:35	0.980	3.19	4.38	4/11/13 2:20	0.880	3.15	4.21
4/10/13 23:40	0.940	3.22	4.27	4/11/13 2:25	0.880	3.14	4.24
4/10/13 23:45	0.930	3.18	4.28	4/11/13 2:30	0.880	3.06	4.28
4/10/13 23:50	0.900	3.28	4.1	4/11/13 2:35	0.910	3.11	4.4
4/10/13 23:55	0.890	3.16	4.14	4/11/13 2:40	0.900	3.13	4.32
4/11/13 0:00	0.940	3.24	4.3	4/11/13 2:45	0.910	3	4.41
4/11/13 0:05	0.980	3.21	4.45	4/11/13 2:50	0.840	3.17	4
4/11/13 0:10	0.930	3.15	4.29	4/11/13 2:55	0.890	3.11	4.35
4/11/13 0:15	0.940	3.19	4.31	4/11/13 3:00	0.920	3.03	4.44
4/11/13 0:20	0.970	3.23	4.4	4/11/13 3:05	0.910	3.12	4.43
4/11/13 0:25	0.960	3.25	4.38	4/11/13 3:10	0.870	3.08	4.23
4/11/13 0:30	0.910	3.26	4.21	4/11/13 3:15	0.850	3.17	4.15
4/11/13 0:35	0.940	3.19	4.4	4/11/13 3:20	0.900	3.1	4.36
4/11/13 0:40	0.970	3.18	4.49	4/11/13 3:25	0.850	3.14	4.13
4/11/13 0:45	0.970	3.23	4.48	4/11/13 3:30	0.920	3.09	4.46
4/11/13 0:50	0.920	3.15	4.24	4/11/13 3:35	0.930	3.06	4.48
4/11/13 0:55	0.880	3.21	4.07	4/11/13 3:40	0.840	3.08	4.08
4/11/13 1:00	0.920	3.17	4.37	4/11/13 3:45	0.860	3.08	4.15
4/11/13 1:05	0.860	3.11	4.13	4/11/13 3:50	0.880	3.03	4.3
4/11/13 1:10	0.930	3.16	4.38	4/11/13 3:55	0.860	3.09	4.19

time	flow rate	velocity	level	time	flow rate	velocity	level
4/11/13 4:00	0.880	3.08	4.29	4/11/13 6:45	0.780	2.93	4.09
4/11/13 4:05	0.910	3.15	4.38	4/11/13 6:50	0.760	2.93	3.96
4/11/13 4:10	0.870	3.11	4.19	4/11/13 6:55	0.730	2.94	3.87
4/11/13 4:15	0.880	3.13	4.26	4/11/13 7:00	0.800	2.89	4.29
4/11/13 4:20	0.850	3.05	4.21	4/11/13 7:05	0.720	2.97	3.79
4/11/13 4:25	0.860	3.09	4.2	4/11/13 7:10	0.800	2.97	4.18
4/11/13 4:30	0.890	3.12	4.32	4/11/13 7:15	0.750	2.89	3.95
4/11/13 4:35	0.860	3.04	4.21	4/11/13 7:20	0.820	2.96	4.29
4/11/13 4:40	0.820	3.04	4.06	4/11/13 7:25	0.760	2.91	4
4/11/13 4:45	0.870	3.05	4.26	4/11/13 7:30	0.800	2.88	4.24
4/11/13 4:50	0.880	3.09	4.29	4/11/13 7:35	0.760	2.9	4.11
4/11/13 4:55	0.820	3.07	4.03	4/11/13 7:40	0.800	2.97	4.22
4/11/13 5:00	0.860	3.11	4.16	4/11/13 7:45	0.750	2.94	4
4/11/13 5:05	0.840	3.05	4.11	4/11/13 7:50	0.810	2.89	4.26
4/11/13 5:10	0.850	3.07	4.17	4/11/13 7:55	0.770	2.9	4.06
4/11/13 5:15	0.850	3.08	4.14	4/11/13 8:00	0.790	2.91	4.2
4/11/13 5:20	0.830	3.11	4.07	4/11/13 8:05	0.770	2.92	4
4/11/13 5:25	0.880	2.97	4.34	4/11/13 8:10	0.790	2.92	4.26
4/11/13 5:30	0.840	2.94	4.24	4/11/13 8:15	0.760	2.89	4.11
4/11/13 5:35	0.810	3.04	3.97	4/11/13 8:20	0.790	2.96	4.25
4/11/13 5:40	0.840	3.06	4.19	4/11/13 8:25	0.780	2.86	4.2
4/11/13 5:45	0.800	3.02	4.08	4/11/13 8:30	0.700	2.81	3.82
4/11/13 5:50	0.890	3	4.43	4/11/13 8:35	0.780	2.88	4.16
4/11/13 5:55	0.830	2.99	4.16	4/11/13 8:40	0.760	2.94	4.01
4/11/13 6:00	0.800	2.97	4.12	4/11/13 8:45	0.780	2.87	4.16
4/11/13 6:05	0.810	2.92	4.16	4/11/13 8:50	0.780	2.85	4.19
4/11/13 6:10	0.810	3.04	4.14	4/11/13 8:55	0.740	2.93	4
4/11/13 6:15	0.840	3.05	4.2	4/11/13 9:00	0.770	2.88	4.14
4/11/13 6:20	0.800	3	4.1	4/11/13 9:05	0.800	2.95	4.17
4/11/13 6:25	0.830	3.09	4.15	4/11/13 9:10	0.800	2.82	4.3
4/11/13 6:30	0.820	2.99	4.17	4/11/13 9:15	0.720	2.9	3.81
4/11/13 6:35	0.810	2.92	4.18	4/11/13 9:20	0.750	2.88	4
4/11/13 6:40	0.730	2.98	3.7	4/11/13 9:25	0.740	2.87	4.04

time	flow rate	velocity	level	time	flow rate	velocity	level
4/11/13 9:30	0.760	2.91	4.03	4/11/13 12:15	0.76	2.81	4.24
4/11/13 9:35	0.730	2.78	4	4/11/13 12:20	0.73	2.82	4.04
4/11/13 9:40	0.760	2.82	4.24	4/11/13 12:25	0.7	2.77	4
4/11/13 9:45	0.720	2.82	4.02	4/11/13 12:30	0.72	2.83	4.08
4/11/13 9:50	0.730	2.83	4.01	4/11/13 12:35	0.72	2.8	4.09
4/11/13 9:55	0.760	2.85	4.15	4/11/13 12:40	0.7	2.76	4.03
4/11/13 10:00	0.720	2.87	3.91	4/11/13 12:45	0.71	2.77	4.01
4/11/13 10:05	0.730	2.85	4.07	4/11/13 12:50	0.73	2.76	4.16
4/11/13 10:10	0.770	2.83	4.15	4/11/13 12:55	0.75	2.82	4.21
4/11/13 10:15	0.760	2.84	4.1	4/11/13 13:00	0.72	2.8	4.16
4/11/13 10:20	0.770	2.84	4.17	4/11/13 13:05	0.72	2.74	4
4/11/13 10:25	0.750	2.84	4.08	4/11/13 13:10	0.71	2.79	4.01
4/11/13 10:30	0.770	2.87	4.14	4/11/13 13:15	0.73	2.81	4.09
4/11/13 10:35	0.770	2.81	4.21	4/11/13 13:20	0.72	2.79	4.08
4/11/13 10:40	0.780	2.85	4.29	4/11/13 13:25	0.74	2.75	4.22
4/11/13 10:45	0.770	2.86	4.26	4/11/13 13:30	0.68	2.79	3.92
4/11/13 10:50	0.710	2.86	3.93	4/11/13 13:35	0.69	2.74	3.99
4/11/13 10:55	0.710	2.76	3.95	4/11/13 13:40	0.71	2.79	4.01
4/11/13 11:00	0.770	2.91	4.19	4/11/13 13:45	0.69	2.71	3.98
4/11/13 11:05	0.800	2.88	4.32	4/11/13 13:50	0.7	2.84	3.99
4/11/13 11:10	0.730	2.81	4.04	4/11/13 13:55	0.72	2.77	4.06
4/11/13 11:15	0.760	2.87	4.2	4/11/13 14:00	0.71	2.75	4.07
4/11/13 11:20	0.730	2.85	4	4/11/13 14:05	0.7	2.78	3.95
4/11/13 11:25	0.720	2.84	3.91	4/11/13 14:10	0.74	2.81	4.16
4/11/13 11:30	0.750	2.81	4.12	4/11/13 14:15	0.69	2.75	3.97
4/11/13 11:35	0.720	2.84	4.07	4/11/13 14:20	0.69	2.77	3.91
4/11/13 11:40	0.760	2.77	4.18	4/11/13 14:25	0.69	2.75	4.09
4/11/13 11:45	0.730	2.84	4.13	4/11/13 14:30	0.74	2.88	4.13
4/11/13 11:50	0.740	2.84	4.13	4/11/13 14:35	0.71	2.75	3.98
4/11/13 11:55	0.790	2.83	4.43	4/11/13 14:40	0.68	2.78	3.95
4/11/13 12:00	0.750	2.85	4.05	4/11/13 14:45	0.71	2.71	4.07
4/11/13 12:05	0.710	2.77	4.01	4/11/13 14:50	0.71	2.75	4.09
4/11/13 12:10	0.720	2.84	4.09	4/11/13 14:55	0.68	2.74	3.97

time	flow rate	velocity	level	time	flow rate	velocity	level
4/11/13 15:00	0.71	2.71	4.07	4/11/13 17:45	0.63	2.74	3.69
4/11/13 15:05	0.72	2.7	4.18	4/11/13 17:50	0.65	2.75	3.77
4/11/13 15:10	0.69	2.78	3.95	4/11/13 17:55	0.68	2.67	3.99
4/11/13 15:15	0.67	2.69	3.93	4/11/13 18:00	0.67	2.71	3.95
4/11/13 15:20	0.68	2.76	3.99	4/11/13 18:05	0.670	2.7	3.99
4/11/13 15:25	0.71	2.76	4.13	4/11/13 18:10	0.690	2.65	4.09
4/11/13 15:30	0.7	2.72	4.04	4/11/13 18:15	0.650	2.67	3.84
4/11/13 15:35	0.71	2.66	4.15	4/11/13 18:20	0.660	2.67	3.93
4/11/13 15:40	0.67	2.72	3.86	4/11/13 18:25	0.670	2.76	3.94
4/11/13 15:45	0.69	2.78	3.98	4/11/13 18:30	0.660	2.65	3.88
4/11/13 15:50	0.71	2.84	4.04	4/11/13 18:35	0.680	2.73	4.01
4/11/13 15:55	0.71	2.77	3.99	4/11/13 18:40	0.630	2.68	3.73
4/11/13 16:00	0.7	2.72	3.99	4/11/13 18:45	0.670	2.67	4.02
4/11/13 16:05	0.65	2.74	3.85	4/11/13 18:50	0.690	2.77	4.02
4/11/13 16:10	0.68	2.69	4	4/11/13 18:55	0.650	2.67	3.89
4/11/13 16:15	0.7	2.81	4.02	4/11/13 19:00	0.690	2.67	4.11
4/11/13 16:20	0.69	2.74	4.04	4/11/13 19:05	0.630	2.68	3.79
4/11/13 16:25	0.71	2.75	4.04	4/11/13 19:10	0.690	2.63	4.16
4/11/13 16:30	0.69	2.7	4.1	4/11/13 19:15	0.640	2.61	3.9
4/11/13 16:35	0.66	2.69	3.87	4/11/13 19:20	0.620	2.7	3.75
4/11/13 16:40	0.65	2.69	3.78	4/11/13 19:25	0.680	2.75	4.02
4/11/13 16:45	0.67	2.67	4.04	4/11/13 19:30	0.680	2.64	4.07
4/11/13 16:50	0.68	2.76	3.95	4/11/13 19:35	0.650	2.68	3.83
4/11/13 16:55	0.67	2.69	3.95	4/11/13 19:40	0.660	2.69	3.98
4/11/13 17:00	0.7	2.74	4.13	4/11/13 19:45	0.650	2.69	3.85
4/11/13 17:05	0.65	2.76	3.83	4/11/13 19:50	0.660	2.66	3.94
4/11/13 17:10	0.67	2.7	3.99	4/11/13 19:55	0.650	2.67	3.97
4/11/13 17:15	0.68	2.69	3.99	4/11/13 20:00	0.700	2.7	4.16
4/11/13 17:20	0.67	2.73	3.92	4/11/13 20:05	0.640	2.64	3.84
4/11/13 17:25	0.72	2.72	4.18	4/11/13 20:10	0.650	2.67	3.97
4/11/13 17:30	0.59	2.64	3.53	4/11/13 20:15	0.640	2.67	3.86
4/11/13 17:35	0.65	2.7	3.82	4/11/13 20:20	0.670	2.7	4.09
4/11/13 17:40	0.69	2.76	4.08	4/11/13 20:25	0.640	2.64	3.96

time	flow rate	velocity	level	time	flow rate	velocity	level
4/11/13 20:30	0.67	2.64	4.11	4/11/13 23:15	0.59	2.54	3.85
4/11/13 20:35	0.64	2.62	3.86	4/11/13 23:20	0.6	2.54	3.81
4/11/13 20:40	0.66	2.65	4.04	4/11/13 23:25	0.6	2.52	3.88
4/11/13 20:45	0.64	2.62	3.88	4/11/13 23:30	0.63	2.55	3.97
4/11/13 20:50	0.65	2.57	3.96	4/11/13 23:35	0.64	2.55	4.06
4/11/13 20:55	0.6	2.57	3.69	4/11/13 23:40	0.6	2.51	3.97
4/11/13 21:00	0.61	2.61	3.8	4/11/13 23:45	0.63	2.57	4.07
4/11/13 21:05	0.64	2.64	3.96	4/11/13 23:50	0.6	2.54	3.96
4/11/13 21:10	0.65	2.58	3.95	4/11/13 23:55	0.62	2.55	4.03
4/11/13 21:15	0.61	2.62	3.82	4/17/13 0:00	0.24	1.54	3.39
4/11/13 21:20	0.65	2.69	4	4/17/13 0:05	0.24	1.49	3.36
4/11/13 21:25	0.65	2.6	4.01	4/17/13 0:10	0.24	1.42	3.4
4/11/13 21:30	0.65	2.62	4.01	4/17/13 0:15	0.25	1.5	3.56
4/11/13 21:35	0.61	2.55	3.91	4/17/13 0:20	0.24	1.53	3.43
4/11/13 21:40	0.64	2.6	3.97	4/17/13 0:25	0.24	1.49	3.44
4/11/13 21:45	0.63	2.6	4.04	4/17/13 0:30	0.24	1.42	3.44
4/11/13 21:50	0.63	2.59	3.92	4/17/13 0:35	0.24	1.54	3.33
4/11/13 21:55	0.66	2.61	4.06	4/17/13 0:40	0.26	1.5	3.65
4/11/13 22:00	0.61	2.52	3.85	4/17/13 0:45	0.24	1.52	3.45
4/11/13 22:05	0.62	2.55	3.97	4/17/13 0:50	0.25	1.46	3.58
4/11/13 22:10	0.64	2.57	4.05	4/17/13 0:55	0.24	1.5	3.43
4/11/13 22:15	0.66	2.58	4.17	4/17/13 1:00	0.24	1.56	3.4
4/11/13 22:20	0.61	2.54	3.94	4/17/13 1:05	0.25	1.56	3.49
4/11/13 22:25	0.61	2.57	3.92	4/17/13 1:10	0.24	1.56	3.36
4/11/13 22:30	0.63	2.6	3.97	4/17/13 1:15	0.26	1.59	3.6
4/11/13 22:35	0.6	2.51	3.83	4/17/13 1:20	0.26	1.5	3.48
4/11/13 22:40	0.61	2.59	3.9	4/17/13 1:25	0.25	1.52	3.52
4/11/13 22:45	0.6	2.54	3.81	4/17/13 1:30	0.25	1.57	3.36
4/11/13 22:50	0.63	2.51	3.98	4/17/13 1:35	0.26	1.53	3.58
4/11/13 22:55	0.6	2.54	3.94	4/17/13 1:40	0.25	1.53	3.52
4/11/13 23:00	0.61	2.55	3.87	4/17/13 1:45	0.22	1.49	3.21
4/11/13 23:05	0.63	2.52	4.02	4/17/13 1:50	0.25	1.51	3.61
4/11/13 23:10	0.6	2.57	3.81	4/17/13 1:55	0.25	1.5	3.51

time	flow rate	velocity	level	time	flow rate	velocity	level
4/17/13 2:00	0.23	1.5	3.33	4/17/13 4:45	0.27	1.56	3.5
4/17/13 2:05	0.24	1.45	3.51	4/17/13 4:50	0.27	1.59	3.49
4/17/13 2:10	0.24	1.48	3.53	4/17/13 4:55	0.29	1.63	3.6
4/17/13 2:15	0.24	1.54	3.34	4/17/13 5:00	0.29	1.65	3.49
4/17/13 2:20	0.25	1.53	3.4	4/17/13 5:05	0.29	1.61	3.66
4/17/13 2:25	0.25	1.51	3.42	4/17/13 5:10	0.29	1.62	3.43
4/17/13 2:30	0.25	1.49	3.48	4/17/13 5:15	0.29	1.59	3.59
4/17/13 2:35	0.24	1.5	3.35	4/17/13 5:20	0.26	1.44	3.57
4/17/13 2:40	0.24	1.46	3.37	4/17/13 5:25	0.26	1.62	3.49
4/17/13 2:45	0.23	1.44	3.37	4/17/13 5:30	0.29	1.73	3.48
4/17/13 2:50	0.24	1.47	3.39	4/17/13 5:35	0.3	1.65	3.56
4/17/13 2:55	0.25	1.59	3.49	4/17/13 5:40	0.27	1.6	3.39
4/17/13 3:00	0.26	1.52	3.63	4/17/13 5:45	0.28	1.66	3.47
4/17/13 3:05	0.24	1.49	3.4	4/17/13 5:50	0.29	1.77	3.48
4/17/13 3:10	0.24	1.49	3.44	4/17/13 5:55	0.31	1.71	3.64
4/17/13 3:15	0.25	1.45	3.51	4/17/13 6:00	0.3	1.64	3.59
4/17/13 3:20	0.24	1.46	3.38	4/17/13 6:05	0.28	1.57	3.49
4/17/13 3:25	0.23	1.45	3.43	4/17/13 6:10	0.29	1.71	3.61
4/17/13 3:30	0.23	1.45	3.44	4/17/13 6:15	0.29	1.66	3.48
4/17/13 3:35	0.24	1.42	3.49	4/17/13 6:20	0.29	1.71	3.52
4/17/13 3:40	0.24	1.46	3.46	4/17/13 6:25	0.28	1.7	3.52
4/17/13 3:45	0.24	1.53	3.44	4/17/13 6:30	0.31	1.8	3.62
4/17/13 3:50	0.25	1.5	3.59	4/17/13 6:35	0.32	1.73	3.63
4/17/13 3:55	0.25	1.48	3.56	4/17/13 6:40	0.31	1.66	3.74
4/17/13 4:00	0.23	1.5	3.34	4/17/13 6:45	0.31	1.68	3.6
4/17/13 4:05	0.24	1.56	3.4	4/17/13 6:50	0.27	1.65	3.48
4/17/13 4:10	0.26	1.53	3.6	4/17/13 6:55	0.25	1.62	3.49
4/17/13 4:15	0.26	1.58	3.63	4/17/13 7:00	0.28	1.59	3.57
4/17/13 4:20	0.26	1.49	3.48	4/17/13 7:05	0.28	1.62	3.5
4/17/13 4:25	0.27	1.52	3.49	4/17/13 7:10	0.29	1.7	3.6
4/17/13 4:30	0.25	1.62	3.5	4/17/13 7:15	0.28	1.57	3.58
4/17/13 4:35	0.26	1.61	3.49	4/17/13 7:20	0.27	1.64	3.48
4/17/13 4:40	0.25	1.51	3.46	4/17/13 7:25	0.27	1.61	3.6

time	flow rate	velocity	level	time	flow rate	velocity	level
4/17/13 7:30	0.29	1.61	3.64	4/17/13 10:15	1.21	3.52	4.45
4/17/13 7:35	0.27	1.55	3.55	4/17/13 10:20	0.87	2.89	4.2
4/17/13 7:40	0.26	1.53	3.44	4/17/13 10:25	0.68	2.59	4.07
4/17/13 7:45	0.24	1.42	3.43	4/17/13 10:30	1.28	4.68	4.58
4/17/13 7:50	0.25	1.56	3.42	4/17/13 10:35	1.5	4.3	4.09
4/17/13 7:55	0.26	1.47	3.6	4/17/13 10:40	1.29	3.52	4.51
4/17/13 8:00	0.3	1.66	3.58	4/17/13 10:45	0.96	3.02	4.32
4/17/13 8:05	0.26	1.63	3.44	4/17/13 10:50	0.95	3.55	4.43
4/17/13 8:10	0.27	1.6	3.5	4/17/13 10:55	1.34	3.92	4.47
4/17/13 8:15	0.28	1.66	3.51	4/17/13 11:00	1.18	3.45	4.44
4/17/13 8:20	0.28	1.65	3.56	4/17/13 11:05	0.93	3.08	4.25
4/17/13 8:25	0.27	1.67	3.52	4/17/13 11:10	0.82	2.91	4.24
4/17/13 8:30	0.27	1.62	3.41	4/17/13 11:15	0.7	2.75	3.95
4/17/13 8:35	0.27	1.55	3.5	4/17/13 11:20	0.67	2.56	4.1
4/17/13 8:40	0.26	1.51	3.53	4/17/13 11:25	0.63	2.62	3.94
4/17/13 8:45	0.25	1.57	3.51	4/17/13 11:30	0.65	2.67	4.02
4/17/13 8:50	0.25	1.48	3.45	4/17/13 11:35	0.7	2.69	4.16
4/17/13 8:55	0.25	1.51	3.44	4/17/13 11:40	0.65	2.66	3.89
4/17/13 9:00	0.26	1.55	3.59	4/17/13 11:45	0.67	2.63	4.11
4/17/13 9:05	0.26	1.58	3.48	4/17/13 11:50	0.65	2.61	4.13
4/17/13 9:10	0.27	1.49	3.52	4/17/13 11:55	0.6	2.48	3.91
4/17/13 9:15	0.27	1.6	3.55	4/17/13 12:00	0.58	2.48	3.89
4/17/13 9:20	0.27	1.63	3.47	4/17/13 12:05	0.59	2.5	3.94
4/17/13 9:25	0.29	1.58	3.49	4/17/13 12:10	0.57	2.48	3.89
4/17/13 9:30	0.28	1.63	3.57	4/17/13 12:15	0.6	2.45	4.02
4/17/13 9:35	0.27	1.71	3.49	4/17/13 12:20	0.56	2.47	3.82
4/17/13 9:40	0.31	1.7	3.63	4/17/13 12:25	0.56	2.51	3.86
4/17/13 9:45	0.31	1.63	3.6	4/17/13 12:30	0.48	2.37	3.4
4/17/13 9:50	0.27	1.56	3.51	4/17/13 12:35	0.5	2.41	3.65
4/17/13 9:55	0.28	1.57	3.57	4/17/13 12:40	0.53	2.44	3.73
4/17/13 10:00	0.28	1.6	3.46	4/17/13 12:45	0.51	2.32	3.67
4/17/13 10:05	0.41	2.44	3.84	4/17/13 12:50	0.52	2.3	3.96
4/17/13 10:10	1.32	4.14	4.35	4/17/13 12:55	0.51	2.3	3.9

time	flow rate	velocity	level	time	flow rate	velocity	level
4/17/13 13:00	0.51	2.31	3.85	4/17/13 15:45	0.42	2.13	3.68
4/17/13 13:05	0.49	2.25	3.68	4/17/13 15:50	0.46	2.12	3.77
4/17/13 13:10	0.5	2.31	3.79	4/17/13 15:55	0.44	2.09	3.67
4/17/13 13:15	0.48	2.2	3.84	4/17/13 16:00	0.44	2.13	3.72
4/17/13 13:20	0.5	2.32	3.83	4/17/13 16:05	0.39	2.01	3.45
4/17/13 13:25	0.49	2.32	3.79	4/17/13 16:10	0.44	2.07	3.76
4/17/13 13:30	0.49	2.27	3.82	4/17/13 16:15	0.44	2.15	3.73
4/17/13 13:35	0.5	2.24	3.89	4/17/13 16:20	0.43	2.06	3.72
4/17/13 13:40	0.49	2.21	3.87	4/17/13 16:25	0.45	2.16	3.87
4/17/13 13:45	0.47	2.2	3.76	4/17/13 16:30	0.42	2.02	3.69
4/17/13 13:50	0.46	2.25	3.63	4/17/13 16:35	0.4	1.96	3.61
4/17/13 13:55	0.48	2.22	3.83	4/17/13 16:40	0.38	2.06	3.47
4/17/13 14:00	0.47	2.21	3.71	4/17/13 16:45	0.39	2.04	3.58
4/17/13 14:05	0.46	2.21	3.74	4/17/13 16:50	0.4	2.09	3.65
4/17/13 14:10	0.43	2.17	3.55	4/17/13 16:55	0.42	2.17	3.65
4/17/13 14:15	0.46	2.21	3.76	4/17/13 17:00	0.43	2.04	3.8
4/17/13 14:20	0.45	2.2	3.71	4/17/13 17:05	0.44	2.15	3.79
4/17/13 14:25	0.47	2.1	3.89	4/17/13 17:10	0.46	2.23	3.86
4/17/13 14:30	0.45	2.17	3.76	4/17/13 17:15	0.43	2.13	3.74
4/17/13 14:35	0.45	2.09	3.81	4/17/13 17:20	0.44	2.18	3.65
4/17/13 14:40	0.45	2.17	3.75	4/17/13 17:25	0.44	2.09	3.75
4/17/13 14:45	0.44	2.09	3.73	4/17/13 17:30	0.4	1.97	3.75
4/17/13 14:50	0.43	2.14	3.63	4/17/13 17:35	0.38	2.02	3.46
4/17/13 14:55	0.41	2.16	3.46	4/17/13 17:40	0.4	2.08	3.61
4/17/13 15:00	0.43	2.01	3.75	4/17/13 17:45	0.4	2.03	3.68
4/17/13 15:05	0.44	2.03	3.76	4/17/13 17:50	0.39	2.04	3.69
4/17/13 15:10	0.41	2.01	3.65	4/17/13 17:55	0.39	2.02	3.58
4/17/13 15:15	0.43	2.01	3.7	4/17/13 18:00	0.41	2.04	3.72
4/17/13 15:20	0.43	2.07	3.8	4/17/13 18:05	0.4	1.96	3.78
4/17/13 15:25	0.42	2.14	3.58	4/17/13 18:10	0.38	1.99	3.61
4/17/13 15:30	0.43	2.08	3.64	4/17/13 18:15	0.4	2.09	3.53
4/17/13 15:35	0.42	2.14	3.68	4/17/13 18:20	0.4	2.03	3.72
4/17/13 15:40	0.44	2.15	3.82	4/17/13 18:25	0.41	1.92	3.84

time	flow rate	velocity	level	time	flow rate	velocity	level
4/17/13 18:30	0.39	1.93	3.66	4/17/13 21:15	3.66	5.13	7.11
4/17/13 18:35	0.4	2.03	3.77	4/17/13 21:20	1.87	4.43	4.76
4/17/13 18:40	0.41	2.05	3.67	4/17/13 21:25	1.76	3.7	0
4/17/13 18:45	0.42	1.92	3.86	4/17/13 21:30	0.97	3.34	3.95
4/17/13 18:50	0.38	1.95	3.61	4/17/13 21:35	0.95	3.24	4.28
4/17/13 18:55	0.41	1.94	3.63	4/17/13 21:40	0.98	3.46	4.23
4/17/13 19:00	0.39	2.01	3.7	4/17/13 21:45	1.03	3.4	4.27
4/17/13 19:05	0.39	1.88	3.71	4/17/13 21:50	0.99	3.3	4.25
4/17/13 19:10	0.41	2.1	3.74	4/17/13 21:55	1.48	4.67	4.58
4/17/13 19:15	0.4	2.07	3.69	4/17/13 22:00	1.5	4.26	4.32
4/17/13 19:20	0.38	1.83	3.61	4/17/13 22:05	2.42	5.16	6.23
4/17/13 19:25	0.39	2.05	3.6	4/17/13 22:10	2.28	4.53	5.35
4/17/13 19:30	0.37	1.92	3.57	4/17/13 22:15	1.64	4.22	4.5
4/17/13 19:35	0.39	1.91	3.76	4/17/13 22:20	1.47	4.05	4.76
4/17/13 19:40	0.42	2	3.87	4/17/13 22:25	1.37	4.04	4.5
4/17/13 19:45	0.4	1.96	3.74	4/17/13 22:30	1.33	3.8	4.52
4/17/13 19:50	0.38	1.95	3.73	4/17/13 22:35	1.11	3.68	4.15
4/17/13 19:55	0.39	2	3.7	4/17/13 22:40	1.1	3.42	4.37
4/17/13 20:00	0.4	2.08	3.69	4/17/13 22:45	1.05	3.4	4.38
4/17/13 20:05	0.41	2.03	3.74	4/17/13 22:50	1	3.4	4.3
4/17/13 20:10	0.37	1.93	3.63	4/17/13 22:55	1.02	3.34	4.38
4/17/13 20:15	0.38	1.97	3.56	4/17/13 23:00	0.99	3.22	4.35
4/17/13 20:20	0.37	1.95	3.61	4/17/13 23:05	0.91	3.32	4.06
4/17/13 20:25	0.39	1.98	3.62	4/17/13 23:10	0.98	3.31	4.36
4/17/13 20:30	0.39	1.99	3.76	4/17/13 23:15	0.94	3.22	4.34
4/17/13 20:35	0.39	1.96	3.77	4/17/13 23:20	0.95	3.26	4.35
4/17/13 20:40	0.37	1.82	3.67	4/17/13 23:25	0.9	3.13	4.21
4/17/13 20:45	0.4	1.92	3.79	4/17/13 23:30	0.88	3.13	4.16
4/17/13 20:50	0.38	1.94	3.69	4/17/13 23:35	0.96	3.12	4.54
4/17/13 20:55	0.37	2.03	3.61	4/17/13 23:40	0.92	3.17	4.38
4/17/13 21:00	0.39	1.97	3.65	4/17/13 23:45	1.03	3.54	4.3
4/17/13 21:05	0.49	2.41	3.99	4/17/13 23:50	1.21	3.76	4.45
4/17/13 21:10	2.18	5.82	6.51	4/17/13 23:55	1.22	3.63	4.41

time	flow rate	velocity	level	time	flow rate	velocity	level
4/18/13 0:00	1.15	3.7	4.39	4/18/13 2:45	1.13	3.52	4.5
4/18/13 0:05	1.27	4.27	4.36	4/18/13 2:50	1.02	3.5	4.26
4/18/13 0:10	2.17	4.71	5.84	4/18/13 2:55	1.09	3.38	4.56
4/18/13 0:15	2.22	4.77	5.7	4/18/13 3:00	1.03	3.38	4.36
4/18/13 0:20	2.18	4.77	5.72	4/18/13 3:05	1.01	3.29	4.38
4/18/13 0:25	2.28	4.74	5.96	4/18/13 3:10	1.02	3.24	4.44
4/18/13 0:30	1.9	4.61	5.24	4/18/13 3:15	1.02	3.29	4.47
4/18/13 0:35	1.91	4.45	5.25	4/18/13 3:20	1.03	3.3	4.45
4/18/13 0:40	1.67	4.44	4.69	4/18/13 3:25	1	3.35	4.29
4/18/13 0:45	1.69	4.36	4.99	4/18/13 3:30	0.99	3.37	4.28
4/18/13 0:50	1.42	3.9	4.61	4/18/13 3:35	1.03	3.32	4.48
4/18/13 0:55	1.25	3.93	4.36	4/18/13 3:40	1	3.24	4.41
4/18/13 1:00	1.26	3.75	4.51	4/18/13 3:45	1.01	3.4	4.45
4/18/13 1:05	1.21	3.59	4.62	4/18/13 3:50	0.98	3.29	4.29
4/18/13 1:10	1.12	3.55	4.39	4/18/13 3:55	1	3.35	4.42
4/18/13 1:15	1.11	3.45	4.42	4/18/13 4:00	1	3.31	4.38
4/18/13 1:20	1.15	3.48	4.57	4/18/13 4:05	0.98	3.23	4.44
4/18/13 1:25	1.12	3.49	4.45	4/18/13 4:10	1.1	4.32	4.3
4/18/13 1:30	1.14	3.64	4.58	4/18/13 4:15	2.68	5.49	0
4/18/13 1:35	1.13	3.54	4.46	4/18/13 4:20	2.73	4.84	6.17
4/18/13 1:40	1.08	3.49	4.4	4/18/13 4:25	2.04	4.54	5.39
4/18/13 1:45	1.17	3.54	4.56	4/18/13 4:30	1.81	4.7	5.17
4/18/13 1:50	1.08	3.47	4.48	4/18/13 4:35	1.47	4.31	4.22
4/18/13 1:55	1.09	3.39	4.54	4/18/13 4:40	2.43	5.24	6.09
4/18/13 2:00	1.08	3.37	4.39	4/18/13 4:45	2.65	4.51	6.39
4/18/13 2:05	1.08	3.33	4.61	4/18/13 4:50	2.08	4.66	5.71
4/18/13 2:10	1.06	3.57	4.34	4/18/13 4:55	1.93	4.65	5.24
4/18/13 2:15	1.03	3.4	4.25	4/18/13 5:00	1.56	4.31	4.66
4/18/13 2:20	1.07	3.38	4.57	4/18/13 5:05	1.61	4.31	4.74
4/18/13 2:25	1.04	3.33	4.47	4/18/13 5:10	1.54	4.28	4.53
4/18/13 2:30	1.07	3.43	4.51	4/18/13 5:15	1.55	4.17	4.75
4/18/13 2:35	1.03	3.44	4.37	4/18/13 5:20	1.45	4.2	4.5
4/18/13 2:40	1.05	3.56	4.25	4/18/13 5:25	1.5	4.05	4.65

time	flow rate	velocity	level	time	flow rate	velocity	level
4/18/13 5:30	1.42	4.03	4.56	4/18/13 8:15	1.21	3.66	4.68
4/18/13 5:35	1.31	3.88	4.26	4/18/13 8:20	1.07	3.64	4.15
4/18/13 5:40	1.43	4.12	4.53	4/18/13 8:25	1.15	3.53	4.49
4/18/13 5:45	1.44	3.96	4.73	4/18/13 8:30	1.1	3.62	4.36
4/18/13 5:50	1.26	4	4.19	4/18/13 8:35	1.12	3.55	4.36
4/18/13 5:55	1.3	4.05	4.29	4/18/13 8:40	1.07	3.58	4.25
4/18/13 6:00	1.34	4.02	4.48	4/18/13 8:45	1.16	3.55	4.51
4/18/13 6:05	1.32	3.89	4.53	4/18/13 8:50	1.12	3.53	4.41
4/18/13 6:10	1.33	4.05	4.47	4/18/13 8:55	1.08	3.51	4.32
4/18/13 6:15	1.39	3.99	4.66	4/18/13 9:00	1.1	3.52	4.36
4/18/13 6:20	1.34	3.95	4.55	4/18/13 9:05	1.13	3.44	4.48
4/18/13 6:25	1.22	3.89	4.24	4/18/13 9:10	1.07	3.54	4.33
4/18/13 6:30	1.31	4.03	4.48	4/18/13 9:15	1.1	3.53	4.4
4/18/13 6:35	1.26	3.94	4.32	4/18/13 9:20	1.07	3.53	4.28
4/18/13 6:40	1.3	3.8	4.56	4/18/13 9:25	1.05	3.44	4.21
4/18/13 6:45	1.31	3.84	4.55	4/18/13 9:30	1.12	3.52	4.43
4/18/13 6:50	1.28	3.85	4.46	4/18/13 9:35	1.06	3.49	4.36
4/18/13 6:55	1.13	3.75	4.13	4/18/13 9:40	1.01	3.58	4.16
4/18/13 7:00	1.24	3.84	4.35	4/18/13 9:45	1.04	3.32	4.33
4/18/13 7:05	1.22	3.86	4.43	4/18/13 9:50	1.09	3.35	4.53
4/18/13 7:10	1.23	3.78	4.43	4/18/13 9:55	1	3.47	4.18
4/18/13 7:15	1.19	3.71	4.4	4/18/13 10:00	1.01	3.45	4.21
4/18/13 7:20	1.2	3.69	4.52	4/18/13 10:05	1.03	3.35	4.27
4/18/13 7:25	1.23	3.82	4.5	4/18/13 10:10	0.94	3.46	3.97
4/18/13 7:30	1.21	3.67	4.42	4/18/13 10:15	1.02	3.44	4.32
4/18/13 7:35	1.21	3.73	4.49	4/18/13 10:20	1.03	3.45	4.28
4/18/13 7:40	1.21	3.71	4.51	4/18/13 10:25	1.07	3.36	4.55
4/18/13 7:45	1.12	3.72	4.24	4/18/13 10:30	0.98	3.39	4.27
4/18/13 7:50	1.13	3.65	4.24	4/18/13 10:35	1.02	3.34	4.31
4/18/13 7:55	1.14	3.59	4.39	4/18/13 10:40	1	3.36	4.27
4/18/13 8:00	1.18	3.72	4.49	4/18/13 10:45	1.03	3.39	4.45
4/18/13 8:05	1.17	3.68	4.44	4/18/13 10:50	1	3.3	4.32
4/18/13 8:10	1.17	3.64	4.45	4/18/13 10:55	1.02	3.39	4.38

time	flow rate	velocity	level	time	flow rate	velocity	level
4/18/13 11:00	0.99	3.38	4.29	4/18/13 13:45	0.920	3.11	4.37
4/18/13 11:05	0.95	3.33	4.11	4/18/13 13:50	0.930	3.2	4.36
4/18/13 11:10	1.05	3.42	4.52	4/18/13 13:55	0.910	3.16	4.25
4/18/13 11:15	0.98	3.36	4.23	4/18/13 14:00	0.900	3.12	4.25
4/18/13 11:20	1.01	3.4	4.38	4/18/13 14:05	0.930	3.29	4.37
4/18/13 11:25	0.97	3.29	4.29	4/18/13 14:10	0.890	3.05	4.26
4/18/13 11:30	1.01	3.4	4.37	4/18/13 14:15	0.860	3.14	4.06
4/18/13 11:35	1.01	3.32	4.36	4/18/13 14:20	0.880	3.13	4.21
4/18/13 11:40	0.96	3.36	4.23	4/18/13 14:25	0.900	3.08	4.3
4/18/13 11:45	0.96	3.46	4.09	4/18/13 14:30	0.810	3.13	3.87
4/18/13 11:50	1.01	3.36	4.31	4/18/13 14:35	0.920	3.1	4.45
4/18/13 11:55	0.92	3.22	4.12	4/18/13 14:40	0.900	3.12	4.33
4/18/13 12:00	0.92	3.29	4.11	4/18/13 14:45	0.840	3.11	4.11
4/18/2013 12:05	1	3.4	4.37	4/18/13 14:50	0.900	3.09	4.36
4/18/13 12:10	0.93	3.29	4.13	4/18/13 14:55	0.920	3.1	4.47
4/18/13 12:15	0.95	3.24	4.27	4/18/13 15:00	0.930	3.13	4.51
4/18/13 12:20	0.97	3.3	4.32	4/18/13 15:05	0.900	3.16	4.3
4/18/13 12:25	0.9	3.29	3.98	4/18/13 15:10	0.900	3.16	4.32
4/18/13 12:30	0.95	3.37	4.2	4/18/13 15:15	0.880	3.07	4.23
4/18/13 12:35	0.93	3.21	4.29	4/18/13 15:20	0.890	3.16	4.25
4/18/13 12:40	0.95	3.29	4.27	4/18/13 15:25	0.920	3.16	4.35
4/18/13 12:45	0.92	3.26	4.22	4/18/13 15:30	0.870	3.15	4.13
4/18/13 12:50	0.93	3.24	4.27	4/18/13 15:35	0.860	3.05	4.2
4/18/13 12:55	0.91	3.19	4.2	4/18/13 15:40	0.860	3.14	4.14
4/18/13 13:00	0.92	3.2	4.19	4/18/13 15:45	0.890	3.11	4.27
4/18/13 13:05	0.88	3.17	4.01	4/18/13 15:50	0.930	3.15	4.44
4/18/13 13:10	0.93	3.2	4.26	4/18/13 15:55	0.850	3.08	4.14
4/18/13 13:15	0.92	3.26	4.23	4/18/13 16:00	0.860	3.11	4.13
4/18/13 13:20	0.93	3.14	4.32	4/18/13 16:05	0.900	3.08	4.37
4/18/13 13:25	0.91	3.16	4.24	4/18/13 16:10	0.910	3.13	4.39
4/18/13 13:30	0.95	3.21	4.37	4/18/13 16:15	0.800	3.04	3.91
4/18/13 13:35	0.89	3.2	4.15	4/18/13 16:20	0.770	3.08	3.78
4/18/13 13:40	0.96	3.25	4.42	4/18/13 16:25	0.830	3.1	4.11

time	flow rate	velocity	level	time	flow rate	velocity	level
4/18/13 16:30	0.910	3.08	4.34	4/18/13 19:15	0.800	2.93	4.17
4/18/13 16:35	0.880	3.07	4.31	4/18/13 19:20	0.790	2.91	4.18
4/18/13 16:40	0.870	3.09	4.23	4/18/13 19:25	0.780	2.95	3.99
4/18/13 16:45	0.880	3.09	4.29	4/18/13 19:30	0.780	2.98	4.05
4/18/13 16:50	0.840	3.05	4.17	4/18/13 19:35	0.800	2.97	4.05
4/18/13 16:55	0.840	3.02	4.2	4/18/13 19:40	0.820	2.93	4.29
4/18/13 17:00	0.860	3.02	4.21	4/18/13 19:45	0.760	2.91	4.03
4/18/13 17:05	0.840	3.02	4.14	4/18/13 19:50	0.760	2.88	4.02
4/18/13 17:10	0.820	2.98	4.08	4/18/13 19:55	0.780	2.89	4.2
4/18/13 17:15	0.860	3.05	4.27	4/18/13 20:00	0.770	2.89	4.04
4/18/13 17:20	0.850	3	4.21	4/18/13 20:05	0.740	2.95	3.91
4/18/13 17:25	0.860	3.05	4.31	4/18/13 20:10	0.770	2.86	4.09
4/18/13 17:30	0.830	3.01	4.21	4/18/13 20:15	0.820	2.96	4.31
4/18/13 17:35	0.820	3.01	4.15	4/18/13 20:20	0.770	2.97	4.11
4/18/13 17:40	0.860	2.96	4.27	4/18/13 20:25	0.690	2.89	3.68
4/18/13 17:45	0.810	3.04	4.08	4/18/13 20:30	0.730	2.96	3.83
4/18/13 17:50	0.820	2.99	4.14	4/18/13 20:35	0.750	2.91	4.03
4/18/13 17:55	0.830	3	4.22	4/18/13 20:40	0.730	2.98	3.81
4/18/13 18:00	0.820	2.96	4.18	4/18/13 20:45	0.730	2.83	3.94
4/18/13 18:05	0.780	2.93	4.02	4/18/13 20:50	0.760	2.93	4.05
4/18/13 18:10	0.800	2.96	4.1	4/18/13 20:55	0.740	2.92	3.98
4/18/13 18:15	0.770	3.05	3.93	4/18/13 21:00	0.740	2.92	3.9
4/18/13 18:20	0.820	2.99	4.17	4/18/13 21:05	0.780	2.97	4.13
4/18/13 18:25	0.800	2.98	4.13	4/18/13 21:10	0.760	2.85	4.14
4/18/13 18:30	0.800	2.92	4.14	4/18/13 21:15	0.780	2.93	4.17
4/18/13 18:35	0.810	3.01	4.19	4/18/13 21:20	0.780	2.83	4.19
4/18/13 18:40	0.800	2.95	4.1	4/18/13 21:25	0.750	2.86	4.04
4/18/13 18:45	0.780	2.94	4.03	4/18/13 21:30	0.760	2.91	4.08
4/18/13 18:50	0.810	2.94	4.3	4/18/13 21:35	0.770	2.84	4.16
4/18/13 18:55	0.790	2.98	4.05	4/18/13 21:40	0.770	2.84	4.19
4/18/13 19:00	0.790	2.94	4.16	4/18/13 21:45	0.740	2.84	4.01
4/18/13 19:05	0.810	2.98	4.21	4/18/13 21:50	0.720	2.82	4
4/18/13 19:10	0.820	2.97	4.27	4/18/13 21:55	0.730	2.83	4.02

time	flow rate	velocity	level	time	flow rate	velocity	level
4/18/13 22:00	0.730	2.84	4.03	4/26/13 0:45	0.310	1.74	3.57
4/18/13 22:05	0.770	2.85	4.26	4/26/13 0:50	0.310	1.67	3.58
4/18/13 22:10	0.790	2.91	4.26	4/26/13 0:55	0.310	1.73	3.53
4/18/13 22:15	0.750	2.9	4.04	4/26/13 1:00	0.300	1.59	3.48
4/18/13 22:20	0.710	2.82	4.01	4/26/13 1:05	0.310	1.76	3.63
4/18/13 22:25	0.730	2.84	4.03	4/26/13 1:10	0.310	1.72	3.45
4/18/13 22:30	0.730	2.75	4.05	4/26/13 1:15	0.290	1.66	3.44
4/18/13 22:35	0.730	2.8	4.09	4/26/13 1:20	0.310	1.72	3.52
4/18/13 22:40	0.730	2.85	4.03	4/26/13 1:25	0.310	1.73	3.65
4/18/13 22:45	0.710	2.82	4	4/26/13 1:30	0.290	1.68	3.43
4/18/13 22:50	0.720	2.72	4.17	4/26/13 1:35	0.300	1.68	3.58
4/18/13 22:55	0.690	2.79	3.91	4/26/13 1:40	0.310	1.66	3.62
4/18/13 23:00	0.700	2.77	3.98	4/26/13 1:45	0.300	1.72	3.49
4/18/13 23:05	0.710	2.74	3.99	4/26/13 1:50	0.290	1.73	3.32
4/18/13 23:10	0.740	2.82	4.15	4/26/13 1:55	0.320	1.65	3.68
4/18/13 23:15	0.760	2.86	4.19	4/26/13 2:00	0.280	1.61	3.4
4/18/13 23:20	0.690	2.75	3.88	4/26/13 2:05	0.320	1.73	3.7
4/18/13 23:25	0.710	2.76	4.02	4/26/13 2:10	0.310	1.66	3.69
4/18/13 23:30	0.740	2.79	4.14	4/26/13 2:15	0.300	1.75	3.49
4/18/13 23:35	0.700	2.82	4.01	4/26/13 2:20	0.310	1.75	3.54
4/18/13 23:40	0.750	2.77	4.24	4/26/13 2:25	0.300	1.7	3.48
4/18/13 23:45	0.730	2.79	4.17	4/26/13 2:30	0.300	1.68	3.55
4/18/13 23:50	0.700	2.7	4	4/26/13 2:35	0.290	1.66	3.57
4/18/13 23:55	0.700	2.78	3.99	4/26/13 2:40	0.300	1.69	3.46
4/26/13 0:00	0.330	1.8	3.58	4/26/13 2:45	0.290	1.65	3.46
4/26/13 0:05	0.32	1.75	3.66	4/26/13 2:50	0.310	1.73	3.66
4/26/13 0:10	0.32	1.66	3.68	4/26/13 2:55	0.300	1.69	3.47
4/26/13 0:15	0.31	1.77	3.56	4/26/13 3:00	0.310	1.72	3.51
4/26/13 0:20	0.32	1.72	3.57	4/26/13 3:05	0.300	1.73	3.48
4/26/13 0:25	0.33	1.77	3.64	4/26/13 3:10	0.310	1.67	3.61
4/26/13 0:30	0.32	1.66	3.68	4/26/13 3:15	0.320	1.8	3.56
4/26/13 0:35	0.31	1.7	3.6	4/26/13 3:20	0.320	1.68	3.53
4/26/13 0:40	0.29	1.66	3.34	4/26/13 3:25	0.310	1.8	3.55

time	flow rate	velocity	level	time	flow rate	velocity	level
4/26/13 3:30	0.320	1.79	3.67	4/26/13 6:15	0.470	2.19	3.71
4/26/13 3:35	0.350	1.85	3.72	4/26/13 6:20	0.470	2.21	3.71
4/26/13 3:40	0.390	1.94	3.82	4/26/13 6:25	0.460	2.12	3.82
4/26/13 3:45	0.420	2.09	3.85	4/26/13 6:30	0.450	2.11	3.81
4/26/13 3:50	0.470	2.21	3.85	4/26/13 6:35	0.430	2.06	3.75
4/26/13 3:55	0.460	2.18	3.71	4/26/13 6:40	0.440	2.04	3.91
4/26/13 4:00	0.480	2.22	3.91	4/26/13 6:45	0.440	2.08	3.85
4/26/13 4:05	0.490	2.24	3.99	4/26/13 6:50	0.440	2.03	3.94
4/26/13 4:10	0.500	2.4	3.79	4/26/13 6:55	0.430	2.14	3.82
4/26/13 4:15	0.720	3.05	4	4/26/13 7:00	0.440	1.99	3.89
4/26/13 4:20	0.860	3.2	4.07	4/26/13 7:05	0.420	1.99	3.8
4/26/13 4:25	0.870	3.14	4.24	4/26/13 7:10	0.420	2.03	3.87
4/26/13 4:30	0.860	2.98	4.28	4/26/13 7:15	0.410	2.01	3.75
4/26/13 4:35	0.730	2.67	4.13	4/26/13 7:20	0.410	2	3.81
4/26/13 4:40	0.620	2.44	4.04	4/26/13 7:25	0.400	2.03	3.7
4/26/13 4:45	0.540	2.32	3.89	4/26/13 7:30	0.440	2.09	3.96
4/26/13 4:50	0.520	2.31	3.97	4/26/13 7:35	0.430	2.02	3.89
4/26/13 4:55	0.490	2.23	3.86	4/26/13 7:40	0.410	2.08	3.71
4/26/13 5:00	0.460	2.16	3.67	4/26/13 7:45	0.450	2.07	3.9
4/26/13 5:05	0.460	2.13	3.88	4/26/13 7:50	0.420	2.03	3.78
4/26/13 5:10	0.440	2.12	3.68	4/26/13 7:55	0.390	1.97	3.73
4/26/13 5:15	0.460	2.1	3.76	4/26/13 8:00	0.410	1.98	3.9
4/26/13 5:20	0.450	2.18	3.78	4/26/13 8:05	0.390	1.93	3.64
4/26/13 5:25	0.460	2.18	3.76	4/26/13 8:10	0.400	2	3.72
4/26/13 5:30	0.440	2.11	3.81	4/26/13 8:15	0.390	1.97	3.7
4/26/13 5:35	0.430	2.08	3.75	4/26/13 8:20	0.400	2.01	3.81
4/26/13 5:40	0.430	2.15	3.71	4/26/13 8:25	0.410	1.99	3.76
4/26/13 5:45	0.450	2.16	3.74	4/26/13 8:30	0.400	1.97	3.71
4/26/13 5:50	0.510	2.29	3.95	4/26/13 8:35	0.380	1.91	3.67
4/26/13 5:55	0.560	2.37	4.01	4/26/13 8:40	0.400	1.97	3.75
4/26/13 6:00	0.540	2.33	3.9	4/26/13 8:45	0.400	1.92	3.85
4/26/13 6:05	0.490	2.34	3.75	4/26/13 8:50	0.390	1.96	3.85
4/26/13 6:10	0.520	2.25	3.96	4/26/13 8:55	0.370	1.92	3.68

time	flow rate	velocity	level	time	flow rate	velocity	level
4/26/13 9:00	0.390	1.98	3.75	4/26/13 11:45	0.360	1.9	3.51
4/26/13 9:05	0.380	1.92	3.72	4/26/13 11:50	0.350	1.94	3.4
4/26/13 9:10	0.380	1.91	3.79	4/26/13 11:55	0.380	1.95	3.75
4/26/13 9:15	0.400	1.97	3.87	4/26/13 12:00	0.360	1.84	3.61
4/26/13 9:20	0.400	1.94	3.85	4/26/13 12:05	0.370	1.9	3.76
4/26/13 9:25	0.380	1.85	3.7	4/26/13 12:10	0.370	1.91	3.67
4/26/13 9:30	0.370	1.94	3.71	4/26/13 12:15	0.350	1.82	3.66
4/26/13 9:35	0.390	1.91	3.87	4/26/13 12:20	0.380	1.93	3.76
4/26/13 9:40	0.380	1.94	3.72	4/26/13 12:25	0.370	1.87	3.63
4/26/13 9:45	0.380	1.9	3.83	4/26/13 12:30	0.350	1.85	3.51
4/26/13 9:50	0.370	1.87	3.76	4/26/13 12:35	0.360	1.91	3.64
4/26/13 9:55	0.370	1.94	3.67	4/26/13 12:40	0.360	1.9	3.65
4/26/13 10:00	0.380	1.9	3.75	4/26/13 12:45	0.380	1.93	3.68
4/26/13 10:05	0.390	1.91	3.81	4/26/13 12:50	0.360	1.85	3.67
4/26/13 10:10	0.380	1.86	3.76	4/26/13 12:55	0.350	1.93	3.59
4/26/13 10:15	0.360	1.88	3.54	4/26/13 13:00	0.370	1.93	3.69
4/26/13 10:20	0.370	1.88	3.74	4/26/13 13:05	0.380	1.9	3.78
4/26/13 10:25	0.370	1.87	3.77	4/26/13 13:10	0.390	1.93	3.86
4/26/13 10:30	0.380	1.91	3.72	4/26/13 13:15	0.380	1.91	3.77
4/26/13 10:35	0.360	1.87	3.65	4/26/13 13:20	0.370	1.95	3.69
4/26/13 10:40	0.360	1.87	3.72	4/26/13 13:25	0.390	1.94	3.68
4/26/13 10:45	0.390	1.92	3.89	4/26/13 13:30	0.380	1.96	3.74
4/26/13 10:50	0.380	1.89	3.81	4/26/13 13:35	0.390	1.94	3.76
4/26/13 10:55	0.380	1.94	3.69	4/26/13 13:40	0.370	1.9	3.64
4/26/13 11:00	0.370	1.79	3.69	4/26/13 13:45	0.380	1.94	3.77
4/26/13 11:05	0.380	1.93	3.76	4/26/13 13:50	0.350	1.88	3.52
4/26/13 11:10	0.380	1.95	3.72	4/26/13 13:55	0.350	1.89	3.59
4/26/13 11:15	0.380	1.91	3.78	4/26/13 14:00	0.380	1.92	3.73
4/26/13 11:20	0.390	1.95	3.81	4/26/13 14:05	0.390	1.92	3.77
4/26/13 11:25	0.380	1.92	3.75	4/26/13 14:10	0.350	1.89	3.52
4/26/13 11:30	0.380	1.89	3.75	4/26/13 14:15	0.360	1.85	3.67
4/26/13 11:35	0.380	1.86	3.75	4/26/13 14:20	0.350	1.89	3.54
4/26/13 11:40	0.360	1.96	3.59	4/26/13 14:25	0.360	1.95	3.64

time	flow rate	velocity	level	time	flow rate	velocity	level
4/26/13 14:30	0.410	2	3.79	4/26/13 17:15	0.640	2.56	4.03
4/26/13 14:35	0.420	2.1	3.73	4/26/13 17:20	0.630	2.56	4.01
4/26/13 14:40	0.520	2.42	3.94	4/26/13 17:25	0.580	2.58	3.77
4/26/13 14:45	0.560	2.41	3.86	4/26/13 17:30	0.600	2.51	4.04
4/26/13 14:50	0.540	2.42	3.78	4/26/13 17:35	0.560	2.38	3.94
4/26/13 14:55	0.520	2.31	3.81	4/26/13 17:40	0.540	2.33	3.94
4/26/13 15:00	0.540	2.35	3.99	4/26/13 17:45	0.470	2.13	3.74
4/26/13 15:05	0.530	2.24	4.05	4/26/13 17:50	0.470	2.13	3.87
4/26/13 15:10	0.470	2.18	3.64	4/26/13 17:55	0.450	2.13	3.78
4/26/13 15:15	0.470	2.13	3.86	4/26/13 18:00	0.460	2.23	3.82
4/26/13 15:20	0.440	2.16	3.74	4/26/13 18:05	0.490	2.22	3.87
4/26/13 15:25	0.420	2.09	3.63	4/26/13 18:10	0.500	2.28	3.81
4/26/13 15:30	0.440	2.12	3.83	4/26/13 18:15	0.520	2.3	3.94
4/26/13 15:35	0.430	2.08	3.81	4/26/13 18:20	0.540	2.33	4.06
4/26/13 15:40	0.430	2.08	3.77	4/26/13 18:25	0.510	2.28	3.82
4/26/13 15:45	0.440	2.07	3.77	4/26/13 18:30	0.500	2.21	3.89
4/26/13 15:50	0.430	2.02	3.81	4/26/13 18:35	0.490	2.3	3.78
4/26/13 15:55	0.430	2	3.83	4/26/13 18:40	0.500	2.3	3.86
4/26/13 16:00	0.440	2.03	3.87	4/26/13 18:45	0.490	2.23	3.86
4/26/13 16:05	0.420	1.99	3.7	4/26/13 18:50	0.520	2.3	3.97
4/26/13 16:10	0.430	2.02	3.9	4/26/13 18:55	0.490	2.3	3.63
4/26/13 16:15	0.430	2.08	3.77	4/26/13 19:00	0.540	2.26	3.94
4/26/13 16:20	0.400	1.99	3.64	4/26/13 19:05	0.460	2.25	3.59
4/26/13 16:25	0.430	2.1	3.77	4/26/13 19:10	0.510	2.25	3.97
4/26/13 16:30	0.420	2.03	3.75	4/26/13 19:15	0.470	2.21	3.76
4/26/13 16:35	0.450	2.11	3.82	4/26/13 19:20	0.500	2.16	3.99
4/26/13 16:40	0.400	2.06	3.55	4/26/13 19:25	0.480	2.26	3.86
4/26/13 16:45	0.420	2.13	3.74	4/26/13 19:30	0.580	2.5	4.15
4/26/13 16:50	0.430	2.14	3.61	4/26/13 19:35	0.720	2.87	4.2
4/26/13 16:55	0.440	2.13	3.79	4/26/13 19:40	0.780	2.79	4.28
4/26/13 17:00	0.470	2.16	3.9	4/26/13 19:45	0.690	2.68	4.04
4/26/13 17:05	0.510	2.41	3.91	4/26/13 19:50	0.650	2.55	4.05
4/26/13 17:10	0.590	2.52	3.91	4/26/13 19:55	0.600	2.5	3.93

time	flow rate	velocity	level	time	flow rate	velocity	level
4/26/13 20:30	0.460	2.21	3.78	4/26/13 23:15	0.640	2.51	4.06
4/26/13 20:35	0.470	2.19	3.77	4/26/13 23:20	0.580	2.39	3.94
4/26/13 20:40	0.470	2.16	3.91	4/26/13 23:25	0.580	2.38	4.03
4/26/13 20:45	0.530	2.29	3.99	4/26/13 23:30	0.550	2.35	3.94
4/26/13 20:50	0.530	2.32	3.89	4/26/13 23:35	0.510	2.26	3.94
4/26/13 20:55	0.530	2.38	3.84	4/26/13 23:40	0.510	2.24	3.96
4/26/13 21:00	0.520	2.29	3.76	4/26/13 23:45	0.500	2.26	3.92
4/26/13 21:05	0.500	2.37	3.59	4/26/13 23:50	0.480	2.24	3.75
4/26/13 21:10	0.520	2.36	3.81	4/26/13 23:55	0.500	2.22	3.91
4/26/13 21:15	0.540	2.36	3.98	4/27/13 0:00	0.500	2.22	3.95
4/26/13 21:20	0.530	2.27	4.04	4/27/2013 0:05	0.49	2.2	3.86
4/26/13 21:25	0.500	2.26	3.79	4/27/2013 0:10	0.48	2.19	3.84
4/26/13 21:30	0.510	2.26	3.89	4/27/2013 0:15	0.48	2.15	3.91
4/26/13 21:35	0.450	2.16	3.81	4/27/2013 0:20	0.45	2.2	3.62
4/26/13 21:40	0.450	2.19	3.72	4/27/2013 0:25	0.47	2.2	3.83
4/26/13 21:45	0.460	2.13	3.79	4/27/2013 0:30	0.45	2.14	3.75
4/26/13 21:50	0.460	2.1	3.79	4/27/2013 0:35	0.49	2.16	4.07
4/26/13 21:55	0.460	2.18	3.8	4/27/2013 0:40	0.48	2.17	3.89
4/26/13 22:00	0.460	2.13	3.78	4/27/2013 0:45	0.47	2.16	3.83
4/26/13 22:05	0.470	2.17	3.85	4/27/2013 0:50	0.46	2.13	3.85
4/26/13 22:10	0.440	2.06	3.81	4/27/2013 0:55	0.47	2.16	3.85
4/26/13 22:15	0.430	2.05	3.72	4/27/2013 1:00	0.45	2.17	3.74
4/26/13 22:20	0.440	2.06	3.94	4/27/2013 1:05	0.47	2.13	3.91
4/26/13 22:25	0.430	2.11	3.83	4/27/2013 1:10	0.46	2.14	3.84
4/26/13 22:30	0.460	2.16	3.79	4/27/2013 1:15	0.47	2.18	3.91
4/26/13 22:35	0.460	2.13	3.88	4/27/2013 1:20	0.51	2.21	4.17
4/26/13 22:40	0.460	2.1	3.88	4/27/2013 1:25	0.5	2.28	3.99
4/26/13 20:30	0.460	2.21	3.78	4/26/13 23:15	0.640	2.51	4.06
4/26/13 20:35	0.470	2.19	3.77	4/26/13 23:20	0.580	2.39	3.94
4/26/13 20:40	0.470	2.16	3.91	4/26/13 23:25	0.580	2.38	4.03
4/26/13 20:45	0.530	2.29	3.99	4/26/13 23:30	0.550	2.35	3.94
4/26/13 20:50	0.530	2.32	3.89	4/26/13 23:35	0.510	2.26	3.94
4/26/13 20:55	0.530	2.38	3.84	4/26/13 23:40	0.510	2.24	3.96

time	flow rate	velocity	level	time	flow rate	velocity	level
4/27/2013 1:30	0.57	2.44	4.06	4/27/13 4:15	1.030	3.32	4.57
4/27/2013 1:35	0.65	2.61	4.2	4/27/13 4:20	1.040	3.33	4.45
4/27/2013 1:40	0.77	2.93	4.35	4/27/13 4:25	1.050	3.35	4.58
4/27/2013 1:45	0.98	3.42	4.42	4/27/13 4:30	0.900	3.29	3.95
4/27/2013 1:50	1.06	3.34	4.44	4/27/13 4:35	0.940	3.21	4.37
4/27/2013 1:55	1.04	3.37	4.41	4/27/13 4:40	0.940	3.23	4.38
4/27/2013 2:00	1.04	3.37	4.41	4/27/13 4:45	0.910	3.22	4.13
4/27/2013 2:05	0.96	3.22	4.28	4/27/13 4:50	0.930	3.23	4.2
4/27/2013 2:10	0.9	3	4.34	4/27/13 4:55	0.940	3.09	4.42
4/27/2013 2:15	0.85	2.95	4.39	4/27/13 5:00	0.950	3.13	4.46
4/27/2013 2:20	0.77	2.84	4.21	4/27/13 5:05	0.950	3.16	4.41
4/27/2013 2:25	0.75	2.82	4.28	4/27/13 5:10	0.940	3.15	4.37
4/27/2013 2:30	0.8	3.07	4.18	4/27/13 5:15	0.880	3.17	4.19
4/27/2013 2:35	0.95	3.27	4.45	4/27/13 5:20	0.930	3.14	4.43
4/27/2013 2:40	1.06	3.41	4.53	4/27/13 5:25	0.870	3.16	4.09
4/27/2013 2:45	1.05	3.28	4.53	4/27/13 5:30	0.920	3.15	4.33
4/27/2013 2:50	1.04	3.34	4.42	4/27/13 5:35	0.920	3.09	4.37
4/27/2013 2:55	1.08	3.43	4.48	4/27/13 5:40	0.870	3.13	4.16
4/27/2013 3:00	1.05	3.42	4.37	4/27/13 5:45	0.860	3.11	4.18
4/27/13 3:05	1.080	3.3	4.62	4/27/13 5:50	0.930	3.09	4.48
4/27/13 3:10	1.030	3.34	4.48	4/27/13 5:55	0.880	3.2	4.19
4/27/13 3:15	1.020	3.31	4.5	4/27/13 6:00	0.930	3.14	4.38
4/27/13 3:20	0.960	3.23	4.26	4/27/13 6:05	1.010	3.32	4.5
4/27/13 3:25	1.080	3.68	4.37	4/27/13 6:10	1.040	3.27	4.59
4/27/13 3:30	1.340	3.86	4.76	4/27/13 6:15	1.040	3.51	4.4
4/27/13 3:35	1.29	3.94	4.53	4/27/13 6:20	1.170	3.65	4.55
4/27/13 3:40	1.31	4.04	4.42	4/27/13 6:25	1.240	3.84	4.45
4/27/13 3:45	1.36	3.81	4.64	4/27/13 6:30	1.260	3.88	4.46
4/27/13 3:50	1.2	3.61	4.47	4/27/13 6:35	1.340	3.96	4.64
4/27/13 3:55	1.19	3.4	4.67	4/27/13 6:40	1.220	3.9	4.17
4/27/13 4:00	1.04	3.36	4.43	4/27/13 6:45	1.350	3.8	4.69
4/27/13 4:05	1.05	3.27	4.6	4/27/13 6:50	1.250	3.72	4.6
4/27/13 4:10	1	3.36	4.48	4/27/13 6:55	1.170	3.59	4.55

time	flow rate	velocity	level	time	flow rate	velocity	level
4/27/13 7:00	1.120	3.42	4.37	4/27/13 9:45	0.920	3.23	4.18
4/27/13 7:05	1.150	3.54	4.47	4/27/13 9:50	0.920	3.21	4.24
4/27/13 7:10	0.990	3.6	3.77	4/27/13 9:55	0.870	3.23	4.02
4/27/13 7:15	1.180	3.57	4.48	4/27/13 10:00	0.880	3.24	4.02
4/27/13 7:20	1.170	3.51	4.58	4/27/13 10:05	0.860	3.12	4.05
4/27/13 7:25	1.010	3.41	4.22	4/27/13 10:10	0.880	3.24	4.13
4/27/13 7:30	0.950	3.25	3.99	4/27/13 10:15	0.900	3.18	4.24
4/27/13 7:35	1.060	3.37	4.53	4/27/13 10:20	0.870	3.12	4.04
4/27/13 7:40	1.000	3.35	4.34	4/27/13 10:25	0.860	3.16	4.11
4/27/13 7:45	0.960	3.32	4.21	4/27/13 10:30	0.880	3.04	4.22
4/27/13 7:50	1.000	3.29	4.48	4/27/13 10:35	0.890	3.1	4.26
4/27/13 7:55	0.990	3.31	4.32	4/27/13 10:40	0.880	3.09	4.21
4/27/13 8:00	0.950	3.29	4.26	4/27/13 10:45	0.850	3.14	4.07
4/27/13 8:05	0.970	3.27	4.33	4/27/13 10:50	0.850	3.09	4.08
4/27/13 8:10	0.980	3.34	4.36	4/27/13 10:55	0.850	3.14	4.12
4/27/13 8:15	0.970	3.29	4.31	4/27/13 11:00	0.780	3.11	3.78
4/27/13 8:20	1.010	3.28	4.52	4/27/13 11:05	0.890	3.08	4.3
4/27/13 8:25	1.050	3.3	4.53	4/27/13 11:10	0.860	3.09	4.2
4/27/13 8:30	0.990	3.32	4.34	4/27/13 11:15	0.860	3.01	4.25
4/27/13 8:35	0.970	3.33	4.23	4/27/13 11:20	0.860	3.1	4.25
4/27/13 8:40	1.010	3.3	4.4	4/27/13 11:25	0.850	3.12	4.07
4/27/13 8:45	0.910	3.33	4.04	4/27/13 11:30	0.800	3.09	3.87
4/27/13 8:50	0.970	3.34	4.18	4/27/13 11:35	0.850	3.03	4.24
4/27/13 8:55	0.970	3.19	4.3	4/27/13 11:40	0.860	3.05	4.29
4/27/13 9:00	0.940	3.26	4.14	4/27/13 11:45	0.770	2.97	3.82
4/27/13 9:05	0.970	3.3	4.29	4/27/13 11:50	0.820	2.98	4.12
4/27/13 9:10	0.930	3.29	4.09	4/27/13 11:55	0.830	3.03	4.18
4/27/13 9:15	0.930	3.25	4.28	4/27/13 12:00	0.840	3.04	4.19
4/27/13 9:20	0.960	3.28	4.26	4/27/13 12:05	0.850	3	4.23
4/27/13 9:25	0.980	3.3	4.39	4/27/13 12:10	0.850	3.03	4.25
4/27/13 9:30	0.980	3.3	4.36	4/27/13 12:15	0.830	2.99	4.22
4/27/13 9:35	0.900	3.24	4.08	4/27/13 12:20	0.860	3.02	4.23
4/27/13 9:40	0.900	3.18	4.17	4/27/13 12:25	0.810	3	4.11

time	flow rate	velocity	level	time	flow rate	velocity	level
4/27/13 12:30	0.810	2.99	4.11	4/27/13 15:15	0.750	2.89	3.98
4/27/13 12:35	0.790	3.02	3.96	4/27/13 15:20	0.760	2.92	4.08
4/27/13 12:40	0.840	3.02	4.27	4/27/13 15:25	0.790	2.95	4.21
4/27/13 12:45	0.810	2.98	4.14	4/27/13 15:30	0.770	2.88	4.14
4/27/13 12:50	0.800	2.99	4.12	4/27/13 15:35	0.740	2.93	3.95
4/27/13 12:55	0.790	3.02	4.01	4/27/13 15:40	0.720	2.92	3.8
4/27/13 13:00	0.770	3	4.02	4/27/13 15:45	0.740	2.86	4.02
4/27/13 13:05	0.800	2.91	4.17	4/27/13 15:50	0.760	2.89	4.08
4/27/13 13:10	0.830	2.99	4.23	4/27/13 15:55	0.740	2.86	3.99
4/27/13 13:15	0.810	2.99	4.07	4/27/13 16:00	0.730	2.86	3.92
4/27/13 13:20	0.770	2.99	3.94	4/27/13 16:05	0.720	2.86	3.95
4/27/13 13:25	0.760	3	3.82	4/27/13 16:10	0.780	2.84	4.22
4/27/13 13:30	0.780	3	4.01	4/27/13 16:15	0.760	2.94	4.08
4/27/13 13:35	0.810	2.96	4.18	4/27/13 16:20	0.750	2.86	4.06
4/27/13 13:40	0.810	2.93	4.15	4/27/13 16:25	0.750	2.83	4.18
4/27/13 13:45	0.660	2.92	3.43	4/27/13 16:30	0.710	2.85	4
4/27/13 13:50	0.810	2.94	4.15	4/27/13 16:35	0.730	2.86	4.03
4/27/13 13:55	0.780	2.94	4.03	4/27/13 16:40	0.740	2.84	4.08
4/27/13 14:00	0.800	2.96	4.12	4/27/13 16:45	0.690	2.83	3.81
4/27/13 14:05	0.770	2.93	4.03	4/27/13 16:50	0.720	2.85	3.9
4/27/13 14:10	0.770	2.94	4.01	4/27/13 16:55	0.790	2.83	4.35
4/27/13 14:15	0.810	2.89	4.22	4/27/13 17:00	0.740	2.86	4
4/27/13 14:20	0.750	2.96	3.91	4/27/13 17:05	0.730	2.88	4.04
4/27/13 14:25	0.780	2.98	4.05	4/27/13 17:10	0.740	2.86	4.07
4/27/13 14:30	0.790	2.95	4.13	4/27/13 17:15	0.730	2.81	3.99
4/27/13 14:35	0.750	2.88	3.98	4/27/13 17:20	0.770	2.85	4.15
4/27/13 14:40	0.790	2.95	4.2	4/27/13 17:25	0.710	2.86	3.87
4/27/13 14:45	0.790	2.98	4.1	4/27/13 17:30	0.740	2.83	4.03
4/27/13 14:50	0.770	2.92	4.12	4/27/13 17:35	0.740	2.83	4.08
4/27/13 14:55	0.800	2.92	4.27	4/27/13 17:40	0.710	2.76	3.98
4/27/13 15:00	0.750	2.86	4.02	4/27/13 17:45	0.680	2.77	3.82
4/27/13 15:05	0.730	2.96	3.92	4/27/13 17:50	0.710	2.77	3.99
4/27/13 15:10	0.780	2.91	4.05	4/27/13 17:55	0.730	2.83	4.1

time	flow rate	velocity	level	time	flow rate	velocity	level
4/27/13 18:00	0.730	2.89	4	4/27/13 20:45	0.700	2.73	4.02
4/27/13 18:05	0.740	2.8	4.15	4/27/13 20:50	0.710	2.75	4.08
4/27/13 18:10	0.750	2.83	4.19	4/27/13 20:55	0.700	2.73	3.99
4/27/13 18:15	0.750	2.8	4.21	4/27/13 21:00	0.670	2.69	3.86
4/27/13 18:20	0.770	2.86	4.18	4/27/13 21:05	0.650	2.67	3.85
4/27/13 18:25	0.750	2.77	4.21	4/27/13 21:10	0.670	2.75	3.98
4/27/13 18:30	0.710	2.8	4.02	4/27/13 21:15	0.680	2.73	3.99
4/27/13 18:35	0.770	2.85	4.27	4/27/13 21:20	0.680	2.72	3.97
4/27/13 18:40	0.720	2.82	3.99	4/27/13 21:25	0.650	2.72	3.87
4/27/13 18:45	0.700	2.76	3.97	4/27/13 21:30	0.640	2.7	3.83
4/27/13 18:50	0.730	2.85	4.1	4/27/13 21:35	0.690	2.72	4.09
4/27/13 18:55	0.710	2.77	4.03	4/27/13 21:40	0.690	2.7	4.12
4/27/13 19:00	0.740	2.78	4.2	4/27/13 21:45	0.700	2.72	4.19
4/27/13 19:05	0.720	2.79	4.02	4/27/13 21:50	0.660	2.71	3.96
4/27/13 19:10	0.700	2.78	4.02	4/27/13 21:55	0.670	2.69	3.97
4/27/13 19:15	0.730	2.76	4.17	4/27/13 22:00	0.680	2.71	4.05
4/27/13 19:20	0.690	2.71	3.97	4/27/13 22:05	0.670	2.7	3.95
4/27/13 19:25	0.690	2.81	3.92	4/27/13 22:10	0.680	2.64	4.01
4/27/13 19:30	0.720	2.77	4.07	4/27/13 22:15	0.660	2.63	4.01
4/27/13 19:35	0.690	2.74	4.02	4/27/13 22:20	0.680	2.69	4.12
4/27/13 19:40	0.670	2.78	3.83	4/27/13 22:25	0.700	2.75	4.17
4/27/13 19:45	0.680	2.85	3.89	4/27/13 22:30	0.690	2.67	4.09
4/27/13 19:50	0.670	2.71	3.84	4/27/13 22:35	0.660	2.64	4.02
4/27/13 19:55	0.700	2.71	4.13	4/27/13 22:40	0.660	2.64	4.05
4/27/13 20:00	0.720	2.86	4.07	4/27/13 22:45	0.680	2.67	4.12
4/27/13 20:05	0.690	2.75	3.91	4/27/13 22:50	0.650	2.63	4.03
4/27/13 20:10	0.690	2.74	4.01	4/27/13 22:55	0.650	2.66	3.93
4/27/13 20:15	0.700	2.77	4.04	4/27/13 23:00	0.670	2.69	4.15
4/27/13 20:20	0.730	2.78	4.15	4/27/13 23:05	0.650	2.64	4.02
4/27/13 20:25	0.670	2.72	3.84	4/27/13 23:10	0.660	2.56	4.11
4/27/13 20:30	0.710	2.74	4.13	4/27/13 23:15	0.640	2.66	3.9
4/27/13 20:35	0.640	2.8	3.69	4/27/13 23:20	0.690	2.62	4.17
4/27/13 20:40	0.710	2.75	4.1	4/27/13 23:25	0.650	2.65	3.94

time	flow rate	velocity	level	time	flow rate	velocity	level
4/27/13 23:30	0.660	2.64	4.09	5/2/13 2:15	0.510	3.38	4.04
4/27/13 23:35	0.650	2.64	4	5/2/13 2:20	1.200	3.81	4.34
4/27/13 23:40	0.640	2.68	3.9	5/2/13 2:25	1.220	3.84	4.44
4/27/13 23:45	0.630	2.63	3.95	5/2/13 2:30	1.200	3.61	4.49
4/27/13 23:50	0.630	2.6	3.86	5/2/13 2:35	0.980	3.18	4.28
4/27/13 23:55	0.630	2.59	3.87	5/2/13 2:40	0.830	2.93	4.22
5/2/13 0:00	0.250	1.52	3.62	5/2/13 2:45	0.750	2.97	4.06
5/2/13 0:05	0.240	1.52	3.46	5/2/13 2:50	0.810	2.8	4.32
5/2/13 0:10	0.250	1.4	3.65	5/2/13 2:55	0.650	2.57	3.99
5/2/13 0:15	0.250	1.47	3.52	5/2/13 3:00	0.590	2.46	3.95
5/2/13 0:20	0.250	1.52	3.62	5/2/13 3:05	0.520	2.29	3.92
5/2/13 0:25	0.290	1.6	3.71	5/2/13 3:10	0.490	2.18	3.89
5/2/13 0:30	0.270	1.54	3.64	5/2/13 3:15	0.520	2.29	4.02
5/2/13 0:35	0.280	1.62	3.72	5/2/13 3:20	0.600	2.7	4.12
5/2/13 0:40	0.280	1.57	3.6	5/2/13 3:25	0.890	3.23	4.29
5/2/13 0:45	0.260	1.53	3.51	5/2/13 3:30	0.930	3.28	4.06
5/2/13 0:50	0.260	1.49	3.6	5/2/13 3:35	1.000	3.29	4.42
5/2/13 0:55	0.270	1.57	3.73	5/2/13 3:40	0.940	3.14	4.37
5/2/13 1:00	0.260	1.53	3.6	5/2/13 3:45	0.940	3.15	4.42
5/2/13 1:05	0.260	1.53	3.64	5/2/13 3:50	0.960	3.36	4.21
5/2/13 1:10	0.390	2.48	4.01	5/2/13 3:55	0.960	3.2	4.28
5/2/13 1:15	0.740	2.85	3.84	5/2/13 4:00	0.860	3.11	3.99
5/2/13 1:20	0.670	2.54	4.03	5/2/13 4:05	0.920	3	4.47
5/2/13 1:25	0.520	2.29	3.76	5/2/13 4:10	0.990	3.42	4.52
5/2/13 1:30	0.480	2.08	3.9	5/2/13 4:15	1.140	3.46	4.59
5/2/13 1:35	0.420	1.93	3.85	5/2/13 4:20	0.930	3.24	4.01
5/2/13 1:40	0.350	1.79	3.66	5/2/13 4:25	0.880	2.99	4.34
5/2/13 1:45	0.330	1.75	3.77	5/2/13 4:30	0.780	2.8	4.21
5/2/13 1:50	0.310	1.69	3.62	5/2/13 4:35	0.690	2.71	4.01
5/2/13 1:55	0.310	1.62	3.79	5/2/13 4:40	0.670	2.61	4.07
5/2/13 2:00	0.300	1.64	3.65	5/2/13 4:45	0.670	2.59	4.22
5/2/13 2:05	0.310	1.65	3.72	5/2/13 4:50	0.610	2.55	3.86
5/2/13 2:10	0.290	1.67	3.63	5/2/13 4:55	0.620	2.5	4.01

time	flow rate	velocity	level	time	flow rate	velocity	level
5/2/13 5:00	0.610	2.5	4.03	5/2/13 7:45	0.480	2.16	3.91
5/2/13 5:05	0.590	2.56	3.9	5/2/13 7:50	0.470	2.16	3.87
5/2/13 5:10	0.590	2.46	3.97	5/2/13 7:55	0.460	2.1	3.87
5/2/13 5:15	0.580	2.42	3.99	5/2/13 8:00	0.460	2.11	3.79
5/2/13 5:20	0.580	2.44	4	5/2/13 8:05	0.470	2.13	3.88
5/2/13 5:25	0.550	2.38	3.88	5/2/13 8:10	0.460	2.13	3.8
5/2/13 5:30	0.540	2.35	3.9	5/2/13 8:15	0.450	2.13	3.84
5/2/13 5:35	0.530	2.35	3.8	5/2/13 8:20	0.460	2.12	3.83
5/2/13 5:40	0.530	2.4	3.79	5/2/13 8:25	0.470	2.19	3.85
5/2/13 5:45	0.520	2.33	3.73	5/2/13 8:30	0.440	2.13	3.64
5/2/13 5:50	0.530	2.31	3.86	5/2/13 8:35	0.470	2.2	3.92
5/2/13 5:55	0.540	2.36	3.9	5/2/13 8:40	0.480	2.11	3.92
5/2/13 6:00	0.530	2.28	3.87	5/2/13 8:45	0.430	2	3.83
5/2/2013 6:05	0.54	2.35	3.97	5/2/13 8:50	0.470	2.17	4.02
5/2/2013 6:10	0.55	2.36	3.99	5/2/13 8:55	0.440	2.04	3.86
5/2/2013 6:15	0.53	2.41	3.82	5/2/13 9:00	0.440	2.08	3.91
5/2/2013 6:20	0.55	2.38	3.92	5/2/13 9:05	0.460	2.13	3.83
5/2/2013 6:25	0.54	2.32	3.88	5/2/13 9:10	0.450	2.1	3.84
5/2/2013 6:30	0.53	2.35	3.88	5/2/13 9:15	0.430	2.03	3.82
5/2/13 6:35	0.520	2.37	3.86	5/2/13 9:20	0.410	2.05	3.76
5/2/13 6:40	0.550	2.38	4	5/2/13 9:25	0.430	2.03	3.86
5/2/13 6:45	0.530	2.3	3.89	5/2/13 9:30	0.410	1.96	3.75
5/2/13 6:50	0.500	2.28	3.8	5/2/13 9:35	0.460	2.16	3.85
5/2/13 6:55	0.540	2.28	4.11	5/2/13 9:40	0.440	2.11	3.78
5/2/13 7:00	0.510	2.25	4.01	5/2/13 9:45	0.430	2.05	3.66
5/2/13 7:05	0.5	2.25	3.82	5/2/13 9:50	0.460	2.06	3.98
5/2/13 7:10	0.48	2.19	3.85	5/2/13 9:55	0.410	2.01	3.71
5/2/13 7:15	0.49	2.18	3.78	5/2/13 10:00	0.420	1.99	3.84
5/2/13 7:20	0.47	2.16	3.75	5/2/13 10:05	0.440	2.05	3.82
5/2/13 7:25	0.46	2.18	3.78	5/2/13 10:10	0.420	2.04	3.75
5/2/13 7:30	0.49	2.18	3.93	5/2/13 10:15	0.440	2.02	3.82
5/2/13 7:35	0.48	2.15	3.82	5/2/13 10:20	0.450	1.99	4.01
5/2/13 7:40	0.51	2.26	3.98	5/2/13 10:25	0.400	1.91	3.79

time	flow rate	velocity	level	time	flow rate	velocity	level
5/2/13 10:30	0.410	2	3.77	5/2/13 13:15	0.970	3.34	4.38
5/2/13 10:35	0.400	1.97	3.8	5/2/13 13:20	0.970	3.38	4.24
5/2/13 10:40	0.410	2.05	3.8	5/2/13 13:25	1.000	3.39	4.35
5/2/13 10:45	0.410	2.05	3.77	5/2/13 13:30	0.950	3.18	4.3
5/2/13 10:50	0.420	2.03	3.82	5/2/13 13:35	0.900	3.04	4.29
5/2/13 10:55	0.530	2.29	3.93	5/2/13 13:40	0.830	2.94	4.36
5/2/13 11:00	0.460	2.15	3.77	5/2/13 13:45	0.780	2.75	4.29
5/2/13 11:05	0.420	2	3.71	5/2/13 13:50	0.710	2.75	4.01
5/2/13 11:10	0.420	2.01	3.82	5/2/13 13:55	0.700	2.68	4.1
5/2/13 11:15	0.420	2.04	3.72	5/2/13 14:00	0.740	2.66	4.32
5/2/13 11:20	0.420	2.04	3.82	5/2/13 14:05	0.660	2.61	3.99
5/2/13 11:25	0.410	1.96	3.82	5/2/13 14:10	0.680	2.63	4.17
5/2/13 11:30	0.430	2.01	3.84	5/2/13 14:15	0.660	2.68	4.08
5/2/13 11:35	0.430	1.98	3.88	5/2/13 14:20	0.590	2.59	3.75
5/2/13 11:40	0.410	2	3.81	5/2/13 14:25	0.630	2.55	4.02
5/2/13 11:45	0.420	2.06	3.66	5/2/13 14:30	0.630	2.66	4.01
5/2/13 11:50	0.410	2.05	3.72	5/2/13 14:35	0.750	3.02	4.1
5/2/13 11:55	0.410	2	3.77	5/2/13 14:40	0.960	3.32	4.32
5/2/13 12:00	0.420	2.07	3.8	5/2/13 14:45	1.000	3.23	4.35
5/2/13 12:05	0.410	2.05	3.72	5/2/13 14:50	0.920	3.12	4.24
5/2/13 12:10	0.440	2.12	3.98	5/2/13 14:55	0.890	3.05	4.33
5/2/13 12:15	0.440	2.15	3.87	5/2/13 15:00	0.850	3.03	4.22
5/2/13 12:20	0.450	2.08	3.91	5/2/13 15:05	0.820	3.04	4.11
5/2/13 12:25	0.410	2.01	3.68	5/2/13 15:10	0.780	2.99	4.09
5/2/13 12:30	0.460	2.25	3.77	5/2/13 15:15	0.800	3.02	4.14
5/2/13 12:35	0.510	2.32	3.85	5/2/13 15:20	0.810	3.11	4.06
5/2/13 12:40	0.530	2.48	3.66	5/2/13 15:25	0.830	3.12	4
5/2/13 12:45	0.760	3.06	4.17	5/2/13 15:30	0.890	3.1	4.27
5/2/13 12:50	0.880	3.12	4.34	5/2/13 15:35	0.900	3.15	4.24
5/2/13 12:55	1.020	3.33	4.53	5/2/13 15:40	0.920	3.17	4.31
5/2/13 13:00	0.920	3.31	3.96	5/2/13 15:45	0.920	3.19	4.29
5/2/13 13:05	0.980	3.28	4.4	5/2/13 15:50	0.910	3.13	4.29
5/2/13 13:10	0.920	3.19	4.27	5/2/13 15:55	0.880	3.09	4.23

time	flow rate	velocity	level	time	flow rate	velocity	level
5/2/13 16:00	0.890	3.09	4.36	5/2/13 18:45	0.890	3.12	4.21
5/2/13 16:05	0.900	3.05	4.42	5/2/13 18:50	0.910	3.15	4.38
5/2/13 16:10	0.860	3.04	4.19	5/2/13 18:55	0.880	3.12	4.21
5/2/13 16:15	0.830	3.01	4.1	5/2/13 19:00	0.900	3.16	4.31
5/2/13 16:20	0.840	2.96	4.21	5/2/13 19:05	0.890	3.16	4.26
5/2/13 16:25	0.870	2.94	4.46	5/2/13 19:10	0.880	3.08	4.25
5/2/13 16:30	0.890	3.07	4.43	5/2/13 19:15	0.890	3.05	4.32
5/2/13 16:35	0.810	3.06	3.99	5/2/13 19:20	0.900	3.07	4.44
5/2/13 16:40	0.910	3.18	4.38	5/2/13 19:25	0.740	3.06	3.62
5/2/13 16:45	0.930	3.15	4.33	5/2/13 19:30	0.900	3.11	4.32
5/2/13 16:50	0.990	3.28	4.49	5/2/13 19:35	0.890	3.12	4.28
5/2/13 16:55	0.900	3.26	4.07	5/2/13 19:40	0.820	3.08	3.99
5/2/13 17:00	0.960	3.33	4.29	5/2/13 19:45	0.840	3.03	4.2
5/2/13 17:05	0.950	3.31	4.16	5/2/13 19:50	0.830	3	4.12
5/2/13 17:10	0.940	3.27	4.24	5/2/13 19:55	0.840	3.07	4.19
5/2/13 17:15	1.000	3.23	4.51	5/2/13 20:00	0.800	3.02	4.04
5/2/13 17:20	0.920	3.13	4.26	5/2/13 20:05	0.840	3.03	4.28
5/2/13 17:25	0.930	3.19	4.25	5/2/13 20:10	0.810	3.03	4.14
5/2/13 17:30	0.940	3.16	4.48	5/2/13 20:15	0.870	3.09	4.31
5/2/13 17:35	0.900	3.07	4.33	5/2/13 20:20	0.910	3.13	4.38
5/2/13 17:40	0.910	3.07	4.41	5/2/13 20:25	0.850	3.14	4.03
5/2/13 17:45	0.880	3.07	4.31	5/2/13 20:30	0.910	3.27	4.16
5/2/13 17:50	0.890	3.05	4.39	5/2/13 20:35	0.970	3.25	4.39
5/2/13 17:55	0.860	3.14	4.24	5/2/13 20:40	0.940	3.29	4.18
5/2/13 18:00	0.920	2.99	4.58	5/2/13 20:45	0.910	3.26	4.07
5/2/13 18:05	0.840	3.08	4.17	5/2/13 20:50	0.970	3.24	4.33
5/2/13 18:10	0.850	3.05	4.23	5/2/13 20:55	0.930	3.23	4.19
5/2/13 18:15	0.850	3.03	4.17	5/2/13 21:00	0.960	3.2	4.3
5/2/13 18:20	0.850	3.04	4.14	5/2/13 21:05	0.970	3.28	4.33
5/2/13 18:25	0.900	3.12	4.29	5/2/13 21:10	0.930	3.2	4.15
5/2/13 18:30	0.880	3.09	4.24	5/2/13 21:15	0.970	3.29	4.36
5/2/13 18:35	0.860	3.1	4.18	5/2/13 21:20	0.960	3.21	4.35
5/2/13 18:40	0.900	3.17	4.34	5/2/13 21:25	0.960	3.28	4.33

time	flow rate	velocity	level	time	flow rate	velocity	level
5/2/13 21:30	0.990	3.31	4.45	5/3/13 0:15	1.050	3.25	4.73
5/2/13 21:35	0.910	3.29	4.08	5/3/13 0:20	0.870	3.25	4.01
5/2/13 21:40	0.970	3.39	4.26	5/3/13 0:25	0.980	3.27	4.4
5/2/13 21:45	0.980	3.26	4.4	5/3/13 0:30	0.950	3.15	4.39
5/2/13 21:50	0.950	3.24	4.28	5/3/13 0:35	0.980	3.16	4.56
5/2/13 21:55	0.920	3.25	4.14	5/3/13 0:40	0.950	3.23	4.43
5/2/13 22:00	0.950	3.26	4.33	5/3/13 0:45	0.910	3.1	4.34
5/2/13 22:05	0.960	3.22	4.44	5/3/13 0:50	0.940	3.11	4.51
5/2/13 22:10	0.940	3.16	4.31	5/3/13 0:55	0.980	3.1	4.59
5/2/13 22:15	0.930	3.21	4.34	5/3/13 1:00	0.950	3.16	4.56
5/2/13 22:20	0.930	3.14	4.3	5/3/13 1:05	0.920	3.18	4.37
5/2/13 22:25	0.950	3.16	4.4	5/3/13 1:10	0.910	3.13	4.27
5/2/13 22:30	0.950	3.14	4.42	5/3/13 1:15	0.940	3.18	4.38
5/2/13 22:35	0.940	3.09	4.48	5/3/13 1:20	0.910	3.18	4.15
5/2/13 22:40	0.910	3.14	4.34	5/3/13 1:25	0.910	3.16	4.24
5/2/13 22:45	0.930	3.22	4.36	5/3/13 1:30	0.950	3.23	4.37
5/2/13 22:50	0.960	3.21	4.42	5/3/13 1:35	0.930	3.17	4.36
5/2/13 22:55	0.940	3.18	4.38	5/3/13 1:40	0.950	3.11	4.4
5/2/13 23:00	0.920	3.18	4.29	5/3/13 1:45	0.940	3.2	4.27
5/2/13 23:05	0.930	3.25	4.29	5/3/13 1:50	0.940	3.2	4.38
5/2/13 23:10	0.960	3.17	4.43	5/3/13 1:55	0.900	3.11	4.26
5/2/13 23:15	0.950	3.23	4.39	5/3/13 2:00	0.950	3.19	4.45
5/2/13 23:20	0.980	3.15	4.61	5/3/13 2:05	0.950	3.14	4.48
5/2/13 23:25	0.950	3.11	4.46	5/3/13 2:10	0.930	3.15	4.38
5/2/13 23:30	0.940	3.06	4.5	5/3/13 2:15	0.920	3.14	4.46
5/2/13 23:35	0.880	3.11	4.25	5/3/13 2:20	0.900	3.09	4.33
5/2/13 23:40	0.930	3.09	4.44	5/3/13 2:25	0.970	3.09	4.68
5/2/13 23:45	0.900	3.09	4.38	5/3/13 2:30	0.920	3.11	4.43
5/2/13 23:50	0.920	3.14	4.5	5/3/13 2:35	0.870	3.09	4.2
5/2/13 23:55	0.880	3.08	4.34	5/3/13 2:40	0.890	3.1	4.31
5/3/13 0:00	0.900	3.01	4.34	5/3/13 2:45	0.910	3.06	4.38
5/3/13 0:05	0.900	3.12	4.34	5/3/13 2:50	0.930	3.09	4.54
5/3/13 0:10	0.970	3.15	4.51	5/3/13 2:55	0.920	3.04	4.51

time	flow rate	velocity	level	time	flow rate	velocity	level
5/3/13 3:00	0.890	3.11	4.33	5/3/13 5:45	0.810	2.98	4.1
5/3/13 3:05	0.870	3.01	4.32	5/3/13 5:50	0.880	3.09	4.4
5/3/13 3:10	0.900	3.08	4.39	5/3/13 5:55	0.830	3.07	4.12
5/3/13 3:15	0.860	3.01	4.31	5/3/13 6:00	0.840	3.02	4.25
5/3/13 3:20	0.880	3.08	4.39	5/3/13 6:05	0.830	3.09	4.18
5/3/13 3:25	0.900	3.09	4.4	5/3/13 6:10	0.850	2.97	4.33
5/3/13 3:30	0.880	3.1	4.32	5/3/13 6:15	0.850	2.99	4.33
5/3/13 3:35	0.860	3.11	4.29	5/3/13 6:20	0.840	2.96	4.32
5/3/13 3:40	0.890	3.02	4.46	5/3/13 6:25	0.790	2.97	4.05
5/3/13 3:45	0.910	3.05	4.51	5/3/13 6:30	0.830	3	4.2
5/3/13 3:50	0.870	3.09	4.35	5/3/13 6:35	0.870	2.98	4.43
5/3/13 3:55	0.910	3	4.57	5/3/13 6:40	0.840	2.97	4.26
5/3/13 4:00	0.880	3	4.42	5/3/13 6:45	0.860	2.94	4.42
5/3/13 4:05	0.890	3	4.48	5/3/13 6:50	0.880	2.97	4.5
5/3/13 4:10	0.880	3	4.49	5/3/13 6:55	0.800	2.92	4.2
5/3/13 4:15	0.850	2.93	4.34	5/3/13 7:00	0.830	2.98	4.24
5/3/13 4:20	0.850	3.09	4.26	5/3/13 7:05	0.870	3.04	4.38
5/3/13 4:25	0.850	3.03	4.19	5/3/13 7:10	0.840	2.98	4.3
5/3/13 4:30	0.900	3.04	4.56	5/3/13 7:15	0.810	3.03	4.15
5/3/13 4:35	0.820	2.98	4.19	5/3/13 7:20	0.800	3.02	4.06
5/3/13 4:40	0.870	3.06	4.31	5/3/13 7:25	0.830	3	4.26
5/3/13 4:45	0.880	3	4.38	5/3/13 7:30	0.800	2.96	4.13
5/3/13 4:50	0.830	3.07	4.14	5/3/13 7:35	0.820	3.03	4.19
5/3/13 4:55	0.900	3.08	4.43	5/3/13 7:40	0.820	2.95	4.27
5/3/13 5:00	0.880	3.03	4.39	5/3/13 7:45	0.830	3.02	4.16
5/3/13 5:05	0.840	3.03	4.19	5/3/13 7:50	0.840	3.02	4.3
5/3/13 5:10	0.870	3	4.38	5/3/13 7:55	0.840	3.03	4.25
5/3/13 5:15	0.850	2.99	4.36	5/3/13 8:00	0.840	3.01	4.28
5/3/13 5:20	0.880	3.01	4.44	5/3/13 8:05	0.850	2.99	4.28
5/3/13 5:25	0.850	3.03	4.25	5/3/13 8:10	0.890	2.99	4.49
5/3/13 5:30	0.870	3.04	4.3	5/3/13 8:15	0.850	3.05	4.26
5/3/13 5:35	0.890	3	4.42	5/3/13 8:20	0.850	3	4.37
5/3/13 5:40	0.860	3.05	4.33	5/3/13 8:25	0.840	3.03	4.15

time	flow rate	velocity	level	time	flow rate	velocity	level
5/3/13 8:30	0.820	3.03	4.18	5/3/13 11:15	0.880	2.98	4.42
5/3/13 8:35	0.810	2.98	4.12	5/3/13 11:20	0.840	3.03	4.22
5/3/13 8:40	0.860	3.02	4.35	5/3/13 11:25	0.870	3.12	4.31
5/3/13 8:45	0.820	3.03	4.17	5/3/13 11:30	0.870	3.03	4.37
5/3/13 8:50	0.830	2.97	4.26	5/3/13 11:35	0.760	2.98	3.85
5/3/13 8:55	0.870	3.07	4.42	5/3/13 11:40	0.830	3.03	4.23
5/3/13 9:00	0.830	3	4.2	5/3/13 11:45	0.860	3.01	4.36
5/3/13 9:05	0.840	3.02	4.22	5/3/13 11:50	0.830	2.97	4.24
5/3/13 9:10	0.810	3.1	4.02	5/3/13 11:55	0.830	2.99	4.18
5/3/13 9:15	0.810	3.04	4.1	5/3/13 12:00	0.870	2.98	4.41
5/3/13 9:20	0.840	2.99	4.28	5/3/13 12:05	0.840	3	4.25
5/3/13 9:25	0.860	3.01	4.24	5/3/13 12:10	0.850	3	4.31
5/3/13 9:30	0.850	3.11	4.22	5/3/13 12:15	0.810	3.02	4.07
5/3/2013 9:35	0.85	3.1	4.24	5/3/13 12:20	0.850	2.99	4.32
5/3/2013 9:40	0.81	3.03	4.12	5/3/13 12:25	0.840	3	4.25
5/3/2013 9:45	0.88	3.01	4.36	5/3/13 12:30	0.850	3.02	4.35
5/3/2013 9:50	0.85	3.01	4.3	5/3/13 12:35	0.850	2.94	4.35
5/3/2013 9:55	0.87	3	4.38	5/3/13 12:40	0.850	2.99	4.28
5/3/2013 10:00	0.9	3.03	4.4	5/3/13 12:45	0.800	2.9	4.15
5/3/13 10:05	0.870	3.06	4.29	5/3/13 12:50	0.790	2.95	4.11
5/3/13 10:10	0.860	2.97	4.32	5/3/13 12:55	0.870	3.02	4.4
5/3/13 10:15	0.870	3.03	4.37	5/3/13 13:00	0.860	2.99	4.35
5/3/13 10:20	0.870	3	4.32	5/3/13 13:05	0.840	3	4.35
5/3/13 10:25	0.920	3.06	4.58	5/3/13 13:10	0.840	2.98	4.23
5/3/13 10:30	0.890	3.04	4.45	5/3/13 13:15	0.800	2.93	4.2
5/3/13 10:35	0.85	2.97	4.36	5/3/13 13:20	0.860	2.98	4.39
5/3/13 10:40	0.8	3	4.09	5/3/13 13:25	0.870	2.94	4.51
5/3/13 10:45	0.88	2.99	4.47	5/3/13 13:30	0.820	3.03	4.24
5/3/13 10:50	0.84	3.02	4.25	5/3/13 13:35	0.830	2.96	4.32
5/3/13 10:55	0.82	2.94	4.17	5/3/13 13:40	0.860	3	4.47
5/3/13 11:00	0.83	3.05	4.17	5/3/13 13:45	0.820	2.93	4.24
5/3/13 11:05	0.88	3.01	4.39	5/3/13 13:50	0.790	2.93	4.13
5/3/13 11:10	0.85	2.99	4.26	5/3/13 13:55	0.780	2.92	4.09

time	flow rate	velocity	level	time	flow rate	velocity	level
5/3/13 14:00	0.820	3.03	4.24	5/3/13 16:45	0.720	2.9	3.83
5/3/13 14:05	0.800	2.91	4.29	5/3/13 16:50	0.730	2.91	3.92
5/3/13 14:10	0.800	2.9	4.19	5/3/13 16:55	0.790	2.87	4.18
5/3/13 14:15	0.750	2.83	4.04	5/3/13 17:00	0.810	2.93	4.22
5/3/13 14:20	0.820	2.91	4.39	5/3/13 17:05	0.740	2.96	3.98
5/3/13 14:25	0.750	2.88	4.07	5/3/13 17:10	0.810	2.95	4.25
5/3/13 14:30	0.790	2.87	4.27	5/3/13 17:15	0.780	2.94	4.07
5/3/13 14:35	0.780	2.92	4.19	5/3/13 17:20	0.790	2.95	4.06
5/3/13 14:40	0.810	2.95	4.27	5/3/13 17:25	0.780	2.94	4.14
5/3/13 14:45	0.810	2.92	4.24	5/3/13 17:30	0.810	3.01	4.19
5/3/13 14:50	0.770	2.88	4.16	5/3/13 17:35	0.770	2.94	4.04
5/3/13 14:55	0.750	2.87	3.95	5/3/13 17:40	0.770	2.81	4.18
5/3/13 15:00	0.720	2.87	3.86	5/3/13 17:45	0.810	2.94	4.3
5/3/13 15:05	0.790	2.9	4.22	5/3/13 17:50	0.790	2.86	4.23
5/3/13 15:10	0.790	2.91	4.17	5/3/13 17:55	0.730	2.84	3.96
5/3/13 15:15	0.810	2.95	4.27	5/3/13 18:00	0.780	2.89	4.19
5/3/13 15:20	0.800	2.86	4.29	5/3/13 18:05	0.780	2.97	4.14
5/3/13 15:25	0.790	2.86	4.25	5/3/13 18:10	0.800	2.87	4.26
5/3/13 15:30	0.740	2.93	4.04	5/3/13 18:15	0.800	2.85	4.28
5/3/13 15:35	0.770	2.92	4.11	5/3/13 18:20	0.780	2.89	4.16
5/3/13 15:40	0.800	2.88	4.35	5/3/13 18:25	0.730	2.82	4.02
5/3/13 15:45	0.760	2.82	4.07	5/3/13 18:30	0.760	2.88	4.07
5/3/13 15:50	0.810	2.91	4.22	5/3/13 18:35	0.770	2.89	4.15
5/3/13 15:55	0.780	2.89	4.12	5/3/13 18:40	0.780	2.78	4.29
5/3/13 16:00	0.810	2.81	4.38	5/3/13 18:45	0.770	2.85	4.19
5/3/13 16:05	0.750	2.88	4.04	5/3/13 18:50	0.800	2.89	4.35
5/3/13 16:10	0.790	2.87	4.26	5/3/13 18:55	0.720	2.79	4.09
5/3/13 16:15	0.730	2.83	4.03	5/3/13 19:00	0.760	2.83	4.22
5/3/13 16:20	0.800	2.91	4.35	5/3/13 19:05	0.720	2.81	4
5/3/13 16:25	0.790	2.91	4.26	5/3/13 19:10	0.740	2.89	4.1
5/3/13 16:30	0.770	2.89	4.11	5/3/13 19:15	0.720	2.8	3.95
5/3/13 16:35	0.780	2.88	4.26	5/3/13 19:20	0.760	2.86	4.16
5/3/13 16:40	0.790	2.87	4.26	5/3/13 19:25	0.790	2.89	4.24

time	flow rate	velocity	level	time	flow rate	velocity	level
5/3/13 19:30	0.770	2.84	4.24	5/3/13 22:15	0.800	2.89	4.24
5/3/13 19:35	0.750	2.85	4.19	5/3/13 22:20	0.760	2.89	4.05
5/3/13 19:40	0.770	2.85	4.22	5/3/13 22:25	0.810	2.94	4.24
5/3/13 19:45	0.740	2.85	4.02	5/3/13 22:30	0.800	2.96	4.2
5/3/13 19:50	0.740	2.88	3.96	5/3/13 22:35	0.810	2.96	4.23
5/3/13 19:55	0.800	2.91	4.33	5/3/13 22:40	0.830	2.98	4.24
5/3/13 20:00	0.760	2.9	4.13	5/3/13 22:45	0.830	2.97	4.25
5/3/13 20:05	0.770	2.83	4.12	5/3/13 22:50	0.830	2.99	4.24
5/3/13 20:10	0.760	2.85	4.07	5/3/13 22:55	0.820	2.95	4.29
5/3/13 20:15	0.740	2.85	4.07	5/3/13 23:00	0.830	2.92	4.32
5/3/13 20:20	0.780	2.94	4.22	5/3/13 23:05	0.790	2.91	4.16
5/3/13 20:25	0.740	2.83	4.03	5/3/13 23:10	0.810	2.87	4.27
5/3/13 20:30	0.760	2.92	4.07	5/3/13 23:15	0.820	2.98	4.32
5/3/13 20:35	0.770	2.9	4.09	5/3/13 23:20	0.820	2.94	4.25
5/3/13 20:40	0.780	2.81	4.18	5/3/13 23:25	0.800	2.88	4.28
5/3/13 20:45	0.760	2.88	4.15	5/3/13 23:30	0.790	2.87	4.24
5/3/13 20:50	0.780	2.94	4.15	5/3/13 23:35	0.790	2.9	4.23
5/3/13 20:55	0.860	2.95	4.43	5/3/13 23:40	0.830	2.9	4.42
5/3/13 21:00	0.850	3.05	4.35	5/3/13 23:45	0.800	2.91	4.3
5/3/13 21:05	0.840	3.05	4.27	5/3/13 23:50	0.790	2.94	4.16
5/3/13 21:10	0.830	3	4.25	5/3/13 23:55	0.810	2.89	4.31
5/3/13 21:15	0.830	2.99	4.17	5/27/13 0:00	0.170	1.25	3.2
5/3/13 21:20	0.830	2.97	4.16	5/27/13 0:05	0.180	1.27	3.24
5/3/13 21:25	0.810	3	4.15	5/27/13 0:10	0.180	1.29	3.16
5/3/13 21:30	0.870	3.02	4.34	5/27/13 0:15	0.170	1.25	3.15
5/3/13 21:35	0.870	3.04	4.27	5/27/13 0:20	0.170	1.24	3.11
5/3/13 21:40	0.870	3.04	4.32	5/27/13 0:25	0.170	1.26	3.19
5/3/13 21:45	0.870	2.99	4.36	5/27/13 0:30	0.180	1.3	3.2
5/3/13 21:50	0.840	3	4.29	5/27/13 0:35	0.200	1.35	3.25
5/3/13 21:55	0.810	3.01	4.18	5/27/13 0:40	0.160	1.24	3.09
5/3/13 22:00	0.800	2.88	4.12	5/27/13 0:45	0.180	1.3	3.14
5/3/13 22:05	0.810	3.01	4.23	5/27/13 0:50	0.180	1.29	3.29
5/3/13 22:10	0.800	2.9	4.25	5/27/13 0:55	0.200	1.33	3.35

time	flow rate	velocity	level	time	flow rate	velocity	level
5/27/13 1:00	0.170	1.24	3.25	5/27/13 3:45	0.180	1.29	3.13
5/27/13 1:05	0.160	1.21	3.17	5/27/13 3:50	0.170	1.29	3.06
5/27/13 1:10	0.170	1.25	3.24	5/27/13 3:55	0.170	1.28	2.99
5/27/13 1:15	0.160	1.21	3.11	5/27/13 4:00	0.180	1.29	3.2
5/27/13 1:20	0.160	1.22	3	5/27/13 4:05	0.170	1.27	3.09
5/27/13 1:25	0.170	1.25	3.15	5/27/13 4:10	0.170	1.3	3.04
5/27/13 1:30	0.170	1.26	3.12	5/27/13 4:15	0.170	1.26	3.16
5/27/13 1:35	0.180	1.28	3.14	5/27/13 4:20	0.170	1.28	3.12
5/27/13 1:40	0.170	1.27	3.06	5/27/13 4:25	0.180	1.3	3.19
5/27/13 1:45	0.180	1.29	3.2	5/27/13 4:30	0.180	1.28	3.18
5/27/13 1:50	0.170	1.26	3.2	5/27/13 4:35	0.170	1.26	3.16
5/27/13 1:55	0.160	1.21	3.13	5/27/13 4:40	0.170	1.25	3.17
5/27/13 2:00	0.170	1.28	3.13	5/27/13 4:45	0.180	1.28	3.2
5/27/13 2:05	0.170	1.26	3.15	5/27/13 4:50	0.170	1.25	3.08
5/27/13 2:10	0.190	1.32	3.21	5/27/13 4:55	0.180	1.32	3.15
5/27/13 2:15	0.190	1.34	3.19	5/27/13 5:00	0.190	1.35	3.22
5/27/13 2:20	0.170	1.28	3.11	5/27/13 5:05	0.200	1.36	3.22
5/27/13 2:25	0.190	1.31	3.21	5/27/13 5:10	0.180	1.31	3.14
5/27/13 2:30	0.190	1.31	3.22	5/27/13 5:15	0.170	1.26	3.13
5/27/13 2:35	0.170	1.28	3.09	5/27/13 5:20	0.180	1.31	3.14
5/27/13 2:40	0.190	1.31	3.31	5/27/13 5:25	0.190	1.33	3.17
5/27/13 2:45	0.190	1.32	3.2	5/27/13 5:30	0.210	1.43	3.26
5/27/13 2:50	0.180	1.28	3.21	5/27/13 5:35	0.190	1.37	3.15
5/27/13 2:55	0.160	1.22	3.09	5/27/13 5:40	0.190	1.37	3.12
5/27/13 3:00	0.170	1.24	3.09	5/27/13 5:45	0.190	1.31	3.26
5/27/13 3:05	0.170	1.25	3.09	5/27/13 5:50	0.200	1.38	3.16
5/27/13 3:10	0.180	1.27	3.2	5/27/13 5:55	0.190	1.34	3.21
5/27/13 3:15	0.170	1.27	3.19	5/27/13 6:00	0.190	1.33	3.28
5/27/13 3:20	0.160	1.25	3	5/27/13 6:05	0.190	1.33	3.26
5/27/13 3:25	0.170	1.25	3.18	5/27/13 6:10	0.200	1.37	3.25
5/27/13 3:30	0.180	1.28	3.13	5/27/13 6:15	0.210	1.41	3.33
5/27/13 3:35	0.170	1.24	3.18	5/27/13 6:20	0.190	1.31	3.24
5/27/13 3:40	0.170	1.27	3.09	5/27/13 6:25	0.210	1.38	3.32

time	flow rate	velocity	level	time	flow rate	velocity	level
5/27/13 6:30	0.190	1.37	3.1	5/27/13 9:15	5.890	7.1	8.46
5/27/13 6:35	0.190	1.36	3.15	5/27/13 9:20	8.610	8.34	9.83
5/27/13 6:40	0.190	1.34	3.17	5/27/13 9:25	6.330	6.99	9.31
5/27/13 6:45	0.190	1.32	3.21	5/27/13 9:30	4.180	6.25	7.24
5/27/13 6:50	0.190	1.34	3.21	5/27/13 9:35	7.680	8.01	9.29
5/27/13 6:55	0.200	1.38	3.23	5/27/13 9:40	23.690	17.52	9.65
5/27/13 7:00	0.200	1.35	3.28	5/27/13 9:45	14.290	12.8	8.91
5/27/13 7:05	0.200	1.39	3.15	5/27/13 9:50	9.670	9.07	9.8
5/27/13 7:10	0.200	1.37	3.28	5/27/13 9:55	11.320	10.45	9.37
5/27/13 7:15	0.210	1.41	3.23	5/27/13 10:00	13.210	12.39	8.62
5/27/13 7:20	0.220	1.43	3.36	5/27/13 10:05	11.290	9.97	10
5/27/13 7:25	0.200	1.4	3.12	5/27/13 10:10	9.150	8.33	10.46
5/27/13 7:30	0.230	1.48	3.39	5/27/13 10:15	6.990	7.38	9.51
5/27/13 7:35	1.120	3.83	3.95	5/27/13 10:20	6.450	7.19	9.12
5/27/13 7:40	0.960	3.34	4.14	5/27/13 10:25	5.890	6.82	8.97
5/27/13 7:45	0.830	3.09	4	5/27/13 10:30	5.970	6.9	8.95
5/27/13 7:50	0.840	3.01	4.24	5/27/13 10:35	6.080	6.83	9.25
5/27/13 7:55	0.730	2.78	4.15	5/27/13 10:40	5.870	6.99	8.64
5/27/13 8:00	0.650	2.68	3.87	5/27/13 10:45	5.050	6.75	7.82
5/27/13 8:05	0.670	2.75	3.85	5/27/13 10:50	5.360	6.62	8.53
5/27/13 8:10	1.100	3.7	4.09	5/27/13 10:55	4.660	6.41	7.76
5/27/13 8:15	1.010	3.45	4.18	5/27/13 11:00	3.700	5.95	6.88
5/27/13 8:20	1.640	4.65	4.38	5/27/13 11:05	4.360	6	8
5/27/13 8:25	4.070	6.48	6.69	5/27/13 11:10	4.400	6.32	7.5
5/27/13 8:30	3.660	5.75	7.14	5/27/13 11:15	4.180	6.08	7.54
5/27/13 8:35	3.150	5.79	6.09	5/27/13 11:20	3.510	5.9	6.6
5/27/13 8:40	3.580	6.21	6.25	5/27/13 11:25	3.930	5.95	7.3
5/27/13 8:45	7.700	8.87	8.06	5/27/13 11:30	3.490	5.85	6.64
5/27/13 8:50	11.370	11.1	8.65	5/27/13 11:35	3.290	5.51	6.84
5/27/13 8:55	8.740	9.19	8.69	5/27/13 11:40	3.650	5.89	6.88
5/27/13 9:00	6.340	7.33	8.71	5/27/13 11:45	3.580	5.74	7.01
5/27/13 9:05	8.920	8.63	9.7	5/27/13 11:50	3.280	5.85	6.24
5/27/13 9:10	7.050	7.54	9.3	5/27/13 11:55	3.160	5.83	6.05

time	flow rate	velocity	level	time	flow rate	velocity	level
5/27/2013 12:00	3.09	5.77	6	5/27/13 14:45	1.970	4.82	4.96
5/27/13 12:05	2.860	5.52	5.93	5/27/13 14:50	1.870	4.77	4.8
5/27/13 12:10	2.620	5.41	5.6	5/27/13 14:55	1.700	4.57	4.66
5/27/13 12:15	2.920	5.57	5.96	5/27/13 15:00	1.680	4.9	4.13
5/27/13 12:20	2.650	5.3	5.83	5/27/13 15:05	1.760	4.72	4.58
5/27/13 12:25	2.630	5.24	5.88	5/27/13 15:10	1.580	4.63	4.23
5/27/13 12:30	2.010	4.97	4.84	5/27/13 15:15	1.700	4.74	4.4
5/27/13 12:35	2.440	5.17	5.57	5/27/13 15:20	1.800	4.68	4.75
5/27/13 12:40	2.430	5.08	5.69	5/27/13 15:25	1.660	4.72	4.34
5/27/13 12:45	2.420	5.18	5.49	5/27/13 15:30	1.640	4.67	4.34
5/27/13 12:50	2.640	5.43	5.6	5/27/13 15:35	1.580	4.62	4.25
5/27/13 12:55	2.350	5.1	5.46	5/27/13 15:40	1.750	4.69	4.61
5/27/13 13:00	2.170	4.88	5.37	5/27/13 15:45	1.650	4.69	4.33
5/27/2013 13:05	2.39	5.05	5.64	5/27/13 15:50	1.670	4.49	4.69
5/27/2013 13:10	1.91	4.84	4.79	5/27/13 15:55	1.470	4.5	4.1
5/27/2013 13:15	2.28	5.32	4.98	5/27/13 16:00	1.490	4.56	4.08
5/27/2013 13:20	2.28	5.14	5.24	5/27/13 16:05	1.640	4.59	4.45
5/27/2013 13:25	2.12	5.15	4.85	5/27/13 16:10	1.650	4.48	4.65
5/27/2013 13:30	2.21	4.92	5.43	5/27/13 16:15	1.570	4.45	4.46
5/27/13 13:35	2.160	5.13	4.98	5/27/13 16:20	1.620	4.53	4.49
5/27/13 13:40	2.260	5.02	5.38	5/27/13 16:25	1.520	4.4	4.38
5/27/13 13:45	2.080	4.89	5.14	5/27/13 16:30	1.660	4.52	4.61
5/27/13 13:50	2.120	5	5.09	5/27/13 16:35	1.500	4.3	4.47
5/27/13 13:55	1.740	4.8	4.42	5/27/13 16:40	1.610	4.5	4.51
5/27/13 14:00	2.020	4.87	5.02	5/27/13 16:45	1.450	4.44	4.13
5/27/13 14:05	2	4.9	4.92	5/27/13 16:50	1.530	4.31	4.56
5/27/13 14:10	2.07	5.17	4.73	5/27/13 16:55	1.520	4.42	4.36
5/27/13 14:15	1.96	4.94	4.78	5/27/13 17:00	1.440	4.38	4.17
5/27/13 14:20	1.99	5.04	4.71	5/27/13 17:05	1.290	4.21	3.97
5/27/13 14:25	1.8	4.78	4.61	5/27/13 17:10	1.340	4.17	4.18
5/27/13 14:30	1.74	4.73	4.53	5/27/13 17:15	1.380	4.16	4.32
5/27/13 14:35	1.79	4.79	4.56	5/27/13 17:20	1.560	4.28	4.69
5/27/13 14:40	1.89	4.81	4.78	5/27/13 17:25	1.410	4.26	4.27

time	flow rate	velocity	level	time	flow rate	velocity	level
5/27/13 17:30	1.440	4.23	4.38	5/27/13 20:15	1.280	3.82	4.53
5/27/13 17:35	1.480	4.14	4.67	5/27/13 20:20	1.310	3.88	4.54
5/27/13 17:40	1.380	4.09	4.43	5/27/13 20:25	1.170	3.82	4.16
5/27/13 17:45	1.320	4.04	4.33	5/27/13 20:30	1.150	3.84	4.06
5/27/13 17:50	1.510	4.19	4.69	5/27/13 20:35	1.260	3.81	4.47
5/27/13 17:55	1.420	4.15	4.46	5/27/13 20:40	1.190	3.83	4.19
5/27/13 18:00	1.240	4.1	3.97	5/27/13 20:45	1.140	3.84	4.04
5/27/13 18:05	1.390	4.09	4.45	5/27/13 20:50	1.170	3.74	4.28
5/27/13 18:10	1.350	4.09	4.36	5/27/13 20:55	1.280	3.88	4.43
5/27/13 18:15	1.360	4.09	4.37	5/27/13 21:00	1.140	3.8	4.07
5/27/13 18:20	1.420	4.08	4.58	5/27/13 21:05	1.140	3.83	4.04
5/27/13 18:25	1.250	3.99	4.17	5/27/13 21:10	1.170	3.82	4.15
5/27/13 18:30	1.340	4.05	4.36	5/27/13 21:15	1.110	3.7	4.15
5/27/13 18:35	1.330	4.08	4.28	5/27/13 21:20	1.210	3.86	4.25
5/27/13 18:40	1.330	4.06	4.32	5/27/13 21:25	1.200	3.8	4.28
5/27/13 18:45	1.280	4.08	4.11	5/27/13 21:30	1.170	3.78	4.21
5/27/13 18:50	1.300	4.05	4.22	5/27/13 21:35	1.160	3.73	4.25
5/27/13 18:55	1.330	4.07	4.3	5/27/13 21:40	1.110	3.67	4.17
5/27/13 19:00	1.390	4.06	4.52	5/27/13 21:45	1.160	3.63	4.43
5/27/13 19:05	1.290	4	4.27	5/27/13 21:50	1.140	3.76	4.16
5/27/13 19:10	1.160	3.99	3.85	5/27/13 21:55	1.100	3.73	4.06
5/27/13 19:15	1.200	3.89	4.16	5/27/13 22:00	1.200	3.66	4.52
5/27/13 19:20	1.270	3.99	4.24	5/27/13 22:05	1.150	3.74	4.2
5/27/13 19:25	1.340	3.97	4.49	5/27/13 22:10	1.180	3.69	4.41
5/27/13 19:30	1.220	3.83	4.3	5/27/13 22:15	1.080	3.66	4.08
5/27/13 19:35	1.240	3.93	4.21	5/27/13 22:20	1.130	3.58	4.42
5/27/13 19:40	1.290	4.04	4.21	5/27/13 22:25	1.030	3.64	3.94
5/27/13 19:45	1.250	3.86	4.38	5/27/13 22:30	1.080	3.67	4.05
5/27/13 19:50	1.060	3.9	3.66	5/27/13 22:35	1.090	3.66	4.12
5/27/13 19:55	1.210	3.83	4.27	5/27/13 22:40	1.090	3.63	4.16
5/27/13 20:00	1.190	3.85	4.19	5/27/13 22:45	1.110	3.68	4.16
5/27/13 20:05	1.150	3.8	4.12	5/27/13 22:50	1.070	3.61	4.12
5/27/13 20:10	1.220	3.96	4.1	5/27/13 22:55	1.050	3.64	3.99

time	flow rate	velocity	level	time	flow rate	velocity	level
5/27/13 23:00	1.060	3.59	4.1	5/28/13 1:45	1.030	3.4	4.32
5/27/13 23:05	1.110	3.66	4.22	5/28/13 1:50	0.980	3.36	4.18
5/27/13 23:10	1.060	3.57	4.15	5/28/13 1:55	0.970	3.3	4.26
5/27/13 23:15	1.040	3.58	4.07	5/28/13 2:00	1.040	3.3	4.55
5/27/13 23:20	1.010	3.54	4.02	5/28/13 2:05	0.980	3.45	4.04
5/27/13 23:25	1.040	3.5	4.2	5/28/13 2:10	1.000	3.32	4.37
5/27/13 23:30	1.120	3.59	4.35	5/28/13 2:15	1.020	3.35	4.39
5/27/13 23:35	1.160	3.66	4.39	5/28/13 2:20	1.030	3.41	4.31
5/27/13 23:40	1.060	3.5	4.28	5/28/13 2:25	0.980	3.24	4.43
5/27/13 23:45	1.040	3.47	4.25	5/28/13 2:30	1.000	3.39	4.22
5/27/13 23:50	1.070	3.51	4.3	5/28/13 2:35	1.000	3.27	4.45
5/27/13 23:55	1.100	3.55	4.35	5/28/13 2:40	1.040	3.32	4.54
5/28/13 0:00	1.090	3.54	4.32	5/28/13 2:45	0.970	3.32	4.24
5/28/13 0:05	1.050	3.48	4.28	5/28/13 2:50	0.980	3.28	4.33
5/28/13 0:10	1.020	3.45	4.19	5/28/13 2:55	0.960	3.28	4.27
5/28/13 0:15	1.120	3.49	4.56	5/28/13 3:00	1.020	3.38	4.34
5/28/13 0:20	1.140	3.55	4.51	5/28/13 3:05	0.910	3.26	4.07
5/28/13 0:25	1.050	3.5	4.26	5/28/13 3:10	0.960	3.25	4.31
5/28/13 0:30	1.060	3.51	4.28	5/28/13 3:15	0.980	3.28	4.35
5/28/13 0:35	1.020	3.46	4.18	5/28/13 3:20	0.910	3.31	4.01
5/28/13 0:40	1.080	3.5	4.37	5/28/13 3:25	0.950	3.26	4.27
5/28/13 0:45	1.110	3.48	4.51	5/28/13 3:30	0.980	3.29	4.34
5/28/13 0:50	1.060	3.46	4.37	5/28/13 3:35	0.970	3.26	4.36
5/28/13 0:55	1.040	3.44	4.33	5/28/13 3:40	1.000	3.31	4.39
5/28/13 1:00	1.080	3.43	4.48	5/28/13 3:45	0.940	3.23	4.27
5/28/13 1:05	1.110	3.5	4.47	5/28/13 3:50	0.910	3.18	4.25
5/28/13 1:10	1.040	3.49	4.22	5/28/13 3:55	0.940	3.31	4.14
5/28/13 1:15	1.010	3.39	4.29	5/28/13 4:00	0.820	3.25	3.7
5/28/13 1:20	1.090	3.47	4.48	5/28/13 4:05	0.970	3.23	4.43
5/28/13 1:25	1.020	3.43	4.23	5/28/13 4:10	0.900	3.16	4.22
5/28/13 1:30	1.080	3.49	4.38	5/28/13 4:15	0.910	3.15	4.3
5/28/13 1:35	1.030	3.39	4.37	5/28/13 4:20	0.920	3.2	4.26
5/28/13 1:40	1.040	3.37	4.46	5/28/13 4:25	0.940	3.15	4.42

time	flow rate	velocity	level	time	flow rate	velocity	level
5/28/13 4:30	0.890	3.13	4.24	5/28/13 7:15	0.880	3.1	4.28
5/28/13 4:35	0.960	3.27	4.3	5/28/13 7:20	0.840	3.07	4.1
5/28/13 4:40	0.960	3.2	4.44	5/28/13 7:25	0.880	3.1	4.23
5/28/13 4:45	0.920	3.2	4.24	5/28/13 7:30	0.860	3.09	4.2
5/28/13 4:50	0.870	3.17	4.08	5/28/13 7:35	0.840	3.08	4.09
5/28/13 4:55	0.950	3.24	4.29	5/28/13 7:40	0.860	3.1	4.18
5/28/13 5:00	0.830	3.23	3.75	5/28/13 7:45	0.850	3.06	4.17
5/28/13 5:05	0.930	3.25	4.19	5/28/13 7:50	0.850	3.07	4.14
5/28/13 5:10	0.940	3.24	4.25	5/28/13 7:55	0.830	3.04	4.12
5/28/13 5:15	0.960	3.22	4.38	5/28/13 8:00	0.850	3.08	4.16
5/28/13 5:20	0.970	3.3	4.29	5/28/13 8:05	0.840	3.06	4.15
5/28/13 5:25	0.900	3.24	4.07	5/28/13 8:10	0.890	3.08	4.36
5/28/13 5:30	0.860	3.18	4.02	5/28/13 8:15	0.820	3.08	3.98
5/28/13 5:35	0.920	3.19	4.25	5/28/13 8:20	0.850	3.1	4.11
5/28/13 5:40	0.930	3.21	4.25	5/28/13 8:25	0.890	3.13	4.23
5/28/13 5:45	0.890	3.19	4.14	5/28/13 8:30	0.900	3.21	4.12
5/28/13 5:50	0.910	3.22	4.16	5/28/13 8:35	0.800	3.1	3.89
5/28/13 5:55	0.920	3.16	4.32	5/28/13 8:40	0.820	3.04	4.06
5/28/13 6:00	0.910	3.16	4.26	5/28/13 8:45	0.870	3.08	4.22
5/28/13 6:05	0.900	3.2	4.17	5/28/13 8:50	0.850	3.1	4.12
5/28/13 6:10	0.910	3.19	4.21	5/28/13 8:55	0.920	3.17	4.31
5/28/13 6:15	0.940	3.19	4.33	5/28/13 9:00	0.840	2.99	4.28
5/28/13 6:20	0.890	3.17	4.18	5/28/13 9:05	0.850	3.11	4.07
5/28/13 6:25	0.880	3.17	4.12	5/28/13 9:10	0.860	3.11	4.14
5/28/13 6:30	0.950	3.26	4.26	5/28/13 9:15	0.870	3.08	4.26
5/28/13 6:35	0.880	3.13	4.19	5/28/13 9:20	0.820	3.08	3.99
5/28/13 6:40	0.880	3.15	4.15	5/28/13 9:25	0.870	3.1	4.21
5/28/13 6:45	0.910	3.14	4.3	5/28/13 9:30	0.850	3.08	4.18
5/28/13 6:50	0.940	3.15	4.42	5/28/13 9:35	0.840	3.03	4.18
5/28/13 6:55	0.950	3.27	4.24	5/28/13 9:40	0.790	3.06	3.89
5/28/13 7:00	0.880	3.11	4.22	5/28/13 9:45	0.840	3.08	4.13
5/28/13 7:05	0.880	3.12	4.23	5/28/13 9:50	0.860	3.08	4.21
5/28/13 7:10	0.920	3.17	4.29	5/28/13 9:55	0.840	3.07	4.1

time	flow rate	velocity	level	time	flow rate	velocity	level
5/28/13 10:00	0.810	2.98	4.15	5/28/13 12:45	0.800	2.93	4.19
5/28/13 10:05	0.850	3.06	4.17	5/28/13 12:50	0.840	3.07	4.13
5/28/13 10:10	0.810	3.05	4.02	5/28/13 12:55	0.780	2.91	4.15
5/28/13 10:15	0.820	3.04	4.06	5/28/13 13:00	0.750	2.88	4.03
5/28/13 10:20	0.830	2.93	4.37	5/28/13 13:05	0.810	2.94	4.24
5/28/13 10:25	0.820	2.98	4.19	5/28/13 13:10	0.750	2.88	4.04
5/28/13 10:30	0.810	2.92	4.3	5/28/13 13:15	0.780	2.88	4.2
5/28/13 10:35	0.830	3.02	4.16	5/28/13 13:20	0.730	2.82	4.04
5/28/13 10:40	0.770	2.94	4.02	5/28/13 13:25	0.730	2.86	3.96
5/28/13 10:45	0.800	2.92	4.23	5/28/13 13:30	0.750	2.85	4.09
5/28/13 10:50	0.820	2.94	4.3	5/28/13 13:35	0.710	2.84	3.88
5/28/13 10:55	0.810	2.9	4.31	5/28/13 13:40	0.750	2.89	4
5/28/13 11:00	0.820	3.02	4.12	5/28/13 13:45	0.750	2.87	4.05
5/28/13 11:05	0.790	2.99	4.04	5/28/13 13:50	0.730	2.82	4.08
5/28/13 11:10	0.780	2.93	4.09	5/28/13 13:55	0.770	2.91	4.07
5/28/13 11:15	0.810	2.9	4.34	5/28/13 14:00	0.760	2.87	4.09
5/28/13 11:20	0.820	2.96	4.21	5/28/13 14:05	0.770	2.9	4.11
5/28/13 11:25	0.780	2.99	3.96	5/28/13 14:10	0.770	2.88	4.15
5/28/13 11:30	0.840	3	4.25	5/28/13 14:15	0.750	2.87	4.05
5/28/13 11:35	0.830	3.01	4.21	5/28/13 14:20	0.720	2.8	4.02
5/28/13 11:40	0.800	2.89	4.27	5/28/13 14:25	0.740	2.86	4.02
5/28/13 11:45	0.790	2.97	4.08	5/28/13 14:30	0.760	2.9	4.07
5/28/13 11:50	0.780	2.93	4.07	5/28/13 14:35	0.800	2.9	4.23
5/28/13 11:55	0.750	2.9	3.98	5/28/13 14:40	0.660	2.83	3.64
5/28/13 12:00	0.800	2.89	4.28	5/28/13 14:45	0.750	2.86	4.05
5/28/13 12:05	0.780	2.95	4.04	5/28/13 14:50	0.770	2.89	4.11
5/28/13 12:10	0.780	2.98	3.97	5/28/13 14:55	0.710	2.76	4.07
5/28/13 12:15	0.730	2.84	4.01	5/28/13 15:00	0.730	2.76	4.2
5/28/13 12:20	0.810	2.97	4.15	5/28/13 15:05	0.750	2.79	4.21
5/28/13 12:25	0.760	2.88	4.09	5/28/13 15:10	0.720	2.79	4.04
5/28/13 12:30	0.800	2.93	4.18	5/28/13 15:15	0.730	2.81	4.09
5/28/13 12:35	0.850	3.03	4.23	5/28/13 15:20	0.710	2.82	3.97
5/28/13 12:40	0.780	2.92	4.1	5/28/13 15:25	0.720	2.81	4.03

time	flow rate	velocity	level	time	flow rate	velocity	level
5/28/13 15:30	0.75	2.86	4.08	5/28/13 18:15	0.700	2.74	4.04
5/28/13 15:35	0.74	2.85	4.05	5/28/13 18:20	0.690	2.81	3.83
5/28/13 15:40	0.68	2.76	3.93	5/28/13 18:25	0.660	2.68	3.93
5/28/13 15:45	0.8	2.91	4.22	5/28/13 18:30	0.690	2.77	3.93
5/28/13 15:50	0.74	2.87	4	5/28/13 18:35	0.710	2.78	4.05
5/28/13 15:55	0.69	2.78	3.91	5/28/13 18:40	0.690	2.75	3.98
5/28/13 16:00	0.71	2.83	3.91	5/28/13 18:45	0.730	2.79	4.12
5/28/13 16:05	0.710	2.79	3.98	5/28/13 18:50	0.740	2.79	4.18
5/28/13 16:10	0.670	2.75	3.87	5/28/13 18:55	0.660	2.69	3.95
5/28/13 16:15	0.740	2.86	4	5/28/13 19:00	0.670	2.64	4.08
5/28/13 16:20	0.700	2.7	4.13	5/28/13 19:05	0.680	2.72	3.98
5/28/13 16:25	0.730	2.86	3.98	5/28/13 19:10	0.690	2.76	3.98
5/28/13 16:30	0.700	2.79	3.94	5/28/13 19:15	0.680	2.67	4.12
5/28/13 16:35	0.76	2.82	4.23	5/28/13 19:20	0.690	2.73	4.02
5/28/13 16:40	0.74	2.81	4.13	5/28/13 19:25	0.690	2.69	4.13
5/28/13 16:45	0.74	2.78	4.18	5/28/13 19:30	0.690	2.73	4.03
5/28/13 16:50	0.73	2.75	4.21	5/28/13 19:35	0.690	2.72	4.02
5/28/13 16:55	0.73	2.81	4.08	5/28/13 19:40	0.710	2.74	4.09
5/28/13 17:00	0.7	2.79	3.92	5/28/13 19:45	0.680	2.73	3.96
5/28/13 17:05	0.710	2.77	4.08	5/28/13 19:50	0.620	2.6	3.89
5/28/13 17:10	0.720	2.74	4.15	5/28/13 19:55	0.690	2.69	4.1
5/28/13 17:15	0.690	2.79	3.89	5/28/13 20:00	0.640	2.67	3.86
5/28/13 17:20	0.710	2.78	4	5/28/13 20:05	0.670	2.7	3.99
5/28/13 17:25	0.700	2.72	4.11	5/28/13 20:10	0.650	2.67	3.93
5/28/13 17:30	0.680	2.73	3.99	5/28/13 20:15	0.660	2.68	3.95
5/28/13 17:35	0.67	2.66	4.05	5/28/13 20:20	0.670	2.67	4.02
5/28/13 17:40	0.71	2.82	3.94	5/28/13 20:25	0.680	2.67	4.08
5/28/13 17:45	0.71	2.77	4.04	5/28/13 20:30	0.730	2.82	4.03
5/28/13 17:50	0.73	2.76	4.18	5/28/13 20:35	0.610	2.66	3.68
5/28/13 17:55	0.7	2.72	4.12	5/28/13 20:40	0.660	2.71	3.9
5/28/13 18:00	0.71	2.73	4.13	5/28/13 20:45	0.670	2.64	4.14
5/28/13 18:05	0.69	2.75	3.96	5/28/13 20:50	0.680	2.77	3.88
5/28/13 18:10	0.68	2.72	4.02	5/28/13 20:55	0.650	2.64	3.99

time	flow rate	velocity	level	time	flow rate	velocity	level
5/28/13 21:00	0.600	2.63	3.71	5/28/13 23:45	0.620	2.55	4
5/28/13 21:05	0.620	2.57	3.96	5/28/13 23:50	0.600	2.53	3.88
5/28/13 21:10	0.720	2.78	4.08	5/28/13 23:55	0.580	2.46	3.93
5/28/13 21:15	0.670	2.72	3.89	5/29/13 0:00	0.590	2.5	3.93
5/28/13 21:20	0.700	2.68	4.18	5/29/13 0:05	0.580	2.51	3.84
5/28/13 21:25	0.650	2.6	4.05	5/29/13 0:10	0.590	2.53	3.84
5/28/13 21:30	0.640	2.72	3.78	5/29/13 0:15	0.580	2.5	3.88
5/28/13 21:35	0.670	2.66	4.07	5/29/13 0:20	0.620	2.56	4
5/28/13 21:40	0.660	2.64	4.02	5/29/13 0:25	0.590	2.5	3.94
5/28/13 21:45	0.680	2.75	3.95	5/29/13 0:30	0.610	2.5	4.04
5/28/13 21:50	0.660	2.72	3.86	5/29/13 0:35	0.590	2.53	3.85
5/28/13 21:55	0.630	2.6	3.92	5/29/13 0:40	0.610	2.57	3.91
5/28/13 22:00	0.640	2.62	3.95	5/29/13 0:45	0.570	2.44	3.95
5/28/13 22:05	0.620	2.58	3.9	5/29/13 0:50	0.580	2.52	3.82
5/28/13 22:10	0.640	2.63	3.97	5/29/13 0:55	0.590	2.5	3.93
5/28/13 22:15	0.610	2.6	3.81	5/29/13 1:00	0.610	2.54	3.99
5/28/13 22:20	0.640	2.62	3.96	5/29/13 1:05	0.580	2.47	3.96
5/28/13 22:25	0.620	2.55	3.97	5/29/13 1:10	0.590	2.48	3.94
5/28/13 22:30	0.610	2.57	3.88	5/29/13 1:15	0.610	2.5	4.02
5/28/13 22:35	0.620	2.55	4	5/29/13 1:20	0.590	2.47	4.01
5/28/13 22:40	0.630	2.59	3.94	5/29/13 1:25	0.600	2.49	3.97
5/28/13 22:45	0.580	2.53	3.78	5/29/13 1:30	0.620	2.55	3.99
5/28/13 22:50	0.620	2.56	4	5/29/13 1:35	0.600	2.5	3.98
5/28/13 22:55	0.600	2.51	3.97	5/29/13 1:40	0.580	2.46	3.93
5/28/13 23:00	0.630	2.59	3.97	5/29/13 1:45	0.530	2.37	3.83
5/28/13 23:05	0.640	2.6	4.02	5/29/13 1:50	0.610	2.5	4.07
5/28/13 23:10	0.600	2.49	4.03	5/29/13 1:55	0.600	2.48	4.04
5/28/13 23:15	0.610	2.57	3.92	5/29/13 2:00	0.620	2.52	4.05
5/28/13 23:20	0.590	2.52	3.86	5/29/13 2:05	0.580	2.44	4.01
5/28/13 23:25	0.610	2.51	4.06	5/29/13 2:10	0.540	2.45	3.72
5/28/13 23:30	0.600	2.51	3.96	5/29/13 2:15	0.620	2.55	3.99
5/28/13 23:35	0.580	2.5	3.83	5/29/13 2:20	0.580	2.45	3.98
5/28/13 23:40	0.620	2.58	3.95	5/29/13 2:25	0.560	2.49	3.76

time	flow rate	velocity	level	time	flow rate	velocity	level
5/29/13 2:30	0.590	2.48	3.94	5/29/13 5:15	0.590	2.57	3.77
5/29/13 2:35	0.570	2.48	3.85	5/29/13 5:20	0.580	2.48	3.88
5/29/13 2:40	0.600	2.5	4.01	5/29/13 5:25	0.560	2.44	3.82
5/29/13 2:45	0.560	2.46	3.84	5/29/13 5:30	0.580	2.54	3.79
5/29/13 2:50	0.580	2.45	3.94	5/29/13 5:35	0.590	2.59	3.7
5/29/13 2:55	0.580	2.46	3.96	5/29/13 5:40	0.540	2.49	3.64
5/29/13 3:00	0.580	2.45	3.95	5/29/13 5:45	0.580	2.51	3.8
5/29/13 3:05	0.570	2.51	3.8	5/29/13 5:50	0.580	2.5	3.88
5/29/13 3:10	0.570	2.48	3.86	5/29/13 5:55	0.600	2.55	3.84
5/29/13 3:15	0.580	2.45	3.94	5/29/13 6:00	0.640	2.6	4.02
5/29/13 3:20	0.580	2.43	4	5/29/13 6:05	0.600	2.55	3.88
5/29/13 3:25	0.560	2.42	3.88	5/29/13 6:10	0.560	2.48	3.8
5/29/13 3:30	0.540	2.38	3.85	5/29/13 6:15	0.570	2.55	3.7
5/29/13 3:35	0.570	2.47	3.87	5/29/13 6:20	0.570	2.49	3.81
5/29/13 3:40	0.560	2.43	3.88	5/29/13 6:25	0.590	2.53	3.84
5/29/13 3:45	0.590	2.47	3.99	5/29/13 6:30	0.600	2.49	3.99
5/29/13 3:50	0.540	2.4	3.83	5/29/13 6:35	0.600	2.57	3.85
5/29/13 3:55	0.580	2.44	3.98	5/29/13 6:40	0.600	2.53	3.92
5/29/13 4:00	0.550	2.41	3.89	5/29/13 6:45	0.560	2.47	3.79
5/29/13 4:05	0.590	2.51	3.86	5/29/13 6:50	0.580	2.47	3.91
5/29/13 4:10	0.550	2.43	3.84	5/29/13 6:55	0.560	2.43	3.9
5/29/13 4:15	0.560	2.44	3.88	5/29/13 7:00	0.550	2.41	3.83
5/29/13 4:20	0.510	2.43	3.51	5/29/13 7:05	0.560	2.41	3.95
5/29/13 4:25	0.550	2.43	3.81	5/29/13 7:10	0.560	2.47	3.82
5/29/13 4:30	0.590	2.47	3.97	5/29/13 7:15	0.580	2.47	3.93
5/29/13 4:35	0.550	2.46	3.76	5/29/13 7:20	0.570	2.44	3.9
5/29/13 4:40	0.590	2.5	3.92	5/29/13 7:25	0.520	2.38	3.69
5/29/13 4:45	0.570	2.48	3.81	5/29/13 7:30	0.590	2.47	3.98
5/29/13 4:50	0.550	2.52	3.62	5/29/13 7:35	0.580	2.44	3.98
5/29/13 4:55	0.570	2.54	3.72	5/29/13 7:40	0.560	2.44	3.82
5/29/13 5:00	0.590	2.49	3.91	5/29/13 7:45	0.560	2.45	3.86
5/29/13 5:05	0.590	2.49	3.9	5/29/13 7:50	0.560	2.41	3.91
5/29/13 5:10	0.590	2.51	3.9	5/29/13 7:55	0.560	2.43	3.86

time	flow rate	velocity	level	time	flow rate	velocity	level
5/29/13 8:00	0.580	2.52	3.83	5/29/13 10:45	0.540	2.39	3.83
5/29/13 8:05	0.570	2.44	3.89	5/29/13 10:50	0.570	2.44	3.91
5/29/13 8:10	0.590	2.53	3.89	5/29/13 10:55	0.540	2.41	3.82
5/29/13 8:15	0.630	2.62	3.94	5/29/13 11:00	0.550	2.45	3.73
5/29/13 8:20	0.570	2.5	3.79	5/29/13 11:05	0.520	2.34	3.8
5/29/13 8:25	0.560	2.44	3.87	5/29/13 11:10	0.520	2.46	3.56
5/29/13 8:30	0.580	2.47	3.9	5/29/13 11:15	0.580	2.54	3.75
5/29/13 8:35	0.570	2.44	3.93	5/29/13 11:20	0.580	2.44	3.96
5/29/13 8:40	0.570	2.51	3.8	5/29/13 11:25	0.590	2.53	3.87
5/29/13 8:45	0.620	2.58	3.93	5/29/13 11:30	0.560	2.46	3.84
5/29/13 8:50	0.580	2.52	3.8	5/29/13 11:35	0.560	2.43	3.85
5/29/13 8:55	0.600	2.53	3.92	5/29/13 11:40	0.550	2.44	3.8
5/29/13 9:00	0.560	2.43	3.91	5/29/13 11:45	0.540	2.37	3.84
5/29/13 9:05	0.590	2.5	3.93	5/29/13 11:50	0.520	2.35	3.79
5/29/13 9:10	0.530	2.38	3.75	5/29/13 11:55	0.530	2.34	3.92
5/29/13 9:15	0.530	2.37	3.81	5/29/13 12:00	0.520	2.39	3.7
5/29/13 9:20	0.550	2.5	3.66	5/29/13 12:05	0.500	2.32	3.72
5/29/13 9:25	0.570	2.46	3.89	5/29/13 12:10	0.550	2.43	3.81
5/29/13 9:30	0.560	2.46	3.8	5/29/13 12:15	0.550	2.45	3.79
5/29/13 9:35	0.580	2.48	3.88	5/29/13 12:20	0.560	2.42	3.87
5/29/13 9:40	0.570	2.43	3.94	5/29/13 12:25	0.520	2.4	3.7
5/29/13 9:45	0.550	2.39	3.92	5/29/13 12:30	0.500	2.28	3.83
5/29/13 9:50	0.540	2.41	3.75	5/29/13 12:35	0.490	2.29	3.73
5/29/13 9:55	0.550	2.36	3.97	5/29/13 12:40	0.510	2.33	3.75
5/29/13 10:00	0.550	2.37	3.93	5/29/13 12:45	0.500	2.3	3.76
5/29/13 10:05	0.600	2.46	4.11	5/29/13 12:50	0.540	2.4	3.78
5/29/13 10:10	0.560	2.54	3.65	5/29/13 12:55	0.520	2.31	3.87
5/29/13 10:15	0.570	2.47	3.82	5/29/13 13:00	0.540	2.36	3.88
5/29/13 10:20	0.570	2.41	3.97	5/29/13 13:05	0.510	2.29	3.85
5/29/13 10:25	0.560	2.39	3.96	5/29/13 13:10	0.530	2.42	3.72
5/29/13 10:30	0.560	2.41	3.93	5/29/13 13:15	0.510	2.27	3.89
5/29/13 10:35	0.570	2.47	3.83	5/29/13 13:20	0.530	2.36	3.85
5/29/13 10:40	0.540	2.39	3.82	5/29/13 13:25	0.530	2.32	3.96

time	flow rate	velocity	level	time	flow rate	velocity	level
5/29/13 13:30	0.490	2.26	3.81	5/29/13 16:15	0.510	2.34	3.74
5/29/13 13:35	0.520	2.3	3.89	5/29/13 16:20	0.540	2.37	3.88
5/29/13 13:40	0.520	2.32	3.84	5/29/13 16:25	0.480	2.24	3.77
5/29/13 13:45	0.510	2.33	3.75	5/29/13 16:30	0.520	2.32	3.88
5/29/13 13:50	0.520	2.37	3.77	5/29/13 16:35	0.480	2.23	3.79
5/29/13 13:55	0.510	2.35	3.75	5/29/13 16:40	0.450	2.2	3.58
5/29/13 14:00	0.540	2.38	3.88	5/29/13 16:45	0.480	2.3	3.6
5/29/13 14:05	0.480	2.25	3.73	5/29/13 16:50	0.470	2.29	3.59
5/29/13 14:10	0.500	2.26	3.89	5/29/13 16:55	0.490	2.33	3.64
5/29/13 14:15	0.530	2.33	3.89	5/29/13 17:00	0.490	2.35	3.54
5/29/13 14:20	0.470	2.19	3.83	5/29/13 17:05	0.490	2.3	3.65
5/29/13 14:25	0.480	2.24	3.75	5/29/13 17:10	0.470	2.28	3.55
5/29/13 14:30	0.480	2.24	3.76	5/29/13 17:15	0.480	2.4	3.4
5/29/13 14:35	0.460	2.17	3.74	5/29/13 17:20	0.490	2.29	3.73
5/29/13 14:40	0.460	2.21	3.69	5/29/13 17:25	0.470	2.26	3.59
5/29/13 14:45	0.500	2.26	3.87	5/29/13 17:30	0.530	2.38	3.75
5/29/13 14:50	0.490	2.24	3.82	5/29/13 17:35	0.490	2.36	3.54
5/29/13 14:55	0.480	2.19	3.89	5/29/13 17:40	0.480	2.33	3.53
5/29/13 15:00	0.490	2.2	3.93	5/29/13 17:45	0.480	2.26	3.73
5/29/13 15:05	0.490	2.27	3.78	5/29/13 17:50	0.460	2.29	3.47
5/29/13 15:10	0.460	2.2	3.72	5/29/13 17:55	0.490	2.34	3.63
5/29/13 15:15	0.490	2.25	3.82	5/29/13 18:00	0.480	2.27	3.64
5/29/13 15:20	0.480	2.23	3.81	5/29/13 18:05	0.470	2.27	3.63
5/29/13 15:25	0.500	2.25	3.84	5/29/13 18:10	0.500	2.3	3.79
5/29/13 15:30	0.510	2.3	3.85	5/29/13 18:15	0.500	2.3	3.74
5/29/13 15:35	0.460	2.2	3.72	5/29/13 18:20	0.490	2.26	3.75
5/29/13 15:40	0.490	2.22	3.9	5/29/13 18:25	0.540	2.36	3.9
5/29/13 15:45	0.550	2.37	3.96	5/29/13 18:30	0.500	2.26	3.85
5/29/13 15:50	0.500	2.31	3.73	5/29/13 18:35	0.540	2.39	3.84
5/29/13 15:55	0.530	2.32	3.9	5/29/13 18:40	0.480	2.29	3.67
5/29/13 16:00	0.490	2.21	3.88	5/29/13 18:45	0.500	2.29	3.8
5/29/13 16:05	0.520	2.34	3.79	5/29/13 18:50	0.600	2.47	4.07
5/29/13 16:10	0.530	2.34	3.89	5/29/13 18:55	0.480	2.24	3.77

time	flow rate	velocity	level	time	flow rate	velocity	level
5/29/13 19:00	0.510	2.3	3.81	5/29/13 21:45	0.500	2.27	3.79
5/29/13 19:05	0.490	2.28	3.74	5/29/13 21:50	0.540	2.39	3.81
5/29/13 19:10	0.490	2.24	3.83	5/29/13 21:55	0.520	2.31	3.86
5/29/13 19:15	0.500	2.26	3.86	5/29/13 22:00	0.540	2.37	3.85
5/29/13 19:20	0.500	2.29	3.82	5/29/13 22:05	0.810	3.02	4.05
5/29/13 19:25	0.490	2.32	3.66	5/29/13 22:10	0.910	3.17	4.27
5/29/13 19:30	0.510	2.3	3.82	5/29/13 22:15	0.730	2.78	4.13
5/29/13 19:35	0.500	2.24	3.88	5/29/13 22:20	0.620	2.55	4.01
5/29/13 19:40	0.510	2.29	3.82	5/29/13 22:25	0.550	2.48	3.68
5/29/13 19:45	0.500	2.26	3.86	5/29/13 22:30	0.530	2.37	3.82
5/29/13 19:50	0.540	2.42	3.76	5/29/13 22:35	0.520	2.35	3.75
5/29/13 19:55	0.530	2.34	3.9	5/29/13 22:40	0.510	2.3	3.83
5/29/13 20:00	0.530	2.38	3.82	5/29/13 22:45	0.540	2.38	3.88
5/29/13 20:05	0.500	2.31	3.77	5/29/13 22:50	0.570	2.49	3.81
5/29/13 20:10	0.500	2.3	3.73	5/29/13 22:55	0.570	2.45	3.86
5/29/13 20:15	0.550	2.36	3.96	5/29/13 23:00	0.650	2.6	4.1
5/29/13 20:20	0.530	2.35	3.85	5/29/13 23:05	0.620	2.53	4.06
5/29/13 20:25	0.540	2.36	3.89	5/29/13 23:10	0.580	2.49	3.89
5/29/13 20:30	0.520	2.36	3.78	5/29/13 23:15	0.620	2.53	4.06
5/29/13 20:35	0.550	2.37	3.96	5/29/13 23:20	0.600	2.53	3.9
5/29/13 20:40	0.490	2.33	3.64	5/29/13 23:25	0.570	2.46	3.88
5/29/13 20:45	0.500	2.31	3.71	5/29/13 23:30	0.460	2.22	3.66
5/29/13 20:50	0.480	2.19	3.85	5/29/13 23:35	0.530	2.36	3.85
5/29/13 20:55	0.470	2.21	3.77	5/29/13 23:40	0.470	2.28	3.6
5/29/13 21:00	0.490	2.25	3.81	5/29/13 23:45	0.510	2.27	3.88
5/29/13 21:05	0.500	2.27	3.87	5/29/13 23:50	0.500	2.28	3.85
5/29/13 21:10	0.520	2.32	3.88	5/29/13 23:55	0.520	2.41	3.64
5/29/13 21:15	0.480	2.32	3.6	5/30/13 0:00	0.790	2.95	4.12
5/29/13 21:20	0.470	2.25	3.61	5/30/2013 0:05	0.97	3.28	4.31
5/29/13 21:25	0.470	2.27	3.6	5/30/2013 0:10	0.88	3.15	4.14
5/29/13 21:30	0.490	2.23	3.83	5/30/2013 0:15	0.92	3.28	4.09
5/29/13 21:35	0.490	2.29	3.7	5/30/2013 0:20	1	3.4	4.22
5/29/13 21:40	0.510	2.31	3.81	5/30/2013 0:25	0.97	3.32	4.24

time	flow rate	velocity	level	time	flow rate	velocity	level
5/30/13 0:30	0.87	3.18	4.05	5/30/13 3:15	1.050	3.39	4.46
5/30/13 0:35	0.95	3.27	4.26	5/30/13 3:20	0.940	3.36	4.04
5/30/13 0:40	1.08	3.52	4.32	5/30/13 3:25	1.020	3.34	4.4
5/30/13 0:45	1.02	3.45	4.2	5/30/13 3:30	0.990	3.29	4.38
5/30/13 0:50	0.97	3.36	4.18	5/30/13 3:35	0.960	3.34	4.17
5/30/13 0:55	1.22	3.78	4.41	5/30/13 3:40	0.960	3.3	4.21
5/30/13 1:00	1.45	4.18	4.52	5/30/13 3:45	0.950	3.27	4.25
5/30/13 1:05	1.440	4.23	4.41	5/30/13 3:50	0.880	3.23	4.01
5/30/13 1:10	1.520	4.35	4.45	5/30/13 3:55	0.970	3.25	4.36
5/30/13 1:15	1.460	4.39	4.22	5/30/13 4:00	0.970	3.25	4.4
5/30/13 1:20	1.270	3.83	4.49	5/30/13 4:05	0.920	3.22	4.2
5/30/13 1:25	1.290	3.94	4.39	5/30/13 4:10	0.870	3.13	4.13
5/30/13 1:30	1.800	4.79	4.59	5/30/13 4:15	0.950	3.21	4.37
5/30/13 1:35	2.16	5.19	4.9	5/30/13 4:20	0.890	3.14	4.25
5/30/13 1:40	2.41	5.26	5.36	5/30/13 4:25	0.880	3.05	4.35
5/30/13 1:45	2.31	5.25	5.16	5/30/13 4:30	0.890	3.16	4.2
5/30/13 1:50	2.22	5.19	5.04	5/30/13 4:35	0.870	3.13	4.16
5/30/13 1:55	1.71	4.84	4.29	5/30/13 4:40	0.900	3.1	4.36
5/30/13 2:00	1.51	4.34	4.44	5/30/13 4:45	0.810	3.09	3.92
5/30/13 2:05	1.350	4.1	4.33	5/30/13 4:50	0.850	3.06	4.21
5/30/13 2:10	1.280	3.83	4.53	5/30/13 4:55	0.820	3.03	4.08
5/30/13 2:15	1.280	4.07	4.14	5/30/13 5:00	0.820	3.08	4.01
5/30/13 2:20	1.360	4.22	4.19	5/30/13 5:05	0.870	3.09	4.24
5/30/13 2:25	1.500	4.24	4.57	5/30/13 5:10	0.820	2.99	4.2
5/30/13 2:30	1.490	4.35	4.38	5/30/13 5:15	0.800	3.06	3.95
5/30/13 2:35	1.36	4.09	4.36	5/30/13 5:20	0.870	3.07	4.27
5/30/13 2:40	1.25	4.01	4.15	5/30/13 5:25	0.800	3.04	3.97
5/30/13 2:45	1.17	3.68	4.39	5/30/13 5:30	0.840	3.05	4.14
5/30/13 2:50	1.09	3.56	4.29	5/30/13 5:35	0.820	3.02	4.12
5/30/13 2:55	1.17	3.52	4.7	5/30/13 5:40	0.820	3.06	4.04
5/30/13 3:00	1.09	3.54	4.34	5/30/13 5:45	0.830	2.97	4.3
5/30/13 3:05	1.06	3.43	4.4	5/30/13 5:50	0.830	3.02	4.16
5/30/13 3:10	0.99	3.36	4.24	5/30/13 5:55	0.860	3.06	4.21

time	flow rate	velocity	level	time	flow rate	velocity	level
5/30/13 6:00	0.810	2.97	4.16	5/30/13 8:45	1.330	3.98	4.44
5/30/13 6:05	0.820	2.96	4.21	5/30/13 8:50	1.430	4.43	4.09
5/30/13 6:10	0.800	2.97	4.1	5/30/13 8:55	2.100	5.31	4.61
5/30/13 6:15	0.820	3.03	4.11	5/30/13 9:00	2.050	5.15	4.71
5/30/13 6:20	0.810	2.95	4.2	5/30/13 9:05	1.910	4.92	4.68
5/30/13 6:25	0.790	2.93	4.14	5/30/13 9:10	1.700	4.74	4.4
5/30/13 6:30	0.800	3	4.05	5/30/13 9:15	1.550	4.45	4.39
5/30/13 6:35	0.780	2.98	4	5/30/13 9:20	1.540	4.51	4.31
5/30/13 6:40	0.780	2.96	4.06	5/30/13 9:25	1.540	4.38	4.47
5/30/13 6:45	0.780	2.92	4.13	5/30/13 9:30	1.600	4.43	4.57
5/30/13 6:50	0.820	3.03	4.08	5/30/13 9:35	1.950	5.27	4.32
5/30/13 6:55	0.800	2.97	4.11	5/30/13 9:40	2.040	5.3	4.49
5/30/13 7:00	0.890	3.12	4.28	5/30/13 9:45	2.320	5.19	5.26
5/30/13 7:05	0.940	3.25	4.23	5/30/13 9:50	2.310	5.27	5.11
5/30/13 7:10	0.910	3.13	4.33	5/30/13 9:55	2.100	4.81	5.31
5/30/13 7:15	0.890	3.17	4.18	5/30/13 10:00	2.070	5.21	4.66
5/30/13 7:20	0.900	3.12	4.3	5/30/13 10:05	3.490	5.91	6.54
5/30/13 7:25	0.830	3.02	4.17	5/30/13 10:10	3.140	5.81	6.04
5/30/13 7:30	0.910	3.16	4.27	5/30/13 10:15	3.210	6.11	0
5/30/13 7:35	1.000	3.38	4.24	5/30/13 10:20	4.160	6.06	7.53
5/30/13 7:40	1.070	3.43	4.44	5/30/13 10:25	3.410	6.07	6.17
5/30/13 7:45	1.060	3.54	4.2	5/30/13 10:30	3.060	5.49	6.38
5/30/13 7:50	1.110	3.66	4.2	5/30/13 10:35	2.550	5.44	5.4
5/30/13 7:55	1.220	3.89	4.23	5/30/13 10:40	3.210	5.84	6.13
5/30/13 8:00	1.180	3.77	4.26	5/30/13 10:45	2.840	5.27	6.29
5/30/13 8:05	1.150	3.68	4.32	5/30/13 10:50	2.630	5.41	5.61
5/30/13 8:10	1.200	3.71	4.45	5/30/13 10:55	2.340	5.23	5.24
5/30/13 8:15	1.190	3.78	4.28	5/30/13 11:00	2.180	5.05	5.14
5/30/13 8:20	1.160	3.75	4.25	5/30/13 11:05	2.240	5.03	5.32
5/30/13 8:25	1.200	3.81	4.29	5/30/13 11:10	2.210	5.12	5.1
5/30/13 8:30	1.140	3.58	4.46	5/30/13 11:15	1.900	4.71	4.96
5/30/13 8:35	1.110	3.68	4.15	5/30/13 11:20	2.250	4.94	5.49
5/30/13 8:40	1.280	3.81	4.57	5/30/13 11:25	3.480	5.92	6.52

time	flow rate	velocity	level	time	flow rate	velocity	level
5/30/13 11:30	3.710	5.86	7.04	5/30/13 14:15	2.020	4.82	5.1
5/30/13 11:35	3.060	5.49	6.38	5/30/13 14:20	1.770	4.91	4.36
5/30/13 11:40	2.680	5.49	5.59	5/30/13 14:25	1.770	4.87	4.4
5/30/13 11:45	3.160	5.59	6.43	5/30/13 14:30	1.820	4.9	4.5
5/30/13 11:50	2.470	5.41	5.27	5/30/13 14:35	1.800	4.76	4.63
5/30/13 11:55	2.520	5.24	5.65	5/30/13 14:40	1.830	4.57	4.99
5/30/13 12:00	2.470	5.05	5.83	5/30/13 14:45	1.780	4.75	4.6
5/30/13 12:05	2.350	5.2	5.32	5/30/13 14:50	1.760	4.72	4.58
5/30/13 12:10	2.330	5.06	5.47	5/30/13 14:55	1.800	4.8	4.56
5/30/13 12:15	2.300	4.87	5.72	5/30/13 15:00	1.700	4.63	4.56
5/30/13 12:20	2.370	5.21	5.35	5/30/13 15:05	1.540	4.63	4.12
5/30/13 12:25	2.330	5.29	5.15	5/30/13 15:10	1.690	4.77	4.34
5/30/13 12:30	2.330	5.27	5.17	5/30/13 15:15	1.730	4.56	4.72
5/30/13 12:35	2.620	5.34	5.69	5/30/13 15:20	1.610	4.57	4.4
5/30/13 12:40	2.650	5.22	5.95	5/30/13 15:25	1.610	4.69	4.23
5/30/13 12:45	2.700	5.2	6.1	5/30/13 15:30	1.570	4.58	4.27
5/30/13 12:50	2.290	5.11	5.31	5/30/13 15:35	1.740	4.59	4.74
5/30/13 12:55	2.070	5	4.96	5/30/13 15:40	1.660	4.52	4.62
5/30/13 13:00	2.350	5.11	5.46	5/30/13 15:45	1.570	4.44	4.47
5/30/13 13:05	2.430	5.06	5.71	5/30/13 15:50	1.620	4.45	4.6
5/30/13 13:10	2.370	5.13	5.46	5/30/13 15:55	1.730	4.58	4.7
5/30/13 13:15	2.360	5.25	5.25	5/30/13 16:00	1.630	4.59	4.43
5/30/13 13:20	2.230	4.96	5.38	5/30/13 16:05	1.570	4.34	4.63
5/30/13 13:25	2.250	4.96	5.45	5/30/13 16:10	1.610	4.43	4.61
5/30/13 13:30	2.150	4.95	5.2	5/30/13 16:15	1.500	4.29	4.49
5/30/13 13:35	2.200	4.99	5.28	5/30/13 16:20	1.390	4.36	4.07
5/30/13 13:40	2.070	4.91	5.08	5/30/13 16:25	1.510	4.49	4.22
5/30/13 13:45	2.030	4.84	5.09	5/30/13 16:30	1.600	4.55	4.4
5/30/13 13:50	2.270	5.04	5.37	5/30/13 16:35	1.450	4.29	4.35
5/30/13 13:55	2.090	4.86	5.21	5/30/13 16:40	1.430	4.3	4.27
5/30/13 14:00	2.100	4.92	5.13	5/30/13 16:45	1.460	4.36	4.27
5/30/13 14:05	1.880	4.73	4.87	5/30/13 16:50	1.490	4.22	4.58
5/30/13 14:10	1.970	4.89	4.86	5/30/13 16:55	1.420	4.3	4.24

time	flow rate	velocity	level	time	flow rate	velocity	level
5/30/13 17:00	1.410	4.23	4.32	5/30/13 19:45	1.240	3.82	4.39
5/30/13 17:05	1.560	4.31	4.62	5/30/13 19:50	1.160	3.79	4.16
5/30/13 17:10	1.580	4.32	4.68	5/30/13 19:55	1.160	3.84	4.1
5/30/13 17:15	1.430	4.26	4.34	5/30/13 20:00	1.260	3.85	4.43
5/30/13 17:20	1.410	4.26	4.26	5/30/13 20:05	1.240	3.91	4.26
5/30/13 17:25	1.480	4.25	4.5	5/30/13 20:10	1.140	3.75	4.17
5/30/13 17:30	1.380	4.16	4.33	5/30/13 20:15	1.210	3.79	4.35
5/30/13 17:35	1.290	4.12	4.09	5/30/13 20:20	1.190	3.78	4.29
5/30/13 17:40	1.210	4.16	3.79	5/30/13 20:25	1.220	3.82	4.32
5/30/13 17:45	1.330	4.04	4.35	5/30/13 20:30	1.300	3.89	4.49
5/30/13 17:50	1.410	4.09	4.51	5/30/13 20:35	1.200	3.82	4.26
5/30/13 17:55	1.390	4.06	4.5	5/30/13 20:40	1.240	3.84	4.36
5/30/13 18:00	1.350	4.22	4.14	5/30/13 20:45	1.200	3.92	4.11
5/30/13 18:05	1.370	4.05	4.45	5/30/13 20:50	1.110	3.68	4.19
5/30/13 18:10	1.480	4.18	4.6	5/30/13 20:55	1.240	3.85	4.36
5/30/13 18:15	1.420	4.13	4.49	5/30/13 21:00	1.150	3.68	4.32
5/30/13 18:20	1.410	4.18	4.4	5/30/13 21:05	1.150	3.79	4.12
5/30/13 18:25	1.340	4.11	4.28	5/30/13 21:10	1.160	3.73	4.26
5/30/13 18:30	1.360	4.04	4.46	5/30/13 21:15	1.200	3.74	4.38
5/30/13 18:35	1.360	4	4.51	5/30/13 21:20	1.100	3.59	4.27
5/30/13 18:40	1.320	4.04	4.31	5/30/13 21:25	1.170	3.73	4.31
5/30/13 18:45	1.270	4.01	4.2	5/30/13 21:30	1.070	3.67	4.02
5/30/13 18:50	1.070	3.83	3.8	5/30/13 21:35	1.120	3.61	4.33
5/30/13 18:55	1.240	3.98	4.15	5/30/13 21:40	1.090	3.74	4
5/30/13 19:00	1.200	4.03	3.93	5/30/13 21:45	1.100	3.65	4.18
5/30/13 19:05	1.390	3.96	4.66	5/30/13 21:50	1.210	3.76	4.4
5/30/13 19:10	1.270	3.94	4.32	5/30/13 21:55	1.150	3.74	4.21
5/30/13 19:15	1.310	3.96	4.42	5/30/13 22:00	1.180	3.67	4.45
5/30/13 19:20	1.270	3.99	4.23	5/30/13 22:05	1.160	3.68	4.34
5/30/13 19:25	1.290	3.89	4.47	5/30/13 22:10	1.170	3.68	4.37
5/30/13 19:30	1.380	4.01	4.55	5/30/13 22:15	1.070	3.66	4.04
5/30/13 19:35	1.240	3.84	4.39	5/30/13 22:20	1.130	3.63	4.34
5/30/13 19:40	1.150	3.79	4.15	5/30/13 22:25	1.070	3.75	3.91

time	flow rate	velocity	level	time	flow rate	velocity	level
5/30/13 22:30	1.140	3.7	4.25	5/31/13 1:15	1.040	3.39	4.41
5/30/13 22:35	1.160	3.64	4.43	5/31/13 1:20	1.050	3.36	4.51
5/30/13 22:40	1.110	3.64	4.24	5/31/13 1:25	1.070	3.39	4.53
5/30/13 22:45	1.160	3.64	4.43	5/31/13 1:30	1.060	3.47	4.32
5/30/13 22:50	1.110	3.56	4.37	5/31/13 1:35	0.990	3.41	4.15
5/30/13 22:55	1.050	3.55	4.16	5/31/13 1:40	1.030	3.42	4.3
5/30/13 23:00	1.160	3.59	4.5	5/31/13 1:45	1.050	3.45	4.33
5/30/13 23:05	1.150	3.6	4.46	5/31/13 1:50	1.010	3.36	4.34
5/30/13 23:10	1.020	3.58	4	5/31/13 1:55	1.020	3.39	4.34
5/30/13 23:15	1.160	3.64	4.42	5/31/13 2:00	1.030	3.37	4.39
5/30/13 23:20	1.120	3.59	4.35	5/31/13 2:05	1.070	3.48	4.37
5/30/13 23:25	1.120	3.61	4.3	5/31/13 2:10	0.990	3.36	4.26
5/30/13 23:30	1.080	3.53	4.3	5/31/13 2:15	1.040	3.42	4.36
5/30/13 23:35	1.140	3.61	4.41	5/31/13 2:20	0.930	3.35	4.02
5/30/13 23:40	1.070	3.57	4.2	5/31/13 2:25	1.040	3.4	4.38
5/30/13 23:45	1.120	3.58	4.37	5/31/13 2:30	1.000	3.4	4.24
5/30/13 23:50	1.100	3.53	4.38	5/31/13 2:35	1.030	3.4	4.36
5/30/13 23:55	1.080	3.56	4.27	5/31/13 2:40	1.030	3.39	4.35
5/31/13 0:00	1.050	3.51	4.22	5/31/13 2:45	1.060	3.38	4.51
5/31/13 0:05	1.040	3.39	4.4	5/31/13 2:50	0.980	3.38	4.15
5/31/13 0:10	1.110	3.53	4.41	5/31/13 2:55	0.970	3.3	4.28
5/31/13 0:15	1.060	3.5	4.29	5/31/13 3:00	1.020	3.36	4.37
5/31/13 0:20	1.000	3.4	4.23	5/31/13 3:05	1.070	3.43	4.45
5/31/13 0:25	1.090	3.54	4.34	5/31/13 3:10	1.010	3.33	4.4
5/31/13 0:30	0.980	3.35	4.24	5/31/13 3:15	0.980	3.35	4.23
5/31/13 0:35	1.090	3.5	4.39	5/31/13 3:20	0.940	3.27	4.18
5/31/13 0:40	1.080	3.53	4.31	5/31/13 3:25	0.980	3.27	4.36
5/31/13 0:45	1.040	3.45	4.29	5/31/13 3:30	0.940	3.3	4.14
5/31/13 0:50	1.020	3.47	4.19	5/31/13 3:35	0.930	3.29	4.14
5/31/13 0:55	1.090	3.5	4.42	5/31/13 3:40	0.940	3.34	4.09
5/31/13 1:00	1.060	3.39	4.47	5/31/13 3:45	1.010	3.36	4.36
5/31/13 1:05	1.080	3.51	4.34	5/31/13 3:50	0.960	3.3	4.22
5/31/13 1:10	1.000	3.43	4.15	5/31/13 3:55	1.040	3.39	4.4

time	flow rate	velocity	level	time	flow rate	velocity	level
5/31/13 4:00	1.010	3.3	4.44	5/31/13 6:45	4.240	5.93	7.92
5/31/13 4:05	0.960	3.19	4.46	5/31/13 6:50	3.880	5.76	7.55
5/31/13 4:10	1.000	3.33	4.35	5/31/13 6:55	3.580	5.53	7.4
5/31/13 4:15	1.030	3.43	4.3	5/31/13 7:00	3.940	5.82	7.55
5/31/13 4:20	1.020	3.49	4.16	5/31/13 7:05	3.830	5.58	7.82
5/31/13 4:25	1.100	3.51	4.4	5/31/13 7:10	3.700	5.7	7.32
5/31/13 4:30	4.690	6.42	7.8	5/31/13 7:15	3.320	5.41	7.09
5/31/13 4:35	6.440	7.66	8.3	5/31/13 7:20	3.420	5.59	6.95
5/31/13 4:40	4.540	6.2	7.94	5/31/13 7:25	3.200	5.71	6.32
5/31/13 4:45	3.510	5.74	6.86	5/31/13 7:30	3.430	5.8	6.62
5/31/13 4:50	11.930	10.04	10.45	5/31/13 7:35	2.910	5.46	6.13
5/31/13 4:55	13.760	11.91	9.48	5/31/13 7:40	2.990	5.63	6.02
5/31/13 5:00	16.790	12.51	10.81	5/31/13 7:45	3.450	5.71	6.81
5/31/13 5:05	17.590	14.03	9.67	5/31/13 7:50	3.350	5.54	6.91
5/31/13 5:10	17.640	14.31	9.44	5/31/13 7:55	3.030	5.44	6.41
5/31/13 5:15	16.670	12.45	10.8	5/31/13 8:00	2.620	5.41	5.58
5/31/13 5:20	12.360	10.67	9.94	5/31/13 8:05	2.880	5.37	6.22
5/31/13 5:25	10.950	9.56	10.28	5/31/13 8:10	3.070	5.53	6.33
5/31/13 5:30	9.970	8.68	10.75	5/31/13 8:15	2.750	5.21	6.19
5/31/13 5:35	7.650	7.45	10.26	5/31/13 8:20	2.720	5.46	5.72
5/31/13 5:40	7.670	7.51	10.16	5/31/13 8:25	2.740	5.52	5.67
5/31/13 5:45	6.700	7.05	9.74	5/31/13 8:30	2.580	5.21	5.82
5/31/13 5:50	6.830	7.37	9.31	5/31/13 8:35	2.860	5.5	5.96
5/31/13 5:55	6.010	7.03	8.77	5/31/13 8:40	2.500	5.14	5.76
5/31/13 6:00	5.840	6.83	8.9	5/31/13 8:45	2.890	5.33	6.3
5/31/13 6:05	5.460	6.56	8.81	5/31/13 8:50	2.370	5.08	5.54
5/31/13 6:10	5.250	6.59	8.42	5/31/13 8:55	2.580	5.33	5.61
5/31/13 6:15	4.630	6.14	8.21	5/31/13 9:00	2.720	5.22	6.11
5/31/13 6:20	4.520	6.1	8.1	5/31/13 9:05	2.320	5.03	5.51
5/31/13 6:25	4.890	6.27	8.41	5/31/13 9:10	2.520	5.09	5.87
5/31/13 6:30	4.070	5.88	7.69	5/31/13 9:15	2.620	5.23	5.87
5/31/13 6:35	4.370	6.04	7.96	5/31/13 9:20	2.600	5.23	5.83
5/31/13 6:40	4.530	6.05	8.21	5/31/13 9:25	2.350	4.93	5.75

time	flow rate	velocity	level	time	flow rate	velocity	level
5/31/13 9:30	2.43	5.25	5.43	5/31/13 12:15	1.76	4.82	4.44
5/31/13 9:35	2.59	5.33	5.66	5/31/13 12:20	2.05	4.82	5.18
5/31/13 9:40	2.44	5.1	5.69	5/31/13 12:25	1.94	4.82	4.91
5/31/13 9:45	2.63	5.2	5.93	5/31/13 12:30	1.92	4.77	4.92
5/31/13 9:50	2.42	4.98	5.82	5/31/13 12:35	1.91	4.75	4.92
5/31/13 9:55	2.48	5.16	5.66	5/31/13 12:40	1.8	4.66	4.78
5/31/13 10:00	2.32	5.04	5.47	5/31/13 12:45	1.92	4.83	4.85
5/31/13 10:05	2.08	4.92	5.11	5/31/13 12:50	2.06	4.71	5.37
5/31/13 10:10	2.15	4.93	5.26	5/31/13 12:55	1.62	4.62	4.34
5/31/13 10:15	2.1	4.95	5.1	5/31/13 13:00	1.66	4.76	4.26
5/31/13 10:20	2.41	5.04	5.69	5/31/13 13:05	1.74	4.69	4.57
5/31/13 10:25	2.11	4.92	5.16	5/31/13 13:10	1.75	4.67	4.64
5/31/13 10:30	2.42	4.95	5.86	5/31/13 13:15	1.67	4.58	4.55
5/31/13 10:35	2	4.81	5.08	5/31/13 13:20	1.79	4.67	4.74
5/31/13 10:40	2.33	5	5.57	5/31/13 13:25	1.75	4.71	4.58
5/31/13 10:45	2.08	4.88	5.16	5/31/13 13:30	1.75	4.7	4.58
5/31/13 10:50	2.49	5.11	5.76	5/31/13 13:35	1.66	4.63	4.45
5/31/13 10:55	2.07	4.9	5.12	5/31/13 13:40	1.8	4.58	4.89
5/31/13 11:00	2.11	4.92	5.17	5/31/13 13:45	1.84	4.62	4.95
5/31/13 11:05	2.19	5.01	5.23	5/31/13 13:50	1.66	4.69	4.36
5/31/13 11:10	2.01	4.94	4.88	5/31/13 13:55	1.54	4.61	4.13
5/31/13 11:15	2.09	4.84	5.25	5/31/13 14:00	1.51	4.55	4.16
5/31/13 11:20	2.12	4.91	5.21	5/31/13 14:05	1.58	4.43	4.51
5/31/13 11:25	1.87	4.67	4.93	5/31/13 14:10	1.58	4.5	4.41
5/31/13 11:30	1.92	4.76	4.94	5/31/13 14:15	1.72	4.61	4.64
5/31/13 11:35	1.96	4.79	4.99	5/31/13 14:20	1.69	4.6	4.59
5/31/13 11:40	2.09	4.96	5.07	5/31/13 14:25	1.7	4.52	4.71
5/31/13 11:45	2.01	4.63	5.38	5/31/13 14:30	1.57	4.4	4.53
5/31/13 11:50	1.99	4.84	4.99	5/31/13 14:35	1.79	4.62	4.82
5/31/13 11:55	1.95	4.83	4.91	5/31/13 14:40	1.57	4.41	4.51
5/31/13 12:00	1.96	4.6	5.3	5/31/13 14:45	1.66	4.52	4.6
5/31/13 12:05	2.06	4.81	5.21	5/31/13 14:50	1.65	4.36	4.81
5/31/13 12:10	1.89	4.73	4.92	5/31/13 14:55	1.45	4.46	4.12

time	flow rate	velocity	level	time	flow rate	velocity	level
5/31/13 15:00	1.49	4.26	4.49	5/31/13 17:45	1.32	3.99	4.4
5/31/13 15:05	1.56	4.36	4.57	5/31/13 17:50	1.32	4.11	4.21
5/31/13 15:10	1.49	4.44	4.23	5/31/13 17:55	1.41	4	4.67
5/31/13 15:15	1.61	4.53	4.45	5/31/13 18:00	1.26	4.02	4.16
5/31/13 15:20	1.37	4.34	4.04	5/31/13 18:05	1.39	4.14	4.4
5/31/13 15:25	1.48	4.37	4.3	5/31/13 18:10	1.3	4.02	4.27
5/31/13 15:30	1.48	4.33	4.38	5/31/13 18:15	1.27	3.97	4.27
5/31/13 15:35	1.42	4.33	4.21	5/31/13 18:20	1.41	4.09	4.53
5/31/13 15:40	1.57	4.38	4.56	5/31/13 18:25	1.4	4.03	4.59
5/31/13 15:45	1.51	4.34	4.46	5/31/13 18:30	1.38	4.22	4.22
5/31/13 15:50	1.51	4.4	4.35	5/31/13 18:35	1.3	4.05	4.26
5/31/13 15:55	1.46	4.25	4.41	5/31/13 18:40	1.32	4.08	4.26
5/31/13 16:00	1.48	4.36	4.31	5/31/13 18:45	1.27	3.87	4.42
5/31/13 16:05	1.52	4.28	4.58	5/31/13 18:50	1.36	4.19	4.22
5/31/13 16:10	1.32	4.19	4.09	5/31/13 18:55	1.24	3.95	4.19
5/31/13 16:15	1.43	4.23	4.35	5/31/13 19:00	1.32	3.97	4.45
5/31/13 16:20	1.48	4.13	4.68	5/31/13 19:05	1.31	4.03	4.31
5/31/13 16:25	1.48	4.2	4.57	5/31/13 19:10	1.25	3.95	4.22
5/31/13 16:30	1.46	4.31	4.33	5/31/13 19:15	1.3	4.01	4.31
5/31/13 16:35	1.45	4.27	4.38	5/31/13 19:20	1.32	3.98	4.42
5/31/13 16:40	1.52	4.26	4.58	5/31/13 19:25	1.3	3.85	4.58
5/31/13 16:45	1.43	4.15	4.49	5/31/13 19:30	1.26	4.06	4.11
5/31/13 16:50	1.29	4.13	4.07	5/31/13 19:35	1.26	3.94	4.28
5/31/13 16:55	1.38	4.12	4.38	5/31/13 19:40	1.27	3.86	4.45
5/31/13 17:00	1.41	4.16	4.41	5/31/13 19:45	1.26	3.88	4.38
5/31/13 17:05	1.45	4.29	4.33	5/31/13 19:50	1.25	3.87	4.35
5/31/13 17:10	1.43	4.16	4.47	5/31/13 19:55	1.19	3.92	4.07
5/31/13 17:15	1.32	4.12	4.19	5/31/13 20:00	1.29	3.98	4.31
5/31/13 17:20	1.34	4.09	4.29	5/31/13 20:05	1.15	3.79	4.14
5/31/13 17:25	1.47	4.07	4.77	5/31/13 20:10	1.25	3.93	4.25
5/31/13 17:30	1.4	4.16	4.39	5/31/13 20:15	1.18	3.93	4.03
5/31/13 17:35	1.41	4.14	4.43	5/31/13 20:20	1.22	3.77	4.42
5/31/13 17:40	1.41	4.01	4.67	5/31/13 20:25	1.18	3.81	4.2

time	flow rate	velocity	level	time	flow rate	velocity	level
5/31/13 20:30	1.3	3.8	4.67	5/31/13 23:15	1.14	3.7	4.26
5/31/13 20:35	1.22	3.78	4.38	5/31/13 23:20	1.13	3.59	4.4
5/31/13 20:40	1.26	3.81	4.47	5/31/13 23:25	1.13	3.68	4.25
5/31/13 20:45	1.22	3.9	4.2	5/31/13 23:30	1.17	3.65	4.42
5/31/13 20:50	1.26	3.86	4.4	5/31/13 23:35	1.2	3.62	4.63
5/31/13 20:55	1.34	3.98	4.49	5/31/13 23:40	1.09	3.62	4.2
5/31/13 21:00	1.19	3.84	4.18	5/31/13 23:45	1.16	3.67	4.38
5/31/13 21:05	1.29	3.89	4.47	5/31/13 23:50	1.1	3.53	4.4
5/31/13 21:10	1.21	3.82	4.3	5/31/13 23:55	1.12	3.59	4.36
5/31/13 21:15	1.26	3.9	4.33				
5/31/13 21:20	1.24	3.84	4.35				
5/31/13 21:25	1.24	3.8	4.44				
5/31/13 21:30	1.17	3.71	4.36				
5/31/13 21:35	1.1	3.78	3.96				
5/31/13 21:40	1.23	3.82	4.36				
5/31/13 21:45	1.08	3.68	4.06				
5/31/13 21:50	1.2	3.67	4.52				
5/31/13 21:55	1.2	3.76	4.36				
5/31/13 22:00	1.25	3.82	4.44				
5/31/13 22:05	1.17	3.67	4.41				
5/31/13 22:10	1.23	3.78	4.45				
5/31/13 22:15	1.29	3.81	4.59				
5/31/13 22:20	1.24	3.91	4.26				
5/31/13 22:25	1.16	3.73	4.25				
5/31/13 22:30	1.21	3.73	4.45				
5/31/13 22:35	1.11	3.66	4.2				
5/31/13 22:40	1.15	3.67	4.35				
5/31/13 22:45	1.2	3.69	4.48				
5/31/13 22:50	1.24	3.79	4.46				
5/31/13 22:55	1.13	3.7	4.21				
5/31/13 23:00	1.16	3.63	4.46				
5/31/13 23:05	1.21	3.73	4.48				
5/31/13 23:10	1.18	3.76	4.27				

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