



A Division of ADS LLC

51 Wentworth Ave, Suite11
Londonderry, NH 03053
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February 10, 2021

Chelsey Little, BSBS MPH
Superintendent
Montague WPCF

Dear Ms. Little,

ADS is pleased to submit the January 2021 report for the 2021 Flow Monitoring Project .

During the monitoring period the following quality assurance steps are taken to ensure the integrity of the data collected:

- **Measure Power Supply:** The monitor is powered by a dry cell battery pack. Power levels are recorded and battery packs replaced, if necessary. A separate battery provides back-up power to memory, which allows the primary battery to be replaced without the loss of data.
- **Confirm Monitor Synchronization:** The field crew and/or data analyst checks the flow monitor's clock for accuracy.
- **Upload and Review Data:** Data collected by the monitor is uploaded and reviewed by a data analyst. All readings are checked for consistency and screened for deviations in the flow patterns, which indicate system anomalies or equipment failure.

To facilitate review of the data beginning Friday, January 1, 2021 through Sunday, January 31, 2021, results have been provided in graphical, tabular and 5-minute Excel formats.

The flow data is presented graphically in the form of hydrographs and include depth, velocity, quantity and rain. Tables are provided in daily average format. Along with depth and velocity, these tables show the flow rate for each day, along with the daily minimum and maximums, the times they were observed, the total daily flow, and total flow for the month. The following explanation of terms may aid in interpretation of the tables and hydrographs.

DEPTH - Final calculated depth measurement (in inches)

QUANTITY - Final calculated flow rate (in MGD)

VELOCITY - Final calculated flow velocity (in feet per second)

REPORT TOTAL - Total volume of flow recorded for the indicated time period (in MG)

In addition, we would be happy to further explain any details about the report that may seem unclear. Should you have any questions or comments, please contact the Project Manager, Michael Armes at 603-625-1212 or me at 256-430-3366.

Thank you for choosing ADS products and services to meet your flow monitoring needs.

Sincerely,
ADS ENVIRONMENTAL SERVICES

Melissa Hygom
Data Analyst



[An IDEX Fluid & Metering Business](#)

Accusonic
ADS Environmental Services
Hydra-Stop

Site Commentary

Site Information

7th_L_CSO	
Location:	7th Street at L Street

Overview

The [hydrograph](#) for location 7th_L_CSO shows depth levels and calculated flow values recorded during the monitoring period of Friday, January 1, 2021 to Sunday, January 31, 2021 .

[Daily longtables](#) displaying final quantities are also provided.

One overflow event occurred during the monitoring period.

Observations

Average flow depth and quantity data observed during Friday, January 1, 2021 to Sunday, January 31, 2021 , along with observed minimum and maximum data, are provided in the following table.

Observed Flow Conditions		
Item	Depth (in)	Quantity (MGD)
Average	1.76	0.183
Minimum	1.22	0.084
Maximum	5.35	1.603
Time of Minimum	1/27/2021 4:40 AM	1/27/2021 4:40 AM
Time of Maximum	1/16/2021 9:35 AM	1/16/2021 9:35 AM

Please note the minimum and maximum flow rate recorded in this table may vary from those recorded on the daily and weekly tabular data. The minimum and maximum rates recorded on the daily and weekly tabular data are absolute versus average fifteen minute data. Graphical data reports are based on an hourly average.

Data Quality

Data uptime observed during the Friday, January 1, 2021 to the Sunday, January 31, 2021 monitoring period is provided in the table below.

Percent Uptime	
Depth (in)	100

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Site Name:	Montague_ 7TH L-CSO	Meter Type:	FlowAlert	Monitor S/N:	6096	Manhole #:	N/A
Address / Location:	7TH STREET AT L STREET			Map Page #:	N/A		
Access:	Drive	Type of System:	Combined	Pipe Height:	14.25 Inches		
				Pipe Width:	14.25 Inches		
				Phone Number:	I.P. 166.219.50.204		



Investigation Information:			Manhole Information:		
Date/Time of Investigation:	August 26, 2009	10:50 AM	Manhole Depth:	6 Feet	2 Inches
Site Hydraulics:	slightly choppy flow with good velocity		Manhole Material / Condition:	PRECAST	Good
Upstream Input: (L/S, P/S)	N/A		Active Drop Connections?		
Upstream Manhole:	DNI		Pipe Material / Condition:	PVC	Good
Downstream Manhole:	DNI		Mini System Character:	RESIDENTIAL	
Depth of Flow (Wet Dof):	1.13		Telephone Information:		
Range (Air Dof):			Access Pole #:	N/A	
Peak Velocity:	3.03 fps		Distance From Manhole:	N/A Feet	
Silt:	0 Inches		Road Cut Length:	N/A Feet	
			Trench Length:	N/A Feet	

Other Information:
N 42° 36' 12.56" W 72° 33' 25.98"



Installation Information		Backup	Yes	No	?	Distance
Installation Type:	Doppler Standard Ring and Crank Installation	Trunk		X		
Sensors / Devices:	PRESSURE / FLOAT	Lift/Pump Station		X		
Surcharge Height:	Feet	WWTP		X		
Rain Gauge Zone:	RG1	Other		X		

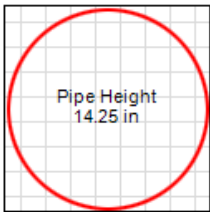
Additional Site Information / Comments:

INVERT TO TOP OF WEIR WALL 8.0" OF trigger Pdepth greater than 8"

HYDROGRAPH REPORT

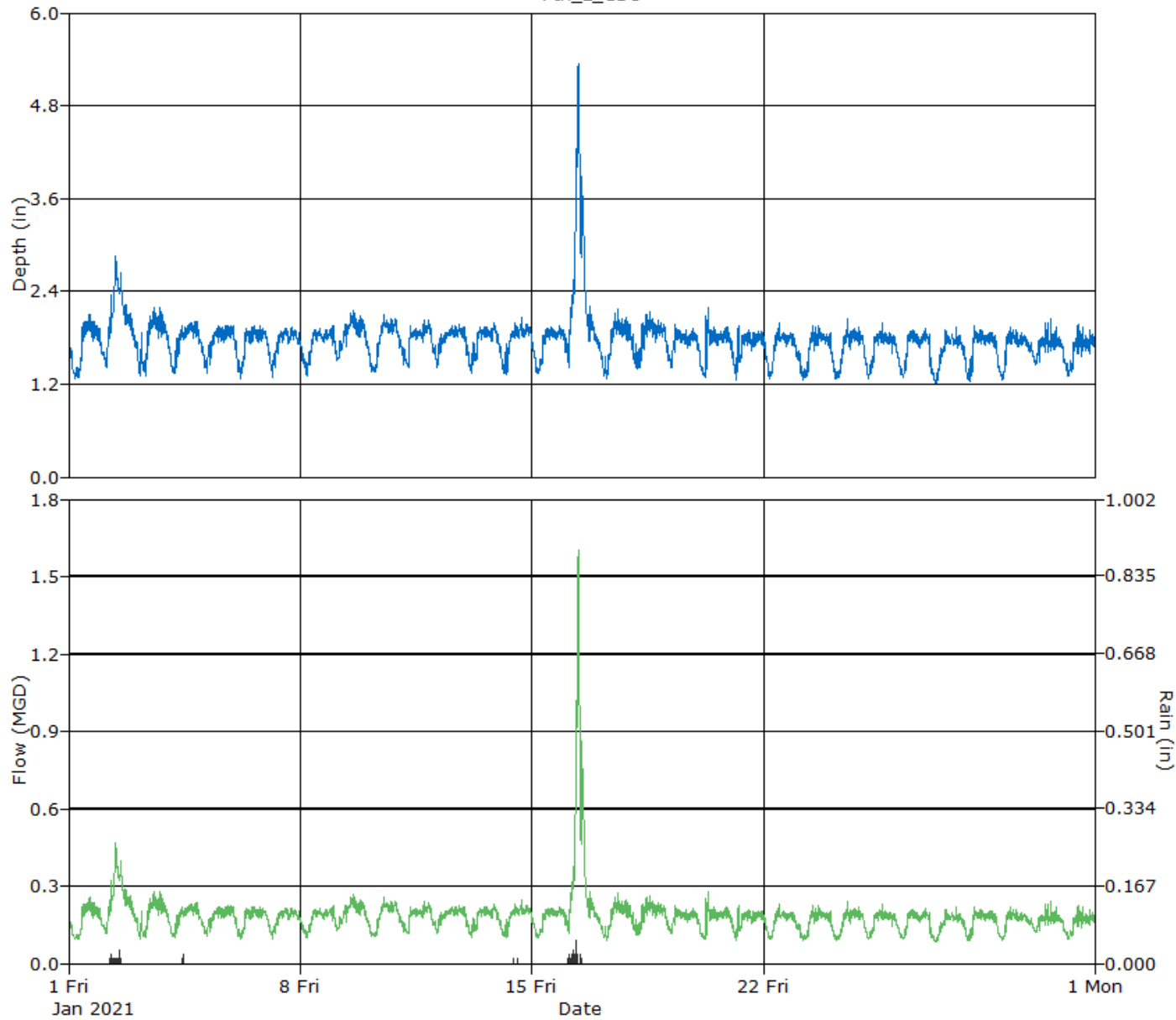
7th_L_CSO

Flow Monitor
7th_L_CSO



Report Period
1/1/2021
To
1/31/2021

Legend
— Depth
— Quantity
— Rain



Daily Tabular Report

Date	Depth (in)						Quantity (MGD - Total MG)						Rain (in)						
	Time	Min	Time	Max	Avg	Total	Time	Min	Time	Max	Avg	Total	Time	Min	Time	Max	Avg	Total	
01/01/2021	04:25	1.28	15:35	2.10	1.71		04:25	0.092	15:35	0.254	0.171	0.171							
01/02/2021	03:20	1.41	10:10	2.85	2.06		03:20	0.114	10:10	0.468	0.251	0.251							0.80
01/03/2021	04:20	1.30	17:40	2.19	1.80		04:20	0.096	17:40	0.277	0.190	0.190							
01/04/2021	04:50	1.34	20:50	2.01	1.77		04:50	0.102	20:50	0.235	0.182	0.182							0.06
01/05/2021	04:40	1.34	21:15	1.96	1.76		04:40	0.103	21:15	0.223	0.180	0.180							
01/06/2021	05:00	1.28	19:05	1.96	1.73		05:00	0.093	19:05	0.221	0.174	0.174							
01/07/2021	04:05	1.29	18:15	1.93	1.73		04:05	0.094	18:15	0.216	0.174	0.174							
01/08/2021	04:50	1.31	23:50	1.96	1.72		04:50	0.097	23:50	0.222	0.173	0.173							
01/09/2021	02:40	1.50	14:30	2.15	1.85		02:40	0.129	14:30	0.266	0.198	0.198							
01/10/2021	04:00	1.35	12:55	2.11	1.77		04:00	0.105	12:55	0.257	0.183	0.183							
01/11/2021	06:35	1.42	17:35	2.03	1.78		06:35	0.114	17:35	0.239	0.184	0.184							
01/12/2021	03:20	1.41	19:35	1.97	1.79		03:20	0.114	19:35	0.223	0.185	0.185							
01/13/2021	04:15	1.34	20:50	1.99	1.75		04:15	0.102	20:50	0.228	0.178	0.178							
01/14/2021	05:30	1.32	17:00	2.07	1.75		05:30	0.100	17:00	0.247	0.179	0.179							0.02
01/15/2021	04:50	1.34	19:45	1.96	1.73		04:50	0.102	19:45	0.221	0.174	0.174							
01/16/2021	02:55	1.41	09:35	5.35	2.48		02:55	0.114	09:35	1.603	0.404	0.404							1.07
01/17/2021	06:25	1.26	14:25	2.16	1.76		06:25	0.091	14:25	0.271	0.182	0.182							
01/18/2021	04:40	1.40	13:30	2.13	1.80		04:40	0.111	13:30	0.263	0.189	0.189							
01/19/2021	05:45	1.41	08:00	1.97	1.75		05:45	0.114	08:00	0.223	0.177	0.177							
01/20/2021	05:25	1.29	07:55	2.19	1.72		05:25	0.094	07:55	0.277	0.173	0.173							
01/21/2021	04:10	1.25	05:50	1.96	1.70		04:10	0.089	05:50	0.222	0.169	0.169							
01/22/2021	04:25	1.28	11:25	1.99	1.69		04:25	0.093	11:25	0.229	0.165	0.165							
01/23/2021	04:20	1.25	16:05	1.96	1.64		04:20	0.088	16:05	0.223	0.158	0.158							
01/24/2021	04:20	1.27	13:05	2.04	1.66		04:20	0.091	13:05	0.242	0.161	0.161							
01/25/2021	04:10	1.28	13:50	1.98	1.68		04:10	0.092	13:50	0.227	0.163	0.163							
01/26/2021	04:55	1.28	20:55	1.91	1.68		04:55	0.093	20:55	0.211	0.165	0.165							
01/27/2021	04:40	1.22	19:30	1.94	1.62		04:40	0.084	19:30	0.218	0.152	0.152							
01/28/2021	05:20	1.24	08:35	1.95	1.68		05:20	0.088	08:35	0.220	0.164	0.164							
01/29/2021	05:15	1.26	11:10	1.94	1.66		05:15	0.090	11:10	0.217	0.161	0.161							
01/30/2021	05:25	1.46	15:55	2.04	1.70		05:25	0.121	15:55	0.241	0.167	0.167							
01/31/2021	05:40	1.30	11:55	1.98	1.65		05:40	0.096	11:55	0.226	0.157	0.157							

Report Summary For The Period 01/01/2021 - 01/31/2021

	Depth (in)	Quantity (MGD - Total MG)	Rain (in)
Total		5.683	1.95
Avg	1.76	0.183	

Site Commentary

Site Information

Ave_A_CSO	
Location:	7th Street at L Street

Overview

The [hydrograph](#) for location Ave_A_CSO shows depth levels and calculated flow values recorded during the monitoring period of Friday, January 1, 2021 to Sunday, January 31, 2021 .

[Daily longtables](#) displaying final quantities are also provided.

No overflow events occurred during the monitoring period.

Observations

Average flow depth and quantity data observed during Friday, January 1, 2021 to Sunday, January 31, 2021 , along with observed minimum and maximum data, are provided in the following table.

Observed Flow Conditions		
Item	Depth (in)	Quantity (MGD)
Average	2.25	0.434
Minimum	1.22	0.113
Maximum	12.32	10.757
Time of Minimum	1/30/2021 4:15 AM	1/30/2021 4:15 AM
Time of Maximum	1/16/2021 8:45 AM	1/16/2021 8:45 AM

Please note the minimum and maximum flow rate recorded in this table may vary from those recorded on the daily and weekly tabular data. The minimum and maximum rates recorded on the daily and weekly tabular data are absolute versus average fifteen minute data. Graphical data reports are based on an hourly average.

Data Quality

Data uptime observed during the Friday, January 1, 2021 to the Sunday, January 31, 2021 monitoring period is provided in the table below.

Percent Uptime	
Depth (in)	100

Downtime occurred from June 25 to June 30 due to a monitor problem.

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Site Name:	Montague_ AVE A-CSO	Meter Type:	FlowAlert	Monitor S/N:	6035	Manhole #:	N/A
Address / Location:		AVENUE A - IN FRONT OF FOOD CITY		Map Page #:		N/A	
Access:		Drive	Type of System:	Combined		Pipe Height:	21 Inches
						Pipe Width:	21 Inches
						Phone Number:	I.P. 166.219.48.162



Investigation Information:			Manhole Information:		
Date/Time of Investigation:	August 26, 2009	1:25 PM	Manhole Depth:	10 Feet	9 Inches
Site Hydraulics:	Fast slightly choppy flow. Outgoing install due to turbulence		Manhole Material / Condition:	Precast	Good
Upstream Input: (L/S, P/S)	N/A		Active Drop Connections?		
Upstream Manhole:	DNI		Pipe Material / Condition:	PVC	Good
Downstream Manhole:	DNI		Mini System Character:	COMMERCIAL	
Depth of Flow (Wet Dof):	2.13		Telephone Information:		
Range (Air Dof):			Access Pole #:	N/A	
Peak Velocity:	4.79 fps		Distance From Manhole:	N/A Feet	
Silt:	0 Inches		Road Cut Length:	N/A Feet	
			Trench Length:	N/A Feet	

Other Information:
N 42' 36" 15.2" W 72' 33' 39.4"



Installation Information		Backup	Yes	No	?	Distance
Installation Type:	Doppler Standard Ring and Crank Installation	Trunk		X		
Sensors / Devices:	PRESSURE / FLOAT ON WEIR	Lift/Pump Station		X		
Surcharge Height:	Feet	WWTP		X		
Rain Gauge Zone:		Other		X		

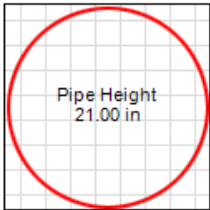
Additional Site Information / Comments:

INVERT TO TOP OF WEIR WALL 26.70 - PRESSURE IN OUTLET PIPE- PRESSURE OFFSET 1.13

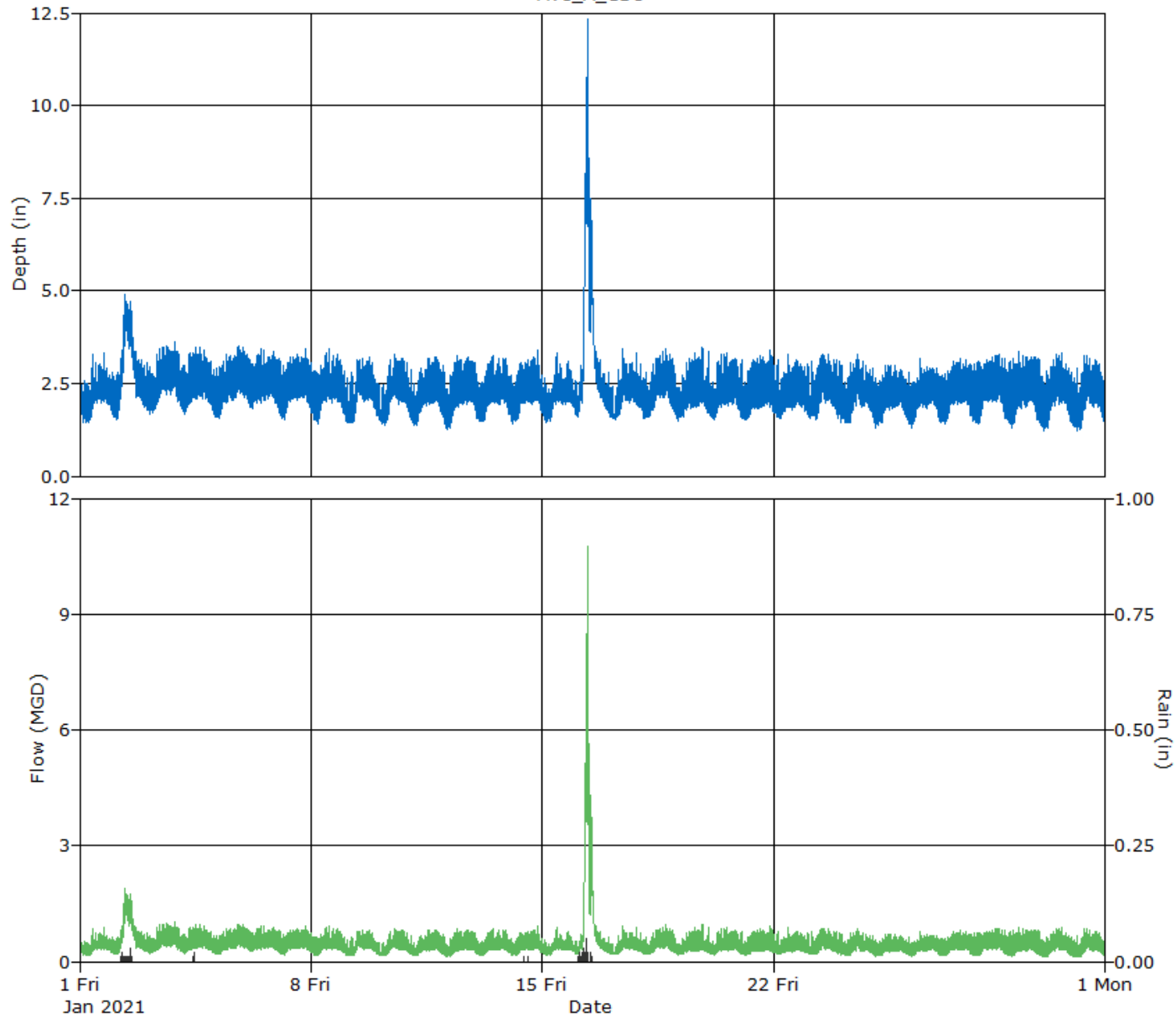
HYDROGRAPH REPORT

Ave_A_CSO

Flow Monitor
Ave_A_CSO



Report Period
1/1/2021
To
1/31/2021



Daily Tabular Report

Date	Depth (in)					Quantity (MGD - Total MG)						Rain (in)							
	Time	Min	Time	Max	Avg	Total	Time	Min	Time	Max	Avg	Total	Time	Min	Time	Max	Avg	Total	
01/01/2021	04:40	1.44	17:25	3.30	2.04		04:40	0.160	17:25	0.868	0.335	0.335							
01/02/2021	03:05	1.54	09:05	4.91	2.83		03:05	0.184	09:05	1.902	0.693	0.693							0.80
01/03/2021	02:55	1.65	21:05	3.61	2.51		02:55	0.213	21:05	1.037	0.514	0.514							
01/04/2021	03:50	1.66	12:10	3.49	2.47		03:50	0.215	12:10	0.967	0.497	0.497							0.06
01/05/2021	05:05	1.57	19:25	3.49	2.38		05:05	0.192	19:25	0.970	0.468	0.468							
01/06/2021	05:50	1.84	11:50	3.43	2.50		05:50	0.264	11:50	0.937	0.506	0.506							
01/07/2021	05:10	1.52	19:45	3.43	2.32		05:10	0.180	19:45	0.934	0.439	0.439							
01/08/2021	04:40	1.39	13:35	3.42	2.18		04:40	0.150	13:35	0.932	0.386	0.386							
01/09/2021	04:40	1.43	18:10	3.21	2.05		04:40	0.157	18:10	0.820	0.344	0.344							
01/10/2021	06:05	1.37	12:20	3.28	2.04		06:05	0.145	12:20	0.855	0.342	0.342							
01/11/2021	02:25	1.37	19:10	3.22	2.05		02:25	0.145	19:10	0.825	0.344	0.344							
01/12/2021	02:50	1.24	10:10	3.24	2.11		02:50	0.118	10:10	0.837	0.366	0.366							
01/13/2021	02:40	1.48	12:05	3.26	2.18		02:40	0.169	12:05	0.848	0.388	0.388							
01/14/2021	02:15	1.40	20:40	3.40	2.15		02:15	0.151	20:40	0.920	0.377	0.377							0.02
01/15/2021	02:40	1.43	11:10	3.31	2.03		02:40	0.158	11:10	0.874	0.330	0.330							
01/16/2021	01:40	1.60	08:45	12.32	3.67		01:40	0.199	08:45	10.757	1.471	1.471							1.07
01/17/2021	05:00	1.53	10:15	3.43	2.10		05:00	0.182	10:15	0.934	0.356	0.356							
01/18/2021	01:50	1.57	17:45	3.44	2.23		01:50	0.191	17:45	0.942	0.408	0.408							
01/19/2021	02:55	1.48	19:50	3.46	2.09		02:55	0.169	19:50	0.953	0.357	0.357							
01/20/2021	05:20	1.51	01:05	3.36	2.14		05:20	0.177	01:05	0.900	0.375	0.375							
01/21/2021	04:25	1.50	21:00	3.41	2.23		04:25	0.175	21:00	0.925	0.412	0.412							
01/22/2021	04:20	1.55	10:05	3.30	2.11		04:20	0.186	10:05	0.865	0.361	0.361							
01/23/2021	06:15	1.53	15:25	3.27	2.17		06:15	0.181	15:25	0.850	0.387	0.387							
01/24/2021	00:55	1.43	12:20	3.29	2.06		00:55	0.158	12:20	0.861	0.349	0.349							
01/25/2021	02:00	1.28	16:10	3.00	2.03		02:00	0.126	16:10	0.714	0.337	0.337							
01/26/2021	04:40	1.30	09:45	3.15	2.08		04:40	0.130	09:45	0.791	0.352	0.352							
01/27/2021	04:35	1.39	15:15	3.16	2.22		04:35	0.150	15:15	0.796	0.404	0.404							
01/28/2021	04:25	1.41	19:45	3.27	2.31		04:25	0.154	19:45	0.849	0.440	0.440							
01/29/2021	04:50	1.31	10:10	3.35	2.23		04:50	0.132	10:10	0.890	0.415	0.415							
01/30/2021	04:15	1.22	17:25	3.32	2.12		04:15	0.113	17:25	0.877	0.373	0.373							
01/31/2021	04:05	1.22	09:20	3.26	2.02		04:05	0.115	09:20	0.843	0.339	0.339							

Report Summary For The Period 01/01/2021 - 01/31/2021

	Depth (in)	Quantity (MGD - Total MG)	Rain (in)
Total		13.465	1.95
Avg	2.25	0.434	

Site Commentary

Site Information

Greenfield_M1	
Location:	Greenfield Road - CSO

Overview

The [hydrograph](#) for location Greenfield_M1 shows depth levels and calculated flow values recorded during the monitoring period of Friday, January 1, 2021 to Sunday, January 31, 2021 .

[Daily longtables](#) displaying final quantities are also provided.

One overflow event occurred during the monitoring period.

Observations

Average flow depth and quantity data observed during Friday, January 1, 2021 to Sunday, January 31, 2021 , along with observed minimum and maximum data, are provided in the following table.

Observed Flow Conditions		
Item	Depth (in)	Quantity (MGD)
Average	3.93	0.491
Minimum	1.43	0.074
Maximum	44.30	3.848
Time of Minimum	1/28/2021 6:50 AM	1/26/2021 7:00 AM
Time of Maximum	1/16/2021 10:05 AM	1/16/2021 10:15 AM

Please note the minimum and maximum flow rate recorded in this table may vary from those recorded on the daily and weekly tabular data. The minimum and maximum rates recorded on the daily and weekly tabular data are absolute versus average fifteen minute data. Graphical data reports are based on an hourly average.

Data Quality

Data uptime observed during the Friday, January 1, 2021 to the Sunday, January 31, 2021 monitoring period is provided in the table below.

Percent Uptime	
Depth (in)	100

NOTE: Debris just upstream of sensor - cause of lower flow from 1/19 - 1/31. Cleared by field crews on 2/11/21.

Overflow Events

GFLD_CSO	Total	Duration	Start	Stop	Rain
W1	5,175	1:20:00	1/16/21 9:50	1/16/21 11:10	1.07

Total	Gals.	Hrs.	Rain
	5,175	1:20:00	1.07

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Site Name:	Montague_GFLD-CSO	Meter Type:	TRITON+	Monitor S/N:	60995	Manhole #:	n/a
Address / Location:		GREENFIELD ROAD - CSO		Map Page #:		N/A	
Access:		Type of System:	Combined	Pipe Height:		36 Inches	
Drive				Pipe Width:		36 Inches	
				Phone Number:		I.P. 107.80.17.22	



Investigation Information:			Manhole Information:		
Date/Time of Investigation:	April 14, 2016	4:10 PM	Manhole Depth:	14 Feet	6 Inches
Site Hydraulics:	GOOD		Manhole Material / Condition:	PIP	Good
Upstream Input: (L/S, P/S)	N/A		Active Drop Connections?		
Upstream Manhole:	DNI		Pipe Material / Condition:	RCP	Good
Downstream Manhole:	DNI		Mini System Character:	RESIDENTIAL	
Depth of Flow (Wet Dof):	4.38		Telephone Information:		
Range (Air Dof):			Access Pole #:	N/A	
Peak Velocity:	2.04 fps		Distance From Manhole:	N/A Feet	
Silt:	0 Inches		Road Cut Length:	N/A Feet	
			Trench Length:	N/A Feet	

Other Information:
N 42' 34' 55.6" W 72' 34' 29.5"



Installation Information		Backup	Yes	No	?	Distance
Installation Type:	Doppler Special Installation	Trunk		X		
Sensors / Devices:	CS4 COMBO SENSOR	Lift/Pump Station		X		
Surcharge Height:	Feet	WWTP		X		
Rain Gauge Zone:	RG1	Other		X		

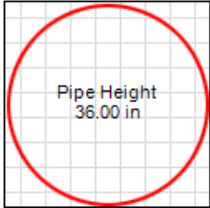
Additional Site Information / Comments:

INVERT TO TOP OF WEIR WALL 41.75. Pressure depth OF trigger Press S/N 82448 High High float set at 42" High Float set at 30" from invert at sensor

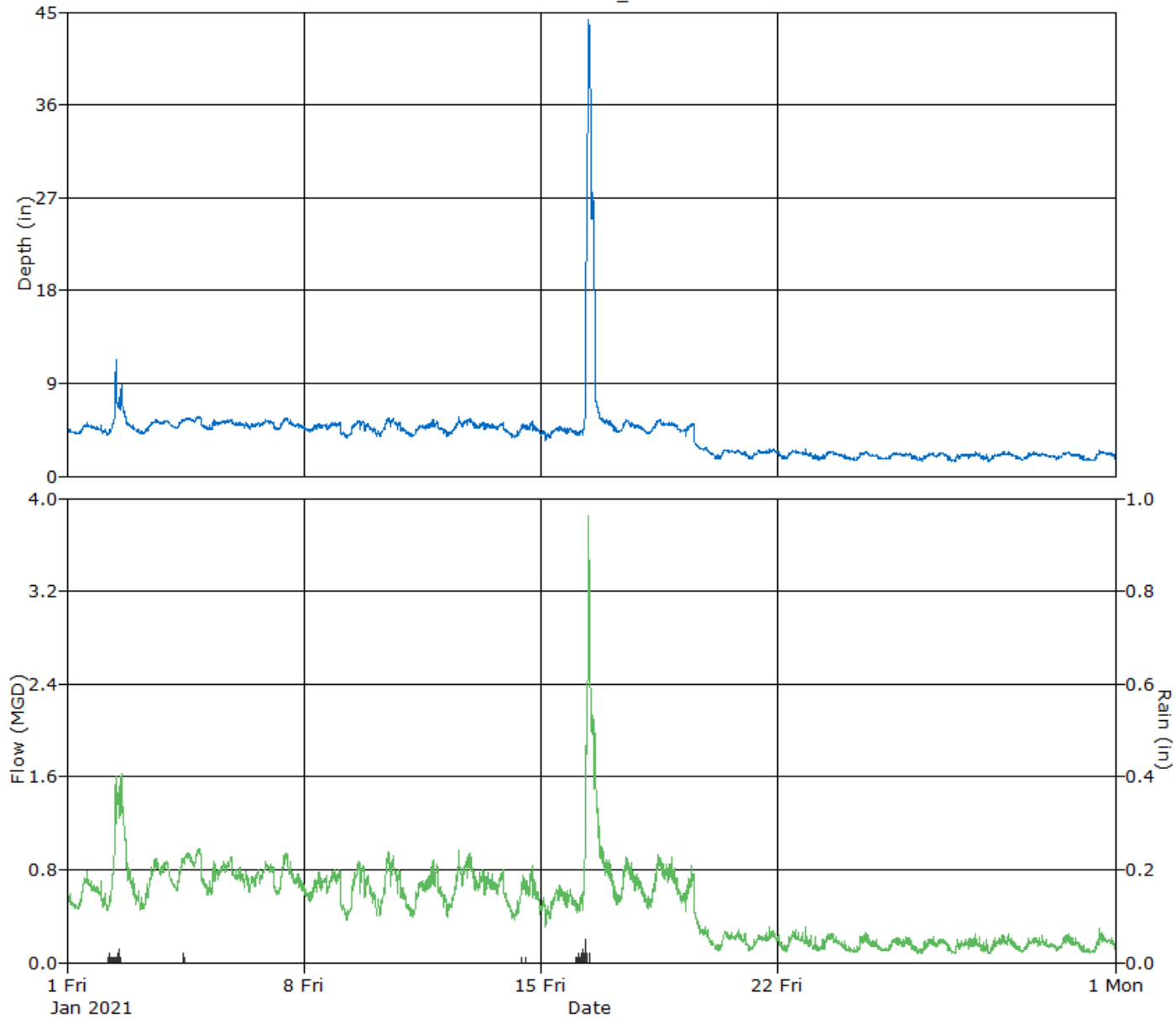
HYDROGRAPH REPORT

Greenfield_M1

Flow Monitor
Greenfield_M1



Report Period
1/1/2021
To
1/31/2021



Daily Tabular Report

Date	Depth (in)						Quantity (MGD - Total MG)						Rain (in)						
	Time	Min	Time	Max	Avg	Total	Time	Min	Time	Max	Avg	Total	Time	Min	Time	Max	Avg	Total	
01/01/2021	06:55	4.08	14:25	5.17	4.53		06:55	0.461	14:25	0.792	0.591	0.591							
01/02/2021	04:40	4.02	10:40	11.30	5.48		04:40	0.446	14:50	1.626	0.872	0.872							0.80
01/03/2021	04:15	4.07	15:55	5.43	4.83		04:10	0.453	14:20	0.892	0.688	0.688							
01/04/2021	06:00	4.63	21:30	5.71	5.26		06:00	0.620	21:30	0.976	0.823	0.823							0.06
01/05/2021	03:40	4.50	20:45	5.50	5.03		03:40	0.581	20:45	0.902	0.748	0.748							
01/06/2021	09:35	4.58	21:00	5.42	5.01		09:35	0.603	21:00	0.876	0.741	0.741							
01/07/2021	04:50	4.52	11:45	5.60	5.01		04:50	0.587	11:45	0.938	0.740	0.740							
01/08/2021	04:20	4.31	22:00	5.17	4.77		04:20	0.523	22:00	0.793	0.663	0.663							
01/09/2021	06:35	3.71	15:05	5.39	4.64		06:35	0.367	15:05	0.865	0.629	0.629							
01/10/2021	03:45	3.85	12:05	5.67	4.72		03:45	0.400	12:05	0.961	0.653	0.653							
01/11/2021	05:15	3.82	20:45	5.45	4.60		05:15	0.393	20:45	0.887	0.616	0.616							
01/12/2021	06:00	3.83	14:00	5.68	4.79		06:00	0.395	14:00	0.965	0.675	0.675							
01/13/2021	22:55	4.41	00:25	5.21	4.84		22:55	0.553	00:25	0.806	0.684	0.684							
01/14/2021	05:55	3.71	18:05	5.30	4.42		05:55	0.366	18:05	0.835	0.561	0.561							0.02
01/15/2021	03:35	3.46	13:05	4.78	4.28		03:35	0.308	13:05	0.666	0.519	0.519							
01/16/2021	02:00	3.97	10:05	44.30	12.19		02:00	0.431	10:15	3.848	1.244	1.244							1.07
01/17/2021	06:20	4.21	12:20	5.42	4.83		06:20	0.493	12:20	0.904	0.691	0.691							
01/18/2021	05:10	4.14	12:35	5.50	4.81		04:10	0.461	11:40	0.935	0.695	0.695							
01/19/2021	23:55	2.21	11:30	5.12	3.78		23:55	0.184	11:30	0.836	0.481	0.481							
01/20/2021	06:25	1.65	10:35	2.54	2.22		06:25	0.103	20:25	0.277	0.192	0.192							
01/21/2021	03:50	1.66	18:20	2.70	2.22		04:40	0.104	18:20	0.309	0.193	0.193							
01/22/2021	06:20	1.64	19:50	2.66	2.12		05:55	0.095	19:50	0.301	0.181	0.181							
01/23/2021	05:40	1.61	13:30	2.40	2.01		05:40	0.099	11:30	0.252	0.165	0.165							
01/24/2021	06:45	1.53	14:25	2.40	1.90		04:00	0.087	14:25	0.264	0.145	0.145							
01/25/2021	04:10	1.63	15:05	2.27	1.95		02:55	0.099	18:50	0.227	0.151	0.151							
01/26/2021	06:55	1.48	21:15	2.29	1.92		07:00	0.074	14:45	0.220	0.147	0.147							
01/27/2021	06:45	1.46	20:50	2.30	1.90		06:45	0.080	20:50	0.251	0.143	0.143							
01/28/2021	06:50	1.43	17:00	2.33	1.95		06:50	0.077	20:05	0.245	0.150	0.150							
01/29/2021	06:20	1.54	14:35	2.30	1.95		06:20	0.090	20:05	0.233	0.150	0.150							
01/30/2021	05:55	1.62	15:00	2.33	1.99		05:55	0.100	15:00	0.247	0.156	0.156							
01/31/2021	05:30	1.49	12:55	2.54	1.93		05:30	0.084	12:55	0.290	0.149	0.148							

Report Summary For The Period 01/01/2021 - 01/31/2021

	Depth (in)	Quantity (MGD - Total MG)	Rain (in)
Total		15.236	1.95
Avg	3.93	0.491	

Rainfall data

The rainfall measured at RG1 from January 01, 2021 to January 31, 2021 is 1.95 inches.

<u>Date / Time</u>	<u>Maximum Rainfall (in.)</u>
1/16/2021 8:25 AM	0.05

a division of ADS LLC.

Site Name:	Montague_RG1	Meter Type:	Rain Alert	Monitor S/N:	7015	Manhole #:	N/A
Address / Location:	Located at WWTP - 34 Greenfield Rd, Montague, MA			Map Page #:	N/A		
				Pipe Height:	n/a Inches		
Access:	Drive	Type of System:	Combined	Pipe Width:	n/a Inches		
				Phone Number:	I.P. 166.219.185.190		



Investigation Information:			Manhole Information:		
Date/Time of Investigation:	August 26, 2009	5:00 PM	Manhole Depth:	Feet	
Site Hydraulics:			Manhole Material / Condition:		
			Active Drop Connections?		
Upstream Input: (L/S, P/S)			Pipe Material / Condition:		
Upstream Manhole:			Mini System Character:		
Downstream Manhole:			Telephone Information:		
Depth of Flow (Wet Dof):			Access Pole #:	N/A	
Range (Air Dof):			Distance From Manhole:	N/A Feet	
Peak Velocity:		fps	Road Cut Length:	N/A Feet	
Silt:		Inches	Trench Length:	N/A Feet	

Other Information:
N 42' 34' 49.0" W 72' 34' 17.0"



Planar N ↑

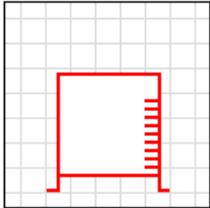
Installation Information		Backup	Yes	No	?	Distance
Installation Type:	Rain Gauge	Trunk		X		
Sensors / Devices:	Rain Gauge Tipping Bucket	Lift/Pump Station		X		
Surcharge Height:	Feet	WWTP		X		
Rain Gauge Zone:	N/A	Other		X		

Additional Site Information / Comments:

HYDROGRAPH REPORT

RG1

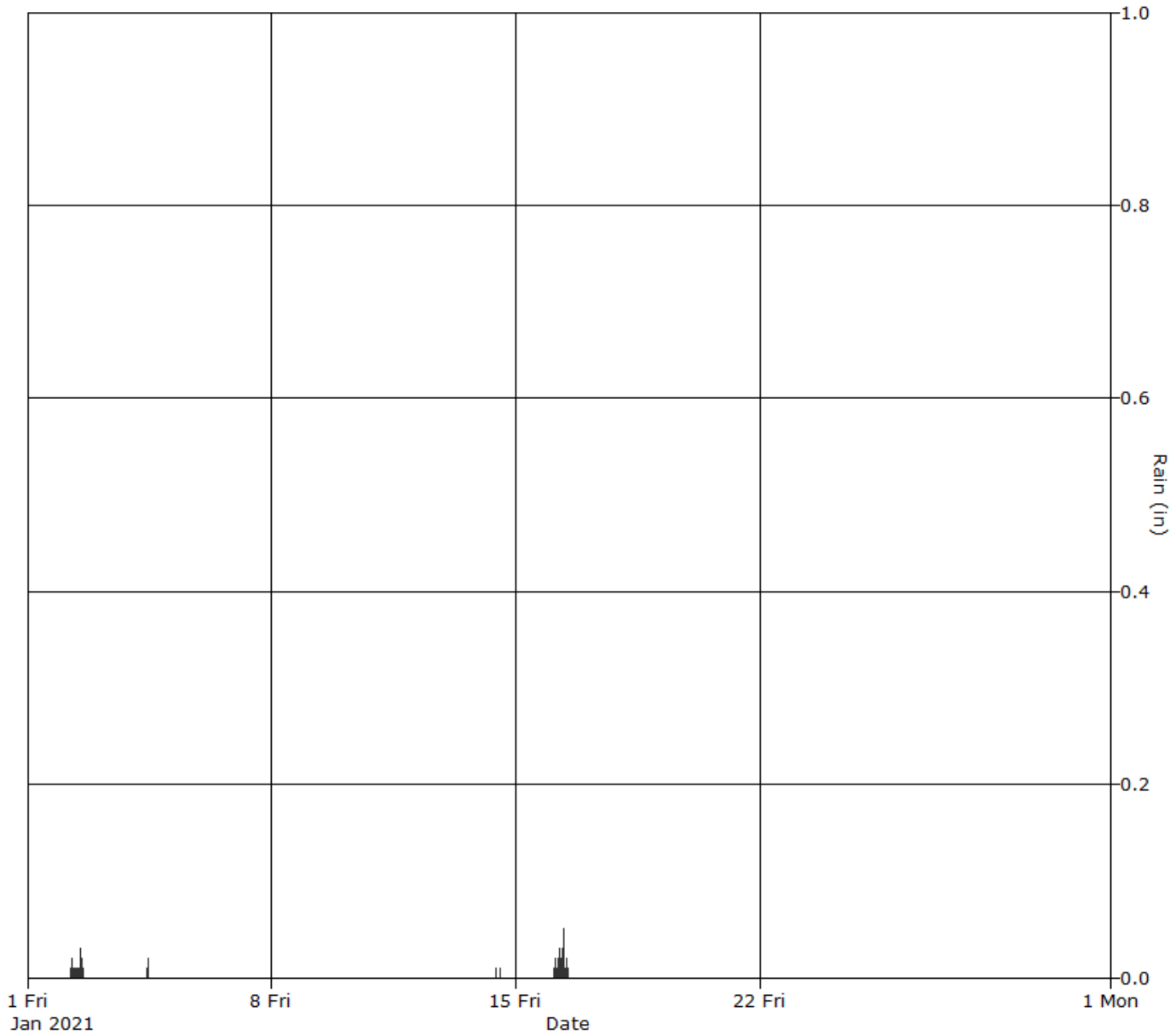
Rain Gauge
RG1



Report Period
1/1/2021
To
1/31/2021

Legend
— Rain

ADS ENVIRONMENTAL SERVICES



Daily Tabular Report

Date	Depth (in)						Quantity (MGD - Total MG)						Rain (in)						
	Time	Min	Time	Max	Avg	Total	Time	Min	Time	Max	Avg	Total	Time	Min	Time	Max	Avg	Total	
01/01/2021																			
01/02/2021																			0.80
01/03/2021																			
01/04/2021																			0.06
01/05/2021																			
01/06/2021																			
01/07/2021																			
01/08/2021																			
01/09/2021																			
01/10/2021																			
01/11/2021																			
01/12/2021																			
01/13/2021																			
01/14/2021																			0.02
01/15/2021																			
01/16/2021																			1.07
01/17/2021																			
01/18/2021																			
01/19/2021																			
01/20/2021																			
01/21/2021																			
01/22/2021																			
01/23/2021																			
01/24/2021																			
01/25/2021																			
01/26/2021																			
01/27/2021																			
01/28/2021																			
01/29/2021																			
01/30/2021																			
01/31/2021																			

Report Summary For The Period 01/01/2021 - 01/31/2021

	Rain (in)
Total	1.95
Avg	