



A Division of ADS LLC

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August 11, 2021

Chelsey Little, BSBS MPH  
Superintendent  
Montague WPCF

Dear Ms. Little,

ADS is pleased to submit the July 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 Thursday, July 1, 2021 through Saturday, July 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 256-975-4059.

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

|                  |                        |
|------------------|------------------------|
| <b>7th_L_CSO</b> |                        |
| 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 Thursday, July 1, 2021 to Saturday, July 31, 2021 .

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

Eleven (11) overflow event occurred during the monitoring period.

### Observations

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

| <b>Observed Flow Conditions</b> |                   |                   |
|---------------------------------|-------------------|-------------------|
| Item                            | Depth (in)        | Quantity (MGD)    |
| Average                         | 1.92              | 0.251             |
| Minimum                         | 0.66              | 0.024             |
| Maximum                         | 20.64             | 7.026             |
| Time of Minimum                 | 7/17/2021 6:30 PM | 7/17/2021 6:30 PM |
| Time of Maximum                 | 7/17/2021 6:50 PM | 7/6/2021 2:35 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 Thursday, July 1, 2021 to the Saturday, July 31, 2021 monitoring period is provided in the table below.

| <b>Percent Uptime</b> |    |
|-----------------------|----|
| Depth (in)            | 99 |

### July Overflow Report

| <b>7th_L_CSO</b> | <b>Total</b> | <b>Duration</b> | <b>Start</b>  | <b>Stop</b>   | <b>Rain</b> |
|------------------|--------------|-----------------|---------------|---------------|-------------|
| <b>W1</b>        | 4,486        | 0:40:00         | 7/2/21 11:45  | 7/2/21 12:25  | 1.96        |
| <b>W2</b>        | 4,693        | 0:15:00         | 7/6/21 2:30   | 7/6/21 2:45   | 0.11        |
| <b>W3</b>        | 13,869       | 0:30:00         | 7/8/21 2:35   | 7/8/21 3:05   | 0.91        |
| <b>W4</b>        | 2,871        | 0:30:00         | 7/9/21 9:25   | 7/9/21 9:55   | 0.66        |
| <b>W5</b>        | 4,371        | 0:55:00         | 7/12/21 4:40  | 7/12/21 5:35  |             |
| <b>W6</b>        | 1,107        | 0:05:00         | 7/12/21 6:00  | 7/12/21 6:05  | 0.09        |
| <b>W7</b>        | 9,14         | 0:10:00         | 7/12/21 8:40  | 7/12/21 8:50  |             |
| <b>W8</b>        | 24,827       | 0:25:00         | 7/17/21 18:50 | 7/17/21 19:15 | 0.09        |
| <b>W9</b>        | 3,144        | 1:20:00         | 7/17/21 22:10 | 7/17/21 23:30 |             |
| <b>W10</b>       | 2,466        | 0:10:00         | 7/18/21 3:10  | 7/18/21 3:20  |             |
| <b>W11</b>       | 26,641       | 1:20:00         | 7/18/21 21:05 | 7/18/21 22:25 | 0.08        |

|              | <b>Gals.</b>  | <b>Hrs.</b>    | <b>Rain</b> |
|--------------|---------------|----------------|-------------|
| <b>Total</b> | <b>89,389</b> | <b>6:20:00</b> | <b>3.9</b>  |

# Montague, MA

## Flow Monitoring Site Installation Report

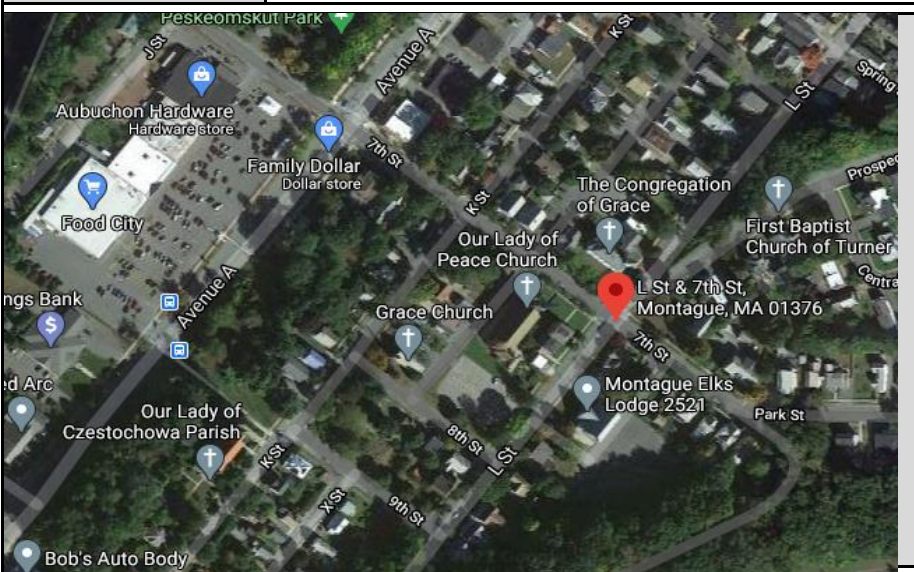


# Site I.D.

## 7th\_L\_CSO

|                          |                        |
|--------------------------|------------------------|
| Site Address / Location: | 7TH STREET AT L STREET |
| Site Access:             | Drive- Detailed needed |

|                   |             |
|-------------------|-------------|
| Monitor Series    | TRITON+     |
| Pipe Size (H x W) | 14.25x14.25 |
| Location Type     | Permanent   |
| Pipe Shape        | Circular    |



|                        |             |
|------------------------|-------------|
| Manhole #              | N/A         |
| System Characteristics | Residential |
| Access                 | Traffic     |
| Drive                  | Light       |



### Installation Information

|                                |                             |                             |                                 |
|--------------------------------|-----------------------------|-----------------------------|---------------------------------|
| Installation Date:             | Thursday, February 11, 2021 | Installation Type:          | Doppler Standard Ring and Crank |
| Monitoring Location (Sensors): |                             | Monitor Location:           | Manhole                         |
| Sensors / Devices:             | Peak Combo (CS4)            | Pressure Sensor Range (psi) |                                 |

### Installation Confirmation:

|                                 |             |                             |             |
|---------------------------------|-------------|-----------------------------|-------------|
| Confirmation Time:              | 11:41:00 AM | Pipe Size (HxW)             | 14.25x14.25 |
| Depth of Flow (Wet DOF) (in)    | 1.5         | Range (Air DOF) (in)        |             |
| Downlooker Physical Offset (in) |             | Measurement Confidence (in) | 0.25"       |
| Peak Velocity (fps)             | 2.5         | Velocity Sensor Offset (in) | N/A         |
| Silt (in)                       | 0           | Silt Type                   | N/A         |

Hydraulic Comments:  
Slow

### Manhole / Pipe Information:

|                               |           |                             |               |
|-------------------------------|-----------|-----------------------------|---------------|
| Manhole Depth (Approx. FT):   | 6         | Manhole Configuration       | Common Trench |
| Manhole Material:             | Concrete  | Manhole Condition:          | Good          |
| Manhole Opening Diameter (in) | 24        | Manhole Diameter (Approx.): | 24            |
| Manhole Cover                 | Concealed | Manhole Frame               | Normal        |
| Active Drop Connections       | No        | Air Quality:                | Good          |
| Pipe Material                 | PVC       | Pipe Condition:             | Good          |

### Communication Information:

|                    |          |                  |                             |
|--------------------|----------|------------------|-----------------------------|
| Communication Type | Wireless | Antenna Location | Drilled Pavement / Concrete |
|--------------------|----------|------------------|-----------------------------|

### Additional Site Info. / Comments:

N. 42.60349 W. -72.55722 S / N: 64109 I/P: 166.219.169.91 Site Overflows at Depth of 8.0 Inches



|                     |              |
|---------------------|--------------|
| ADS Project Name:   | Montague, MA |
| ADS Project Number: |              |

# HYDROGRAPH REPORT

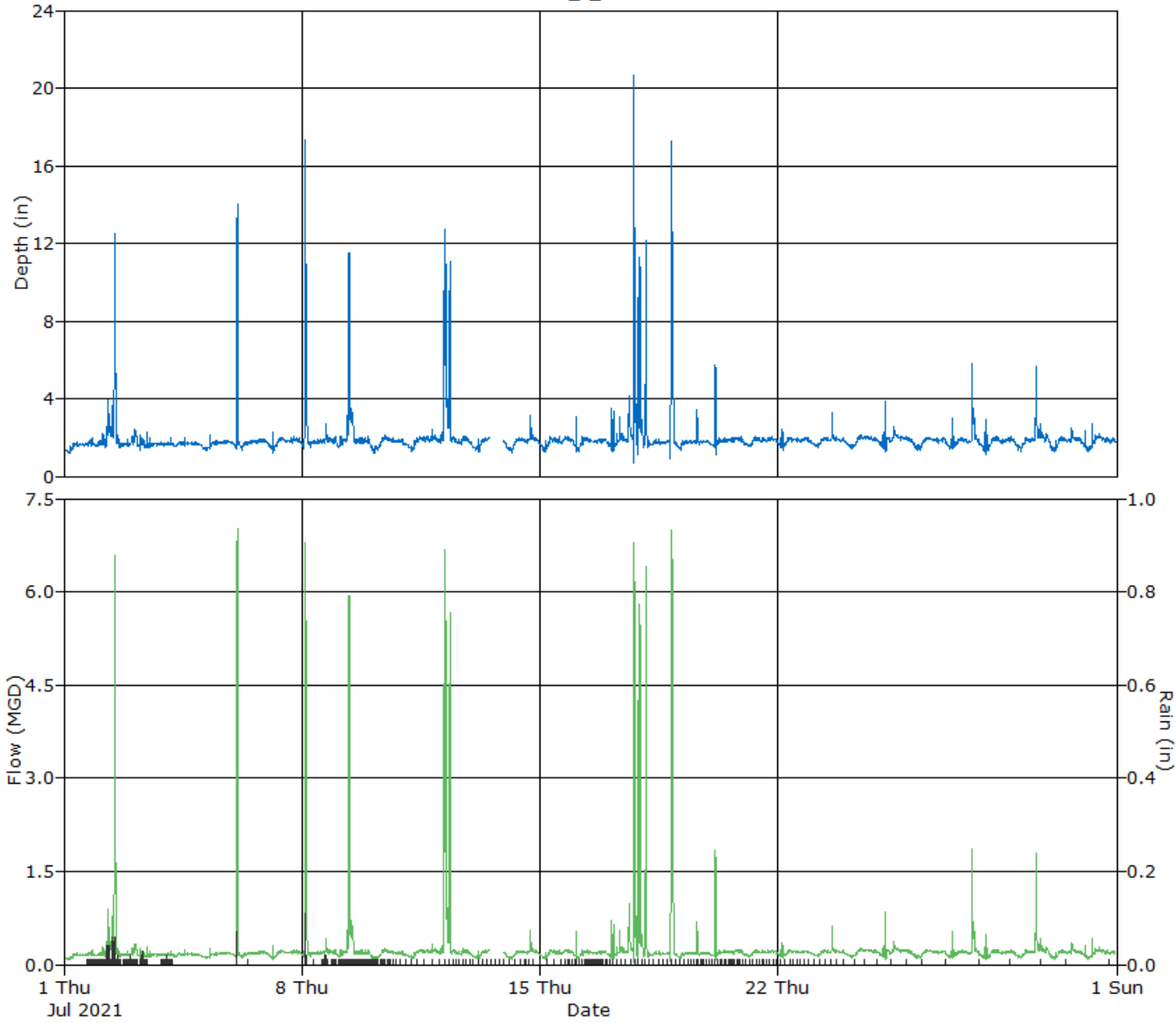
7th\_L\_CSO

Flow Monitor  
**7th\_L\_CSO**

Pipe Height  
14.25 in

Report Period  
7/1/2021  
To  
7/31/2021

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 |
| 07/01/2021 | 04:05      | 1.18 | 20:15 | 1.98  | 1.56 |       | 04:05                     | 0.079 | 20:15 | 0.226 | 0.141 | 0.141 |           |     |      |     |     | 0.25  |
| 07/02/2021 | 15:20      | 1.50 | 11:50 | 12.51 | 2.22 |       | 15:20                     | 0.128 | 11:50 | 6.584 | 0.382 | 0.382 |           |     |      |     |     | 1.96  |
| 07/03/2021 | 05:55      | 1.33 | 02:20 | 2.41  | 1.71 |       | 05:55                     | 0.101 | 02:20 | 0.336 | 0.170 | 0.170 |           |     |      |     |     | 0.48  |
| 07/04/2021 | 05:45      | 1.52 | 13:05 | 1.98  | 1.66 |       | 05:45                     | 0.132 | 13:05 | 0.226 | 0.159 | 0.159 |           |     |      |     |     | 0.21  |
| 07/05/2021 | 05:20      | 1.33 | 07:00 | 2.13  | 1.65 |       | 05:20                     | 0.101 | 07:00 | 0.262 | 0.158 | 0.158 |           |     |      |     |     |       |
| 07/06/2021 | 05:55      | 1.37 | 02:35 | 14.04 | 1.88 |       | 05:55                     | 0.106 | 02:35 | 7.026 | 0.257 | 0.257 |           |     |      |     |     | 0.11  |
| 07/07/2021 | 03:35      | 1.20 | 03:45 | 2.26  | 1.77 |       | 03:35                     | 0.082 | 03:45 | 0.295 | 0.183 | 0.183 |           |     |      |     |     |       |
| 07/08/2021 | 01:25      | 1.43 | 02:40 | 17.35 | 2.16 |       | 01:25                     | 0.117 | 02:35 | 6.792 | 0.362 | 0.362 |           |     |      |     |     | 0.91  |
| 07/09/2021 | 02:25      | 1.50 | 09:35 | 11.50 | 2.19 |       | 02:25                     | 0.128 | 09:35 | 5.944 | 0.361 | 0.361 |           |     |      |     |     | 0.66  |
| 07/10/2021 | 03:25      | 1.19 | 11:05 | 2.14  | 1.73 |       | 03:25                     | 0.081 | 11:05 | 0.264 | 0.175 | 0.175 |           |     |      |     |     | 0.17  |
| 07/11/2021 | 06:00      | 1.28 | 20:35 | 2.40  | 1.79 |       | 06:00                     | 0.093 | 20:35 | 0.333 | 0.188 | 0.188 |           |     |      |     |     | 0.05  |
| 07/12/2021 | 16:45      | 1.63 | 04:50 | 12.71 | 2.68 |       | 16:45                     | 0.153 | 04:50 | 6.683 | 0.608 | 0.608 |           |     |      |     |     | 0.09  |
| 07/13/2021 | 05:25      | 1.29 | 12:00 | 2.00  | 1.67 |       | 05:25                     | 0.094 | 12:00 | 0.232 | 0.161 | 0.091 |           |     |      |     |     | 0.08  |
| 07/14/2021 | 04:30      | 1.21 | 17:25 | 3.13  | 1.79 |       | 04:30                     | 0.084 | 17:25 | 0.562 | 0.188 | 0.188 |           |     |      |     |     | 0.07  |
| 07/15/2021 | 04:05      | 1.24 | 18:40 | 2.05  | 1.76 |       | 04:05                     | 0.087 | 18:40 | 0.243 | 0.181 | 0.181 |           |     |      |     |     | 0.08  |
| 07/16/2021 | 02:15      | 1.26 | 02:10 | 3.03  | 1.76 |       | 02:15                     | 0.090 | 02:10 | 0.527 | 0.180 | 0.180 |           |     |      |     |     | 0.19  |
| 07/17/2021 | 18:30      | 0.66 | 18:50 | 20.64 | 2.78 |       | 18:30                     | 0.024 | 18:50 | 6.792 | 0.628 | 0.628 |           |     |      |     |     | 0.09  |
| 07/18/2021 | 20:05      | 0.93 | 21:30 | 17.28 | 2.68 |       | 20:05                     | 0.048 | 21:45 | 7.001 | 0.665 | 0.665 |           |     |      |     |     | 0.08  |
| 07/19/2021 | 04:15      | 1.33 | 15:25 | 3.43  | 1.74 |       | 04:15                     | 0.101 | 15:25 | 0.677 | 0.178 | 0.178 |           |     |      |     |     | 0.12  |
| 07/20/2021 | 05:00      | 1.13 | 04:15 | 5.74  | 1.90 |       | 05:00                     | 0.072 | 04:15 | 1.830 | 0.225 | 0.225 |           |     |      |     |     | 0.17  |
| 07/21/2021 | 04:45      | 1.53 | 08:50 | 2.02  | 1.82 |       | 04:45                     | 0.134 | 08:50 | 0.237 | 0.192 | 0.192 |           |     |      |     |     | 0.11  |
| 07/22/2021 | 03:55      | 1.35 | 02:55 | 2.43  | 1.81 |       | 03:55                     | 0.104 | 02:55 | 0.341 | 0.190 | 0.190 |           |     |      |     |     | 0.08  |
| 07/23/2021 | 04:50      | 1.45 | 14:35 | 3.29  | 1.83 |       | 04:50                     | 0.120 | 14:35 | 0.620 | 0.196 | 0.196 |           |     |      |     |     | 0.06  |
| 07/24/2021 | 04:20      | 1.39 | 11:10 | 2.15  | 1.84 |       | 04:20                     | 0.110 | 11:10 | 0.267 | 0.196 | 0.196 |           |     |      |     |     | 0.03  |
| 07/25/2021 | 04:50      | 1.23 | 04:45 | 3.85  | 1.90 |       | 04:50                     | 0.087 | 04:45 | 0.848 | 0.211 | 0.211 |           |     |      |     |     | 0.02  |
| 07/26/2021 | 02:50      | 1.32 | 12:05 | 2.01  | 1.78 |       | 02:50                     | 0.099 | 12:05 | 0.234 | 0.184 | 0.184 |           |     |      |     |     | 0.02  |
| 07/27/2021 | 04:05      | 1.38 | 17:50 | 5.79  | 1.91 |       | 04:05                     | 0.109 | 17:50 | 1.865 | 0.230 | 0.230 |           |     |      |     |     | 0.01  |
| 07/28/2021 | 03:25      | 1.13 | 03:40 | 2.93  | 1.77 |       | 03:25                     | 0.072 | 03:40 | 0.492 | 0.183 | 0.183 |           |     |      |     |     | 0.01  |
| 07/29/2021 | 04:25      | 1.28 | 15:15 | 5.68  | 1.93 |       | 04:25                     | 0.092 | 15:15 | 1.796 | 0.228 | 0.228 |           |     |      |     |     | 0.01  |
| 07/30/2021 | 04:05      | 1.24 | 16:20 | 2.46  | 1.78 |       | 04:05                     | 0.087 | 16:20 | 0.349 | 0.186 | 0.186 |           |     |      |     |     | 0.01  |
| 07/31/2021 | 03:45      | 1.23 | 06:50 | 2.68  | 1.77 |       | 03:45                     | 0.086 | 06:50 | 0.414 | 0.182 | 0.182 |           |     |      |     |     | 0.01  |

## Report Summary For The Period 07/01/2021 - 07/31/2021

|       | Depth (in) | Quantity (MGD - Total MG) | Rain (in) |
|-------|------------|---------------------------|-----------|
| Total |            | 7.659                     | 6.14      |
| Avg   | 1.92       | 0.251                     |           |

## 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 Thursday, July 1, 2021 to Saturday, July 31, 2021 .

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

Three (3) overflow event occurred during the monitoring period.

### Observations

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

| Observed Flow Conditions |                   |                   |
|--------------------------|-------------------|-------------------|
| Item                     | Depth (in)        | Quantity (MGD)    |
| Average                  | 4.38              | 1.651             |
| Minimum                  | 2.52              | 0.503             |
| Maximum                  | 57.34             | 20.520            |
| Time of Minimum          | 7/29/2021 2:50 AM | 7/29/2021 2:50 AM |
| Time of Maximum          | 7/17/2021 7:00 PM | 7/17/2021 6:45 PM |

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 Thursday, July 1, 2021 to the Saturday, July 31, 2021 monitoring period is provided in the table below.

| Percent Uptime |     |
|----------------|-----|
| Depth (in)     | 100 |



## July Overflow Report

| <b>Ave_A_CSO</b> | <b>Total</b> | <b>Duration</b> | <b>Start</b>  | <b>Stop</b>   | <b>Rain</b> |
|------------------|--------------|-----------------|---------------|---------------|-------------|
| <b>W1</b>        | 3,998        | 0:10:00         | 7/8/21 2:35   | 7/8/21 2:45   | 0.91        |
| <b>W2</b>        | 98,588       | 0:25:00         | 7/17/21 18:50 | 7/17/21 19:15 | 0.09        |
| <b>W3</b>        | 61,620       | 0:40:00         | 7/18/21 21:15 | 7/18/21 21:55 | 0.08        |

|              | <b>Gals.</b>   | <b>Hrs.</b>    | <b>Rain</b> |
|--------------|----------------|----------------|-------------|
| <b>Total</b> | <b>164,206</b> | <b>1:15:00</b> | <b>1.08</b> |

# Montague, MA

## Flow Monitoring Site Installation Report



### Site I.D.

## Ave\_A\_CSO

|                          |                        |                   |       |               |           |
|--------------------------|------------------------|-------------------|-------|---------------|-----------|
| Site Address / Location: | 250 Avenue A           | Monitor Series    | ECHO  | Location Type | Permanent |
| Site Access:             | Drive- Detailed needed | Pipe Size (H x W) | 21x21 | Pipe Shape    | Circular  |



|           |       |                        |             |
|-----------|-------|------------------------|-------------|
| Manhole # | N/A   | System Characteristics | Residential |
| Access    | Drive |                        | Traffic     |
|           |       |                        | Light       |



| Installation Information       |                             |
|--------------------------------|-----------------------------|
| Installation Date:             | Thursday, February 11, 2021 |
| Installation Type:             | Level Only                  |
| Monitoring Location (Sensors): | Manhole                     |
| Sensors / Devices:             | Peak Combo (CS4)            |
|                                | Pressure Sensor Range (psi) |

| Installation Confirmation:      |                             |
|---------------------------------|-----------------------------|
| Confirmation Time:              | 11:15:00 AM                 |
| Pipe Size (HxW)                 | 21x21                       |
| Depth of Flow (Wet DOF) (in)    | 0.5                         |
| Range (Air DOF) (in)            |                             |
| Downlooker Physical Offset (in) | Measurement Confidence (in) |
|                                 | 0.25"                       |
| Peak Velocity (fps)             | Velocity Sensor Offset (in) |
|                                 | N/A                         |
| Silt (in)                       | Silt Type                   |
| 0                               | N/A                         |

Hydraulic Comments:  
Slow

| Manhole / Pipe Information:   |               |
|-------------------------------|---------------|
| Manhole Depth (Approx. FT):   | 10.75         |
| Manhole Configuration         | Common Trench |
| Manhole Material:             | Concrete      |
| Manhole Condition:            | Good          |
| Manhole Opening Diameter (in) | 24            |
| Manhole Diameter (Approx.):   | 24            |
| Manhole Cover                 | Concealed     |
| Manhole Frame                 | Normal        |
| Active Drop Connections       | No            |
| Air Quality:                  | Good          |
| Pipe Material                 | PVC           |
| Pipe Condition:               | Good          |

| Communication Information: |                             |
|----------------------------|-----------------------------|
| Communication Type         | Wireless                    |
| Antenna Location           | Drilled Pavement / Concrete |

**Additional Site Info. / Comments:**  
N. 42.60422 W. -72.56094 S /N: 1729 I/P: 107.80.17.199 Site Overflows at Depth of 27.0 Inches



|                     |              |
|---------------------|--------------|
| ADS Project Name:   | Montague, MA |
| ADS Project Number: |              |

# HYDROGRAPH REPORT

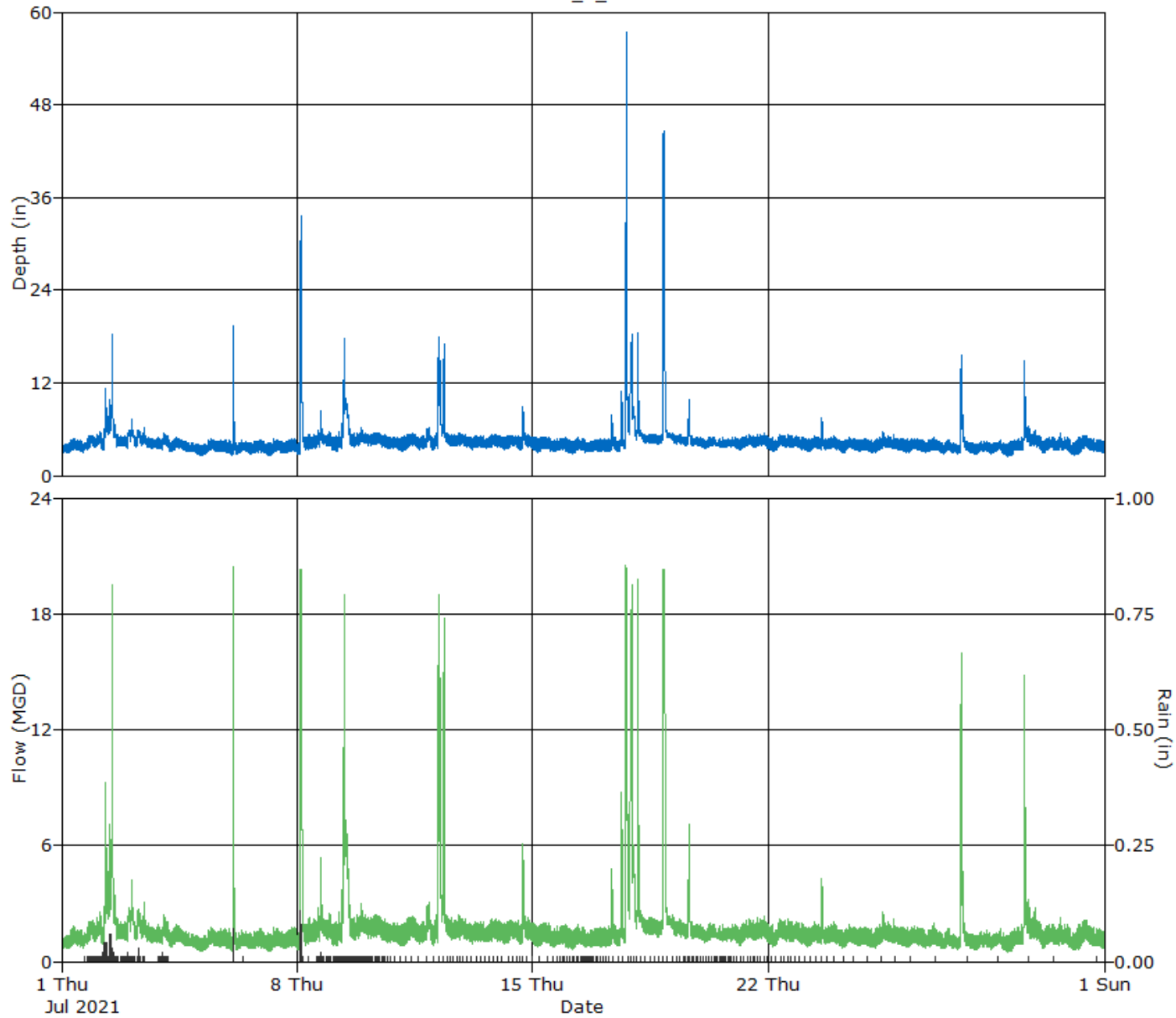
Ave\_A\_CSO

Flow Monitor  
**Ave\_A\_CSO**

Pipe Height  
21.00 in

Report Period  
7/1/2021  
To  
7/31/2021

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 |      |
| 07/01/2021 | 03:50      | 2.93 | 22:35 | 5.17  | 3.84 |                           | 03:50 | 0.680 | 22:35 | 2.108  | 1.191 | 1.191     |      |     |      |     |     |       | 0.25 |
| 07/02/2021 | 05:50      | 3.28 | 11:50 | 18.24 | 5.56 |                           | 05:50 | 0.854 | 11:50 | 19.460 | 2.690 | 2.690     |      |     |      |     |     |       | 1.96 |
| 07/03/2021 | 23:45      | 3.30 | 02:15 | 7.38  | 4.55 |                           | 23:45 | 0.868 | 02:15 | 4.215  | 1.673 | 1.673     |      |     |      |     |     |       | 0.48 |
| 07/04/2021 | 23:45      | 3.02 | 01:10 | 5.50  | 3.81 |                           | 23:45 | 0.725 | 01:10 | 2.379  | 1.176 | 1.176     |      |     |      |     |     |       | 0.21 |
| 07/05/2021 | 04:05      | 2.65 | 10:50 | 4.75  | 3.39 |                           | 04:05 | 0.556 | 10:50 | 1.783  | 0.932 | 0.932     |      |     |      |     |     |       |      |
| 07/06/2021 | 01:55      | 2.62 | 02:30 | 19.32 | 3.85 |                           | 01:55 | 0.542 | 02:30 | 20.452 | 1.389 | 1.389     |      |     |      |     |     |       | 0.11 |
| 07/07/2021 | 02:55      | 2.55 | 20:35 | 4.76  | 3.49 |                           | 02:55 | 0.513 | 20:35 | 1.791  | 0.986 | 0.986     |      |     |      |     |     |       |      |
| 07/08/2021 | 00:55      | 2.77 | 02:40 | 33.62 | 5.14 |                           | 00:55 | 0.610 | 02:35 | 20.294 | 2.290 | 2.290     |      |     |      |     |     |       | 0.91 |
| 07/09/2021 | 04:30      | 3.18 | 09:40 | 17.82 | 5.44 |                           | 04:30 | 0.807 | 09:40 | 18.967 | 2.636 | 2.636     |      |     |      |     |     |       | 0.66 |
| 07/10/2021 | 16:45      | 3.50 | 08:35 | 5.58  | 4.52 |                           | 16:45 | 0.976 | 08:35 | 2.446  | 1.641 | 1.641     |      |     |      |     |     |       | 0.17 |
| 07/11/2021 | 03:45      | 3.22 | 22:35 | 6.26  | 4.33 |                           | 03:45 | 0.827 | 22:35 | 3.066  | 1.514 | 1.514     |      |     |      |     |     |       | 0.05 |
| 07/12/2021 | 01:45      | 3.29 | 04:55 | 17.84 | 5.61 |                           | 01:45 | 0.860 | 04:55 | 18.997 | 2.893 | 2.893     |      |     |      |     |     |       | 0.09 |
| 07/13/2021 | 05:00      | 3.41 | 21:40 | 5.30  | 4.38 |                           | 05:00 | 0.923 | 21:40 | 2.214  | 1.538 | 1.538     |      |     |      |     |     |       | 0.08 |
| 07/14/2021 | 04:20      | 3.33 | 17:20 | 8.93  | 4.57 |                           | 04:20 | 0.882 | 17:20 | 6.058  | 1.688 | 1.688     |      |     |      |     |     |       | 0.07 |
| 07/15/2021 | 03:25      | 3.05 | 08:55 | 5.04  | 3.92 |                           | 03:25 | 0.738 | 08:55 | 2.006  | 1.244 | 1.244     |      |     |      |     |     |       | 0.08 |
| 07/16/2021 | 04:05      | 2.85 | 08:15 | 4.89  | 3.73 |                           | 04:05 | 0.644 | 08:15 | 1.889  | 1.127 | 1.127     |      |     |      |     |     |       | 0.19 |
| 07/17/2021 | 00:35      | 3.11 | 19:00 | 57.34 | 6.39 |                           | 00:35 | 0.770 | 18:45 | 20.520 | 3.371 | 3.371     |      |     |      |     |     |       | 0.09 |
| 07/18/2021 | 17:15      | 3.98 | 21:35 | 44.53 | 7.10 |                           | 17:15 | 1.255 | 21:10 | 20.294 | 3.902 | 3.902     |      |     |      |     |     |       | 0.08 |
| 07/19/2021 | 18:35      | 3.82 | 15:40 | 9.74  | 4.72 |                           | 18:35 | 1.155 | 15:40 | 7.105  | 1.797 | 1.797     |      |     |      |     |     |       | 0.12 |
| 07/20/2021 | 03:10      | 3.55 | 06:45 | 5.02  | 4.02 |                           | 03:10 | 1.004 | 06:45 | 1.992  | 1.289 | 1.289     |      |     |      |     |     |       | 0.17 |
| 07/21/2021 | 04:00      | 3.26 | 21:00 | 5.43  | 4.15 |                           | 04:00 | 0.845 | 21:00 | 2.321  | 1.381 | 1.381     |      |     |      |     |     |       | 0.11 |
| 07/22/2021 | 03:00      | 3.15 | 08:05 | 5.32  | 4.16 |                           | 03:00 | 0.791 | 08:05 | 2.228  | 1.391 | 1.391     |      |     |      |     |     |       | 0.08 |
| 07/23/2021 | 04:30      | 3.10 | 14:30 | 7.46  | 4.09 |                           | 04:30 | 0.764 | 14:30 | 4.303  | 1.351 | 1.351     |      |     |      |     |     |       | 0.06 |
| 07/24/2021 | 04:50      | 2.98 | 00:20 | 4.95  | 3.81 |                           | 04:50 | 0.708 | 00:20 | 1.938  | 1.172 | 1.172     |      |     |      |     |     |       | 0.03 |
| 07/25/2021 | 04:55      | 2.96 | 10:10 | 5.69  | 4.00 |                           | 04:55 | 0.695 | 10:10 | 2.550  | 1.291 | 1.291     |      |     |      |     |     |       | 0.02 |
| 07/26/2021 | 16:05      | 3.01 | 22:55 | 5.02  | 3.83 |                           | 16:05 | 0.719 | 22:55 | 1.990  | 1.183 | 1.183     |      |     |      |     |     |       | 0.02 |
| 07/27/2021 | 15:45      | 2.80 | 17:50 | 15.66 | 4.06 |                           | 15:45 | 0.623 | 17:50 | 15.949 | 1.488 | 1.488     |      |     |      |     |     |       | 0.01 |
| 07/28/2021 | 04:55      | 2.73 | 22:00 | 4.59  | 3.52 |                           | 04:55 | 0.593 | 22:00 | 1.666  | 1.000 | 1.000     |      |     |      |     |     |       | 0.01 |
| 07/29/2021 | 02:50      | 2.52 | 15:15 | 14.93 | 4.36 |                           | 02:50 | 0.503 | 15:15 | 14.825 | 1.664 | 1.664     |      |     |      |     |     |       | 0.01 |
| 07/30/2021 | 04:35      | 2.97 | 16:30 | 5.41  | 3.87 |                           | 04:35 | 0.702 | 16:30 | 2.306  | 1.207 | 1.207     |      |     |      |     |     |       | 0.01 |
| 07/31/2021 | 03:10      | 2.70 | 11:15 | 5.22  | 3.67 |                           | 03:10 | 0.578 | 11:15 | 2.151  | 1.095 | 1.094     |      |     |      |     |     |       | 0.01 |

## Report Summary For The Period 07/01/2021 - 07/31/2021

|       | Depth (in) | Quantity (MGD - Total MG) | Rain (in) |
|-------|------------|---------------------------|-----------|
| Total |            | 51.190                    | 6.14      |
| Avg   | 4.38       | 1.651                     |           |

## Site Commentary

### Site Information

|                      |                       |
|----------------------|-----------------------|
| <b>Greenfield_M1</b> |                       |
| Location:            | Greenfield Road - CSO |

### Overview

The [hydrograph](#) for location Greenfield\_M1 shows depth levels and calculated flow values recorded during the monitoring period of Thursday, July 1, 2021 to Saturday, July 31, 2021 .

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

Five (5) overflow event occurred during the monitoring period.

### Observations

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

| <b>Observed Flow Conditions</b> |                   |                   |
|---------------------------------|-------------------|-------------------|
| Item                            | Depth (in)        | Quantity (MGD)    |
| Average                         | 5.60              | 0.706             |
| Minimum                         | 1.61              | 0.055             |
| Maximum                         | 44.09             | 6.688             |
| Time of Minimum                 | 7/18/2021 7:30 PM | 7/18/2021 7:30 PM |
| Time of Maximum                 | 7/12/2021 5:40 AM | 7/17/2021 7:30 PM |

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 Thursday, July 1, 2021 to the Saturday, July 31, 2021 monitoring period is provided in the table below.

| <b>Percent Uptime</b> |    |
|-----------------------|----|
| Depth (in)            | 79 |

Uptime Comments: Low meter battery caused downtime from 7/27 - 7/31.

## July Overflow Report

| <b>GFLD_CSO</b> | <b>Total</b> | <b>Duration</b> | <b>Start</b>  | <b>Stop</b>  | <b>Rain</b> |
|-----------------|--------------|-----------------|---------------|--------------|-------------|
| <b>W1</b>       | 3,639        | 0:34:00         | 7/2/21 12:30  | 7/2/21 13:04 | 0.23        |
| <b>W2</b>       | 563          | 0:25:00         | 7/8/21 3:25   | 7/8/21 3:50  | 0.91        |
| <b>W3</b>       | 334          | 0:20:00         | 7/9/21 10:20  | 7/9/21 10:40 | 0.66        |
| <b>W4</b>       | 7,552        | 1:11:00         | 7/12/21 5:34  | 7/12/21 6:45 | 0.09        |
| <b>W5</b>       | 2,019        | 4:35:00         | 7/17/21 19:25 | 7/18/21 0:00 | 0.09        |

|              | <b>Gals.</b>  | <b>Hrs.</b>    | <b>Rain</b> |
|--------------|---------------|----------------|-------------|
| <b>Total</b> | <b>14,106</b> | <b>7:05:00</b> | <b>1.98</b> |

# Montague, MA

## Flow Monitoring Site Installation Report



### Site I.D.

## Greenfield\_M1

|                          |                       |                   |               |
|--------------------------|-----------------------|-------------------|---------------|
| Site Address / Location: | GREENFIELD ROAD - CSO | Monitor Series    | Location Type |
| Site Access:             | Drive                 | TRITON+           | Permanent     |
|                          |                       | Pipe Size (H x W) | Pipe Shape    |
|                          |                       | 36x36             | Circular      |



|           |                        |
|-----------|------------------------|
| Manhole # | System Characteristics |
| N/A       | Residential            |
| Access    | Traffic                |
| Drive     | Light                  |



### Installation Information

|                                |                                 |
|--------------------------------|---------------------------------|
| Installation Date:             | Installation Type:              |
| Thursday, February 11, 2021    | Doppler Standard Ring and Crank |
| Monitoring Location (Sensors): | Monitor Location:               |
|                                | Manhole                         |
| Sensors / Devices:             | Pressure Sensor Range (psi)     |
| Peak Combo (CS4)               |                                 |

### Installation Confirmation:

|                                 |                             |
|---------------------------------|-----------------------------|
| Confirmation Time:              | Pipe Size (HxW)             |
| 10:21:00 AM                     | 36x36                       |
| Depth of Flow (Wet DOF) (in)    | Range (Air DOF) (in)        |
| 4.63                            |                             |
| Downlooker Physical Offset (in) | Measurement Confidence (in) |
|                                 | 0.25"                       |
| Peak Velocity (fps)             | Velocity Sensor Offset (in) |
| 2.5                             | N/A                         |
| Silt (in)                       | Silt Type                   |
| 0                               | N/A                         |

### Hydraulic Comments:

Slow

### Manhole / Pipe Information:

|                               |                             |
|-------------------------------|-----------------------------|
| Manhole Depth (Approx. FT):   | Manhole Configuration       |
| 14                            | Common Trench               |
| Manhole Material:             | Manhole Condition:          |
| Concrete                      | Good                        |
| Manhole Opening Diameter (in) | Manhole Diameter (Approx.): |
| 24                            | 24                          |
| Manhole Cover                 | Manhole Frame               |
| Concealed                     | Normal                      |
| Active Drop Connections       | Air Quality:                |
| No                            | Good                        |
| Pipe Material                 | Pipe Condition:             |
| Concrete                      | Good                        |

### Communication Information:

|                    |                             |
|--------------------|-----------------------------|
| Communication Type | Antenna Location            |
| Wireless           | Drilled Pavement / Concrete |

### Additional Site Info. / Comments:

N. 42.58211 W. -72.57486 S / N: 52143 I/P: 107.80.17.22 Site Overflows at Depth of 42.0 Inches

|                     |              |
|---------------------|--------------|
| ADS Project Name:   | Montague, MA |
| ADS Project Number: |              |

# HYDROGRAPH REPORT

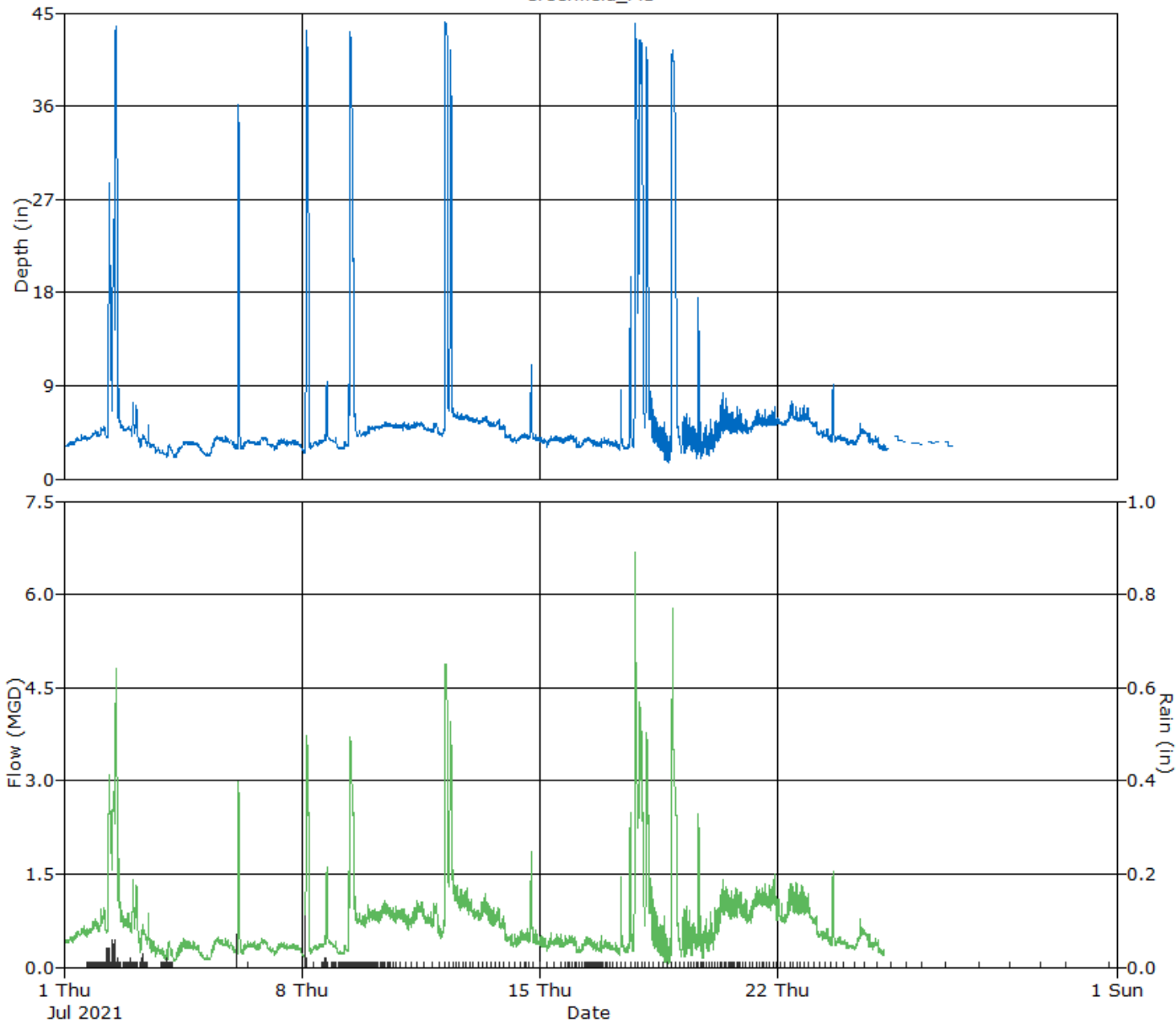
Greenfield\_M1

Flow Monitor  
**Greenfield\_M1**

Pipe Height  
36.00 in

Report Period  
7/1/2021  
To  
7/31/2021

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 |
| 07/01/2021 | 00:20      | 3.11 | 22:40 | 4.64  | 3.78  |       | 00:15                     | 0.375 | 22:40 | 0.768 | 0.530 | 0.530 |           |     |      |     |     | 0.25  |
| 07/02/2021 | 06:15      | 4.01 | 12:36 | 43.82 | 9.67  |       | 06:10                     | 0.550 | 12:42 | 4.874 | 1.310 | 1.310 |           |     |      |     |     | 1.96  |
| 07/03/2021 | 23:30      | 2.31 | 00:50 | 7.41  | 3.58  |       | 23:30                     | 0.134 | 00:50 | 1.417 | 0.472 | 0.472 |           |     |      |     |     | 0.48  |
| 07/04/2021 | 07:40      | 2.08 | 12:55 | 3.63  | 3.04  |       | 00:40                     | 0.111 | 12:55 | 0.464 | 0.277 | 0.277 |           |     |      |     |     | 0.21  |
| 07/05/2021 | 05:45      | 2.25 | 12:15 | 4.14  | 3.27  |       | 05:45                     | 0.127 | 13:15 | 0.475 | 0.296 | 0.296 |           |     |      |     |     |       |
| 07/06/2021 | 05:55      | 2.85 | 03:20 | 36.19 | 4.77  |       | 05:55                     | 0.211 | 03:20 | 2.987 | 0.448 | 0.448 |           |     |      |     |     | 0.11  |
| 07/07/2021 | 04:35      | 2.76 | 10:05 | 3.86  | 3.35  |       | 04:35                     | 0.198 | 10:05 | 0.402 | 0.301 | 0.301 |           |     |      |     |     |       |
| 07/08/2021 | 02:00      | 2.45 | 03:30 | 43.36 | 6.52  |       | 02:00                     | 0.152 | 03:30 | 3.733 | 0.617 | 0.617 |           |     |      |     |     | 0.91  |
| 07/09/2021 | 03:30      | 2.84 | 10:25 | 43.17 | 7.93  |       | 03:30                     | 0.211 | 10:25 | 3.716 | 0.917 | 0.917 |           |     |      |     |     | 0.66  |
| 07/10/2021 | 03:55      | 4.69 | 12:10 | 5.43  | 5.04  |       | 07:05                     | 0.705 | 10:40 | 1.065 | 0.853 | 0.853 |           |     |      |     |     | 0.17  |
| 07/11/2021 | 20:50      | 4.54 | 07:15 | 5.49  | 5.03  |       | 03:05                     | 0.601 | 09:50 | 1.062 | 0.818 | 0.818 |           |     |      |     |     | 0.05  |
| 07/12/2021 | 03:10      | 4.19 | 05:40 | 44.09 | 10.52 |       | 01:55                     | 0.469 | 05:50 | 4.942 | 1.463 | 1.463 |           |     |      |     |     | 0.09  |
| 07/13/2021 | 20:30      | 4.73 | 09:40 | 5.99  | 5.39  |       | 20:25                     | 0.610 | 09:40 | 1.174 | 0.819 | 0.819 |           |     |      |     |     | 0.08  |
| 07/14/2021 | 07:55      | 3.49 | 18:15 | 11.00 | 4.09  |       | 07:55                     | 0.326 | 18:15 | 1.861 | 0.465 | 0.465 |           |     |      |     |     | 0.07  |
| 07/15/2021 | 05:25      | 3.07 | 22:25 | 4.23  | 3.77  |       | 05:25                     | 0.249 | 08:20 | 0.550 | 0.392 | 0.392 |           |     |      |     |     | 0.08  |
| 07/16/2021 | 04:45      | 2.98 | 10:55 | 4.02  | 3.52  |       | 04:45                     | 0.233 | 20:05 | 0.516 | 0.338 | 0.338 |           |     |      |     |     | 0.19  |
| 07/17/2021 | 08:40      | 2.73 | 19:30 | 43.99 | 10.30 |       | 08:40                     | 0.193 | 19:30 | 6.688 | 1.056 | 1.056 |           |     |      |     |     | 0.09  |
| 07/18/2021 | 19:30      | 1.61 | 00:00 | 42.43 | 12.18 |       | 19:30                     | 0.055 | 22:10 | 5.779 | 1.259 | 1.259 |           |     |      |     |     | 0.08  |
| 07/19/2021 | 14:45      | 2.01 | 00:00 | 32.18 | 5.13  |       | 19:00                     | 0.145 | 00:00 | 2.627 | 0.632 | 0.632 |           |     |      |     |     | 0.12  |
| 07/20/2021 | 02:40      | 2.58 | 10:15 | 8.34  | 4.94  |       | 02:40                     | 0.282 | 10:15 | 1.399 | 0.869 | 0.869 |           |     |      |     |     | 0.17  |
| 07/21/2021 | 02:55      | 4.41 | 22:00 | 6.96  | 5.29  |       | 02:55                     | 0.709 | 22:00 | 1.502 | 1.016 | 1.016 |           |     |      |     |     | 0.11  |
| 07/22/2021 | 04:55      | 5.14 | 10:25 | 7.51  | 5.80  |       | 04:55                     | 0.719 | 13:15 | 1.368 | 0.931 | 0.931 |           |     |      |     |     | 0.08  |
| 07/23/2021 | 13:45      | 3.62 | 15:30 | 9.15  | 4.38  |       | 13:45                     | 0.351 | 15:30 | 1.551 | 0.528 | 0.528 |           |     |      |     |     | 0.06  |
| 07/24/2021 | 07:10      | 3.25 | 11:05 | 5.38  | 3.86  |       | 07:10                     | 0.280 | 11:05 | 0.788 | 0.407 | 0.407 |           |     |      |     |     | 0.03  |
| 07/25/2021 | 05:05      | 2.74 | 11:15 | 4.15  | 3.11  |       | 03:00                     | 0.195 | 00:35 | 0.300 | 0.245 | 0.042 |           |     |      |     |     | 0.02  |
| 07/26/2021 | 05:15      | 3.25 | 23:15 | 3.61  | 3.49  |       |                           |       |       |       |       |       |           |     |      |     |     | 0.02  |
| 07/27/2021 | 05:15      | 3.18 | 01:25 | 3.22  | 3.20  |       |                           |       |       |       |       |       |           |     |      |     |     | 0.01  |
| 07/28/2021 |            |      |       |       |       |       |                           |       |       |       |       |       |           |     |      |     |     | 0.01  |
| 07/29/2021 |            |      |       |       |       |       |                           |       |       |       |       |       |           |     |      |     |     | 0.01  |
| 07/30/2021 |            |      |       |       |       |       |                           |       |       |       |       |       |           |     |      |     |     | 0.01  |
| 07/31/2021 |            |      |       |       |       |       |                           |       |       |       |       |       |           |     |      |     |     | 0.01  |

## Report Summary For The Period 07/01/2021 - 07/31/2021

|       | Depth (in) | Quantity (MGD - Total MG) | Rain (in) |
|-------|------------|---------------------------|-----------|
| Total |            | 17.055                    | 6.14      |
| Avg   | 5.60       | 0.706                     |           |

## Rainfall data

The rainfall measured at RG1 from July 01, 2021 to July 31, 2021 is 6.14 inches.

| <u>Date / Time</u> | <u>Maximum Rainfall (in.)</u> |
|--------------------|-------------------------------|
| 7/8/2021 2:30 AM   | 0.11                          |

Data Comments: A wasp nest was found in the RG - caused a clog where water pooled and slowly dripped through.

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 ↑

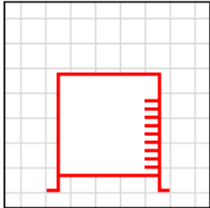
| Installation Information |                           | Backup            | Yes | No | ? | Distance |
|--------------------------|---------------------------|-------------------|-----|----|---|----------|
| Installation Type:       | Rain Gauge                | Trunk             |     | X  |   |          |
| 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

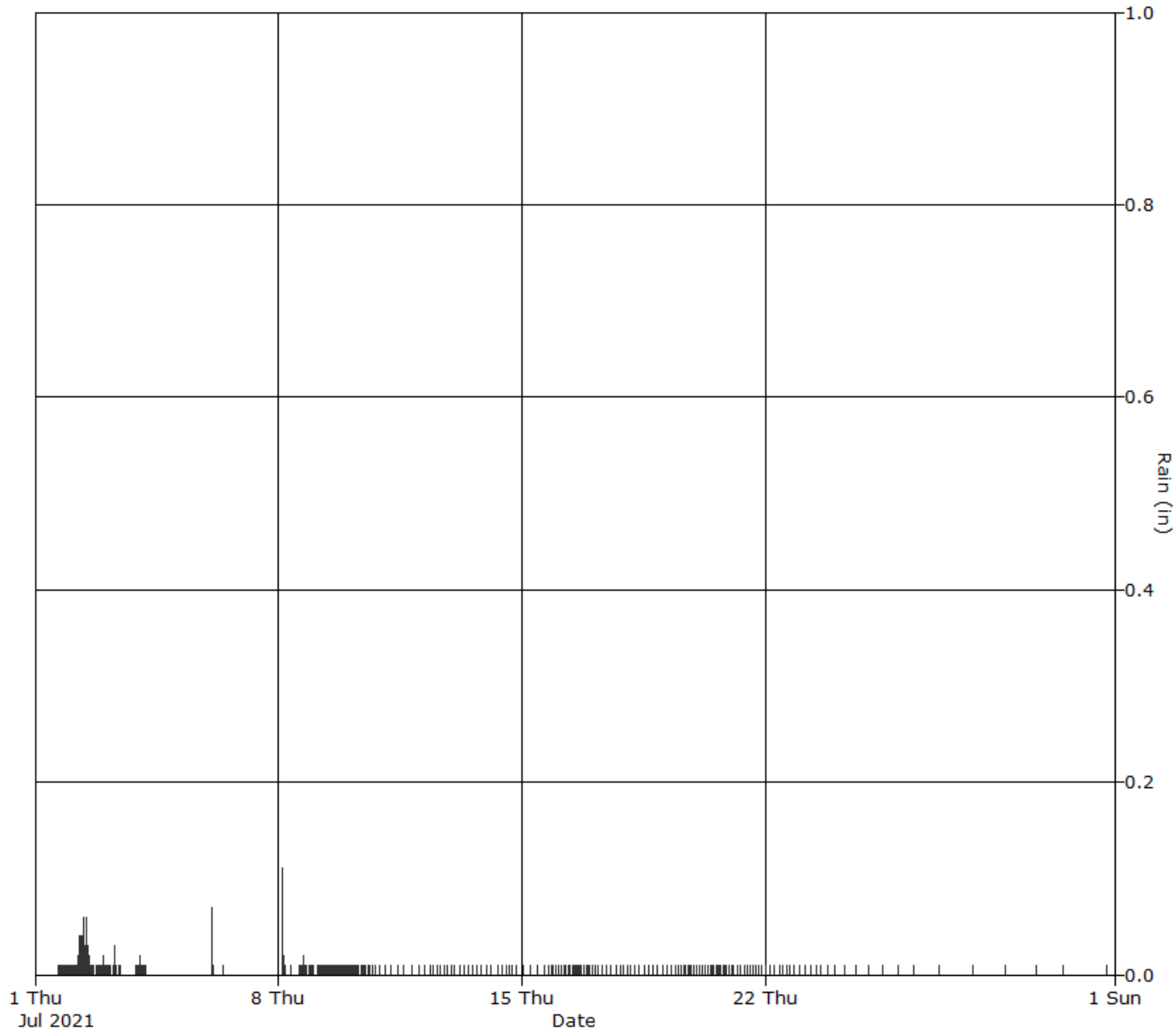
RG1

Rain Gauge  
**RG1**



Report Period  
7/1/2021  
To  
7/31/2021

Legend  
— 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 |      |
| 07/01/2021 |            |     |      |     |     |       |                           |     |      |     |     |       |           |     |      |     |     |       | 0.25 |
| 07/02/2021 |            |     |      |     |     |       |                           |     |      |     |     |       |           |     |      |     |     |       | 1.96 |
| 07/03/2021 |            |     |      |     |     |       |                           |     |      |     |     |       |           |     |      |     |     |       | 0.48 |
| 07/04/2021 |            |     |      |     |     |       |                           |     |      |     |     |       |           |     |      |     |     |       | 0.21 |
| 07/05/2021 |            |     |      |     |     |       |                           |     |      |     |     |       |           |     |      |     |     |       |      |
| 07/06/2021 |            |     |      |     |     |       |                           |     |      |     |     |       |           |     |      |     |     |       | 0.11 |
| 07/07/2021 |            |     |      |     |     |       |                           |     |      |     |     |       |           |     |      |     |     |       |      |
| 07/08/2021 |            |     |      |     |     |       |                           |     |      |     |     |       |           |     |      |     |     |       | 0.91 |
| 07/09/2021 |            |     |      |     |     |       |                           |     |      |     |     |       |           |     |      |     |     |       | 0.66 |
| 07/10/2021 |            |     |      |     |     |       |                           |     |      |     |     |       |           |     |      |     |     |       | 0.17 |
| 07/11/2021 |            |     |      |     |     |       |                           |     |      |     |     |       |           |     |      |     |     |       | 0.05 |
| 07/12/2021 |            |     |      |     |     |       |                           |     |      |     |     |       |           |     |      |     |     |       | 0.09 |
| 07/13/2021 |            |     |      |     |     |       |                           |     |      |     |     |       |           |     |      |     |     |       | 0.08 |
| 07/14/2021 |            |     |      |     |     |       |                           |     |      |     |     |       |           |     |      |     |     |       | 0.07 |
| 07/15/2021 |            |     |      |     |     |       |                           |     |      |     |     |       |           |     |      |     |     |       | 0.08 |
| 07/16/2021 |            |     |      |     |     |       |                           |     |      |     |     |       |           |     |      |     |     |       | 0.19 |
| 07/17/2021 |            |     |      |     |     |       |                           |     |      |     |     |       |           |     |      |     |     |       | 0.09 |
| 07/18/2021 |            |     |      |     |     |       |                           |     |      |     |     |       |           |     |      |     |     |       | 0.08 |
| 07/19/2021 |            |     |      |     |     |       |                           |     |      |     |     |       |           |     |      |     |     |       | 0.12 |
| 07/20/2021 |            |     |      |     |     |       |                           |     |      |     |     |       |           |     |      |     |     |       | 0.17 |
| 07/21/2021 |            |     |      |     |     |       |                           |     |      |     |     |       |           |     |      |     |     |       | 0.11 |
| 07/22/2021 |            |     |      |     |     |       |                           |     |      |     |     |       |           |     |      |     |     |       | 0.08 |
| 07/23/2021 |            |     |      |     |     |       |                           |     |      |     |     |       |           |     |      |     |     |       | 0.06 |
| 07/24/2021 |            |     |      |     |     |       |                           |     |      |     |     |       |           |     |      |     |     |       | 0.03 |
| 07/25/2021 |            |     |      |     |     |       |                           |     |      |     |     |       |           |     |      |     |     |       | 0.02 |
| 07/26/2021 |            |     |      |     |     |       |                           |     |      |     |     |       |           |     |      |     |     |       | 0.02 |
| 07/27/2021 |            |     |      |     |     |       |                           |     |      |     |     |       |           |     |      |     |     |       | 0.01 |
| 07/28/2021 |            |     |      |     |     |       |                           |     |      |     |     |       |           |     |      |     |     |       | 0.01 |
| 07/29/2021 |            |     |      |     |     |       |                           |     |      |     |     |       |           |     |      |     |     |       | 0.01 |
| 07/30/2021 |            |     |      |     |     |       |                           |     |      |     |     |       |           |     |      |     |     |       | 0.01 |
| 07/31/2021 |            |     |      |     |     |       |                           |     |      |     |     |       |           |     |      |     |     |       | 0.01 |

Report Summary For The Period 07/01/2021 - 07/31/2021

|       | Rain (in) |
|-------|-----------|
| Total | 6.14      |
| Avg   |           |