
**Lake Thunderbird TMDL Monitoring Plan Implementation:
Sample Year (SY) 2022- May Report**



SY-2022 Monthly Report

Lake Thunderbird TMDL Monitoring Plan Implementation:

May 2022 Monitoring Report

Oklahoma Water Resources Board
Water Quality Programs Division
Monitoring and Assessment Section
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SUMMARY OF MAY WATER QUALITY SAMPLING

Sampling for May 2022 consisted of three sampling events. The first collection occurred during high flow conditions on the third, where water samples were collected via autosampler at two locations. Mesonet data shows no precipitation on the third, 2.34 inches of precipitation in the 72 hours prior to sampling, and 2.02 inches of precipitation in the 72 hours after the sampling event. The second collection occurred during base flow conditions on the seventeenth. Water samples were collected at nine locations and discharge was measured at seven locations. Samples were not collected at JB-1 due to construction activity. Mesonet shows no precipitation on the seventeenth, in the 72 hours prior to sampling, or in the 72 hours after the sampling event. The third collection also occurred during high flow conditions on the twenty-fourth. Water samples were collected at eight locations, one of which was via autosampler, as well as all seven stormwater outfalls. Discharge measurements were also collected at four locations. Mesonet shows 1.44 inches of precipitation on the twenty-fourth, 0.75 inches of precipitation in the 72 hours prior to sampling, and 0.84 inches of precipitation in the 72 hours after sampling. The total rainfall amount in Norman for the month of May was 7.39 inches. All water level gauges were operational for the month, except for JB-1 due to road construction. The gauge at LT-1 was removed in 2018 as a result of equipment malfunction. The equipment has not been replaced due to intermittent streamflow and dry conditions. Furthermore, this station is being reviewed for a possible location change.

RESULTS

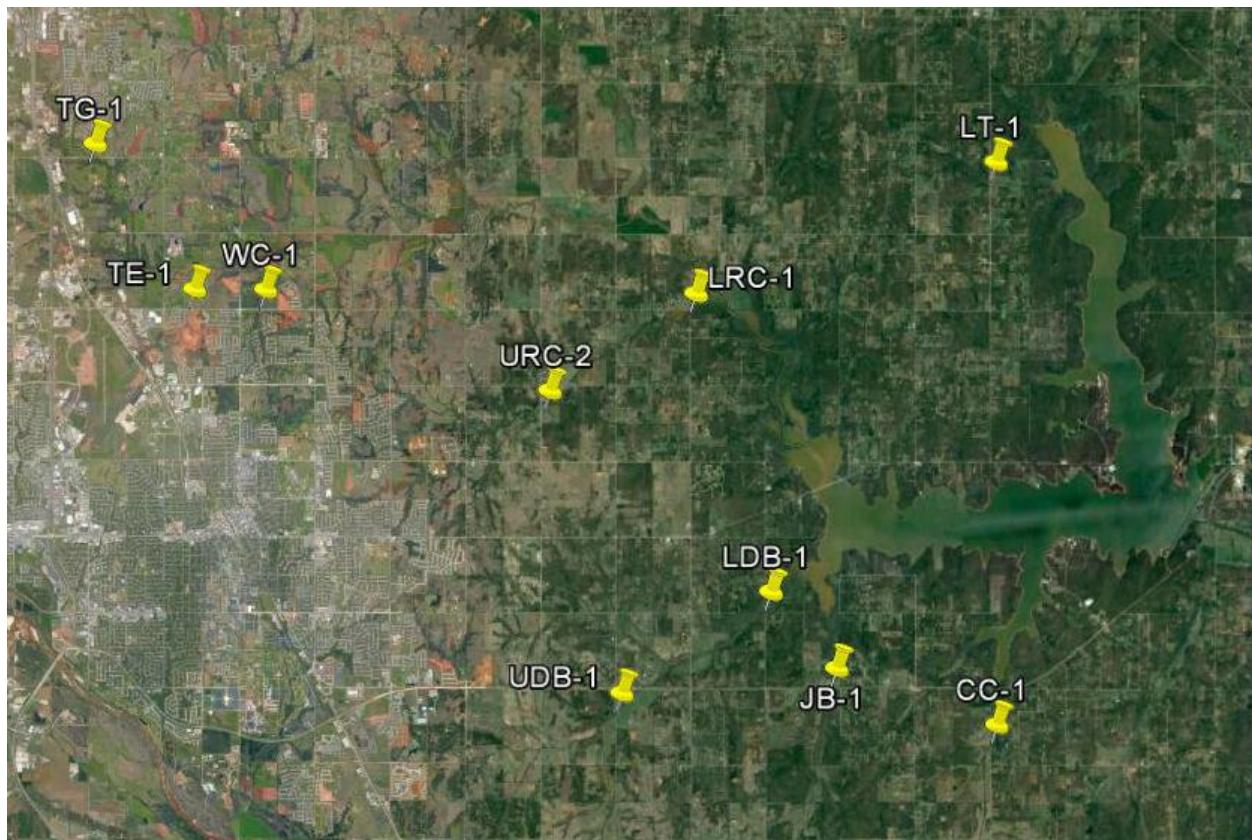


Figure 1 Monitoring Station Map

| Monitoring Location ID | Monitoring Location Name | Date | Time | Field Crew | Water Temperature (°C) | Dissolved Oxygen (DO) (mg/L) | pH | Specific Conductance (mS/cm) | Turbidity (NTU) | Notes |
|------------------------|--------------------------|-----------|-------|------------|------------------------|------------------------------|------|------------------------------|-----------------|---|
| CC-1 | Clear Creek | 5/17/2022 | 11:58 | SD | 22.15 | 8.09 | 7.86 | 689 | 6 | Used RP3, RP4 also over water; DCP not connecting- changed power cords; low/normal conditions |
| JB-1 | Jim Blue Creek | 5/17/2022 | 13:05 | SD | N/A | N/A | N/A | N/A | N/A | Construction ongoing; did not sample. Pool conditions on downstream |
| LDB-1 | Lower Dave Blue Creek | 5/17/2022 | 13:30 | SD | 25.00 | 4.43 | 7.88 | 857 | 64 | One autosampler bottle triggered from 5/5, spilled sample |
| LRC-1 | Lower Rock Creek | 5/17/2022 | 15:30 | SD | 26.36 | 8.38 | 7.94 | 757 | 8 | Solar panel gone, autosampler batteries gone, wires cut, DCP has no power, orifice buried; replaced panel on 5/18 |
| LT-1 | Lake Laterals | 5/17/2022 | 14:52 | SD | 28.50 | 5.96 | 7.74 | 712 | 28 | No visual flow; lots of filamentous, very shallow on upstream |
| TE-1 | Little River Tributary | 5/18/2022 | 11:03 | SD | 24.45 | 5.48 | 7.70 | 1050 | 26 | Orifice was pulled out of water after tapedown, secured back in water- changed DCP/offset |
| TG-1 | Little River | 5/18/2022 | 9:40 | SD | 22.98 | 6.30 | 7.82 | 1169 | 3 | Low/normal conditions |
| UDB-1 | Upper Dave Blue Creek | 5/17/2022 | 10:19 | SD | 21.25 | 6.61 | 7.87 | 937 | 8 | Tree under bridge; normal/low flow conditions |
| URC-2 | Upper Rock Creek | 5/17/2022 | 16:12 | SD | 26.20 | 5.85 | 7.65 | 859 | 12 | Orifice of autosampler came loose- resecured |
| WC-1 | Woodcrest Creek | 5/18/2022 | 12:30 | SD | 24.39 | 6.97 | 7.64 | 1105 | 15 | Autosampler orifice probably clogged |

Table 1 Field Data Form

| Monitoring Location ID | Monitoring Location Name | Nitrate and Nitrite (mg/L) | Kjeldahl Nitrogen (mg/L) | Phosphorus (mg/L) | Total Suspended Solids (mg/L) |
|-------------------------------|---------------------------------|-----------------------------------|---------------------------------|--------------------------|--------------------------------------|
| CC-1 | Clear Creek | 0.15 | 0.29 | 0.053 | <5.0 |
| JB-1 | Jim Blue Creek | N/A | N/A | N/A | N/A |
| LDB-1 | Lower Dave Blue Creek | 0.09 | 0.87 | 0.110 | 49.0 |
| LRC-1 | Lower Rock Creek | <0.05 | 0.33 | 0.045 | <5.0 |
| LT-1 | Lake Laterals | <0.05 | 1.68 | 0.230 | 22.0 |
| TE-1 | Little River Tributary | <0.05 | 0.49 | 0.046 | 19.0 |
| TG-1 | Little River | <0.05 | 0.39 | 0.032 | <5.0 |
| UDB-1 | Upper Dave Blue Creek | 0.11 | 0.29 | 0.043 | <5.0 |
| URC-2 | Upper Rock Creek | <0.05 | 0.54 | 0.073 | 10.0 |
| WC-1 | Woodcrest Creek | 0.07 | 0.39 | 0.089 | 9.0 |

Table 2 Laboratory Analysis Summary

| Monitoring Location Name | Nitrate and Nitrite (mg/L) | Kjeldahl Nitrogen (mg/L) | Phosphorus (mg/L) | Total Suspended Solids (mg/L) |
|---------------------------------|-----------------------------------|---------------------------------|--------------------------|--------------------------------------|
| Field Blank | <0.05 | <0.10 | <0.010 | <5.0 |
| Duplicate | 0.16 | 0.26 | 0.054 | <5.0 |
| Duplicate RPD | 6.45% | 10.91% | 1.87% | 0% |

Table 3 QA/QC Data

Quality assurance/quality control (QA/QC) of the data includes a field blank and duplicate sample from each collection event and is qualified by the OWRB. Relative Percent Difference (RPD) of the duplicate sample can be categorized into four levels, where Level 1 likely has no QA issues and Level 4 has major QA issues and should be used with caution.

| Monitoring Location ID | Monitoring Location Name | Discharge (cfs) | Stream Stage (ft) |
|-------------------------------|---------------------------------|------------------------|--------------------------|
| CC-1 | Clear Creek | 0.67 | 20.89 |
| JB-1 | Jim Blue Creek | N/A | N/A |
| LDB-1 | Lower Dave Blue Creek | 49.63 | 17.28 |
| LRC-1 | Lower Rock Creek | 0.75 | 4.29 |
| LT-1 | Lake Laterals | 0.01 | 4.19 |
| TE-1 | Little River Tributary | 0.03 | 10.99 |
| TG-1 | Little River | 0.83 | 9.09 |
| UDB-1 | Upper Dave Blue Creek | -0.11 | 17.54 |
| URC-2 | Upper Rock Creek | 0.08 | 10.95 |
| WC-1 | Woodcrest Creek | 0.09 | 7.61 |

Table 4 Station Discharge Summary

All rated stream discharges are provisional and subject to change.

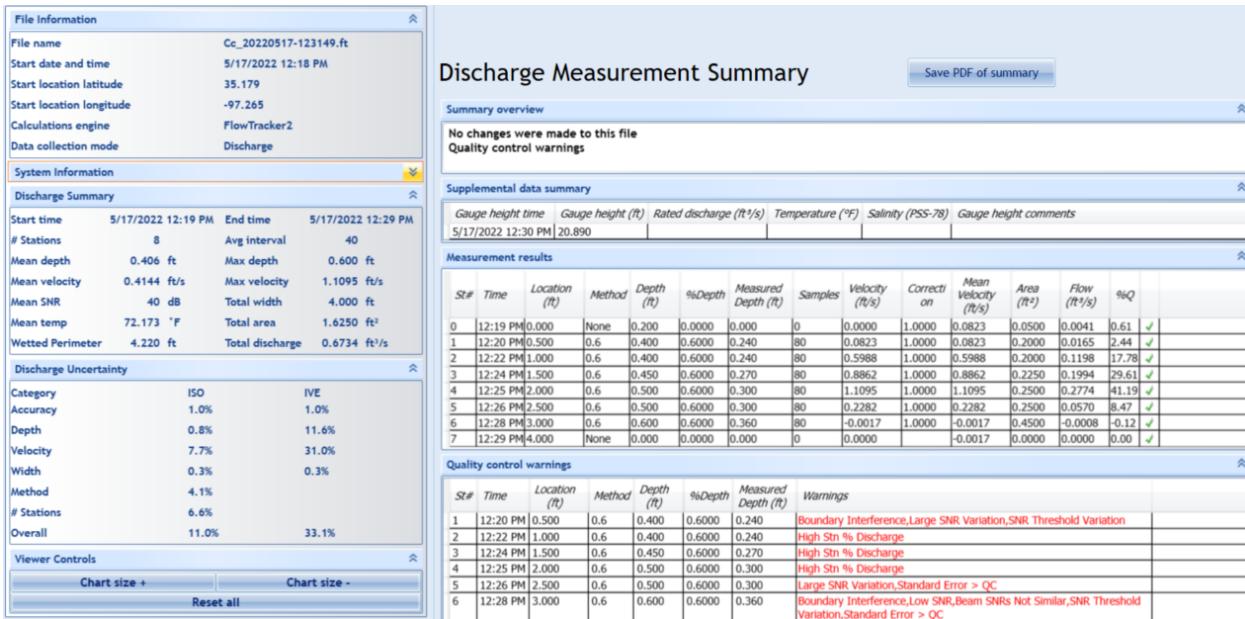


Figure 2 Discharge Measurement Summary CC-1

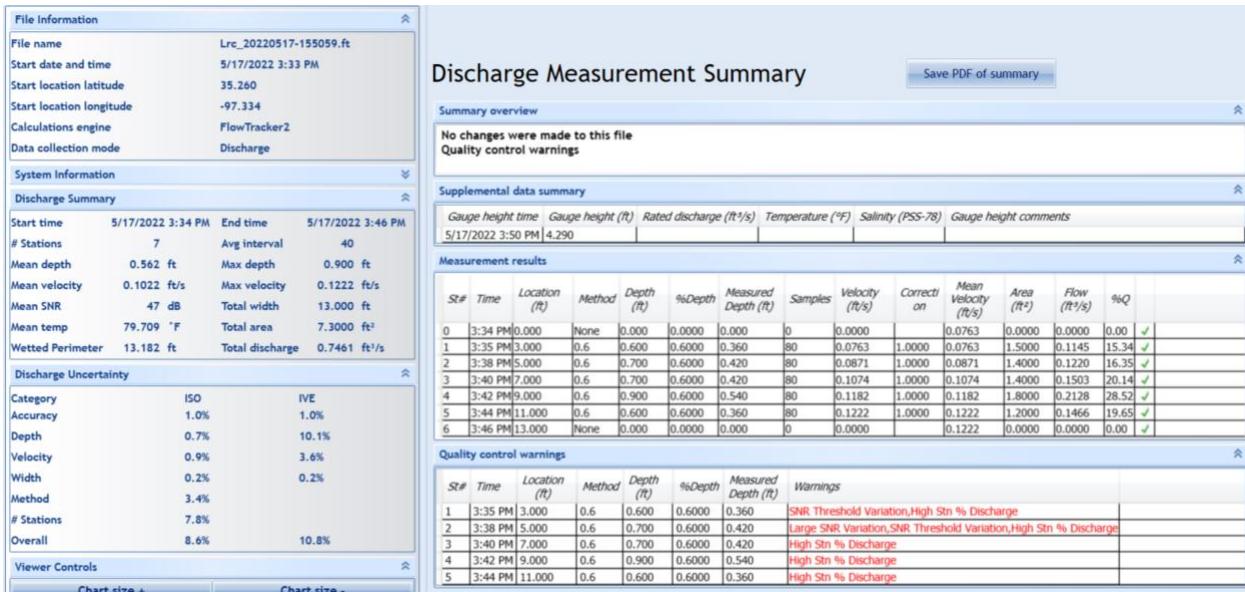


Figure 3 Discharge Measurement Summary LRC-1

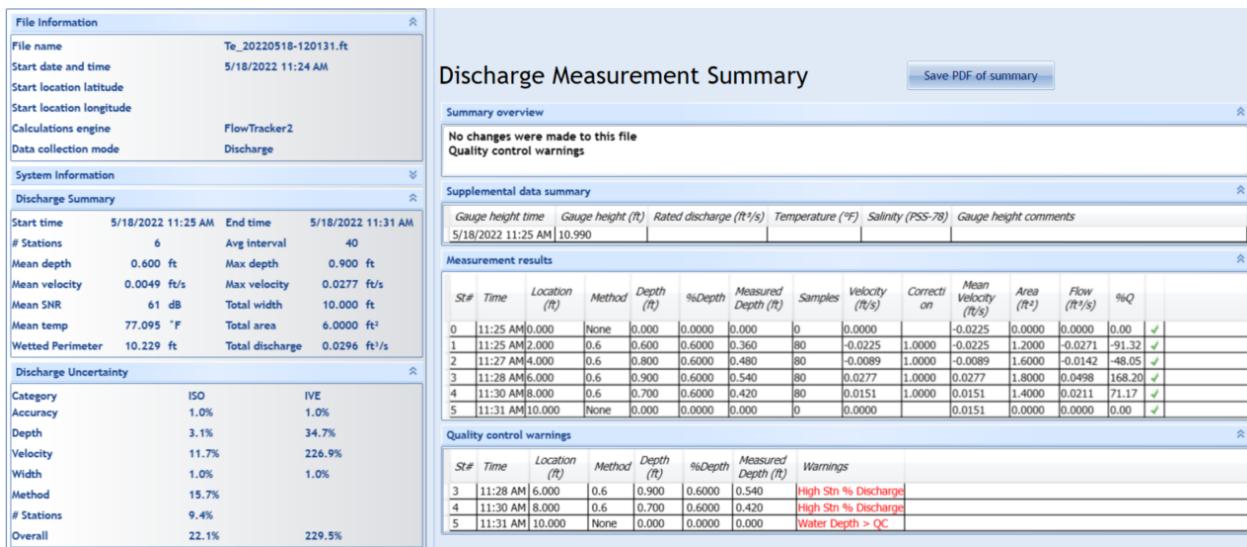


Figure 4 Discharge Measurement Summary TE-1

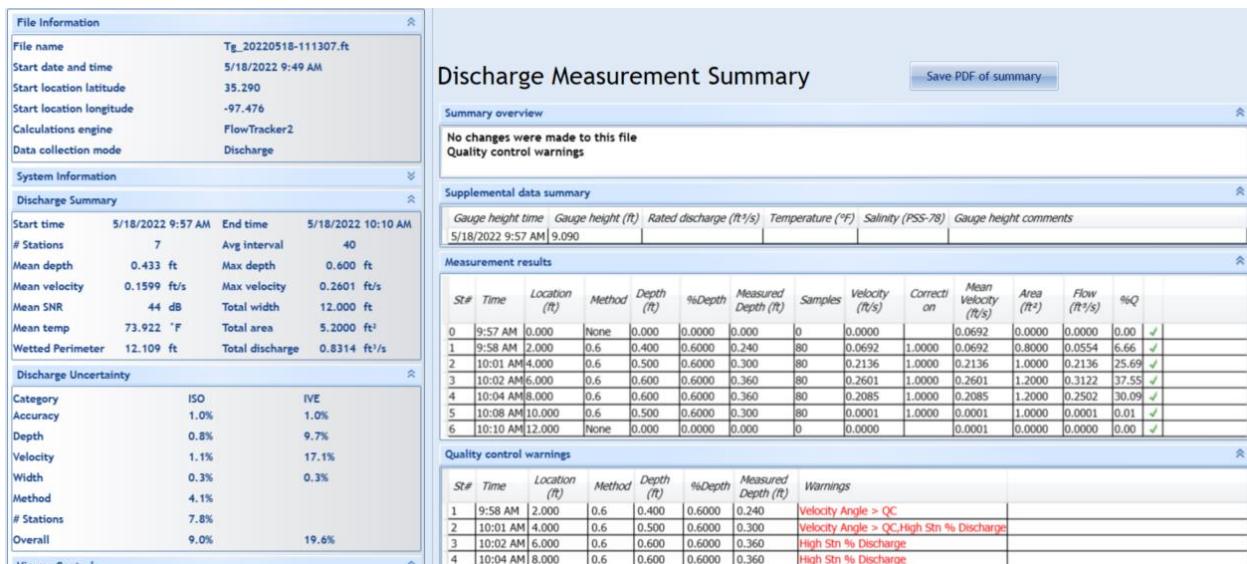


Figure 5 Discharge Measurement Summary TG-1

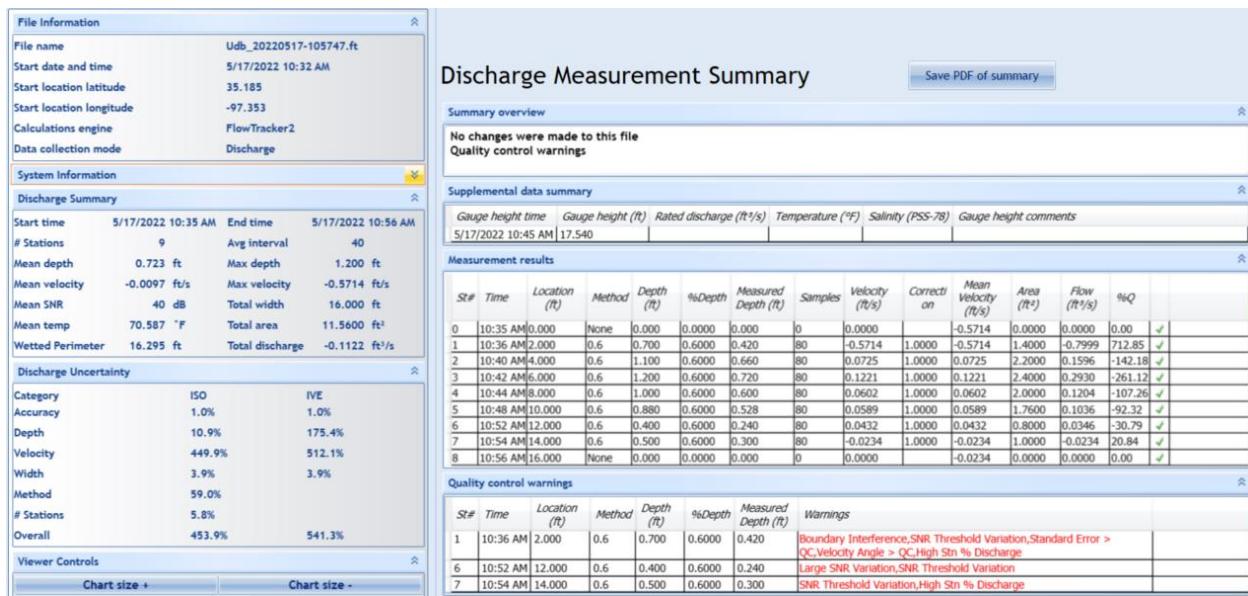


Figure 6 Discharge Measurement Summary UDB-1

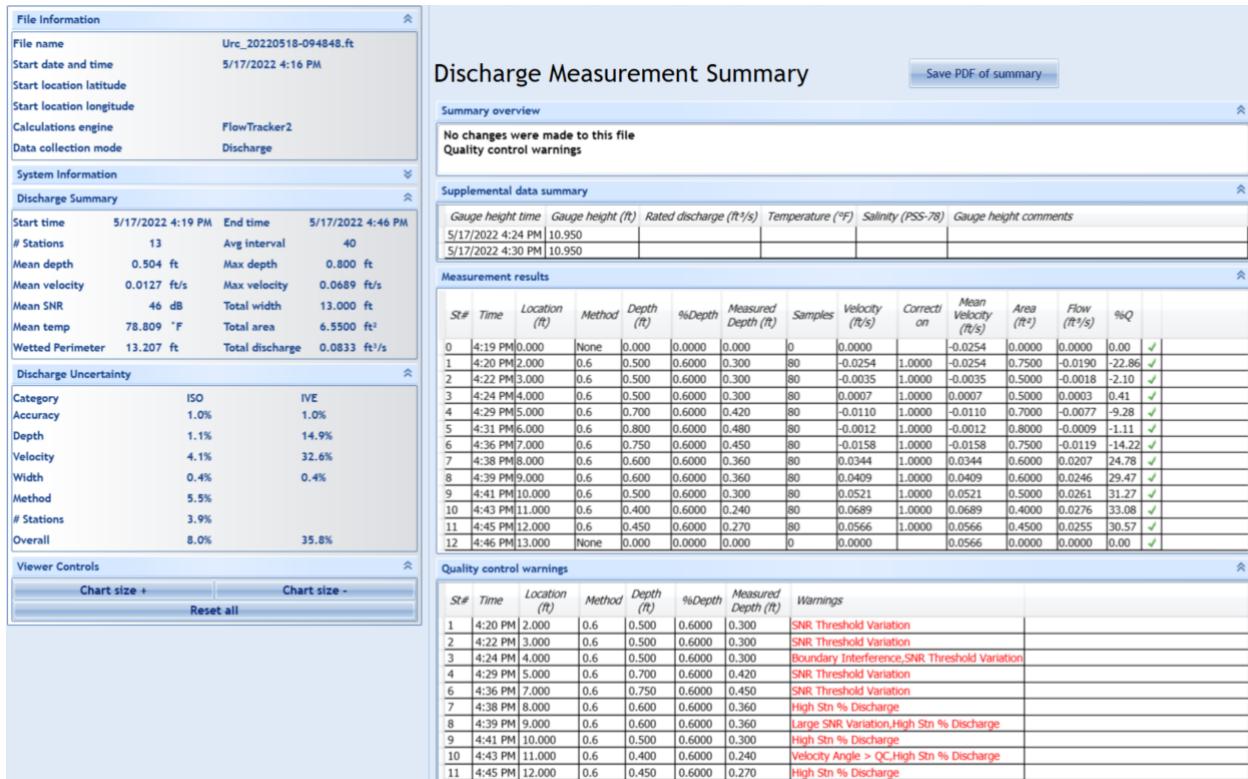


Figure 7 Discharge Measurement Summary URC-2

File Information

| | |
|--------------------------|-----------------------|
| File name | Wc_20220518-124345.ft |
| Start date and time | 5/18/2022 12:32 PM |
| Start location latitude | |
| Start location longitude | |
| Calculations engine | FlowTracker2 |
| Data collection mode | Discharge |

System Information

Discharge Summary

| | | | |
|------------------|--------------------|-----------------|---------------------------|
| Start time | 5/18/2022 12:33 PM | End time | 5/18/2022 12:43 PM |
| # Stations | 6 | Avg Interval | 40 |
| Mean depth | 0.340 ft | Max depth | 0.500 ft |
| Mean velocity | 0.1004 ft/s | Max velocity | 0.1411 ft/s |
| Mean SNR | 50 dB | Total width | 2.500 ft |
| Mean temp | 76.172 °F | Total area | 0.8500 ft ² |
| Wetted Perimeter | 2.849 ft | Total discharge | 0.0853 ft ³ /s |

Discharge Uncertainty

| | | |
|------------|-------|-------|
| Category | ISO | IVE |
| Accuracy | 1.0% | 1.0% |
| Depth | 0.8% | 19.2% |
| Velocity | 1.3% | 21.4% |
| Width | 0.3% | 0.3% |
| Method | 3.9% | |
| # Stations | 9.4% | |
| Overall | 10.4% | 28.7% |

Discharge Measurement Summary

Save PDF of summary

Summary overview

No changes were made to this file
Quality control warnings

Supplemental data summary

| Gauge height time | Gauge height (ft) | Rated discharge (ft ³ /s) | Temperature (°F) | Salinity (PSS-78) | Gauge height comments |
|--------------------|-------------------|--------------------------------------|------------------|-------------------|-----------------------|
| 5/18/2022 12:34 PM | 7.610 | | | | |

Measurement results

| St# | Time | Location (ft) | Method | Depth (ft) | %Depth | Measured Depth (ft) | Samples | Velocity (ft/s) | Correction | Mean Velocity (ft/s) | Area (ft ²) | Flow (ft ³ /s) | %Q |
|-----|----------|---------------|--------|------------|--------|---------------------|---------|-----------------|------------|----------------------|-------------------------|---------------------------|---------|
| 0 | 12:33 PM | 0.000 | None | 0.000 | 0.0000 | 0.000 | 0 | 0.0000 | 0.0503 | 0.0000 | 0.0000 | 0.00 | ✓ |
| 1 | 12:34 PM | 0.500 | 0.6 | 0.500 | 0.6000 | 0.300 | 80 | 0.0503 | 1.0000 | 0.0503 | 0.2500 | 0.0126 | 14.74 ✓ |
| 2 | 12:36 PM | 1.000 | 0.6 | 0.400 | 0.6000 | 0.240 | 80 | 0.1238 | 1.0000 | 0.1238 | 0.2000 | 0.0248 | 29.02 ✓ |
| 3 | 12:40 PM | 1.500 | 0.6 | 0.500 | 0.6000 | 0.300 | 80 | 0.1072 | 1.0000 | 0.1072 | 0.2500 | 0.0268 | 31.43 ✓ |
| 4 | 12:41 PM | 2.000 | 0.6 | 0.300 | 0.6000 | 0.180 | 80 | 0.1411 | 1.0000 | 0.1411 | 0.1500 | 0.0212 | 24.82 ✓ |
| 5 | 12:43 PM | 2.500 | None | 0.000 | 0.0000 | 0.000 | 0 | 0.0000 | 0.1411 | 0.0000 | 0.0000 | 0.00 | ✓ |

Quality control warnings

| St# | Time | Location (ft) | Method | Depth (ft) | %Depth | Measured Depth (ft) | Warnings |
|-----|----------|---------------|--------|------------|--------|---------------------|----------------------|
| 1 | 12:34 PM | 0.500 | 0.6 | 0.500 | 0.6000 | 0.300 | High Stn % Discharge |
| 2 | 12:36 PM | 1.000 | 0.6 | 0.400 | 0.6000 | 0.240 | High Stn % Discharge |
| 3 | 12:40 PM | 1.500 | 0.6 | 0.500 | 0.6000 | 0.300 | High Stn % Discharge |
| 4 | 12:41 PM | 2.000 | 0.6 | 0.300 | 0.6000 | 0.180 | High Stn % Discharge |

Figure 8 Discharge Measurement Summary WC-1

| Monitoring Location ID | Monitoring Location Name | Date | Time | Field Crew | Water Temperature (°C) | Dissolved Oxygen (DO) (mg/L) | pH | Specific Conductance (mS/cm) | Turbidity (NTU) | Notes |
|------------------------|--------------------------|----------|-------|------------|------------------------|------------------------------|------|------------------------------|-----------------|--|
| URC-2 | Upper Rock Creek | 5/3/2022 | 12:12 | NH | * | * | 7.93 | 255 | 1000 | Autosampler collected T1 on 5/2 @ 20:15 at 16.4, peak at 20:30 at 16.45 |
| TE-1 | Little River Tributary | 5/3/2022 | 13:43 | NH | * | * | 7.70 | 259 | 901 | Autosampler collected T1 on 5/2 @ 18:45 at 15.54, peak at 15.74 at 19:15 |

Table 5 First Stormwater Field Data Form Where the Asterisk Denotes a Sample from an Autosampler

| Monitoring Location ID | Monitoring Location Name | Nitrate and Nitrite (mg/L) | Kjeldahl Nitrogen (mg/L) | Phosphorus (mg/L) | Total Suspended Solids (mg/L) |
|------------------------|--------------------------|----------------------------|--------------------------|-------------------|-------------------------------|
| URC-2 | Upper Rock Creek | 0.27 | 17.3 | 3.95 | 7560 |
| TE-1 | Little River Tributary | <0.05 | 3.72 | 0.656 | 647 |

Table 6 First Stormwater Laboratory Analysis Summary

| Monitoring Location ID | Monitoring Location Name | Discharge (cfs) | Stream Stage (ft) |
|------------------------|--------------------------|-----------------|-------------------|
| URC-2 | Upper Rock Creek | 131.00 | 16.40 |
| TE-1 | Little River Tributary | 267.20 | 15.54 |

Table 7 First Stormwater Station Discharge Summary

All rated stream discharges are provisional and subject to change.

| Monitoring Location ID | Monitoring Location Name | Date | Time | Field Crew | Water Temperature (°C) | Dissolved Oxygen (DO) (mg/L) | pH | Specific Conductance (mS/cm) | Turbidity (NTU) | Notes |
|------------------------|--------------------------|-----------|-------|------------|------------------------|------------------------------|------|------------------------------|-----------------|---|
| CC-1 | Clear Creek | 5/24/2022 | 10:17 | NH | 16.0 | 7.31 | 7.48 | 557 | 75 | Used RP3, RP4 also over water; took two flow measurements; DCP not working but stage rising while at site (21.08, 21.12, 21.17) |
| UDB-1 | Upper Dave Blue Creek | 5/24/2022 | 11:47 | NH | 17.2 | 8.38 | 7.54 | 195 | 1000 | Took flow, stage rising while at site, 18.98 after flow; some med debris present; DCP 18.1 at arrival- may have been clogged |
| LDB-1 | Lower Dave Blue Creek | 5/24/2022 | 12:50 | NH | 16.0 | 7.72 | 7.75 | 568 | 228 | 17.38 after flow |
| URC-2 | Upper Rock Creek | 5/24/2022 | 13:29 | NH | 17.7 | 8.29 | 7.63 | 234 | 411 | 13.56 after flow |
| TG-1 | Little River | 5/24/2022 | 5:30 | LP | * | * | * | * | 529 | Autosampler collected T1 at 17.84, peak at 20.24 at 6:45; flow taken |
| TG-1 | Little River | 5/24/2022 | 6:00 | LP | * | * | * | * | 641 | Autosampler collected T2 at 19.43, peak at 20.24 at 6:45 |
| TE-1 | Little River Tributary | 5/24/2022 | 10:17 | LP | 17.3 | 8.33 | 8.03 | 165 | 417 | 13.6 tapetdown, flow taken |
| WC-1 | Woodcrest Creek | 5/24/2022 | 11:21 | LP | 17.6 | 8.69 | 7.73 | 199 | 161 | 13.18 tapetdown, flow taken |
| LRC-1 | Lower Rock Creek | 5/24/2022 | 12:00 | LP | N/A | N/A | N/A | N/A | 585 | 14.77 tapetdown, flow taken; no sonde data |
| SW-01 | Stormwater Outfall 01 | 5/24/2022 | 10:13 | CH | 17.5 | 8.45 | 8.06 | 139 | 484 | |
| SW-02 | Stormwater Outfall 02 | 5/24/2022 | 10:45 | CH | 18.5 | 8.51 | 7.72 | 210 | 34 | |
| SW-03 | Stormwater Outfall 03 | 5/24/2022 | 11:08 | CH | 17.8 | 8.54 | 7.82 | 104 | 134 | |
| SW-04 | Stormwater Outfall 04 | 5/24/2022 | 11:32 | CH | 17.3 | 8.96 | 8.01 | 196 | 235 | |
| SW-05 | Stormwater Outfall 05 | 5/24/2022 | 12:02 | CH | 17.2 | 8.04 | 7.68 | 354 | 53 | |
| SW-06 | Stormwater Outfall 06 | 5/24/2022 | 13:25 | CH | 17.0 | 5.01 | 8.15 | 332 | 26 | Pond was very full but had no flow in it |
| SW-07 | Stormwater Outfall 07 | 5/24/2022 | 12:52 | CH | 19.4 | 6.40 | 8.06 | 294 | 29 | |

Table 8 Second Stormwater Field Data Form Where the Asterisk Denotes a Sample from an Autosampler

| Monitoring Location ID | Monitoring Location Name | Nitrate and Nitrite (mg/L) | Kjeldahl Nitrogen (mg/L) | Phosphorus (mg/L) | Total Suspended Solids (mg/L) |
|------------------------|--------------------------|----------------------------|--------------------------|-------------------|-------------------------------|
| CC-1 | Clear Creek | 0.17 | 0.57 | 0.100 | 40.0 |
| LDB-1 | Lower Dave Blue Creek | 0.29 | 0.95 | 0.225 | 144 |
| UDB-1 | Upper Dave Blue Creek | 0.39 | 1.72 | 0.739 | 640 |
| URC-2 | Upper Rock Creek | 0.33 | 1.73 | 0.392 | 312 |
| LRC-1 | Lower Rock Creek | 0.37 | 1.76 | 0.401 | 488 |
| TE-1 | Little River Tributary | 0.42 | 1.11 | 0.353 | 252 |
| TG-1 | Little River | 0.36 | 1.65 | 0.680 | 647 |
| TG-1 | Little River | 0.34 | 1.64 | 0.651 | 957 |
| WC-1 | Woodcrest Creek | 0.43 | 1.27 | 0.398 | 178 |
| SW-01 | Stormwater Outfall 01 | 0.30 | 1.11 | 0.323 | 359 |
| SW-02 | Stormwater Outfall 02 | 0.28 | 1.16 | 0.238 | 52.0 |
| SW-03 | Stormwater Outfall 03 | 0.36 | 1.30 | 0.564 | 158 |
| SW-04 | Stormwater Outfall 04 | 0.35 | 1.12 | 0.281 | 122 |
| SW-05 | Stormwater Outfall 05 | 0.57 | 1.14 | 0.238 | 40.0 |
| SW-06 | Stormwater Outfall 06 | 0.14 | 0.89 | 0.089 | 20.0 |
| SW-07 | Stormwater Outfall 07 | 0.16 | 0.81 | 0.091 | 21.0 |

Table 9 Second Stormwater Laboratory Analysis Summary

| Monitoring Location Name | Nitrate and Nitrite (mg/L) | Kjeldahl Nitrogen (mg/L) | Phosphorus (mg/L) | Total Suspended Solids (mg/L) |
|--------------------------|----------------------------|--------------------------|-------------------|-------------------------------|
| Field Blank | <0.05 | <0.10 | <0.010 | <5.0 |
| Duplicate | 0.17 | 0.55 | 0.099 | 37.0 |
| Duplicate RPD | 0% | 3.57% | 1.01% | 7.79% |

Table 10 Second Stormwater QA/QC Data

| Monitoring Location ID | Monitoring Location Name | Discharge (cfs) | Stream Stage (ft) |
|------------------------|--------------------------|-----------------|-------------------|
| CC-1 | Clear Creek | 2.46 | 21.08 |
| CC-1 | Clear Creek | 2.74 | 21.12 |
| LDB-1 | Lower Dave Blue Creek | 83.96 | 17.42 |
| UDB-1 | Upper Dave Blue Creek | 87.13 | 18.90 |
| URC-2 | Upper Rock Creek | 54.38 | 13.72 |
| LRC-1 | Lower Rock Creek | 355 | 14.77 |
| TE-1 | Little River Tributary | 70 | 13.60 |
| WC-1 | Woodcrest Creek | 375 | 13.18 |
| TG-1 | Little River | 515 | 17.84 |
| TG-1 | Little River | 725 | 19.43 |

Table 11 Second Stormwater Station Discharge Summary

All rated stream discharges are provisional and subject to change.

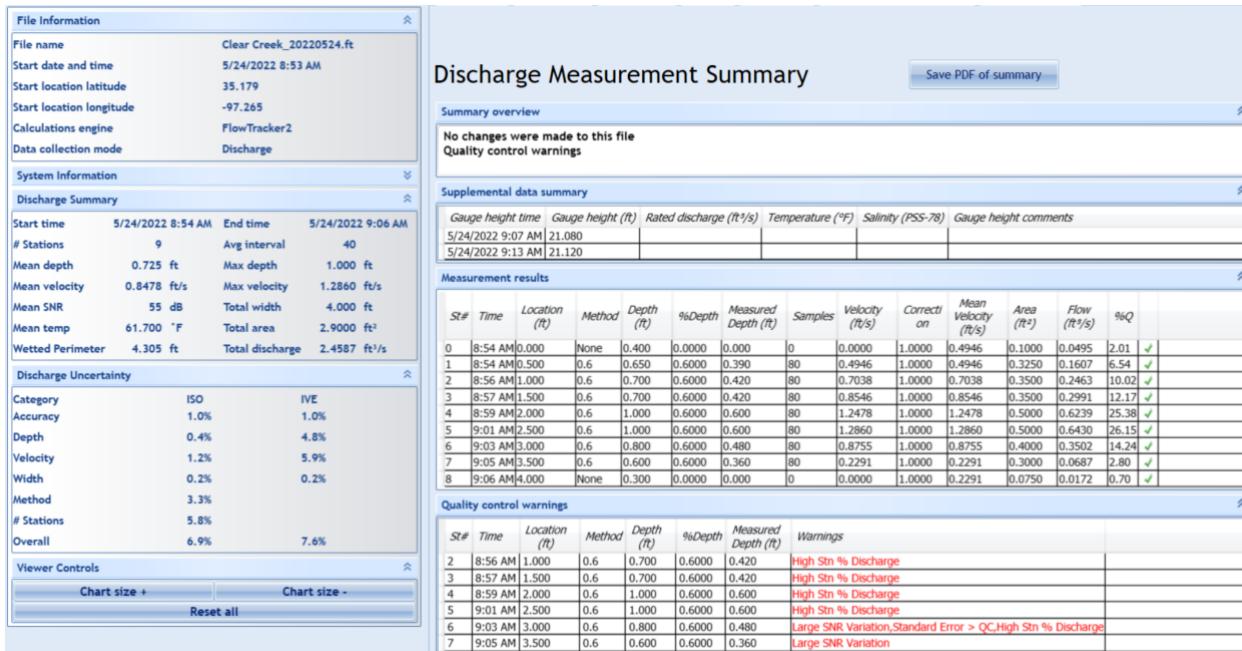


Figure 9 Stormwater Discharge Measurement Summary CC-1 First Measurement

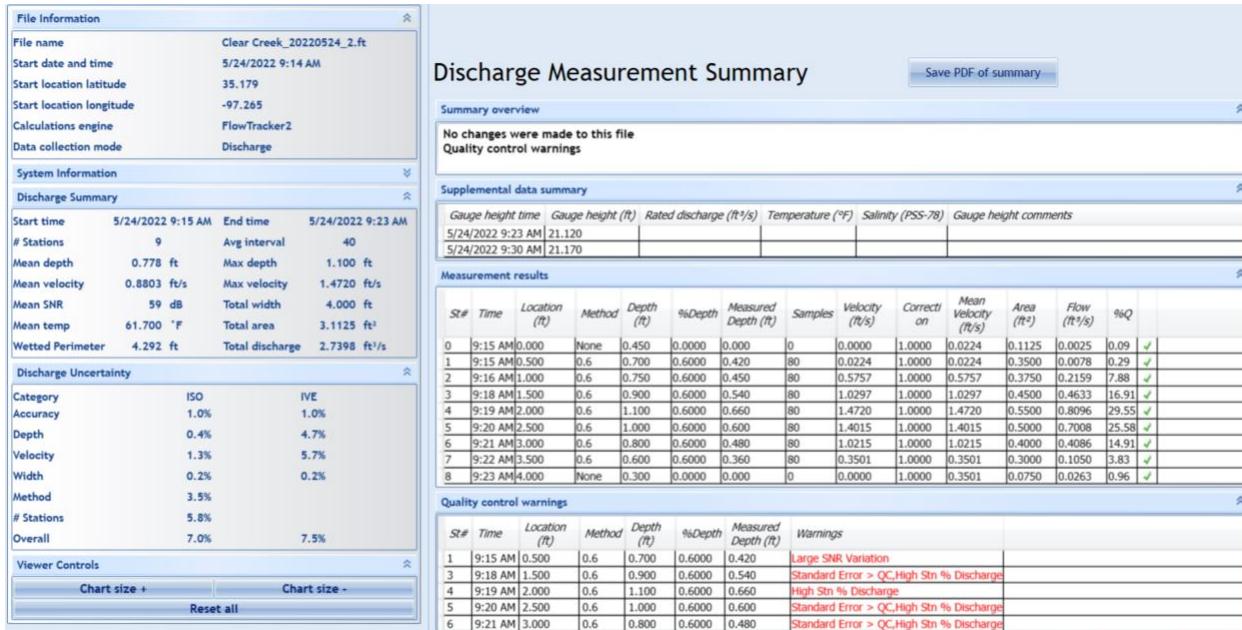


Figure 10 Stormwater Discharge Measurement Summary CC-1 Second Measurement

Station Number:
Station Name: LDB

Meas. No: 1
Date: 05/24/2022

| | | |
|--|---|---|
| Party: Scd ndh Boat/Motor: Gage Height: 17.42 ft | Width: 43.8 ft Area: 140 ft ² G.H.Change: 0.000 ft | Processed by: Mean Velocity: 0.600 ft/s Discharge: 84.0 ft ³ /s |
| Area Method: Avg. Course Nav. Method: Bottom Track MagVar Method: None (0.00°) Depth: Composite (BT) Discharge Method: None % Correction: 0.00 | ADCP Depth: 0.270 ft Shore Ens.: 10 Bottom Est: Power (0.1667) Top Est: Power (0.1667) | Index Vel.: 0.00 ft/s Adj.Mean Vel: 0.00 ft/s Qm Rating: U Rated Area: 0.000 ft ² Diff.: 0.000% Control1: Unspecified Control2: Unspecified Control3: Unspecified |
| Screening Thresholds: BT 3-Beam Solution: YES WT 3-Beam Solution: YES BT Error Vel.: 3.28 ft/s WT Error Vel.: 32.81 ft/s BT Up Vel.: 32.81 ft/s WT Up Vel.: 32.81 ft/s Use Weighted Mean Depth: YES | Max. Vel.: 3.27 ft/s Max. Depth: 5.49 ft Mean Depth: 3.21 ft % Meas.: 49.03 WaterTemp.: None ADCP Temp.: 61.4 °F | ADCP: Type/Freq: RiverRay / 0 kHz Serial #: 645654 Firmware: 44.16 Bin Size: 50 cm Blank: 50 cm BT Mode: 0 BT Pings: 1 WT Mode: 1 WT Pings: 1 WV: 170 |

Performed Diag. Test: NO

Project Name: LDB05242022_1.mmt

Performed Moving Bed Test: NO

Software: 2.23.00.02

Performed Compass Calibration: NO Evaluation: NO

Meas. Location:

| Tr.# | Edge Distance | | #Ens. | Discharge | | | | | | Width | Area | Time | | Mean Vel. | | % Bad | | |
|------|---------------|------|-------|-----------|--------|--------|------|-------|-------|-------|------|-------|-------|-----------|-------|-------|------|---|
| | L | R | | Top | Middle | Bottom | Left | Right | Total | | | Start | End | Boat | Water | Ens. | Bins | |
| 000 | R | 7 | 4 | 208 | 23.4 | 42.1 | 21.3 | 1.68 | 1.87 | 90.4 | 53 | 163 | 01:28 | 01:30 | 0.32 | 0.55 | 34 | 1 |
| 001 | L | 7 | 4 | 132 | 19.3 | 41.3 | 17.3 | 1.80 | 2.15 | 81.9 | 41 | 134 | 01:30 | 01:32 | 0.44 | 0.61 | 13 | 0 |
| 002 | R | 7 | 4 | 153 | 20.0 | 41.2 | 17.4 | 3.39 | 2.05 | 84.0 | 45 | 148 | 01:32 | 01:33 | 0.40 | 0.57 | 25 | 0 |
| 003 | L | 7 | 4 | 174 | 18.1 | 38.3 | 15.7 | 3.11 | 1.55 | 78.8 | 42 | 133 | 01:34 | 01:35 | 0.35 | 0.58 | 24 | 0 |
| 004 | R | 7 | 4 | 162 | 19.8 | 39.7 | 18.9 | 1.84 | 1.48 | 81.8 | 43 | 132 | 01:35 | 01:37 | 0.38 | 0.62 | 20 | 0 |
| 005 | L | 7 | 4 | 157 | 21.0 | 42.9 | 19.2 | 1.45 | 2.28 | 86.9 | 42 | 134 | 01:37 | 01:39 | 0.38 | 0.65 | 18 | 0 |
| 006 | R | 7 | 4 | 135 | 20.6 | 41.6 | 19.4 | 1.48 | 1.45 | 84.5 | 43 | 138 | 01:39 | 01:40 | 0.43 | 0.61 | 15 | 0 |
| 007 | L | 7 | 4 | 151 | 20.2 | 42.1 | 18.2 | 3.04 | 1.91 | 85.4 | 43 | 139 | 01:40 | 01:42 | 0.39 | 0.61 | 18 | 0 |
| Mean | | 7 | 4 | 159 | 20.3 | 41.2 | 18.4 | 2.23 | 1.84 | 84.0 | 44 | 140 | Total | 00:14 | 0.38 | 0.60 | 21 | 0 |
| SDev | | 0 | 0 | 24 | 1.55 | 1.48 | 1.68 | 0.804 | 0.313 | 4.01 | 3.8 | 10.7 | | | 0.04 | 0.03 | | |
| SD/M | | 0.0% | 0.0% | 15.1% | 7.6% | 3.6% | 9.1% | 36.0% | 17.0% | 4.8% | 8.7% | 7.6% | | | 9.8% | 5.3% | | |

Figure 11 Stormwater Discharge Measurement Summary LDB-1

Station Number:
Station Name: Udb

Meas. No: 1
Date: 05/24/2022

| | | |
|------------------------------|----------------------------|---|
| Party: Scd ndh | Width: 25.7 ft | Processed by: |
| Boat/Motor: | Area: 37.0 ft ² | Mean Velocity: 2.39 ft/s |
| Gage Height: 18.90 ft | G.H.Change: 0.000 ft | Discharge: 87.1 ft ³ /s |
| Area Method: Avg. Course | ADCP Depth: 0.270 ft | Index Vel.: 0.00 ft/s Rating No.: 1 |
| Nav. Method: Bottom Track | Shore Ens.: 10 | Adj.Mean Vel: 0.00 ft/s Qm Rating: U |
| MagVar Method: None (0.00°) | Bottom Est: Power (0.1667) | Rated Area: 0.000 ft ² Diff.: 0.000% |
| Depth: Composite (BT) | Top Est: Power (0.1667) | Control1: Unspecified |
| Discharge Method: None | | Control2: Unspecified |
| % Correction: 0.00 | | Control3: Unspecified |
| Screening Thresholds: | | ADCP: |
| BT 3-Beam Solution: YES | Max. Vel.: 6.44 ft/s | Type/Freq: RiverRay / 0 kHz |
| WT 3-Beam Solution: YES | Max. Depth: 1.88 ft | Serial #: 645654 Firmware: 44.16 |
| BT Error Vel.: 3.28 ft/s | Mean Depth: 1.44 ft | Bin Size: 50 cm Blank: 50 cm |
| WT Error Vel.: 32.81 ft/s | % Meas.: 16.53 | BT Mode: 0 BT Pings: 1 |
| BT Up Vel.: 32.81 ft/s | WaterTemp.: None | WT Mode: 1 WT Pings: 1 |
| WT Up Vel.: 32.81 ft/s | ADCP Temp.: 62.7 °F | WV : 170 |
| Use Weighted Mean Depth: YES | | |

Performed Diag. Test: NO

Project Name: UDB05242022_1.mmt

Performed Moving Bed Test: NO

Software: 2.23.00.02

Performed Compass Calibration: YES Evaluation: YES

Meas. Location:

| Tr.# | Edge Distance | | #Ens. | Discharge | | | | | | Width | Area | Time | | Mean Vel. | | % Bad | | |
|------|---------------|-------|-------|-----------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-----------|-------|-------|------|---|
| | L | R | | Top | Middle | Bottom | Left | Right | Total | | | Start | End | Boat | Water | Ens. | Bins | |
| 001 | L | 4 | 5 | 184 | 47.7 | 14.9 | 14.5 | 5.83 | 9.75 | 92.7 | 31 | 44 | 00:23 | 00:24 | 0.38 | 2.10 | 71 | 0 |
| 002 | R | 2 | 5 | 148 | 55.0 | 17.2 | 17.9 | 3.00 | 8.40 | 102 | 27 | 40 | 00:25 | 00:26 | 0.43 | 2.53 | 71 | 0 |
| 004 | R | 2 | 5 | 115 | 34.3 | 10.8 | 12.2 | 4.03 | 8.37 | 69.8 | 28 | 40 | 00:28 | 00:29 | 0.38 | 1.74 | 57 | 0 |
| 005 | L | 2 | 3 | 138 | 61.6 | 19.2 | 18.5 | 4.31 | 8.00 | 110 | 27 | 41 | 00:29 | 00:30 | 0.35 | 2.70 | 50 | 0 |
| 006 | R | 2 | 3 | 151 | 48.1 | 15.0 | 14.3 | 3.85 | 4.63 | 85.9 | 27 | 40 | 00:31 | 00:33 | 0.28 | 2.16 | 71 | 0 |
| 008 | R | 3 | 3 | 172 | 33.8 | 10.6 | 10.8 | 6.64 | 5.44 | 67.3 | 20 | 28 | 00:36 | 00:37 | 0.25 | 2.42 | 78 | 0 |
| 009 | L | 3 | 5 | 171 | 41.6 | 13.0 | 12.6 | 6.71 | 9.15 | 83.1 | 21 | 27 | 00:37 | 00:39 | 0.26 | 3.07 | 52 | 0 |
| Mean | | 3 | 4 | 154 | 46.0 | 14.4 | 14.4 | 4.31 | 7.39 | 87.1 | 26 | 37 | Total | 00:16 | 0.33 | 2.39 | 64 | 0 |
| SDev | | 1 | 1 | 24 | 10.3 | 3.20 | 2.90 | 1.47 | 2.00 | 15.6 | 4.0 | 6.7 | | | 0.07 | 0.43 | | |
| SD/M | | 30.6% | 25.8% | 15.3% | 22.4% | 22.2% | 20.1% | 30.0% | 27.1% | 17.9% | 15.7% | 18.2% | | | 20.8% | 18.2% | | |

Figure 12 Stormwater Discharge Measurement Summary UDB-1

| | | |
|------------------------------|------------------------------|---|
| Station Number: | Meas. No.: 1 | |
| Station Name: URC | Date: 05/24/2022 | |
| Party: scd ndh | Width: 19.4 ft | Processed by: |
| Boat/Motor: | Area: 52.5 ft ² | Mean Velocity: 1.06 ft/s |
| Gage Height: 13.72 ft | G.H.Change: 0.000 ft | Discharge: 54.4 ft ³ /s |
| Area Method: Avg. Course | ADCP Depth: 0.270 ft | Index Vel.: 0.00 ft/s Rating No.: 1 |
| Nav. Method: Bottom Track | Shore Ens.: 10 | Adj.Mean Vel: 0.00 ft/s Qm Rating: U |
| MagVar Method: None (0.00°) | Bottom Est: Power (0.1667) | Rated Area: 0.000 ft ² Diff.: 0.000% |
| Depth: Composite (BT) | Top Est: Power (0.1667) | Control1: Unspecified |
| Discharge Method: None | | Control2: Unspecified |
| % Correction: 0.00 | | Control3: Unspecified |
| Screening Thresholds: | ADCP: | |
| BT 3-Beam Solution: YES | Type/Freq.: RiverRay / 0 kHz | |
| WT 3-Beam Solution: YES | Serial #: 645654 | Firmware: 44.16 |
| BT Error Vel.: 3.28 ft/s | Bin Size: 50 cm | Blank: 50 cm |
| WT Error Vel.: 32.81 ft/s | BT Mode: 0 | BT Pings: 1 |
| BT Up Vel.: 32.81 ft/s | WT Mode: 1 | WT Pings: 1 |
| WT Up Vel.: 32.81 ft/s | WV: 170 | |
| Use Weighted Mean Depth: YES | | |

Performed Diag. Test: NO

Project Name: urc 05242022 (redo)_1

Performed Moving Bed Test: NO

Software: 2.23.00.02

Performed Compass Calibration: NO Evaluation: NO

Meas. Location:

| Tr.# | Edge Distance | | #Ens. | Discharge | | | | | | Width | Area | Time | | Mean Vel. | | % Bad | | |
|------|---------------|------|-------|-----------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-----------|-------|-------|------|---|
| | L | R | | Top | Middle | Bottom | Left | Right | Total | | | Start | End | Boat | Water | Ens. | Bins | |
| 001 | R | 2 | 2 | 72 | 17.7 | 23.2 | 13.0 | 2.47 | 1.80 | 58.2 | 14 | 42 | 02:50 | 02:50 | 0.48 | 1.39 | 53 | 0 |
| 002 | L | 2 | 2 | 77 | 16.4 | 21.2 | 12.3 | 1.62 | 2.08 | 53.6 | 23 | 60 | 02:50 | 02:51 | 0.89 | 0.90 | 55 | 0 |
| 003 | R | 2 | 2 | 75 | 14.8 | 20.2 | 10.4 | 2.75 | 2.33 | 50.5 | 14 | 43 | 02:51 | 02:52 | 0.34 | 1.18 | 52 | 0 |
| 005 | R | 2 | 2 | 94 | 14.9 | 20.4 | 11.8 | 2.75 | 1.84 | 51.7 | 18 | 47 | 02:53 | 02:54 | 0.45 | 1.09 | 60 | 0 |
| 006 | L | 2 | 2 | 96 | 20.0 | 24.7 | 15.5 | 1.73 | 2.37 | 64.2 | 25 | 69 | 02:54 | 02:55 | 0.52 | 0.94 | 59 | 0 |
| 008 | L | 2 | 2 | 89 | 14.3 | 20.3 | 9.64 | 1.13 | 2.68 | 48.1 | 24 | 55 | 02:58 | 02:57 | 0.58 | 0.87 | 58 | 0 |
| Mean | 2 | 2 | 83 | 16.3 | 21.7 | 12.1 | 2.08 | 2.20 | 54.4 | 19 | 53 | Total | 00:07 | 0.50 | 1.06 | 56 | 0 | |
| SDev | 0 | 0 | 10 | 2.17 | 1.84 | 2.09 | 0.678 | 0.322 | 5.90 | 5.2 | 10.5 | | | | 0.12 | 0.20 | | |
| SD/M | 0.0% | 0.0% | 12.6% | 13.3% | 8.5% | 17.3% | 32.6% | 14.6% | 10.8% | 26.8% | 20.0% | | | | 23.5% | 18.8% | | |

Figure 13 Stormwater Discharge Measurement Summary URC-2

Time Series Data Report
Monthly Hydrograph

Jun 1, 2022 | 1 of 1

Period Selected: 2022-05-01 00:00 - 2022-05-31 23:59

UTC Offset: -06:00

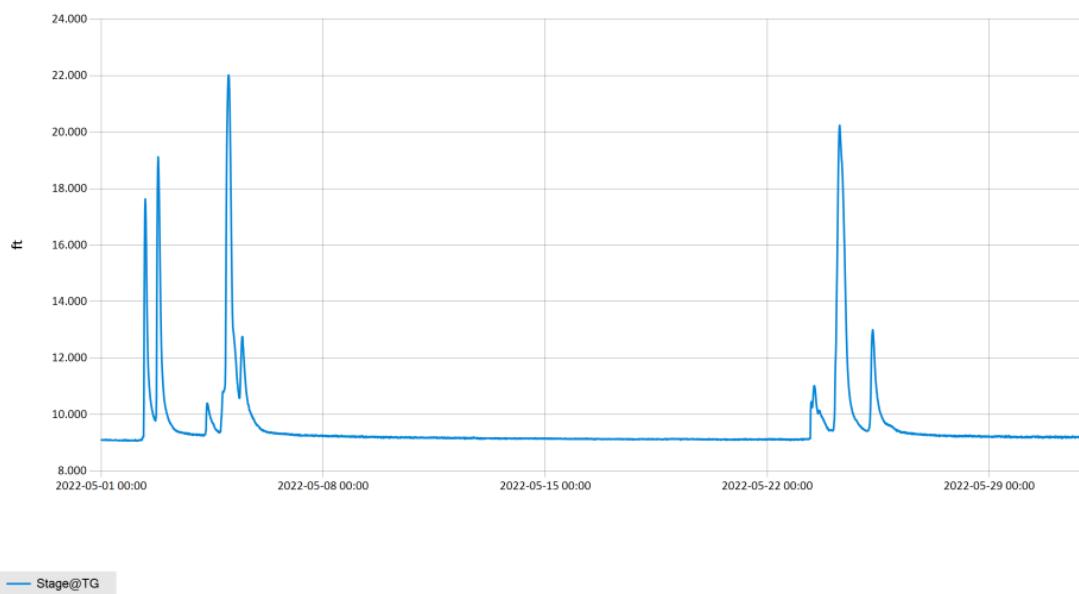


Figure 14 Monthly Hydrograph TG-1

Time Series Data Report
Monthly Hydrograph

Jun 3, 2022 | 1 of 1

Period Selected: 2022-05-01 00:00 - 2022-05-31 23:59

UTC Offset: -06:00

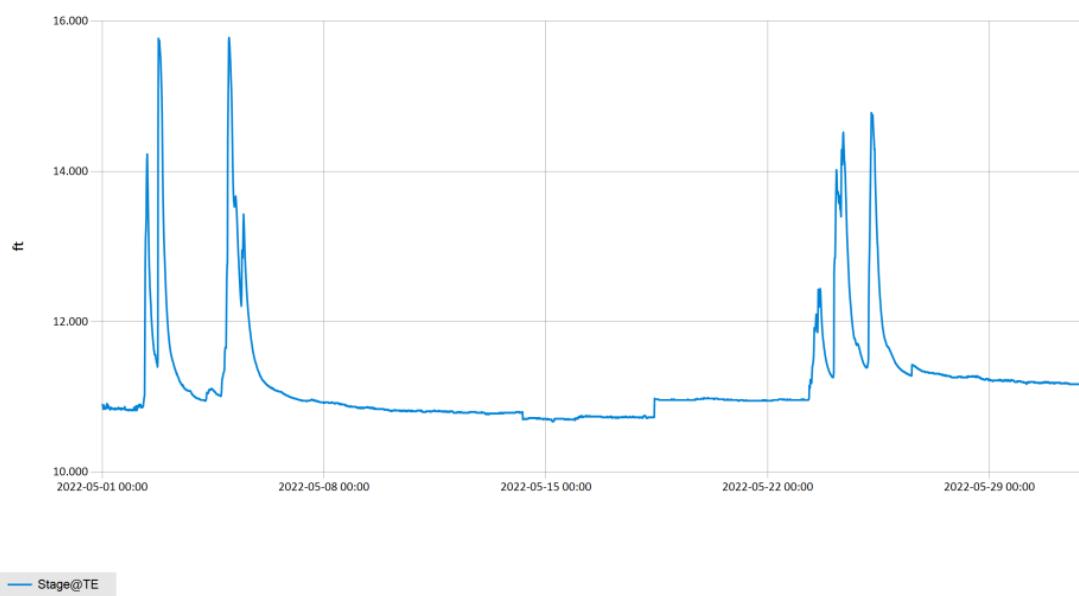


Figure 15 Monthly Hydrograph TE-1

Time Series Data Report
Monthly Hydrograph

Jun 1, 2022 | 1 of 1

Period Selected: 2022-05-01 00:00 - 2022-05-31 23:59

UTC Offset: -06:00

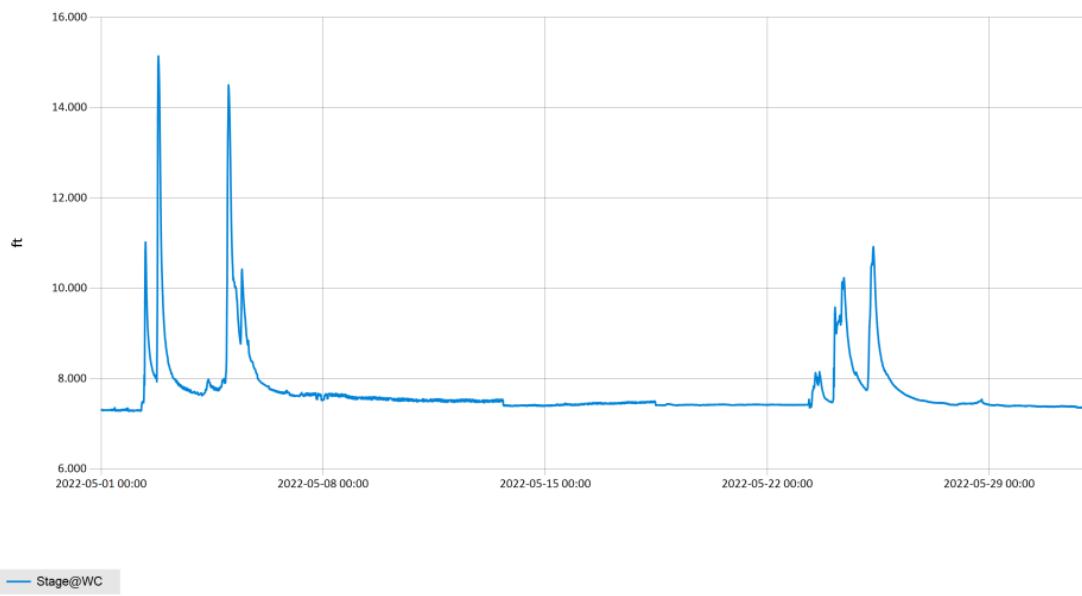


Figure 16 Monthly Hydrograph WC-1

Time Series Data Report
Monthly Hydrograph

Jun 1, 2022 | 1 of 1

Period Selected: 2022-05-01 00:00 - 2022-05-31 23:59

UTC Offset: -06:00

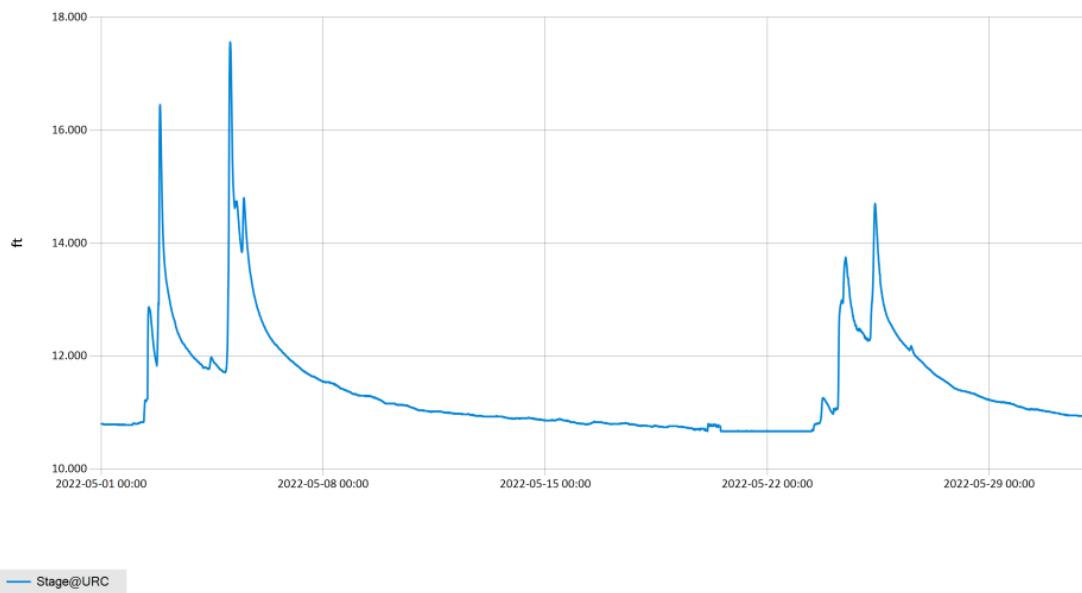


Figure 17 Monthly Hydrograph URC-2

Time Series Data Report
Monthly Hydrograph

Jun 1, 2022 | 1 of 1

Period Selected: 2022-05-01 00:00 - 2022-05-31 23:59

UTC Offset: -06:00

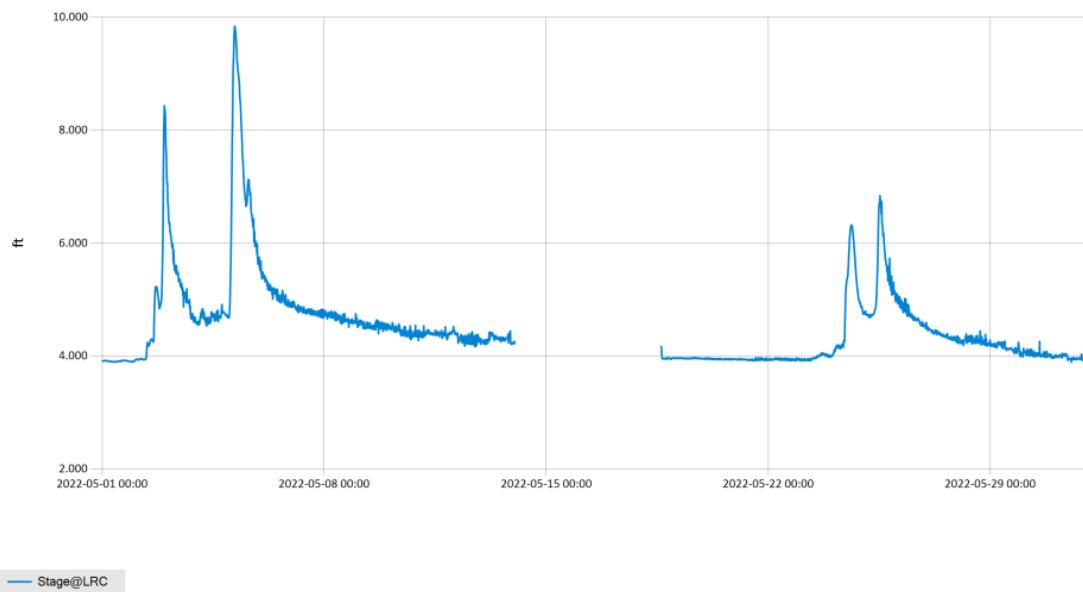


Figure 18 Monthly Hydrograph LRC-1

Time Series Data Report
Monthly Hydrograph

Jun 1, 2022 | 1 of 1

Period Selected: 2022-05-01 00:00 - 2022-05-31 23:59

UTC Offset: -06:00

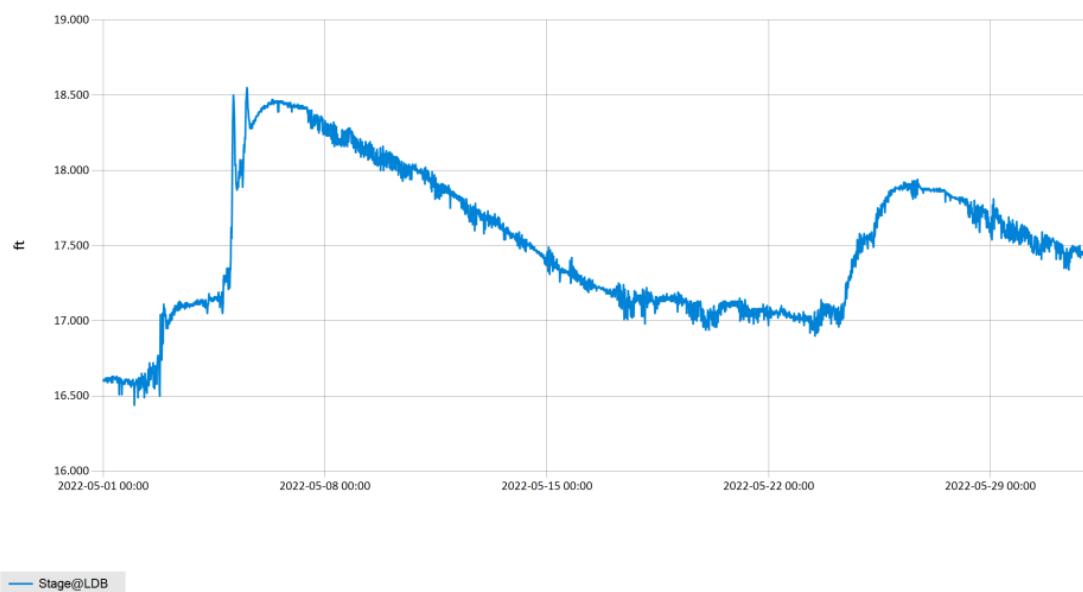


Figure 19 Monthly Hydrograph LDB-1

Time Series Data Report
Monthly Hydrograph

Jun 1, 2022 | 1 of 1

Period Selected: 2022-05-01 00:00 - 2022-05-31 23:59

UTC Offset: -06:00

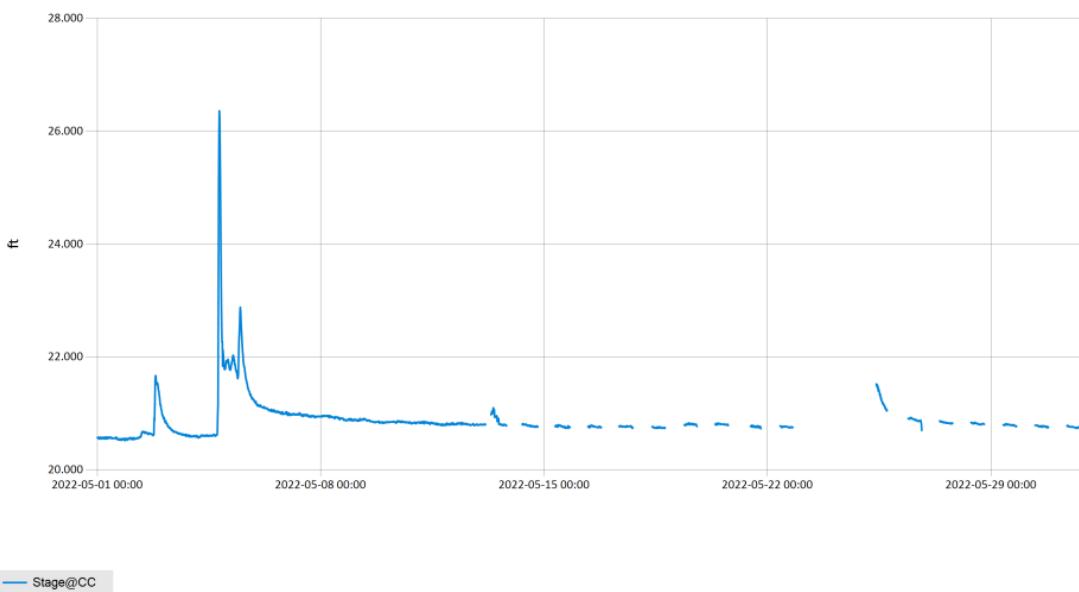


Figure 20 Monthly Hydrograph CC-1

Time Series Data Report
Monthly Hydrograph

Jun 1, 2022 | 1 of 1

Period Selected: 2022-05-01 00:00 - 2022-05-31 23:59

UTC Offset: -06:00

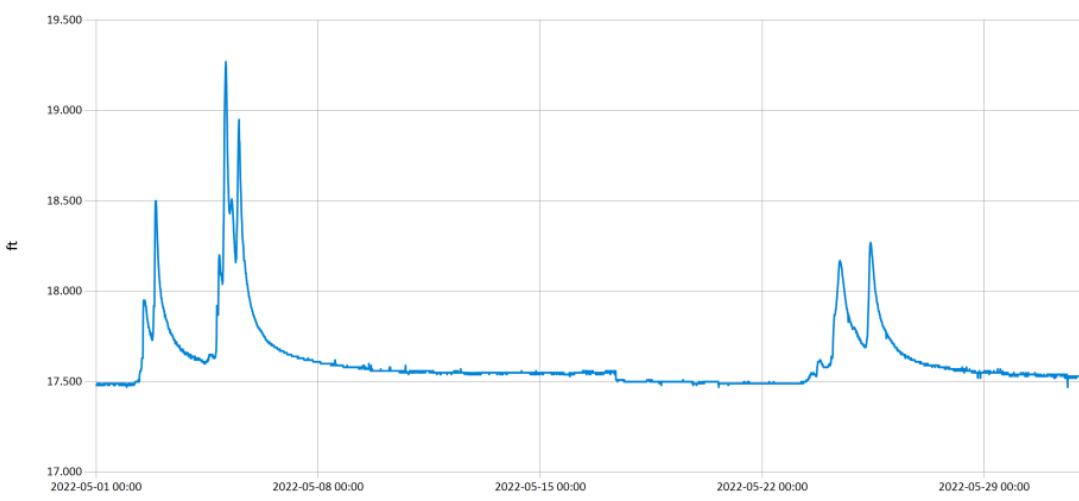


Figure 21 Monthly Hydrograph UDB-1

| MESONET CLIMATOLOGICAL DATA SUMMARY (NRMN) Norman Latitude: 35-14-09 | | | | | | | | | May 2022 Nearest City: 2.1 NW Norman Longitude: 97-27-53 | | | | | | Time Zone: Midnight-Midnight CST County: Cleveland Elevation: 1171 feet | | | | | | | | |
|--|--------------------|-----|-------|-------|---|-----|--------------|-----|--|---|--------|---------------|-------|------------------|---|-------|---------------|-------|-----|----------------------|--|--|--|
| DAY | TEMPERATURE (°F) | | | | DEG DAYS | | HUMIDITY (%) | | | RAIN (in) | | PRESSURE (in) | | WIND SPEED (mph) | | | SOLAR (MJ/m²) | | | 4" SOIL TEMPERATURES | | | |
| | MAX | MIN | AVG | DEWPT | HDD | CDD | MAX | MIN | AVG | STN | MSL | DIR | Avg | MAX | SOD | BARE | MAX | MIN | | | | | |
| 1 | 78 | 48 | 65.0 | 46.7 | 2 | 0 | 93 | 34 | 55 | 0.00 | 28.73 | 29.98 | ESE | 7.7 | 25.7 | 20.63 | 63.2 | 67.8 | 74 | 61 | | | |
| 2 | 80 | 49 | 64.0 | 59.8 | 0 | 0 | 99 | 66 | 87 | 2.34 | 28.52 | 29.76 | SE | 12.1 | 47.2 | 9.36 | 63.6 | 66.5 | 71 | 64 | | | |
| 3 | 60 | 46 | 52.4 | 44.6 | 12 | 0 | 86 | 61 | 75 | 0.00 | 28.75 | 29.99 | NNW | 10.6 | 27.8 | 17.87 | 60.4 | 61.9 | 67 | 58 | | | |
| 4 | 69 | 52 | 59.9 | 58.1 | 5 | 0 | 98 | 76 | 94 | 1.41 | 28.65 | 29.89 | E | 7.7 | 39.0 | 6.86 | 61.2 | 62.1 | 65 | 59 | | | |
| 5 | 64 | 50 | 59.3 | 55.4 | 8 | 0 | 98 | 60 | 88 | 0.61 | 28.61 | 29.85 | NW | 10.3 | 29.8 | 9.20 | 61.7 | 62.9 | 65 | 61 | | | |
| 6 | 76 | 47 | 61.9 | 51.1 | 3 | 0 | 94 | 42 | 70 | 0.00 | 28.64 | 29.89 | NW | 5.6 | 14.1 | 27.56 | 62.0 | 64.6 | 74 | 56 | | | |
| 7 | 82 | 56 | 71.0 | 62.4 | 0 | 4 | 92 | 63 | 75 | 0.00 | 28.51 | 29.75 | SE | 11.8 | 30.0 | 25.23 | 65.4 | 67.8 | 74 | 61 | | | |
| 8 | 91 | 73 | 81.3 | 70.2 | 0 | 17 | 90 | 51 | 70 | 0.00 | 28.32 | 29.55 | SSE | 15.0 | 33.7 | 26.51 | 69.7 | 72.8 | 78 | 69 | | | |
| 9 | 90 | 74 | 81.7 | 71.0 | 0 | 17 | 81 | 55 | 70 | 0.00 | 28.42 | 29.66 | S | 14.0 | 30.9 | 26.19 | 72.0 | 74.3 | 79 | 70 | | | |
| 10 | 88 | 75 | 81.1 | 72.0 | 0 | 17 | 84 | 64 | 74 | 0.00 | 28.68 | 29.93 | S | 12.6 | 29.4 | 22.42 | 73.3 | 75.8 | 81 | 72 | | | |
| 11 | 88 | 67 | 77.9 | 66.8 | 0 | 13 | 87 | 45 | 70 | 0.00 | 28.78 | 30.03 | SSE | 10.4 | 32.4 | 24.41 | 73.4 | 77.3 | 85 | 71 | | | |
| 12 | 90 | 70 | 79.1 | 64.9 | 0 | 15 | 91 | 38 | 64 | 0.00 | 28.67 | 29.92 | S | 11.0 | 28.6 | 28.08 | 73.5 | 79.2 | 87 | 72 | | | |
| 13 | 85 | 70 | 76.8 | 67.0 | 0 | 13 | 87 | 58 | 72 | 0.00 | 28.62 | 29.87 | ESE | 8.9 | 21.4 | 22.82 | 73.9 | 79.8 | 86 | 74 | | | |
| 14 | 89 | 64 | 78.7 | 64.6 | 0 | 12 | 95 | 42 | 64 | 0.00 | 28.68 | 29.92 | SSE | 5.5 | 24.3 | 26.57 | 74.3 | 81.1 | 90 | 73 | | | |
| 15 | 93 | 67 | 79.3 | 65.0 | 0 | 15 | 83 | 34 | 64 | 0.00 | 28.65 | 29.89 | S | 9.8 | 32.4 | 27.13 | 75.0 | 82.5 | 91 | 76 | | | |
| 16 | 82* | 60* | 72.5* | 60.6* | 0* | 6* | 92* | 49* | 68* | 0.00* | 28.75* | 29.99* | ESE* | 7.0* | 17.0* | NA | 74.7* | 81.5* | 89* | 73* | | | |
| 17 | 89 | 69 | 78.1 | 63.5 | 0 | 14 | 86 | 30 | 63 | 0.00 | 28.62 | 29.86 | SSE | 11.3 | 31.9 | 22.34 | 74.2 | 80.2 | 86 | 75 | | | |
| 18 | 89 | 73 | 80.5 | 66.8 | 0 | 16 | 83 | 46 | 64 | 0.00 | 28.56 | 29.80 | E | 8.6 | 27.3 | 25.78 | 75.0 | 82.4 | 90 | 76 | | | |
| 19 | 90 | 67 | 80.3 | 65.3 | 0 | 14 | 84 | 47 | 61 | 0.00 | 28.37 | 29.60 | S | 11.3 | 32.3 | 26.87 | 75.6 | 83.0 | 90 | 76 | | | |
| 20 | 85 | 70 | 78.0 | 62.6 | 0 | 13 | 79 | 45 | 60 | 0.00 | 28.32 | 29.56 | S | 12.4 | 31.7 | 22.49 | 75.3 | 82.5 | 88 | 78 | | | |
| 21 | 70 | 55 | 60.8 | 48.1 | 3 | 0 | 88 | 50 | 64 | 0.00 | 28.75 | 30.00 | NNE | 17.3 | 34.7 | 9.62 | 70.9 | 75.1 | 81 | 71 | | | |
| 22 | 68 | 49 | 58.0 | 40.0 | 7 | 0 | 72 | 37 | 52 | 0.00 | 29.01 | 30.27 | NNE | 11.0 | 26.5 | 24.58 | 67.8 | 71.1 | 77 | 66 | | | |
| 23 | 59 | 53 | 55.5 | 52.7 | 9 | 0 | 98 | 71 | 91 | 0.75 | 28.83 | 30.08 | E | 7.4 | 22.7 | 2.32 | 65.9 | 66.1 | 70 | 63 | | | |
| 24 | 64 | 59 | 61.5 | 60.0 | 4 | 0 | 98 | 88 | 95 | 1.44 | 28.55 | 29.79 | SE | 8.0 | 26.2 | 3.30 | 64.9 | 64.3 | 66 | 63 | | | |
| 25 | 59 | 53 | 55.3 | 52.5 | 9 | 0 | 97 | 82 | 91 | 0.84 | 28.54 | 29.78 | W | 10.0 | 23.7 | 6.40 | 63.8 | 62.9 | 64 | 61 | | | |
| 26 | 76 | 52 | 63.6 | 49.8 | 1 | 0 | 91 | 35 | 64 | 0.00 | 28.67 | 29.91 | NW | 12.3 | 30.9 | 28.06 | 64.2 | 65.1 | 72 | 59 | | | |
| 27 | 84 | 50 | 70.2 | 52.5 | 0 | 2 | 96 | 33 | 58 | 0.00 | 28.74 | 29.99 | SSE | 4.6 | 17.5 | 29.66 | 65.7 | 67.7 | 76 | 58 | | | |
| 28 | 87 | 66 | 77.5 | 61.3 | 0 | 11 | 71 | 46 | 58 | 0.00 | 28.51 | 29.75 | SSE | 13.2 | 35.2 | 24.88 | 68.6 | 69.7 | 75 | 64 | | | |
| 29 | 87 | 74 | 81.1 | 65.3 | 0 | 16 | 69 | 50 | 59 | 0.00 | 28.36 | 29.59 | S | 14.3 | 34.4 | 27.45 | 71.1 | 73.3 | 79 | 68 | | | |
| 30 | 86 | 71 | 78.9 | 66.2 | 0 | 14 | 79 | 55 | 65 | 0.00 | 28.43 | 29.67 | SSE | 14.1 | 35.7 | 23.21 | 72.1 | 76.1 | 83 | 70 | | | |
| 31 | 86 | 74 | 79.8 | 69.1 | 0 | 15 | 81 | 58 | 70 | 0.00 | 28.59 | 29.83 | S | 10.9 | 31.2 | 15.77 | 72.7 | 77.9 | 82 | 74 | | | |
| | 80* | 61* | 71.0* | 59.9* | <- Monthly Averages -> | | | | 28.61* | 29.85* | S | * | 10.5* | 47.2* | 20.45* | 69.2* | 72.8* | 79* | 67* | | | | |
| Temperature - Highest: 93* Lowest: 46* | | | | | Degree Days - Total HDD: 62* Total CDD: 241* | | | | | Number of Days With: Tmax ≥ 90: 5* Rainfall ≥ 0.01 inch: 6* Tmax ≤ 32: 0* Rainfall ≥ 0.10 inch: 6* Tmin ≤ 32: 0* Avg Wind Speed ≥ 10 mph: 20* Tmin ≤ 0: 0* Max Wind Speed ≥ 30 mph: 16* | | | | | | | | | | | | | |
| Rainfall: Monthly Total: 7.39* in. Greatest 24 Hr: 2.34* in. | | | | | Humidity - Highest: 99* Lowest: 30* | | | | | | | | | | | | | | | | | | |

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* Denotes incomplete record

Figure 22 May Mesonet Data