

Discharge Measurement Summary

Site name Sodhouse7
Site number 06
Operator(s) VAllen
File name Sodhouse7_20230710-144240.ft
Comment

| | | | |
|---------------------------------|-------------------|-------------------------------|-------------|
| Start time | 7/10/2023 1:51 PM | Sensor type | Top Setting |
| End time | 7/10/2023 2:42 PM | Handheld serial number | FT2H2219029 |
| Start location latitude | 43.250 | Probe serial number | FT2P2219014 |
| Start location longitude | -118.859 | Probe firmware | 1.30 |
| Calculations engine | FlowTracker2 | Handheld software | 1.7 |

| | | |
|-------------------|-------------------------|--|
| # Stations | Avg interval (s) | Total discharge (m³/s) |
| 26 | 40 | -0.0041 |

| | | |
|------------------------|-----------------------------------|-----------------------------|
| Total width (m) | Total area (m²) | Wetted Perimeter (m) |
| 3.139 | 1.27324 | 3.543 |

| | | |
|----------------------|-----------------------|----------------------------|
| Mean SNR (dB) | Mean depth (m) | Mean velocity (m/s) |
| 45 | 0.406 | -0.0033 |

| | | |
|-----------------------|----------------------|---------------------------|
| Mean temp (°C) | Max depth (m) | Max velocity (m/s) |
| 24.561 | 0.597 | -0.3767 |

| Discharge Uncertainty | | |
|-----------------------|-------|--------|
| Category | ISO | IVE |
| Accuracy | 1.0% | 1.0% |
| Depth | 0.7% | 8.5% |
| Velocity | 33.2% | 133.7% |
| Width | 0.7% | 0.7% |
| Method | 4.8% | |
| # Stations | 2.0% | |
| Overall | 33.6% | 134.0% |

| | |
|------------------------------|-------------|
| Discharge equation | Mid Section |
| Discharge uncertainty | IVE |
| Discharge reference | Rated |

| Data Collection Settings | |
|----------------------------|--------------|
| Salinity | 0.000 PSS-78 |
| Temperature | - |
| Sound speed | - |
| Mounting correction | 0.000 % |

Summary overview

No changes were made to this file
Quality control warnings

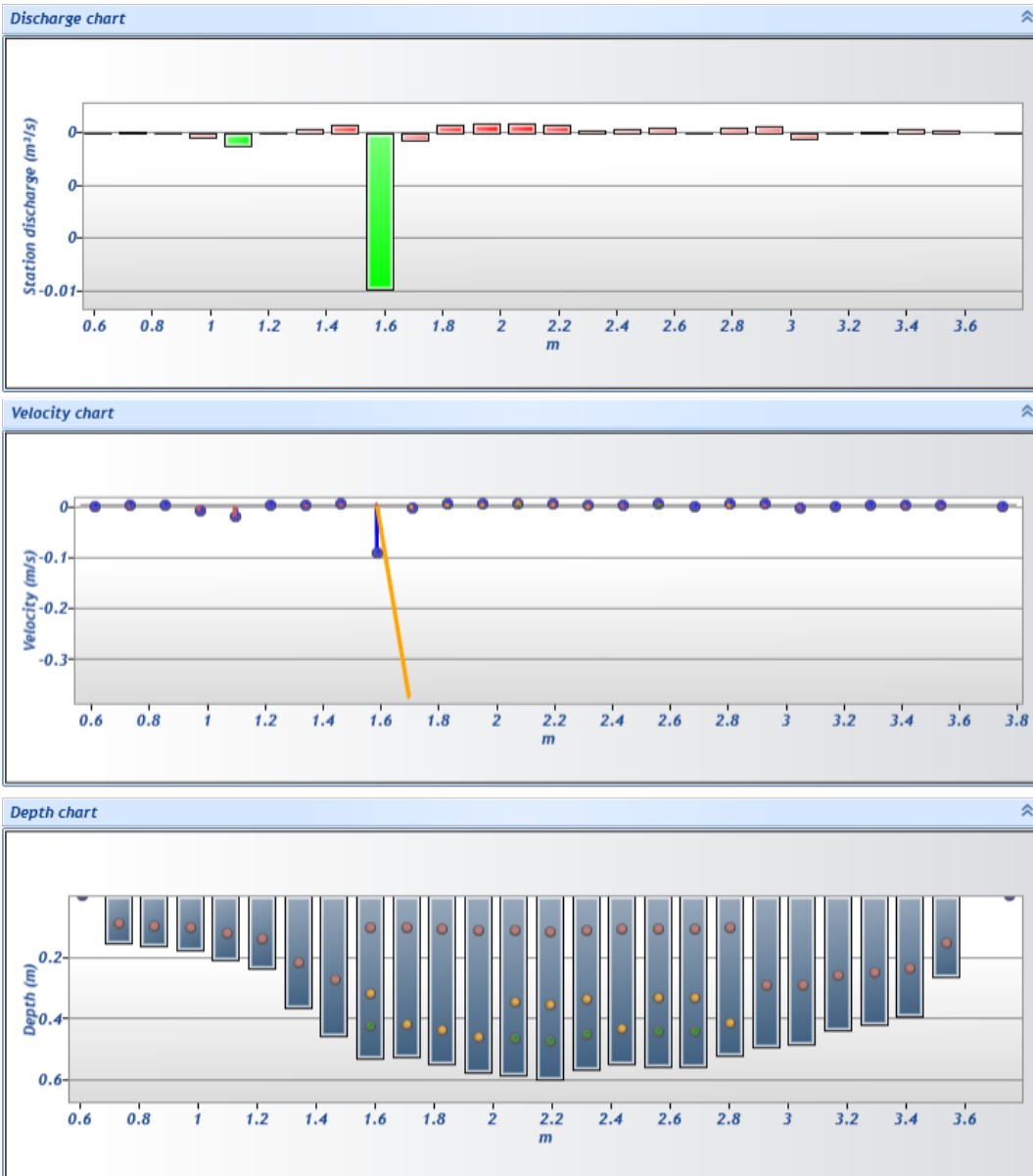


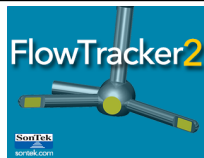
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Station Warning Settings

| | |
|----------------------------------|-------------------------------------|
| Station discharge OK | Station discharge < 5.00% |
| Station discharge caution | 5.00% >= Station discharge < 10.00% |
| Station discharge warning | Station discharge >= 10.00% |





Discharge Measurement Summary

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Measurement results

| St# | Time | Location (m) | Method | Depth (m) | %Depth | Measured Depth (m) | Samples | Velocity (m/s) | Correction | Mean Velocity (m/s) | Area (m ²) | Flow (m ³ /s) | %Q | |
|-----|---------|--------------|-------------|-----------|--------|--------------------|---------|----------------|------------|---------------------|------------------------|--------------------------|--------|---|
| 0 | 1:51 PM | 0.610 | None | 0.000 | 0.0000 | 0.000 | 0 | 0.0000 | 1.0000 | 0.0014 | 0.00000 | 0.0000 | 0.00 | ✓ |
| 1 | 1:51 PM | 0.732 | 0.6 | 0.152 | 0.6000 | 0.091 | 80 | 0.0014 | 1.0000 | 0.0014 | 0.01858 | 0.0000 | -0.63 | ✓ |
| 2 | 1:53 PM | 0.853 | 0.6 | 0.165 | 0.6000 | 0.099 | 80 | 0.0001 | 1.0000 | 0.0001 | 0.02007 | 0.0000 | -0.07 | ✓ |
| 3 | 1:54 PM | 0.975 | 0.6 | 0.177 | 0.6000 | 0.106 | 80 | -0.0085 | 1.0000 | -0.0085 | 0.02155 | -0.0002 | 4.41 | ✓ |
| 4 | 1:56 PM | 1.097 | 0.6 | 0.207 | 0.6000 | 0.124 | 80 | -0.0192 | 1.0000 | -0.0192 | 0.02527 | -0.0005 | 11.72 | ✓ |
| 5 | 1:57 PM | 1.219 | 0.6 | 0.238 | 0.6000 | 0.143 | 80 | 0.0003 | 1.0000 | 0.0003 | 0.02899 | 0.0000 | -0.18 | ✓ |
| 6 | 1:58 PM | 1.341 | 0.6 | 0.366 | 0.6000 | 0.219 | 80 | 0.0028 | 1.0000 | 0.0028 | 0.04459 | 0.0001 | -3.01 | ✓ |
| 7 | 2:00 PM | 1.463 | 0.6 | 0.457 | 0.6000 | 0.274 | 80 | 0.0054 | 1.0000 | 0.0054 | 0.05574 | 0.0003 | -7.23 | ✓ |
| 8 | 2:01 PM | 1.585 | 0.2/0.6/0.8 | 0.530 | 0.2000 | 0.106 | 80 | 0.0006 | 1.0000 | -0.0915 | 0.06466 | -0.0059 | 142.71 | ✓ |
| 8 | 2:01 PM | 1.585 | 0.2/0.6/0.8 | 0.530 | 0.6000 | 0.318 | 80 | 0.0051 | 1.0000 | -0.0915 | 0.06466 | -0.0059 | 142.71 | ✓ |
| 8 | 2:01 PM | 1.585 | 0.2/0.6/0.8 | 0.530 | 0.8000 | 0.424 | 80 | -0.3767 | 1.0000 | -0.0915 | 0.06466 | -0.0059 | 142.71 | ✓ |
| 9 | 2:05 PM | 1.707 | 0.2/0.8 | 0.524 | 0.2000 | 0.105 | 80 | -0.0054 | 1.0000 | -0.0041 | 0.06392 | -0.0003 | 6.34 | ✓ |
| 9 | 2:05 PM | 1.707 | 0.2/0.8 | 0.524 | 0.8000 | 0.419 | 80 | -0.0028 | 1.0000 | -0.0041 | 0.06392 | -0.0003 | 6.34 | ✓ |
| 10 | 2:08 PM | 1.829 | 0.2/0.8 | 0.549 | 0.2000 | 0.110 | 80 | 0.0047 | 1.0000 | 0.0044 | 0.06689 | 0.0003 | -7.17 | ✓ |
| 10 | 2:08 PM | 1.829 | 0.2/0.8 | 0.549 | 0.8000 | 0.439 | 80 | 0.0041 | 1.0000 | 0.0044 | 0.06689 | 0.0003 | -7.17 | ✓ |
| 11 | 2:10 PM | 1.951 | 0.2/0.8 | 0.576 | 0.2000 | 0.115 | 80 | 0.0065 | 1.0000 | 0.0052 | 0.07023 | 0.0004 | -8.78 | ✓ |
| 11 | 2:10 PM | 1.951 | 0.2/0.8 | 0.576 | 0.8000 | 0.461 | 80 | 0.0038 | 1.0000 | 0.0052 | 0.07023 | 0.0004 | -8.78 | ✓ |
| 12 | 2:12 PM | 2.073 | 0.2/0.6/0.8 | 0.582 | 0.2000 | 0.116 | 80 | 0.0024 | 1.0000 | 0.0053 | 0.07098 | 0.0004 | -9.12 | ✓ |
| 12 | 2:12 PM | 2.073 | 0.2/0.6/0.8 | 0.582 | 0.6000 | 0.349 | 80 | 0.0089 | 1.0000 | 0.0053 | 0.07098 | 0.0004 | -9.12 | ✓ |
| 12 | 2:12 PM | 2.073 | 0.2/0.6/0.8 | 0.582 | 0.8000 | 0.466 | 80 | 0.0011 | 1.0000 | 0.0053 | 0.07098 | 0.0004 | -9.12 | ✓ |
| 13 | 2:16 PM | 2.195 | 0.2/0.6/0.8 | 0.597 | 0.2000 | 0.119 | 80 | 0.0009 | 1.0000 | 0.0042 | 0.07284 | 0.0003 | -7.32 | ✓ |
| 13 | 2:16 PM | 2.195 | 0.2/0.6/0.8 | 0.597 | 0.6000 | 0.358 | 80 | 0.0066 | 1.0000 | 0.0042 | 0.07284 | 0.0003 | -7.32 | ✓ |
| 13 | 2:16 PM | 2.195 | 0.2/0.6/0.8 | 0.597 | 0.8000 | 0.478 | 80 | 0.0025 | 1.0000 | 0.0042 | 0.07284 | 0.0003 | -7.32 | ✓ |
| 14 | 2:19 PM | 2.316 | 0.2/0.6/0.8 | 0.564 | 0.2000 | 0.113 | 80 | -0.0009 | 1.0000 | 0.0012 | 0.06875 | 0.0001 | -2.03 | ✓ |
| 14 | 2:19 PM | 2.316 | 0.2/0.6/0.8 | 0.564 | 0.6000 | 0.338 | 80 | 0.0043 | 1.0000 | 0.0012 | 0.06875 | 0.0001 | -2.03 | ✓ |
| 14 | 2:19 PM | 2.316 | 0.2/0.6/0.8 | 0.564 | 0.8000 | 0.451 | 80 | -0.0029 | 1.0000 | 0.0012 | 0.06875 | 0.0001 | -2.03 | ✓ |
| 15 | 2:22 PM | 2.438 | 0.2/0.8 | 0.546 | 0.2000 | 0.109 | 80 | 0.0030 | 1.0000 | 0.0020 | 0.06652 | 0.0001 | -3.19 | ✓ |
| 15 | 2:22 PM | 2.438 | 0.2/0.8 | 0.546 | 0.8000 | 0.436 | 80 | 0.0009 | 1.0000 | 0.0020 | 0.06652 | 0.0001 | -3.19 | ✓ |
| 16 | 2:25 PM | 2.560 | 0.2/0.6/0.8 | 0.555 | 0.2000 | 0.111 | 80 | 0.0056 | 1.0000 | 0.0034 | 0.06763 | 0.0002 | -5.53 | ✓ |
| 16 | 2:25 PM | 2.560 | 0.2/0.6/0.8 | 0.555 | 0.6000 | 0.333 | 80 | 0.0032 | 1.0000 | 0.0034 | 0.06763 | 0.0002 | -5.53 | ✓ |
| 16 | 2:25 PM | 2.560 | 0.2/0.6/0.8 | 0.555 | 0.8000 | 0.444 | 80 | 0.0017 | 1.0000 | 0.0034 | 0.06763 | 0.0002 | -5.53 | ✓ |
| 17 | 2:28 PM | 2.682 | 0.2/0.6/0.8 | 0.555 | 0.2000 | 0.111 | 80 | 0.0006 | 1.0000 | 0.0001 | 0.06763 | 0.0000 | -0.13 | ✓ |
| 17 | 2:28 PM | 2.682 | 0.2/0.6/0.8 | 0.555 | 0.6000 | 0.333 | 80 | -0.0006 | 1.0000 | 0.0001 | 0.06763 | 0.0000 | -0.13 | ✓ |
| 17 | 2:28 PM | 2.682 | 0.2/0.6/0.8 | 0.555 | 0.8000 | 0.444 | 80 | 0.0010 | 1.0000 | 0.0001 | 0.06763 | 0.0000 | -0.13 | ✓ |
| 18 | 2:31 PM | 2.804 | 0.2/0.8 | 0.521 | 0.2000 | 0.104 | 80 | 0.0025 | 1.0000 | 0.0031 | 0.06355 | 0.0002 | -4.71 | ✓ |
| 18 | 2:31 PM | 2.804 | 0.2/0.8 | 0.521 | 0.8000 | 0.417 | 80 | 0.0037 | 1.0000 | 0.0031 | 0.06355 | 0.0002 | -4.71 | ✓ |
| 19 | 2:33 PM | 2.926 | 0.6 | 0.491 | 0.6000 | 0.294 | 80 | 0.0043 | 1.0000 | 0.0043 | 0.05983 | 0.0003 | -6.24 | ✓ |
| 20 | 2:35 PM | 3.048 | 0.6 | 0.485 | 0.6000 | 0.291 | 80 | -0.0039 | 1.0000 | -0.0039 | 0.05909 | -0.0002 | 5.57 | ✓ |
| 21 | 2:36 PM | 3.170 | 0.6 | 0.436 | 0.6000 | 0.262 | 80 | -0.0003 | 1.0000 | -0.0003 | 0.05314 | 0.0000 | 0.42 | ✓ |
| 22 | 2:37 PM | 3.292 | 0.6 | 0.418 | 0.6000 | 0.251 | 80 | 0.0004 | 1.0000 | 0.0004 | 0.05091 | 0.0000 | -0.52 | ✓ |
| 23 | 2:39 PM | 3.414 | 0.6 | 0.393 | 0.6000 | 0.236 | 80 | 0.0027 | 1.0000 | 0.0027 | 0.04794 | 0.0001 | -3.17 | ✓ |
| 24 | 2:40 PM | 3.536 | 0.6 | 0.262 | 0.6000 | 0.157 | 80 | 0.0020 | 1.0000 | 0.0020 | 0.04394 | 0.0001 | -2.15 | ✓ |
| 25 | 2:42 PM | 3.749 | None | 0.000 | 0.0000 | 0.000 | 0 | 0.0000 | 1.0000 | 0.0020 | 0.00000 | 0.0000 | 0.00 | ✓ |



Discharge Measurement Summary

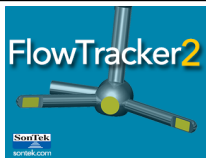
Site name Sodhouse7
Site number 06
Operator(s) VAllen
File name Sodhouse7_20230710-144240.ft
Comment

Quality Control Settings

Maximum depth change 50.00%
Maximum spacing change 100.00%
SNR threshold 10 dB
Standard error threshold 0.0100 m/s
Spike threshold 10.00%
Maximum velocity angle 20.0 deg
Maximum tilt angle 5.0 deg

Quality control warnings

| St# | Time | Location (m) | Method | Depth (m) | %Depth | Measured Depth (m) | Warnings |
|-----|---------|--------------|-------------|-----------|--------|--------------------|--|
| 1 | 1:51 PM | 0.732 | 0.6 | 0.152 | 0.6000 | 0.091 | Boundary Interference,Beam SNRs Not Similar,SNR Threshold Variation |
| 2 | 1:53 PM | 0.853 | 0.6 | 0.165 | 0.6000 | 0.099 | Boundary Interference,SNR Threshold Variation |
| 4 | 1:56 PM | 1.097 | 0.6 | 0.207 | 0.6000 | 0.124 | Large SNR Variation,SNR Threshold Variation,High Stn % Discharge |
| 6 | 1:58 PM | 1.341 | 0.6 | 0.366 | 0.6000 | 0.219 | Large SNR Variation |
| 7 | 2:00 PM | 1.463 | 0.6 | 0.457 | 0.6000 | 0.274 | SNR Threshold Variation |
| 8 | 2:01 PM | 1.585 | 0.2/0.6/0.8 | 0.530 | 0.2000 | 0.106 | Boundary Interference,Approaching Low SNR,Beam SNRs Not Similar,SNR Threshold Variation,Standard Error > QC,Velocity Angle > QC,High Stn % Discharge |
| 8 | 2:01 PM | 1.585 | 0.2/0.6/0.8 | 0.530 | 0.6000 | 0.318 | Boundary Interference,Approaching Low SNR,Beam SNRs Not Similar,SNR Threshold Variation,Standard Error > QC,Velocity Angle > QC,High Stn % Discharge |
| 8 | 2:01 PM | 1.585 | 0.2/0.6/0.8 | 0.530 | 0.8000 | 0.424 | Boundary Interference,Approaching Low SNR,Beam SNRs Not Similar,SNR Threshold Variation,Standard Error > QC,Velocity Angle > QC,High Stn % Discharge |
| 9 | 2:05 PM | 1.707 | 0.2/0.8 | 0.524 | 0.2000 | 0.105 | SNR Threshold Variation,High % Spikes |
| 9 | 2:05 PM | 1.707 | 0.2/0.8 | 0.524 | 0.8000 | 0.419 | SNR Threshold Variation,High % Spikes |
| 12 | 2:12 PM | 2.073 | 0.2/0.6/0.8 | 0.582 | 0.2000 | 0.116 | Large SNR Variation |
| 12 | 2:12 PM | 2.073 | 0.2/0.6/0.8 | 0.582 | 0.6000 | 0.349 | Large SNR Variation |
| 12 | 2:12 PM | 2.073 | 0.2/0.6/0.8 | 0.582 | 0.8000 | 0.466 | Large SNR Variation |
| 14 | 2:19 PM | 2.316 | 0.2/0.6/0.8 | 0.564 | 0.2000 | 0.113 | Boundary Interference |
| 14 | 2:19 PM | 2.316 | 0.2/0.6/0.8 | 0.564 | 0.6000 | 0.338 | Boundary Interference |
| 14 | 2:19 PM | 2.316 | 0.2/0.6/0.8 | 0.564 | 0.8000 | 0.451 | Boundary Interference |
| 16 | 2:25 PM | 2.560 | 0.2/0.6/0.8 | 0.555 | 0.2000 | 0.111 | Large SNR Variation |
| 16 | 2:25 PM | 2.560 | 0.2/0.6/0.8 | 0.555 | 0.6000 | 0.333 | Large SNR Variation |
| 16 | 2:25 PM | 2.560 | 0.2/0.6/0.8 | 0.555 | 0.8000 | 0.444 | Large SNR Variation |
| 18 | 2:31 PM | 2.804 | 0.2/0.8 | 0.521 | 0.2000 | 0.104 | Large SNR Variation |
| 18 | 2:31 PM | 2.804 | 0.2/0.8 | 0.521 | 0.8000 | 0.417 | Large SNR Variation |
| 20 | 2:35 PM | 3.048 | 0.6 | 0.485 | 0.6000 | 0.291 | Boundary Interference |
| 24 | 2:40 PM | 3.536 | 0.6 | 0.262 | 0.6000 | 0.157 | SNR Threshold Variation |
| 25 | 2:42 PM | 3.749 | None | 0.000 | 0.0000 | 0.000 | Water Depth > QC |



Discharge Measurement Summary

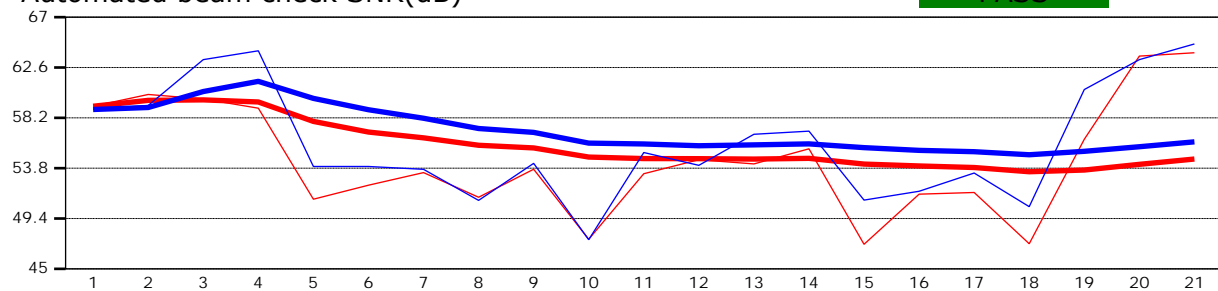
Site name Sodhouse7
Site number 06
Operator(s) VAllen
File name Sodhouse7_20230710-144240.ft
Comment

| | |
|---------------|--|
| Beam 1 | |
| Beam 2 | |

Automated beam check Start time 7/10/2023 1:51:16 PM

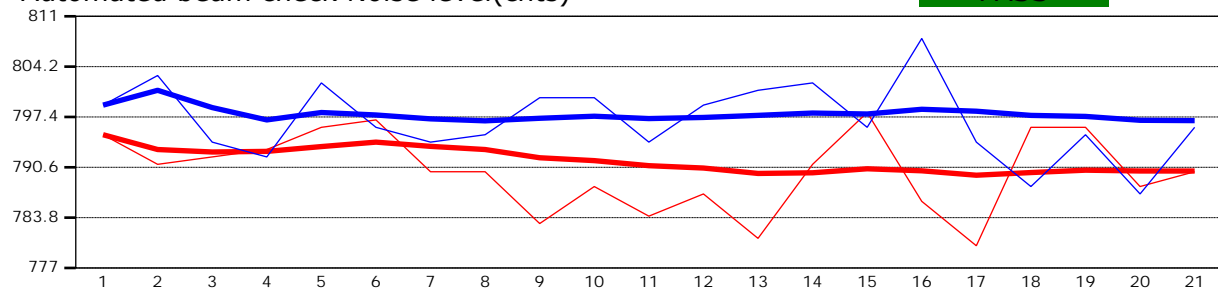
Automated beam check SNR(dB)

PASS



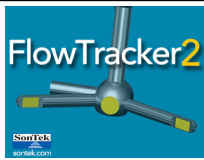
Automated beam check Noise level(cnts)

PASS



Automated beam check Quality control warnings

No quality control warnings



Discharge Measurement Summary

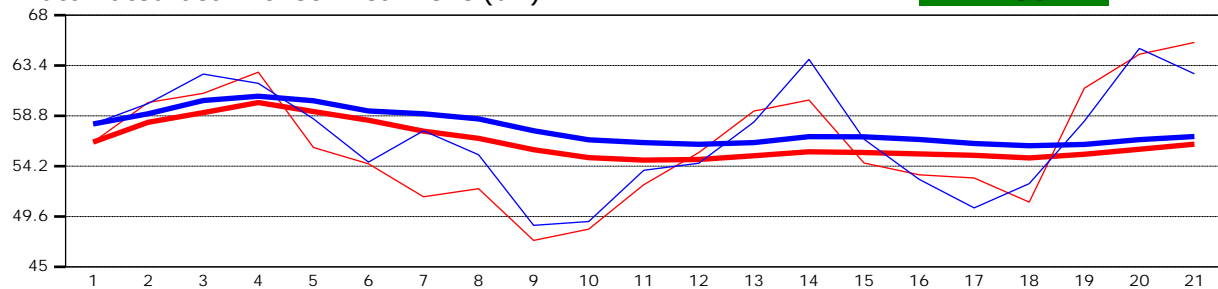
Site name Sodhouse7
Site number 06
Operator(s) VAllen
File name Sodhouse7_20230710-144240.ft
Comment

| | |
|---------------|--|
| Beam 1 | |
| Beam 2 | |

Automated beam check Start time 7/10/2023 1:51:16 PM

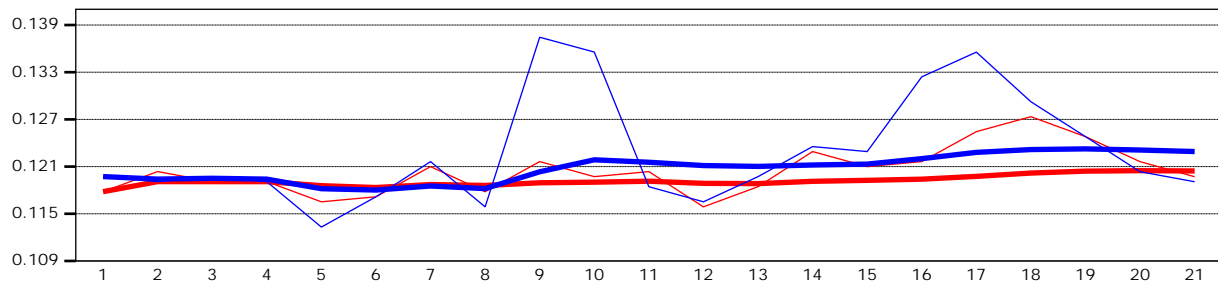
Automated beam check Peak level(dB)

PASS



Automated beam check Peak position(m)

PASS



Automated beam check Quality control warnings

No quality control warnings