

# Monitoring Well Sample Log

Low Flow Sampling

|                                    |                                  |   |
|------------------------------------|----------------------------------|---|
| Client/Project Name: Morgan School |                                  | <b>FUSS &amp; O'NEILL</b><br><i>Discipline to Deliver</i> |
| Project Location: Clinton, CT      | PROJECT #: 20150298.A10          |   |
| Sample#: 1176150706-01             | WELL ID: MW-101 <sup>M/MDO</sup> |   |

### Purge Data

### Sample Data

|   |                          |                |          |                |
|---|--------------------------|----------------|----------|----------------|
| Date: 7/6/2015  |                          | Container      | Quantity | Preservative   |
| Start time: 0926  | Stop time: 0945          | VOA            | 3 x 3    | HCl            |
| Pump Rate: 200 (ml/m)                                   | Depth Sampled: 4.5       | Amber L. P 250 | 3 x 3    | Ice            |
| Total time purged: 19                                   | Sampler: DAC             | P 250          | 1 x 3    | P/HNO3<br>HNO3 |
| Volume Purged: ~3.8 (ltr)                               | Weather: Sunny 80s       |                |          |                |
| Purge Device: <u>Dedicated</u> / Nondedicated           |                          |                |          |                |
| Device Type: Bladder / <u>Crystallite</u> / Submersible |                          |                |          |                |
| Filtered? <u>N</u> / Y Filter Size: 10u / 0.45u         | Filtered in: Field / Lab |                |          |                |
| Appearance: <u>Clear</u>                                | PVC: 4.57 3.57           |                |          |                |
| Well Yield: <u>High</u> / Moderate / Low / Dry          | TPS: 4.03 3.93           |                |          |                |
| Well Diameter: 1.5                                      | DTB: 6.15                |                |          |                |
| Comments: metallic color, slight stream                 |                          |                |          |                |

### Field Parameter Data

#### Instrument ID#

| Solinst# <u>N</u>          | 2020# <u>3</u> | YSI 600 # <u>3</u> |                         |      |               |                            |         |
|----------------------------|----------------|--------------------|-------------------------|------|---------------|----------------------------|---------|
| Water Level (ft) <u>FW</u> | Time           | Turbidity (ntu)    | Dissolved Oxygen (mg/L) | pH   | Temp. (deg C) | Specific Conductivity (uS) | ORP(mV) |
| 3.57                       | 0926           | <u>Begin</u>       | <u>Purge</u>            |      |               |                            |         |
| 3.57                       | 0936           | 4.66               | 0.31                    | 6.38 | 23.3          | 3484                       | -126.2  |
| 3.57                       | 0939           | 0.77               | 0.23                    | 6.39 | 23.3          | 3378                       | -130.0  |
| 3.57                       | 0942           | 0.66               | 0.22                    | 6.38 | 23.3          | 3781                       | -129.8  |
| 3.57                       | 0945           | 0.82               | 0.24                    | 6.39 | 23.3          | 3380                       | -131.4  |
|                            | 0948           | <u>Sample</u>      |                         |      |               |                            |         |
|                            |                |                    |                         |      |               |                            |         |
|                            |                |                    |                         |      |               |                            |         |
|                            |                |                    |                         |      |               |                            |         |
|                            |                |                    |                         |      |               |                            |         |
|                            |                |                    |                         |      |               |                            |         |
|                            |                |                    |                         |      |               |                            |         |
|                            |                |                    |                         |      |               |                            |         |
|                            |                |                    |                         |      |               |                            |         |
|                            |                |                    |                         |      |               |                            |         |
|                            |                |                    |                         |      |               |                            |         |
|                            |                |                    |                         |      |               |                            |         |
|                            |                |                    |                         |      |               |                            |         |
|                            |                |                    |                         |      |               |                            |         |
|                            |                |                    |                         |      |               |                            |         |
|                            |                |                    |                         |      |               |                            |         |
|                            |                |                    |                         |      |               |                            |         |


#### Well Condition Checklist

(circle appropriate item(s), cross out if not applicable)

|  |   |
|--|---|
| <p>General Condition: <u>Good</u> / Needs Repair</p> <p>Protective Steel: <u>OK</u> / Cracked / Leaking / Bent / Loose / None</p> <p>Well # Visible: <u>Y</u> / N</p> <p>Well Cap: <u>Good</u> / Broken / None</p> <p>Evidence of rain water between steel and PVC?: Y / <u>N</u></p> <p>Evidence of ponding around well?: Y / <u>N</u></p> <p>Gopher type holes around collar?: Y / <u>N</u></p> <p>Comments:</p> | <p>Is well plumb?: <u>Y</u> / N</p> <p>Lock: Good / Broken / <u>None</u></p> <p>Rust around cap: Y / <u>N</u></p> <p>PVC Riser: <u>Good</u> / Damaged / None</p> <p>Concrete collar: <u>OK</u> / Cracked / Leaking / None</p> <p>Other evidence of Rodents / Insects / <u>None</u></p> <p>Curb Box: N / Y (Key is: <u>Hex</u> / Pent / Other)</p> |
|--|---|

# Monitoring Well Sample Log

Low Flow Sampling

|                                    |                         |   |
|------------------------------------|-------------------------|---|
| Client/Project Name: Morgan School |                         |  <b>FUSS &amp; O'NEILL</b><br><i>Discipline to Deliver</i> |
| Project Location: Clinton, CT      | PROJECT #: 20150298.A10 |   |
| Sample #: 1176150706 -02           | WELL ID: MW-07          |   |

### Purge Data

-03 duplicate

### Sample Data

|  |  |                        |                |          |              |
|--|--|------------------------|----------------|----------|--------------|
| Date: 7/6/2015   |  |                        | Container      | Quantity | Preservative |
| Start time: 1020   | Stop time: 1120  | Sample time: 1125/1130 | VOA            | 3 x 2    | HCl          |
| Pump Rate: 200 (ml/m)  | Depth Sampled: 12'                                     | Sampler: DAC           | Amber J. P 250 | 1 x 2    | Ice          |
| Total time purged: 60  | Weather: Sunny 80s                                     |                        | P 250          | 1 x 2    | F/HNO3       |
| Volume Purged: 12 (ltr)  |  |                        |                | 1 x 2    | HNO3         |
| Purge Device: <del>Dedicated</del> / Nondedicated  |  |                        |                |          |              |
| Device Type: Bladder / <del>Peristaltic</del> / Submersible  |  |                        |                |          |              |
| Filtered? N / <input checked="" type="checkbox"/> Filter Size: <input checked="" type="checkbox"/> / 0.45u | Filtered in: <input checked="" type="checkbox"/> / Lab |                        |                |          |              |
| Appearance: brown clouds   | PVC: 7.14  |                        |                |          |              |
| Well Yield: High / <input checked="" type="checkbox"/> Moderate / Low / Dry                                | TPS: 7.35  |                        |                |          |              |
| Well Diameter: 2"  | DTB: 15.20   |                        |                |          |              |
| Comments: metallic odor/silt in bottom of well   |  |                        |                |          |              |

10.4

### Field Parameter Data

#### Instrument ID#

| Solinst# / W     | 2020# | YSI 600 #        |                         |      |               |                            |         |
|------------------|-------|------------------|-------------------------|------|---------------|----------------------------|---------|
| Water Level (ft) | Time  | Turbidity (ntu)  | Dissolved Oxygen (mg/l) | pH   | Temp. (deg C) | Specific Conductivity (uS) | ORP(mV) |
| 7.14             | 1020  | Begin            | Purge                   |      |               |                            |         |
| 7.90             | 1045  | 71000            | 0.23                    | 6.23 | 17.3          | 1988                       | -210.8  |
| 7.90             | 1050  | 71000            | 0.22                    | 6.22 | 17.1          | 1958                       | -213.7  |
| 7.90             | 1055  | 71000            | 0.24                    | 6.22 | 17.2          | 1984                       | -37.5   |
| 7.90             | 1100  | 71000            | 0.24                    | 6.24 | 17.4          | 2003                       | -223.5  |
| 7.90             | 1105  | 71000            | 0.25                    | 6.22 | 17.5          | 1975                       | -208.1  |
| 7.90             | 1110  | 71020            | 0.22                    | 6.23 | 17.5          | 1970                       | -232.1  |
| 7.90             | 1115  | 71020            | 0.23                    | 6.22 | 17.5          | 1982                       | -222.7  |
| 7.90             | 1120  | 71000            | 0.21                    | 6.22 | 17.4          | 1985                       | -229.5  |
|                  | 1125  | Sample primary   |                         |      |               |                            |         |
|                  | 1130  | Sample duplicate |                         |      |               |                            |         |


#### Well Condition Checklist

(circle appropriate item(s), cross out if not applicable)

|  |  |
|--|--|
| <p>General Condition: <input checked="" type="checkbox"/> Good / Needs Repair</p> <p>Protective Steel: <input checked="" type="checkbox"/> OK / Cracked / Leaking / Bent / Loose / None</p> <p>Well # Visible?: <input checked="" type="checkbox"/> Y / N</p> <p>Well Cap: <input checked="" type="checkbox"/> Good / Broken / None</p> <p>Evidence of rain water between steel and PVC?: Y / <input checked="" type="checkbox"/> N</p> <p>Evidence of ponding around well?: Y / <input checked="" type="checkbox"/> N</p> <p>Gopher type holes around collar?: Y / <input checked="" type="checkbox"/> N</p> <p>Comments:</p> | <p>Is well plumb?: <input checked="" type="checkbox"/> Y / N</p> <p>Lock: Good / Broken / None</p> <p>Rust around cap: <input checked="" type="checkbox"/> Y / N</p> <p>PVC Riser: <input checked="" type="checkbox"/> Good / Damaged / None</p> <p>Concrete collar: OK / Cracked / Leaking / None</p> <p>Other evidence of: Rodents / Insects / None</p> <p>Curb Box: N / <input checked="" type="checkbox"/> Y (key is <input checked="" type="checkbox"/> Hex / Pent / Other)</p> |
|--|--|

# Monitoring Well Sample Log

Low Flow Sampling

|                                    |                         |  |
|------------------------------------|-------------------------|--|
| Client/Project Name: Morgan School |                         |  <b>FUSS &amp; O'NEILL</b><br><i>Discipline. to Deliver</i> |
| Project Location: Clinton, CT      | PROJECT #: 20150298.A10 |  |
| Sample #: 1176150706 -64           | WELL ID: MW-03          |  |

### Purge Data

### Sample Data

|   |                                 |                   |  |           |          |              |
|---|---------------------------------|-------------------|--|-----------|----------|--------------|
| Date: 7/6/2015  |                                 |                   |  | Container | Quantity | Preservative |
| Start time: 1200                                      | Stop time: 1235                 | Sample time: 1237 |  | VOA       | 3 ✓      | HCl          |
| Pump Rate: 200 (ml/m)                                 | Depth Sampled: 91               |                   |  | Amber L.  | 3 ✓      | Ice          |
| Total time purged: 35                                 | Sampler: DAC                    |                   |  | P 250     | 1 ✓      | F/HNO3       |
| Volume Purged: 7 (ltr)                                | Weather: Sunny 80s              |                   |  | P 250     | 1 ✓      | HNO3         |
| Purge Device: Dedicated / Nondedicated                |                                 |                   |  |           |          |              |
| Device Type: Bladder / <u>Cristatic</u> / Submersible |                                 |                   |  |           |          |              |
| Filtered? <u>N</u> Filter Size: 10 / 0.45u            | Filtered in: <u>Field</u> / Lab |                   |  |           |          |              |
| Appearance: <u>dark brown</u>                         | PVC: 6.71                       |                   |  |           |          |              |
| Well Yield: High / Moderate / Low / Dry               | TPS: 7.08                       |                   |  |           |          |              |
| Well Diameter:  | DTB: 12.72                      |                   |  |           |          |              |
| Comments: <u>swamp odor</u>                           |                                 |                   |  |           |          |              |

### Field Parameter Data

#### Instrument ID#

| Solinst# <u>PW</u>           | 2020# <u>3</u> | YSI 600 # <u>3</u> |                         |             |               |                            |              |
|------------------------------|----------------|--------------------|-------------------------|-------------|---------------|----------------------------|--------------|
| Water Level (ft) <u>6.71</u> | Time           | Turbidity (ntu)    | Dissolved Oxygen (mg/l) | pH          | Temp. (deg C) | Specific Conductivity (uS) | ORP(mV)      |
|                              | 1200           | <u>Begin</u>       | <u>purge</u>            |             |               |                            |              |
| <u>7.65</u>                  | 1215           | <u>71000</u>       | <u>0.76</u>             | <u>5.79</u> | <u>13.5</u>   | <u>363.7</u>               | <u>-15.3</u> |
| <u>7.65</u>                  | 1220           | <u>51000</u>       | <u>0.39</u>             | <u>5.84</u> | <u>13.5</u>   | <u>387.2</u>               | <u>-26.2</u> |
| <u>7.65</u>                  | 1225           | <u>71000</u>       | <u>0.20</u>             | <u>5.86</u> | <u>13.6</u>   | <u>429.1</u>               | <u>-34.9</u> |
| <u>7.65</u>                  | 1230           | <u>71000</u>       | <u>0.19</u>             | <u>5.86</u> | <u>13.6</u>   | <u>427.4</u>               | <u>-35.9</u> |
| <u>7.65</u>                  | 1235           | <u>71000</u>       | <u>0.17</u>             | <u>5.87</u> | <u>13.6</u>   | <u>438.9</u>               | <u>-37.7</u> |
|                              | 1237           | <u>Sample</u>      |                         |             |               |                            |              |
|                              |                |                    |                         |             |               |                            |              |
|                              |                |                    |                         |             |               |                            |              |
|                              |                |                    |                         |             |               |                            |              |
|                              |                |                    |                         |             |               |                            |              |
|                              |                |                    |                         |             |               |                            |              |
|                              |                |                    |                         |             |               |                            |              |
|                              |                |                    |                         |             |               |                            |              |
|                              |                |                    |                         |             |               |                            |              |
|                              |                |                    |                         |             |               |                            |              |
|                              |                |                    |                         |             |               |                            |              |
|                              |                |                    |                         |             |               |                            |              |
|                              |                |                    |                         |             |               |                            |              |
|                              |                |                    |                         |             |               |                            |              |
|                              |                |                    |                         |             |               |                            |              |
|                              |                |                    |                         |             |               |                            |              |
|                              |                |                    |                         |             |               |                            |              |


#### Well Condition Checklist

(circle appropriate item(s), cross out if not applicable)

|   |  |
|---|--|
| <p>General Condition: <u>Good</u> / Needs Repair</p> <p>Protective Steel: <u>OK</u> / Cracked / Leaking / Bent / Loose / None</p> <p>Well # Visible?: <u>Y</u> / <u>N</u></p> <p>Well Cap: <u>Good</u> / Broken / None</p> <p>Evidence of rain water between steel and PVC?: <u>Y</u> / <u>N</u></p> <p>Evidence of ponding around well?: <u>Y</u> / <u>N</u></p> <p>Gopher type holes around collar?: <u>Y</u> / <u>N</u></p> <p>Comments:</p> | <p>Is well plumb?: <u>Y</u> / N</p> <p>Lock: Good / Broken / <u>None</u></p> <p>Rust around cap: <u>Y</u> / N</p> <p>PVC Riser: <u>Good</u> / Damaged / None</p> <p>Concrete collar: <u>OK</u> / Cracked / Leaking / None</p> <p>Other evidence of: Rodents / Insects / <u>None</u></p> <p>Curb Box: N / <u>Y</u> (key is: Hex / Pent / Other)</p> |
|---|--|

# Monitoring Well Sample Log

Low Flow Sampling

|                                    |                         |  |
|------------------------------------|-------------------------|--|
| Client/Project Name: Morgan School |                         |  <b>FUSS &amp; O'NEILL</b><br><i>Discipline. to Deliver</i> |
| Project Location: Clinton, CT      | PROJECT #: 20150298.A10 |  |
| Sample#: 1176150706 - 06           | WELL ID: MW-01          |  |

### Purge Data

### Sample Data

|  |                          |                    |  |                  |          |                   |
|--|--------------------------|--------------------|--|------------------|----------|-------------------|
| Date: 7/6/2015   |                          |                    |  | Container        | Quantity | Preservative      |
| Start time: 1300   | Stop time: 1319          | Sample time: 1320  |  | VOA              | 3 ✓      | HCl               |
| Pump Rate: 200 (ml/m)  |                          | Depth Sampled: 11  |  | Amber L          | 3 ✓      | Ice               |
| Total time purged: 19  |                          | Sampler: DAC       |  | <del>P 250</del> |          | <del>E/HNO3</del> |
| Volume Purged: 3.8 (ltr)   |                          | Weather: Sunny 80s |  | P 250            | 1 ✓      | HNO3              |
| Purge Device: <del>Dedicated</del> / Nondedicated                          |                          |                    |  |                  |          |                   |
| Device Type: Bladder / <del>Peristaltic</del> / Submersible                |                          |                    |  |                  |          |                   |
| Filtered? <input checked="" type="checkbox"/> / Y Filter Size: 10u / 0.45u | Filtered in: Field / Lab |                    |  |                  |          |                   |
| Appearance: Clear  | PVC: 6.35                |                    |  |                  |          |                   |
| Well Yield: High / Moderate / Low / Dry                                    | TPS: 6.95                |                    |  |                  |          |                   |
| Well Diameter: 2   | DTB: 14.44               |                    |  |                  |          |                   |
| Comments:  |                          |                    |  |                  |          |                   |

### Field Parameter Data

#### Instrument ID#

| Solinst#    | Time | Turbidity (ntu) | Dissolved Oxygen (mg/l) | pH   | Temp. (deg C) | Specific Conductivity (uS) | ORP(mV) |
|-------------|------|-----------------|-------------------------|------|---------------|----------------------------|---------|
| 2020# 3     |      |                 |                         |      |               |                            |         |
| YSI 600 # 3 |      |                 |                         |      |               |                            |         |
| 6.35        | 1300 | Begin           | Purge                   |      |               |                            |         |
| 6.48        | 1310 | 5.40            | 2.08                    | 5.29 | 15.9          | 3039                       | 230.4   |
| 6.48        | 1313 | 4.88            | 1.90                    | 5.30 | 15.9          | 3028                       | 239.9   |
| 6.48        | 1316 | 4.62            | 1.92                    | 5.30 | 15.9          | 3022                       | 337.8   |
| 6.48        | 1319 | 4.77            | 1.89                    | 5.29 | 15.9          | 3031                       | 331.6   |
|             | 1320 | Sample          |                         |      |               |                            |         |

#### Well Condition Checklist

(circle appropriate item(s), cross out if not applicable)

|   |   |
|---|---|
| <p>General Condition: <input checked="" type="radio"/> Good / Needs Repair</p> <p>Protective Steel: <input checked="" type="radio"/> OK / Cracked / Leaking / Bent / Loose / None</p> <p>Well # Visible?: <input checked="" type="radio"/> Y / N</p> <p>Well Cap: <input checked="" type="radio"/> Good / Broken / None</p> <p>Evidence of rain water between steel and PVC?: Y / <input checked="" type="radio"/> N</p> <p>Evidence of ponding around well?: Y / <input checked="" type="radio"/> N</p> <p>Gopher type holes around collar?: Y / <input checked="" type="radio"/> N</p> <p>Comments:</p> | <p>Is well plumb?: <input checked="" type="radio"/> Y / N</p> <p>Lock: Good / Broken / <input checked="" type="radio"/> None</p> <p>Rust around cap: <input checked="" type="radio"/> Y / N</p> <p>PVC Riser: <input checked="" type="radio"/> Good / Damaged / None</p> <p>Concrete collar: <input checked="" type="radio"/> OK / Cracked / Leaking / None</p> <p>Other evidence of Rodents / Insects / <input checked="" type="radio"/> None</p> <p>Curb Box: <input checked="" type="radio"/> N / Y (key is: <input checked="" type="radio"/> Hex / <input checked="" type="radio"/> Pent / Other)</p> |
|---|---|