ATTACHMENT D
MONITORING WELL DEVELOPMENT LOGS
GROUNDWATER MONITORING WELL DEVELOPMENT LOG

Project: Camp Minden – Area I Disposal Site
Project No.: 750-0001
Site Location: Minden, Louisiana
Monitor Well No.: MW-
Date Developed: 8/19/2015 Developed By: [Signature]

MONITOR WELL INFORMATION
Total Depth of Monitor Well (TD): 33.08 ft.
Static Depth to Groundwater (DTW): 22.92 ft.
Screen Length (SL) from Boring Logs: 10 ft.
Depth to Top of Well Screen (TD-SL): 23.08 ft.
Height of Water Column (H=TD-DTW): ______ ft.

Flow Rate: ______ mL/min
Volume Purged: 55 gallons

WELL CASING VOLUME CALCULATIONS
☐ 2" Well (H x 0.163 gal/ft) _______ gal. (1 well volume)
☐ 4" Well (H x 0.653 gal/ft) _______ gal. (1 well volume)
☐ Other: _______ gal. (1 well volume)
☐ 2" Well (H x 0.163 gal/ft) _______ gal. (3 well volumes)
☐ 4" Well (H x 0.653 gal/ft) _______ gal. (3 well volumes)
☐ Other: _______ gal. (3 well volumes)

METHOD OF DEVELOPMENT
☐ Peristaltic Pump
☐ Low-flow Submersible Pump
☐ Bailier ☐ Dedicated ☐ Disposable
☐ Other (Specify) DOWNSHOLE PUMP IS SURGED WELL

DEVELOPMENT PARAMETERS

<table>
<thead>
<tr>
<th>Time</th>
<th>Flow Rate</th>
<th>Turbidity</th>
<th>DTW</th>
<th>Vol. Purged</th>
</tr>
</thead>
<tbody>
<tr>
<td>hr/min</td>
<td>mL/min</td>
<td>NTU or FTU</td>
<td>feet</td>
<td>gallons</td>
</tr>
<tr>
<td>100 - 500 ml/min</td>
<td>+/- 10% (if &gt;10 NTU or FTU)</td>
<td>&lt;0.3 ft. or Top of Screen</td>
<td>32</td>
<td></td>
</tr>
</tbody>
</table>

OUT OF DRAIN STORAGE - WILL RETURN TO FINISH

23

SHEET 1 OF 1

[Signature] Development Log
GROUNDWATER MONITORING WELL DEVELOPMENT LOG

Project: Camp Minden – Area I Disposal Site
Project No.: 750-0001
Site Location: Minden, Louisiana
Monitor Well No.: MW- 2
Date Developed: 8/19/2015

MONITOR WELL INFORMATION
Total Depth of Monitor Well (TD): 32.89 ft.
Static Depth to Groundwater (DTW): 23.86 ft.
Screen Length (SL) from Boring Logs: 10 ft.
Depth to Top of Well Screen (TD-SL): 22.89 ft.
Height of Water Column (H=TD-DTW): 10.00 ft.
Flow Rate: __________ mL/min
Volume Purged: 21 gallons

WELL CASING VOLUME CALCULATIONS
☐ 2” Well (H x 0.163 gal/ft) __________ gal. (1 well volume)
☐ 4” Well (H x 0.653 gal/ft) __________ gal. (1 well volume)
☐ Other: __________

☐ Perstaltic Pump
☐ Low-flow Submersible Pump
☐ Bailer ☐ Dedicated ☐ Disposable
☐ Other (Specify) downhole pump

METHOD OF DEVELOPMENT

DEVELOPMENT PARAMETERS

<table>
<thead>
<tr>
<th>Time</th>
<th>Flow Rate</th>
<th>Turbidity</th>
<th>DTW</th>
<th>Vol. Purged</th>
</tr>
</thead>
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<td>NTU or FTU</td>
<td>feet</td>
<td>gallons</td>
</tr>
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<td>100 - 500 mL/min</td>
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<td>&lt;0.3 ft. or Top of Screen</td>
<td>15</td>
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</tr>
</tbody>
</table>

WELL WENT DRY - WATER
VERY CLOUDY - WATER ALLOWED
to Recharge:

WATER CLOUDY

15

10
GROUNDWATER MONITORING WELL DEVELOPMENT LOG

Project: Camp Minden – Area I Disposal Site
Project No.: 750-0001
Site Location: Minden, Louisiana
Monitor Well No.: MW-3
Date Developed: 8/17/2015 Developed By: NB

MONITOR WELL INFORMATION
Total Depth of Monitor Well (TD): 32.42 ft.
Static Depth to Groundwater (DTW): 22.27 ft.
Screen Length (SL) from Boring Logs: 10 ft.
Depth to Top of Well Screen (TD-SL): 22.42 ft.
Height of Water Column (H-TD-DTW): ______ ft.
Flow Rate: _______ mL/min
Volume Purged: _______ gallons

WELL CASING VOLUME CALCULATIONS

☑ 2” Well (H x 0.163 gal/ft) _________ gal. (1 well volume) _______ gal. (3 well volumes)
☐ 4” Well (H x 0.653 gal/ft) _________ gal. (1 well volume) _______ gal. (3 well volumes)
☐ Other: _________

METHOD OF DEVELOPMENT
☐ Peristaltic Pump
☐ Low-flow Submersible Pump
☐ Bailer ☐ Dedicated ☐ Disposable
☑ Other (Specify) downhole pump

DEVELOPMENT PARAMETERS

<table>
<thead>
<tr>
<th>Time</th>
<th>Flow Rate</th>
<th>Turbidity</th>
<th>DTW</th>
<th>Vol. Purged</th>
</tr>
</thead>
<tbody>
<tr>
<td>hr/min</td>
<td>mL/min</td>
<td>NTU or FTU</td>
<td>feet</td>
<td>gallons</td>
</tr>
<tr>
<td>100 - 500 mL/min</td>
<td>+/- 10% (H&gt;10 NTU or FTU)</td>
<td>&lt;0.3 ft. or Top of Screen</td>
<td>55</td>
<td></td>
</tr>
</tbody>
</table>

WATER IS CLOUDY

SHEET 1 OF 1
MONITOR WELL INFORMATION

Total Depth of Monitor Well (TD): 32.91 ft.
Static Depth to Groundwater (DTW): 21.91 ft.
Screen Length (SL) from Boring Logs: 10 ft.
Depth to Top of Well Screen (TD-SL): 22.91 ft.
Height of Water Column (H=TD-DTW): ______ ft.

Flow Rate: ______ mL/min
Volume Purged: 600 gallons

WELL CASING VOLUME CALCULATIONS

☐ 2" Well (H x 0.163 gal/ft) _______ gal. (1 well volume)
☐ 4" Well (H x 0.653 gal/ft) _______ gal. (1 well volume)
☐ Other: _______ gal. (3 well volumes)

METHOD OF DEVELOPMENT

☐ Perstaltic Pump
☐ Low-flow Submersible Pump
☐ Bailer ☐ Dedicated ☐ Disposable
☐ Other (Specify) ____________

DEVELOPMENT PARAMETERS

<table>
<thead>
<tr>
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<th>Flow Rate (mL/min)</th>
<th>Turbidity (NTU or FTU)</th>
<th>DTW (feet)</th>
<th>Vol. Purged (gallons)</th>
</tr>
</thead>
<tbody>
<tr>
<td>100 - 500 mL/min</td>
<td>+/- 10% (if &gt;10 NTU or FTU)</td>
<td>&lt;0.3 ft. or Top of Screen</td>
<td>40</td>
<td></td>
</tr>
</tbody>
</table>

WATER PRETTY CLEAR
GROUNDWATER MONITORING WELL DEVELOPMENT LOG

Project: Camp Minden – Area I Disposal Site
Project No.: 750-0001
Site Location: Minden, Louisiana
Monitor Well No.: MW-5
Date Developed: 6/20/15 Developed By: MS/NB

MONITOR WELL INFORMATION
Total Depth of Monitor Well (TD): 30.30 ft.
Static Depth to Groundwater (DTW): 22.46 ft.
Screen Length (SL) from Boring Logs: 10 ft.
Depth to Top of Well Screen (TD-SL): 20.30 ft.
Height of Water Column (H=TD-DTW): _______ ft.

Flow Rate: _______ mL/min
Volume Purged: 55 gallons

WELL CASING VOLUME CALCULATIONS
☐ 2" Well (H x 0.163 gal/ft) __________ gal. (1 well volume) __________ gal. (3 well volumes)
☐ 4" Well (H x 0.653 gal/ft) __________ gal. (1 well volume) __________ gal. (3 well volumes)
☐ Other: ____________________________

METHOD OF DEVELOPMENT
☐ Perstaltic Pump
☐ Low-flow Submersible Pump
☐ Bailer ☐ Dedicated ☐ Disposable
☐ Other (Specify) ____________________________

DEVELOPMENT PARAMETERS

<table>
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<tr>
<th>Time (hr/min)</th>
<th>Flow Rate (mL/min)</th>
<th>Turbidity (NTU or FTU)</th>
<th>DTW (ft)</th>
<th>Vol. Purged (gallons)</th>
</tr>
</thead>
<tbody>
<tr>
<td>100 - 500 mL/min</td>
<td>+/- 10% (H &gt; 10 NTU or FTU)</td>
<td>&lt; 0.3 ft or Top of Screen</td>
<td>55</td>
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</tr>
</tbody>
</table>

SHEET 1 OF 1
## GROUNDWATER MONITORING WELL DEVELOPMENT LOG

**Project:** Camp Minden – Area I Disposal Site  
**Project No.:** 750-0001  
**Site Location:** Minden, Louisiana  
**Monitor Well No.:** MW-6  
**Date Developed:** 02/20/15  
**Developed By:** [Signature]

### MONITOR WELL INFORMATION

- **Total Depth of Monitor Well (TD):** 20.18 ft.  
- **Static Depth to Groundwater (DTW):** 20.94 ft.  
- **Screen Length (SL) from Boring Logs:** 10 ft.  
- **Depth to Top of Well Screen (TD-SL):** 20.18 ft.  
- **Height of Water Column (H=TD-DTW):** [Blank]

### WELL CASING VOLUME CALCULATIONS

- **2" Well (H x 0.163 gal/ft):** [Blank] gal. (1 well volume)  
- **4" Well (H x 0.653 gal/ft):** [Blank] gal. (1 well volume)  
- **Other:** [Blank]

### METHOD OF DEVELOPMENT

- [ ] Peristaltic Pump  
- [ ] Low-flow Submersible Pump  
- [ ] Bailer  
- [X] Dedicated  
- [ ] Disposable  
- [X] Other (Specify) [Formal Dumping Pump]  

### DEVELOPMENT PARAMETERS

<table>
<thead>
<tr>
<th>Time (hr/min)</th>
<th>Flow Rate (mL/min)</th>
<th>Turbidity (NTU or FTU)</th>
<th>DTW (feet)</th>
<th>Vol. Purged (gallons)</th>
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<td>+/- 10% (if &gt;10 NTU or FTU)</td>
<td>&lt;0.3 ft. or Top of Screen</td>
<td>55</td>
<td></td>
</tr>
</tbody>
</table>

**Slightly cloudy**

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**Sheet 1 of 1**