

283 Rucker Street Anniston, Alabama 36205 Phone: 256.847.0780 Fax: 256.847.0905 matrixdesigngroup.com

December 13, 2016

Mr. Stephen A. Cobb, Chief c/o Mrs. Brandi Little Governmental Hazardous Waste Branch Land Division Alabama Department of Environmental Management P.O. Box 301463 Montgomery, Alabama 36130-1463

**SUBJECT:** Well Abandonment at the Former Mock Village at Yahou Lake, Parcel 130Q-X,

McClellan, Calhoun County, Alabama Facility I.D. No. AL4 210 020 562

Dear Mr. Cobb:

On behalf of the McClellan Development Authority (MDA), Matrix Environmental Services, LLC (MES) sent a well abandonment request to the Alabama Department of Environmental Management (ADEM) on September 8, 2016 in regards to four groundwater wells located at the Former Mock Village at Yahou Lake, Parcel 130-Q-X (Yahou Lake). This request was approved via email by ADEM on August 23, 2016.

The MDA abandoned these wells on November 8-10, 2016, in accordance with the *Monitoring Well Abandonment Plan*, dated June 23, 2015 approved by ADEM on April 11, 2016 and with Appendix B, Section B.5.2(c) of the Alabama Environmental Investigation and Remediation Guidance (AEIRG). Copies of the well abandonment logs and a copy of the daily field logs with photo documentation has been attached.

Sincerely.

MATRIX ENVIRONMENTAL SERVICES, LLC.

Richard Satkin, P.G.

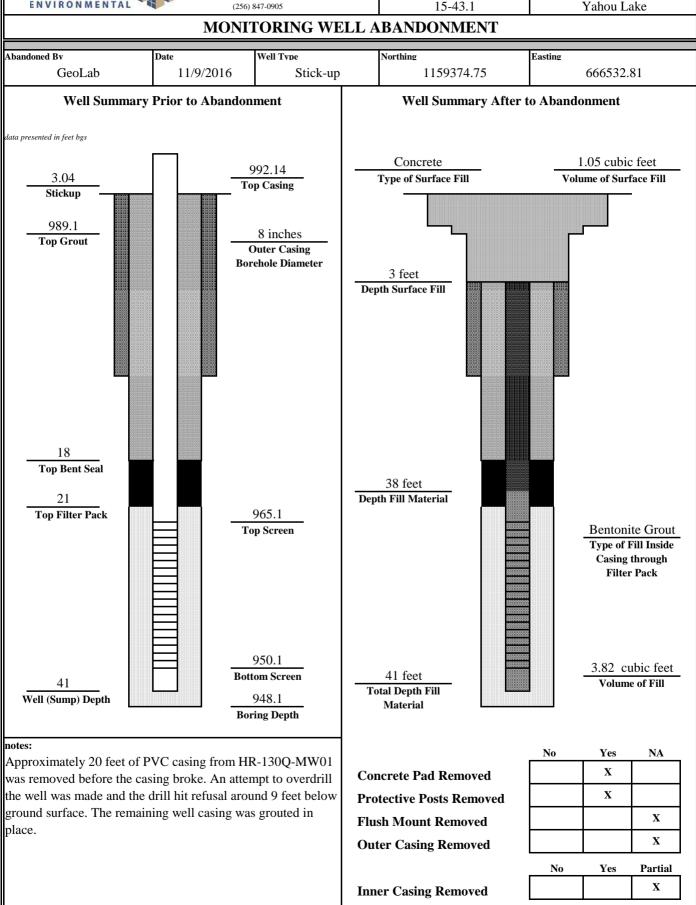
Richard & Soth

McClellan Program Manager

CC: Mrs. Brandi Little, ADEM (email, two paper copies)

Mr. Robin Scott, MDA (transmittal letter only)



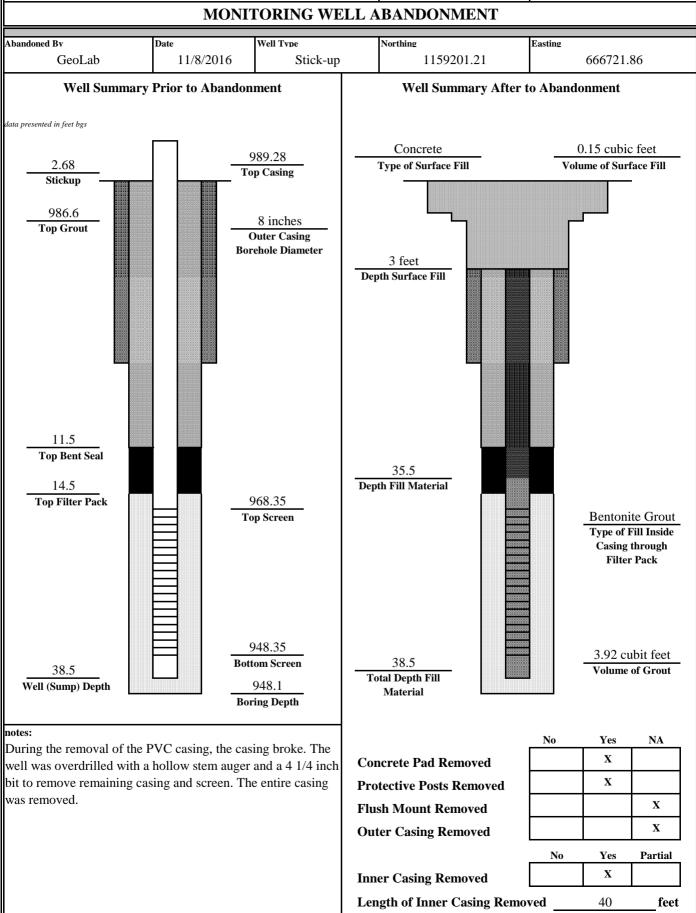


**Length of Inner Casing Removed** 

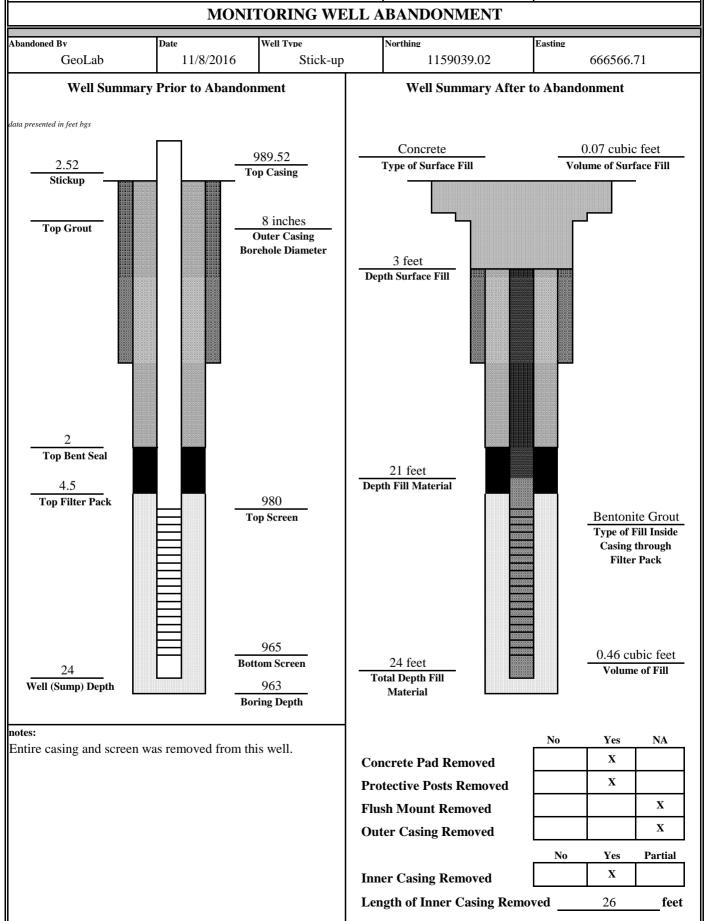
20

feet

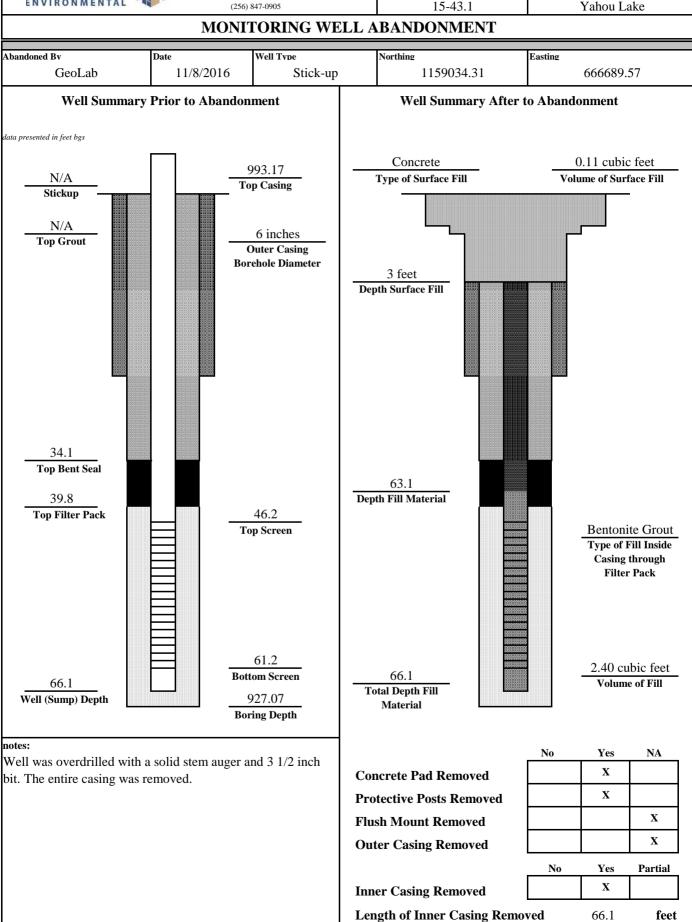












Job No. 15-43.1

# **Daily Job Report**

Date: November 8, 2016 Contact: Joseph Owens Title: McClellan Project Manager

Client: McClellan Development Authority Weather: Overcast, 72°F Wind: Light breeze

Site Location: McClellan

Matrix Personnel and Subcontractors				
Name Title Company				
Jason Tulley	Environmental Field Tech	Matrix Environmental Services		
Shane Haney	Driller	GeoLab		
A.J. Melrom	Driller	GeoLab		
Van Pruett	Driller	GeoLab		

VEHICLES			
Item	Qty.	Tolls	
Flatbed Pickup Truck	1		

EQUIPMENT		
Item	Qty.	
DH 103 Geoprobe	1	
Cat 259D Skid Steer	1	
ChemGrout Pump	1	

MATERIALS				
Item Daily Cumu Quantity To				
Well Grout-50lbs				
Water		250 gallon tank		
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#### **JOB DESCRIPTION:**

- GeoLab arrived to MES office and personnel watched UXO avoidance video prior to visiting the site.
- Mobilized to Yahou Lake and set up on HR-130Q-MW03. Decision was made to abandon the shallowest well first and move in increasing depth, leaving the deepest well to be abandoned last.
- The entire casing for MW-03 was removed.
- 250-gallon cage tank was filled with water from the MES office to use for decontamination of the equipment.
- HR-130Q-MW02 casing broke during removal and the well was over drilled to remove the PVC casing and screen.
- The concrete pad and approximately 20 feet of the PVC casing of HR-130Q-MW01 was able to be removed before the casing broke.
- The pad and entire PVC casing of HR-130Q-MW14 was removed.
- HR-130Q-MW02 and HR-130Q-MW03 were filled with grout and allowed to settle overnight.

#### **PLANNED WORK FOR FOLLOWING DAY:**

Over drill two remaining wells to completely remove well casings and screens.

#### **JOB DISCREPANCIES:**

None.

Project Status			
Prepared by:	Joseph Owens	Project	
Title:	Project Manager		

Yahou Lake Well Abandonment Photo Log November 08, 2016



11-08-2016-001: A skid steer was used by the GeoLab to break up the concrete pads and pull the PVC well casing.



11-08-2016-002: The entire casing was removed from HR-130Q-MW03.



11-08-2016-003: The geoprobe was used to help remove the casings and over drill the well if the casing broke during removal.



11-08-2016-004: When the entire casing was removed, MW-02 and MW-03 were filled with grout and allowed to settle overnight prior to pouring the cement cap.

Job No. 15-43.1

# **Daily Job Report**

Date: November 8, 2016 Contact: Joseph Owens Title: McClellan Project Manager

Client: McClellan Development Authority Weather: Overcast, 70°F Wind: Light breeze

Site Location: McClellan

Matrix Personnel and Subcontractors					
Name	Name Title Company				
Jason Tulley	Environmental Field Tech	Matrix Environmental Services			
Shane Haney	Driller	GeoLab			
A.J. Melrom	Driller	GeoLab			
Van Pruett	Driller	GeoLab			

VEHICLES			
Item	Qty.	Tolls	
Flatbed Pickup Truck	1		

EQUIPMENT		
Item	Qty.	
DH 103 Geoprobe	1	
Cat 259D Skid Steer	1	
ChemGrout Pump	1	

MATERIALS				
Item	Daily Quantity	Cumulative Total		
Well Grout-50lbs bag				
Potable Water		250 gallon tank		

#### **JOB DESCRIPTION:**

- GeoLab set up to over drill HR-130Q-MW01 but encountered drill refusal with the hollow stem auger at approximately 9 feet below ground surface. GeoLab switched to the solid stem auger bit but was still unable to push past nine feet below ground surface (bgs). The decision was made to grout the remainder of the casing in place.
- HR-130Q-MW14 was over drilled using a solid stem auger and all casing and screen was removed from the well.
- Both wells MW01 and MW14 were filled with grout and allowed to settle overnight before pouring the concrete cap.

### PLANNED WORK FOR FOLLOWING DAY:

• Pour a concrete cap over the grouted wells.

### **JOB DISCREPANCIES:**

The drillers could not push past nine feet bgs on well HR-130Q-MW01.

Project Status				
Prepared by:	Joseph Owens	Project		
Title:	Project Manager	⊠ Continue ☐ Completed		

## Yahou Lake Well Abandonment Photo Log November 09, 2016



11-09-2016-001: GeoLab used the geoprobe to over drill wells to remove the casings that broke or were not able to be completely removed.



11-09-2016-002: Bentonite grout was applied to the wells after removing the well casing and screen and was allowed to sit overnight to account for settlement.

Job No. 15-43.1

# **Daily Job Report**

Date: November 10, 2016 Contact: Joseph Owens Title: McClellan Project Manager

Client: McClellan Development Authority Weather: Overcast, 60°F Wind: Light breeze

Site Location: McClellan

Matrix Personnel and Subcontractors				
Name Title Company				
Jason Tulley	Environmental Field Tech	Matrix Environmental Services		
Shane Haney	Driller	GeoLab		
A.J. Melrom	Driller	GeoLab		
Van Pruett	Driller	GeoLab		

VEHICLES			
Item	Qty.	Tolls	
Flatbed Pickup Truck	1		

EQUIPMENT		
Item	Qty.	
DH 103 Geoprobe	1	
Cat 259D Skid Steer	1	
ChemGrout Pump	1	

MATERIALS		
Item	Daily Quantity	Cumulative Total
Well Grout-50lbs		
Water		250 gallon tank

## **JOB DESCRIPTION:**

• GeoLab poured a three-foot concrete cap over the four abandoned wells and de-mobed from the site.

## **PLANNED WORK FOR FOLLOWING DAY:**

• None. Project is complete.

### **JOB DISCREPANCIES:**

None.

Project Status		
Prepared by:	Joseph Owens	Project
Title:	Project Manager	☐Continue ⊠ Completed

# Yahou Lake Well Abandonment Photo Log November10, 2016



11-10-2016-001: A concrete cap seal was poured on top of the bentonite grout after allowing the grout to settle.