



October 23, 2009

Ms. Jaclyne Drummond
NCDENR DWM Solid Waste Section
1646 Mail Service Center
Raleigh, North Carolina 27699-1646

**RE: Request to Modify Landfill Gas Monitoring Network
Lee County Closed MSW and C&D Landfills
Sanford, North Carolina**

Dear Ms. Drummond:

The Lee County Landfill site is located on Landfill Road, south of Lemon Springs, North Carolina. There are currently six closed municipal solid waste (MSW) landfill units and one closed construction and demolition debris (C&D) landfill unit that require landfill gas (LFG) monitoring at this site. This letter is sent to request modifications to optimize the LFG monitoring network at the site.

Currently, there are 38 LFG monitoring probes and vents that are monitored on a quarterly basis at the site. These include several clusters of probes and vents in areas where LFG has historically been detected. Additionally, there are LFG probes located across the stream from the waste units. The locations of the LFG monitoring probes and vents are shown on the attached **Figure 1** and boring logs for the wells are included in **Attachment 1**.

In general, these probes are constructed to depths of eight (8) to ten (10) feet below grade with a few probes constructed to five (5) feet below grade near the stream to the south of the site. However, the probes monitor the same zone of the upper subsurface.

Due to the redundancy of many of these probes and the unlikely situation where LFG would cross a stream, RSG proposes to actively monitor 17 LFG probes. The proposed monitoring network is summarized on **Table 1** and is shown on **Figure 1**. This network concentrates the monitoring around the perimeter of the site. The majority of the probes/vents that are removed from the monitoring network are located in clusters to the north and south of the landfill units. Monitoring of these probes yields redundant data given the small areas they cover. This revised network will provide adequate monitoring coverage for the landfill property.

Should elevated LFG concentrations be detected in these probes in the future, Lee County will work with NCDENR to evaluate any additional monitoring/remediation needs at the site.

Ms. Jaclynne Drummond
October 23, 2009
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Lee County would like to begin utilizing this revised network during this last quarter of 2009 and would appreciate an expedited response regarding this matter. If you have any questions, or require additional information, please call me at 919-828-0577 x 122 at your earliest convenience.

Sincerely,
Richardson Smith Gardner and Associates, Inc.

A handwritten signature in blue ink that reads "Joan A. Smyth". The signature is written in a cursive style with a large initial 'J'.

Joan A. Smyth, P.G.
Senior Hydrogeologist
joan@rsgengineers.com

Attachments

Table

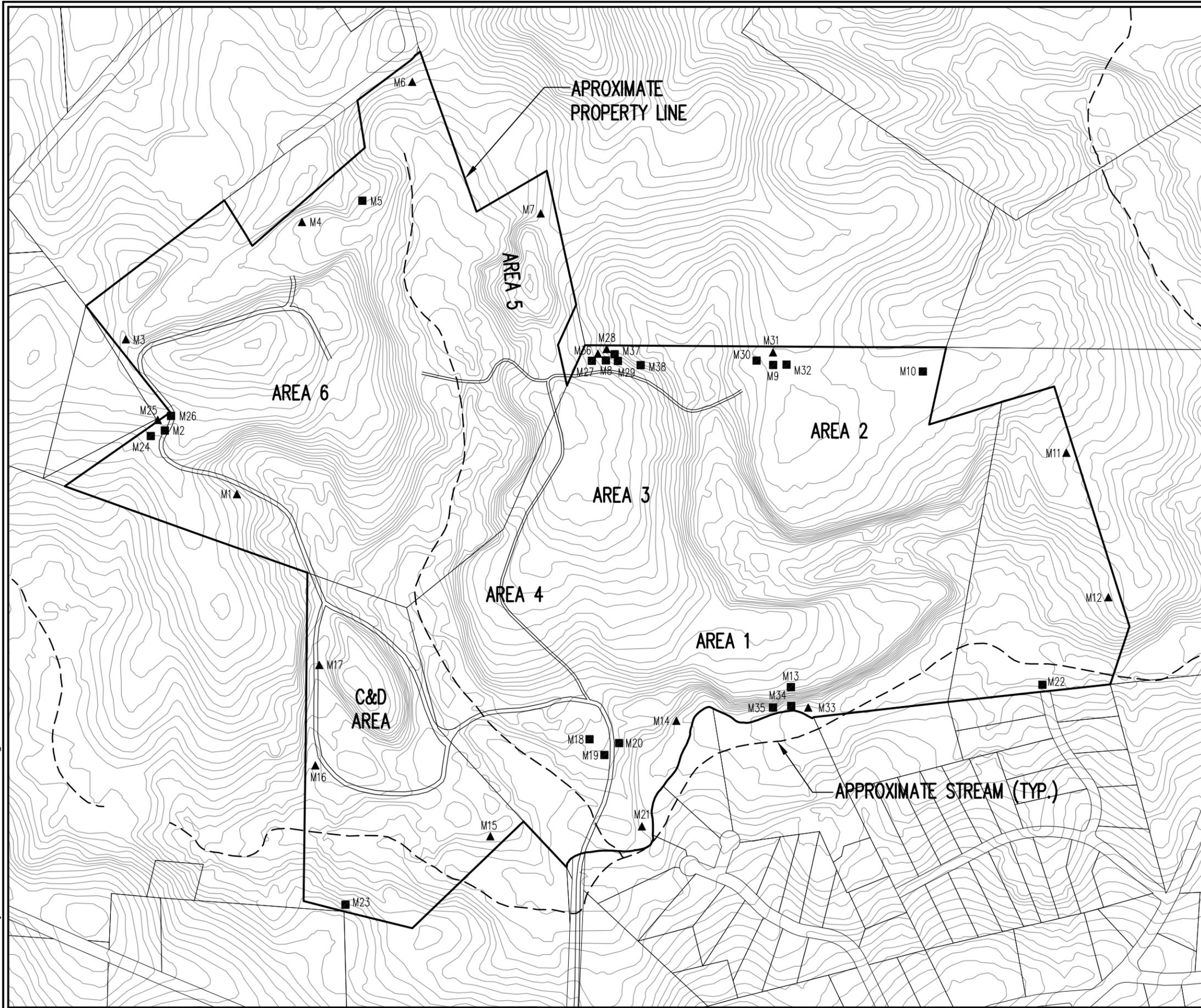
**Proposed Methane Monitoring Network
 Lee County Landfills
 Sanford, North Carolina**

Methane Well	Total Depth	Screened Interval	Installation Date	Installed By
M1	10	2 - 10	1/29/2008	Terraquest
M3	10	2 - 10	1/29/2008	Terraquest
M4	10	2 - 10	1/29/2008	Terraquest
M6	10	2 - 10	1/29/2008	Terraquest
M7	10	2 - 10	1/29/2008	Terraquest
M11	10	2 - 10	1/29/2008	Terraquest
M12	10	2 - 10	1/29/2008	Terraquest
M14	10	2 - 10	1/29/2008	Terraquest
M15	10	2 - 10	1/29/2008	Terraquest
M16	10	2 - 10	1/29/2008	Terraquest
M17	10	2 - 10	1/29/2008	Terraquest
M21	10	2 - 10	1/29/2008	Terraquest
M25	8	2 - 8	3/26/2008	Terraquest
M28	8	2 - 8	3/26/2008	Terraquest
M31	8	2 - 8	3/26/2008	Terraquest
M33	5	1 - 5	3/27/2008	Terraquest
M36	8	2 - 8	7/16/2008	Terraquest

Well data from Terraquest methane well logs
 See Figure 1 for methane monitoring well locations

Figure

G:\CAD\Lee County\Lee 09-1\sheets\LEE-B0006.dwg - 10/16/2009 1:44 PM



LEGEND

- EXISTING METHANE MONITORING WELL (LOCATION APPROXIMATE)
- ▲ EXISTING METHANE MONITORING WELL (PROPOSED FOR FUTURE LFG MONITORING)

REFERENCES

1. TOPOGRAPHY PROVIDED BY NCDOT G.I.S. DEPARTMENT.
2. PARCEL BOUNDARIES FROM LEE COUNTY G.I.S. STRATEGIC SERVICES DEPARTMENT.
3. METHANE MONITORING WELL LOCATIONS FROM METHANE MONITORING STATUS REPORT FROM TERRAQUEST TO MS. JACLYNNE DRUMMOND OF NCDENR DATED 7/27/09.




RICHARDSON SMITH GARDNER & ASSOCIATES
NC LIC. NO. C-0828 (Engineering)
 www.rsgengineers.com
ph: 919-826-0577
 fax: 919-826-3899

FIGURE NO.	1	FILE NAME	LEE-B0006
SCALE:	AS SHOWN	PROJECT NO.	LEE 09-1
CHECKED BY:	J.A.S.	DATE:	Oct. 2009
DRAWN BY:	C.T.J.		

TITLE:
 METHANE PROBE LOCATION MAP
 LEE COUNTY LANDFILL
 SANFORD, NORTH CAROLINA

Attachment 1



BORING LOG/MONITORING WELL INSTALLATION DETAIL

Contractor: TerraQuest	Date Started: 1/29/08	Boring Number: M1
Drill Method: auger	Date Finished: 1/29/08	
Driller: Nick Perry	Logged by: Andy Wrenn	

Sample	Blow Counts	Completion	OVM (ppm)	Depth Feet	Lithology	Description
	NA		NA			SAND WITH SILT (SC) Mostly loose, fine to medium-grained, tan to brown sand with varying amounts of silt and clay.
	NA		NA			
	NA		NA	5		
	NA		NA			
	NA		NA			
				10		

Scale as shown; Hatch pattern denotes soil sample depth;
 Solid denotes lab sample depth; Lithology hatch pattern legend is attached;
Well Construction
 2" diameter Sch. 40 PVC; .010" slotted screen
 Sand: no. 2 sand; Grout: poured portland; Bentonite: poured pellets
 Manhole: flush 8" diameter steel
 NA - Not Applicable; BGL - Below Ground Level

Site:
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BORING LOG/MONITORING WELL INSTALLATION DETAIL

Contractor: TerraQuest

Date Started: 1/29/08

Boring Number:

Drill Method: auger

Date Finished: 1/29/08

M2

Driller: Nick Perry

Logged by: Andy Wrenn

Sample	Blow Counts	Completion	OVM (ppm)	Depth Feet	Lithology	Description
	NA		NA			SAND WITH SILT (SC) Mostly loose, fine to medium-grained, tan to brown sand with varying amounts of silt and clay.
	NA		NA			
	NA		NA	5		
	NA		NA			
	NA		NA			
				10		

Scale as shown; Hatch pattern denotes soil sample depth;
 Solid denotes lab sample depth; Lithology hatch pattern legend is attached;
Well Construction
 2" diameter Sch. 40 PVC; .010" slotted screen
 Sand: no. 2 sand; Grout: poured portland; Bentonite: poured pellets
 Manhole: flush 8" diameter steel
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BORING LOG/MONITORING WELL INSTALLATION DETAIL

Contractor: TerraQuest

Date Started: 1/29/08

Boring Number:

Drill Method: auger

Date Finished: 1/29/08

M3

Driller: Nick Perry

Logged by: Andy Wrenn

Sample	Blow Counts	Completion	OVM (ppm)	Depth Feet	Lithology	Description
	NA		NA			SAND WITH SILT (SC) Mostly loose, fine to medium-grained, tan to brown sand with varying amounts of silt and clay.
	NA		NA			
	NA		NA	5		
	NA		NA			
	NA		NA	10		

Scale as shown; Hatch pattern denotes soil sample depth;
 Solid denotes lab sample depth; Lithology hatch pattern legend is attached;
Well Construction
 2" diameter Sch. 40 PVC; .010" slotted screen
 Sand: no. 2 sand; Grout: poured portland; Bentonite: poured pellets
 Manhole: flush 8" diameter steel
 NA - Not Applicable; BGL - Below Ground Level

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BORING LOG/MONITORING WELL INSTALLATION DETAIL

Contractor: TerraQuest

Date Started: 1/29/08

Boring Number:

Drill Method: auger

Date Finished: 1/29/08

M4

Driller: Nick Perry

Logged by: Andy Wrenn

Sample	Blow Counts	Completion	OVM (ppm)	Depth Feet	Lithology	Description
	NA		NA			<p>SAND WITH SILT (SC) Mostly loose, fine to medium-grained, tan to brown sand with varying amounts of silt and clay.</p>
	NA		NA			
	NA		NA	5		
	NA		NA			
	NA		NA	10		

Scale as shown; Hatch pattern denotes soil sample depth;
 Solid denotes lab sample depth; Lithology hatch pattern legend is attached;
Well Construction
 2" diameter Sch. 40 PVC; .010" slotted screen
 Sand: no. 2 sand; Grout: poured portland; Bentonite: poured pellets
 Manhole: flush 8" diameter steel
 NA - Not Applicable; BGL - Below Ground Level

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Contractor: TerraQuest

Date Started: 1/29/08

Boring Number:

Drill Method: auger

Date Finished: 1/29/08

M5

Driller: Nick Perry

Logged by: Andy Wrenn

Sample	Blow Counts	Completion	OVM (ppm)	Depth Feet	Lithology	Description
	NA		NA			SAND WITH SILT (SC) Mostly loose, fine to medium-grained, tan to brown sand with varying amounts of silt and clay.
	NA		NA			
	NA		NA	5		
	NA		NA			
	NA		NA			
				10		

Scale as shown; Hatch pattern denotes soil sample depth;
 Solid denotes lab sample depth; Lithology hatch pattern legend is attached;
Well Construction
 2" diameter Sch. 40 PVC; .010" slotted screen
 Sand: no. 2 sand; Grout: poured portland; Bentonite: poured pellets
 Manhole: flush 8" diameter steel
 NA - Not Applicable; BGL - Below Ground Level

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BORING LOG/MONITORING WELL INSTALLATION DETAIL

Contractor: TerraQuest	Date Started: 1/29/08	Boring Number: M6
Drill Method: auger	Date Finished: 1/29/08	
Driller: Nick Perry	Logged by: Andy Wrenn	

Sample	Blow Counts	Completion	OVM (ppm)	Depth Feet	Lithology	Description
	NA		NA			SAND WITH SILT (SC) Mostly loose, fine to medium-grained, tan to brown sand with varying amounts of silt and clay.
	NA		NA			
	NA		NA	5		
	NA		NA			
	NA		NA	10		

Scale as shown; Hatch pattern denotes soil sample depth;
 Solid denotes lab sample depth; Lithology hatch pattern legend is attached;
Well Construction
 2" diameter Sch. 40 PVC; .010" slotted screen
 Sand: no. 2 sand; Grout: poured portland; Bentonite: poured pellets
 Manhole: flush 8" diameter steel
 NA - Not Applicable; BGL - Below Ground Level

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BORING LOG/MONITORING WELL INSTALLATION DETAIL

Contractor: TerraQuest

Date Started: 1/29/08

Boring Number:

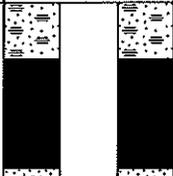
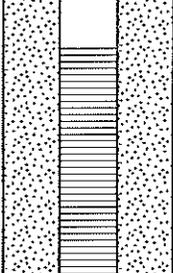
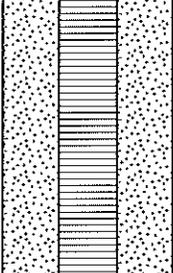
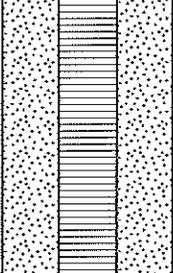
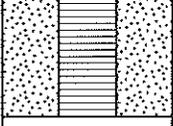
Drill Method: auger

Date Finished: 1/29/08

M7

Driller: Nick Perry

Logged by: Andy Wrenn

Sample	Blow Counts	Completion	OVM (ppm)	Depth Feet	Lithology	Description
	NA		NA			<p>SAND WITH SILT (SC) Mostly loose, fine to medium-grained, tan to brown sand with varying amounts of silt and clay.</p>
	NA		NA			
	NA		NA	5		
	NA		NA			
	NA		NA	10		

Scale as shown; Hatch pattern denotes soil sample depth;
 Solid denotes lab sample depth; Lithology hatch pattern legend is attached;
Well Construction
 2" diameter Sch. 40 PVC; .010" slotted screen
 Sand: no. 2 sand; Grout: poured portland; Bentonite: poured pellets
 Manhole: flush 8" diameter steel
 NA - Not Applicable; BGL - Below Ground Level

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BORING LOG/MONITORING WELL INSTALLATION DETAIL

Contractor: TerraQuest

Date Started: 1/29/08

Boring Number:

Drill Method: auger

Date Finished: 1/29/08

M8

Driller: Nick Perry

Logged by: Andy Wrenn

Sample	Blow Counts	Completion	OVM (ppm)	Depth Feet	Lithology	Description
	NA		NA			<p>SAND WITH SILT (SC) Mostly loose, fine to medium-grained, tan to brown sand with varying amounts of silt and clay. Some black organics noted and some trash noted throughout boring.</p>
	NA		NA			
	NA		NA	5		
	NA		NA			
	NA		NA	10		

Scale as shown; Hatch pattern denotes soil sample depth;
 Solid denotes lab sample depth; Lithology hatch pattern legend is attached;
Well Construction
 2" diameter Sch. 40 PVC; .010" slotted screen
 Sand: no. 2 sand; Grout: poured portland; Bentonite: poured pellets
 Manhole: flush 8" diameter steel
 NA - Not Applicable; BGL - Below Ground Level

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BORING LOG/MONITORING WELL INSTALLATION DETAIL

Contractor: TerraQuest

Date Started: 1/29/08

Boring Number:

Drill Method: auger

Date Finished: 1/29/08

M9

Driller: Nick Perry

Logged by: Andy Wrenn

Sample	Blow Counts	Completion	OVM (ppm)	Depth Feet	Lithology	Description
	NA		NA			<p>SAND WITH SILT (SC) Mostly loose, fine to medium-grained, tan to brown sand with varying amounts of silt and clay. Some black organics noted and some trash noted throughout boring.</p>
	NA		NA			
	NA		NA	5		
	NA		NA			
	NA		NA			
				10		

Scale as shown; Hatch pattern denotes soil sample depth;
 Solid denotes lab sample depth; Lithology hatch pattern legend is attached;
Well Construction
 2" diameter Sch. 40 PVC; .010" slotted screen
 Sand: no. 2 sand; Grout: poured portland; Bentonite: poured pellets
 Manhole: flush 8" diameter steel
 NA - Not Applicable; BGL - Below Ground Level

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BORING LOG/MONITORING WELL INSTALLATION DETAIL

Contractor: TerraQuest

Date Started: 1/29/08

Boring Number:

Drill Method: auger

Date Finished: 1/29/08

M10

Driller: Nick Perry

Logged by: Andy Wrenn

Sample	Blow Counts	Completion	OVM (ppm)	Depth Feet	Lithology	Description
	NA		NA			<p>SAND WITH SILT (SC) Mostly loose, fine to medium-grained, tan to brown sand with varying amounts of silt and clay.</p>
	NA		NA			
	NA		NA	5		
	NA		NA			
	NA		NA	10		

Scale as shown; Hatch pattern denotes soil sample depth;
 Solid denotes lab sample depth; Lithology hatch pattern legend is attached;
Well Construction
 2" diameter Sch. 40 PVC; .010" slotted screen
 Sand: no. 2 sand; Grout: poured portland; Bentonite: poured pellets
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BORING LOG/MONITORING WELL INSTALLATION DETAIL

Contractor: TerraQuest	Date Started: 1/29/08	Boring Number: M11
Drill Method: auger	Date Finished: 1/29/08	
Driller: Nick Perry	Logged by: Andy Wrenn	

Sample	Blow Counts	Completion	OVM (ppm)	Depth Feet	Lithology	Description
	NA		NA			SAND WITH SILT (SC) Mostly loose, fine to medium-grained, tan to brown sand with varying amounts of silt and clay.
	NA		NA			
	NA		NA	5		
	NA		NA			
	NA		NA			
				10		

Scale as shown; Hatch pattern denotes soil sample depth;
 Solid denotes lab sample depth; Lithology hatch pattern legend is attached;
Well Construction
 2" diameter Sch. 40 PVC; .010" slotted screen
 Sand: no. 2 sand; Grout: poured portland; Bentonite: poured pellets
 Manhole: flush 8" diameter steel
 NA - Not Applicable; BGL - Below Ground Level

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BORING LOG/MONITORING WELL INSTALLATION DETAIL

Contractor: TerraQuest

Date Started: 1/29/08

Boring Number:

Drill Method: auger

Date Finished: 1/29/08

M12

Driller: Nick Perry

Logged by: Andy Wrenn

Sample	Blow Counts	Completion	OVM (ppm)	Depth Feet	Lithology	Description
	NA		NA			SAND WITH SILT (SC) Mostly loose, fine to medium-grained, tan to brown sand with varying amounts of silt and clay.
	NA		NA			
	NA		NA	5		
	NA		NA			
	NA		NA	10		

Scale as shown; Hatch pattern denotes soil sample depth;
 Solid denotes lab sample depth; Lithology hatch pattern legend is attached;
Well Construction
 2" diameter Sch. 40 PVC; .010" slotted screen
 Sand: no. 2 sand; Grout: poured portland; Bentonite: poured pellets
 Manhole: flush 8" diameter steel
 NA - Not Applicable; BGL - Below Ground Level

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BORING LOG/MONITORING WELL INSTALLATION DETAIL

Contractor: TerraQuest

Date Started: 1/29/08

Boring Number:

Drill Method: auger

Date Finished: 1/29/08

M13

Driller: Nick Perry

Logged by: Andy Wrenn

Sample	Blow Counts	Completion	OVM (ppm)	Depth Feet	Lithology	Description
	NA		NA			SAND WITH SILT (SC) Mostly loose, fine to medium-grained, tan to brown sand with varying amounts of silt and clay.
	NA		NA			
	NA		NA	5		
	NA		NA			
	NA		NA	10		

Scale as shown; Hatch pattern denotes soil sample depth;
 Solid denotes lab sample depth; Lithology hatch pattern legend is attached;
Well Construction
 2" diameter Sch. 40 PVC; .010" slotted screen
 Sand: no. 2 sand; Grout: poured portland; Bentonite: poured pellets
 Manhole: flush 8" diameter steel
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BORING LOG/MONITORING WELL INSTALLATION DETAIL

Contractor: TerraQuest	Date Started: 1/29/08	Boring Number: M14
Drill Method: auger	Date Finished: 1/29/08	
Driller: Nick Perry	Logged by: Andy Wrenn	

Sample	Blow Counts	Completion	OVM (ppm)	Depth Feet	Lithology	Description
	NA		NA			SAND WITH SILT (SC) Mostly loose, fine to medium-grained, tan to brown sand with varying amounts of silt and clay.
	NA		NA			
	NA		NA	5		
	NA		NA			
	NA		NA	10		

Scale as shown; Hatch pattern denotes soil sample depth;
 Solid denotes lab sample depth; Lithology hatch pattern legend is attached;
Well Construction
 2" diameter Sch. 40 PVC; .010" slotted screen
 Sand: no. 2 sand; Grout: poured portland; Bentonite: poured pellets
 Manhole: flush 8" diameter steel
 NA - Not Applicable; BGL - Below Ground Level

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BORING LOG/MONITORING WELL INSTALLATION DETAIL

Contractor: TerraQuest	Date Started: 1/29/08	Boring Number: M15
Drill Method: auger	Date Finished: 1/29/08	
Driller: Nick Perry	Logged by: Andy Wrenn	

Sample	Blow Counts	Completion	OVM (ppm)	Depth Feet	Lithology	Description
	NA		NA			SAND WITH SILT (SC) Mostly loose, fine to medium-grained, tan to brown sand with varying amounts of silt and clay.
	NA		NA			
	NA		NA	5		
	NA		NA			
	NA		NA	10		

Scale as shown; Hatch pattern denotes soil sample depth;
 Solid denotes lab sample depth; Lithology hatch pattern legend is attached;
Well Construction
 2" diameter Sch. 40 PVC; .010" slotted screen
 Sand: no. 2 sand; Grout: poured portland; Bentonite: poured pellets
 Manhole: flush 8" diameter steel
 NA - Not Applicable; BGL - Below Ground Level

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BORING LOG/MONITORING WELL INSTALLATION DETAIL

Contractor: TerraQuest

Date Started: 1/29/08

Boring Number:

Drill Method: auger

Date Finished: 1/29/08

M16

Driller: Nick Perry

Logged by: Andy Wrenn

Sample	Blow Counts	Completion	OVM (ppm)	Depth Feet	Lithology	Description
	NA	NA	NA		[Hatch Pattern]	SAND WITH SILT (SC) Mostly loose, fine to medium-grained, tan to brown sand with varying amounts of silt and clay.
	NA	NA	NA		[Hatch Pattern]	
	NA	NA	NA	5	[Hatch Pattern]	
	NA	NA	NA		[Hatch Pattern]	
	NA	NA	NA	10	[Hatch Pattern]	

Scale as shown; Hatch pattern denotes soil sample depth;
 Solid denotes lab sample depth; Lithology hatch pattern legend is attached;
Well Construction
 2" diameter Sch. 40 PVC; .010" slotted screen
 Sand: no. 2 sand; Grout: poured portland; Bentonite: poured pellets
 Manhole: flush 8" diameter steel
 NA - Not Applicable; BGL - Below Ground Level

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BORING LOG/MONITORING WELL INSTALLATION DETAIL

Contractor: TerraQuest

Date Started: 1/29/08

Boring Number:

Drill Method: auger

Date Finished: 1/29/08

M17

Driller: Nick Perry

Logged by: Andy Wrenn

Sample	Blow Counts	Completion	OVM (ppm)	Depth Feet	Lithology	Description
	NA		NA			SAND WITH SILT (SC) Mostly loose, fine to medium-grained, tan to brown sand with varying amounts of silt and clay.
	NA		NA			
	NA		NA	5		
	NA		NA			
	NA		NA	10		

Scale as shown; Hatch pattern denotes soil sample depth;
 Solid denotes lab sample depth; Lithology hatch pattern legend is attached;
Well Construction
 2" diameter Sch. 40 PVC; .010" slotted screen
 Sand: no. 2 sand; Grout: poured portland; Bentonite: poured pellets
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BORING LOG/MONITORING WELL INSTALLATION DETAIL

Contractor: TerraQuest

Date Started: 1/29/08

Boring Number:

Drill Method: auger

Date Finished: 1/29/08

M18

Driller: Nick Perry

Logged by: Andy Wrenn

Sample	Blow Counts	Completion	OVM (ppm)	Depth Feet	Lithology	Description
	NA		NA			<p>SAND WITH SILT (SC) Mostly loose, fine to medium-grained, tan to brown sand with varying amounts of silt and clay.</p>
	NA		NA			
	NA		NA	5		
	NA		NA			
	NA		NA	10		

Scale as shown; Hatch pattern denotes soil sample depth;
 Solid denotes lab sample depth; Lithology hatch pattern legend is attached;
Well Construction
 2" diameter Sch. 40 PVC; .010" slotted screen
 Sand: no. 2 sand; Grout: poured portland; Bentonite: poured pellets
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BORING LOG/MONITORING WELL INSTALLATION DETAIL

Contractor: TerraQuest

Date Started: 1/29/08

Boring Number:

Drill Method: auger

Date Finished: 1/29/08

M19

Driller: Nick Perry

Logged by: Andy Wrenn

Sample	Blow Counts	Completion	OVM (ppm)	Depth Feet	Lithology	Description
	NA		NA			SAND WITH SILT (SC) Mostly loose, fine to medium-grained, tan to brown sand with varying amounts of silt and clay.
	NA		NA			
	NA		NA	5		
	NA		NA			
	NA		NA	10		

Scale as shown; Hatch pattern denotes soil sample depth;
 Solid denotes lab sample depth; Lithology hatch pattern legend is attached;
Well Construction
 2" diameter Sch. 40 PVC; .010" slotted screen
 Sand: no. 2 sand; Grout: poured portland; Bentonite: poured pellets
 Manhole: flush 8" diameter steel
 NA - Not Applicable; BGL - Below Ground Level

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ENVIRONMENTAL CONSULTANTS, P.C.

BORING LOG/MONITORING WELL INSTALLATION DETAIL

Contractor: TerraQuest

Date Started: 1/29/08

Boring Number:

Drill Method: auger

Date Finished: 1/29/08

M20

Driller: Nick Perry

Logged by: Andy Wrenn

Sample	Blow Counts	Completion	OVM (ppm)	Depth Feet	Lithology	Description
	NA		NA			<p>SAND WITH SILT (SC) Mostly loose, fine to medium-grained, tan to brown sand with varying amounts of silt and clay.</p>
	NA		NA			
	NA		NA	5		
	NA		NA			
	NA		NA	10		

Scale as shown; Hatch pattern denotes soil sample depth;
 Solid denotes lab sample depth; Lithology hatch pattern legend is attached;
Well Construction
 2" diameter Sch. 40 PVC; .010" slotted screen
 Sand: no. 2 sand; Grout: poured portland; Bentonite: poured pellets
 Manhole: flush 8" diameter steel
 NA - Not Applicable; BGL - Below Ground Level

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BORING LOG/MONITORING WELL INSTALLATION DETAIL

Contractor: TerraQuest	Date Started: 1/29/08	Boring Number: M21
Drill Method: auger	Date Finished: 1/29/08	
Driller: Nick Perry	Logged by: Andy Wrenn	

Sample	Blow Counts	Completion	OVM (ppm)	Depth Feet	Lithology	Description
	NA		NA			SAND WITH SILT (SC) Mostly loose, fine to medium-grained, tan to brown sand with varying amounts of silt and clay.
	NA		NA			
	NA		NA	5		
	NA		NA			
	NA		NA	10		

Scale as shown; Hatch pattern denotes soil sample depth;
 Solid denotes lab sample depth; Lithology hatch pattern legend is attached;

Well Construction
 2" diameter Sch. 40 PVC; .010" slotted screen
 Sand: no. 2 sand; Grout: poured portland; Bentonite: poured pellets
 Manhole: flush 8" diameter steel
 NA - Not Applicable; BGL - Below Ground Level

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ENVIRONMENTAL CONSULTANTS, P.C.

BORING LOG/MONITORING WELL INSTALLATION DETAIL

Contractor: TerraQuest

Date Started: 1/29/08

Boring Number:

Drill Method: auger

Date Finished: 1/29/08

M22

Driller: Nick Perry

Logged by: Andy Wrenn

Sample	Blow Counts	Completion	OVM (ppm)	Depth Feet	Lithology	Description
	NA		NA			SAND WITH SILT (SC) Mostly loose, fine to medium-grained, tan to brown sand with varying amounts of silt and clay.
	NA		NA	5		

Scale as shown; Hatch pattern denotes soil sample depth;
Solid denotes lab sample depth; Lithology hatch pattern legend is attached;

Well Construction

2" diameter Sch. 40 PVC; .010" slotted screen
Sand: no. 2 sand; Grout: poured portland; Bentonite: poured pellets
Manhole: flush 8" diameter steel
NA - Not Applicable; BGL - Below Ground Level

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BORING LOG/MONITORING WELL INSTALLATION DETAIL

Contractor: TerraQuest

Date Started: 1/29/08

Boring Number:

Drill Method: auger

Date Finished: 1/29/08

M23

Driller: Nick Perry

Logged by: Andy Wrann

Sample	Blow Counts	Completion	OVM (ppm)	Depth Feet	Lithology	Description
	NA	NA	NA		[Hatched Pattern]	SAND WITH SILT (SC) Mostly loose, fine to medium-grained, tan to brown sand with varying amounts of silt and clay.
	NA	NA	NA		[Hatched Pattern]	
	NA	NA	NA	5	[Hatched Pattern]	

Scale as shown; Hatch pattern denotes soil sample depth;
 Solid denotes lab sample depth; Lithology hatch pattern legend is attached;
Well Construction
 2" diameter Sch. 40 PVC; .010" slotted screen
 Sand: no. 2 sand; Grout: poured portland; Bentonite: poured pellets
 Manhole: flush 8" diameter steel
 NA - Not Applicable; BGL - Below Ground Level

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BORING LOG/MONITORING WELL INSTALLATION DETAIL

Contractor: TerraQuest	Date Started: 3/26/08	Boring Number: M24
Drill Method: Solid Stem Auger	Date Finished: 3/26/08	
Driller: Nick Perry	Logged by: Andy Wrenn	

Sample	Blow Counts	Completion	OVM (ppm)	Depth Feet	Lithology	Description
	NA		NA			SAND (SC) Mostly loose, light brown/orange fine grain sand with few to trace clay Boring terminated 8' BGL
	NA		NA			
	NA		NA	5		
	NA		NA			

Scale as shown; Hatch pattern denotes soil sample depth;
 Solid denotes lab sample depth; Lithology hatch pattern legend is attached;
Well Construction
 2" diameter Sch. 40 PVC; .010" slotted screen
 Sand: no. 2 sand; Grout: poured portland; Bentonite: poured pellets
 Finished with stickup metal box
 NA - Not Applicable; BGL - Below Ground Level

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BORING LOG/MONITORING WELL INSTALLATION DETAIL

Contractor: TerraQuest

Date Started: 3/26/08

Boring Number:

Drill Method: Solid Stem Auger

Date Finished: 3/26/08

M25

ENVIRONMENTAL CONSULTANTS, P.C.

Driller: Nick Perry

Logged by: Andy Wrenn

Sample	Blow Counts	Completion	OVM (ppm)	Depth Feet	Lithology	Description
	NA		NA			Sand (SC) Mostly loose, light brown/orange fine grain sand with some to little clay Boring terminated 8' BGL
	NA		NA			
	NA		NA	5		
	NA		NA			

Scale as shown; Hatch pattern denotes soil sample depth;
 Solid denotes lab sample depth; Lithology hatch pattern legend is attached;
Well Construction
 2" diameter Sch. 40 PVC; .010" slotted screen
 Sand: no. 2 sand; Grout: poured portland; Bentonite: poured pellets
 Finished with stickup metal box
 NA - Not Applicable; BGL - Below Ground Level

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BORING LOG/MONITORING WELL INSTALLATION DETAIL

Contractor: TerraQuest

Date Started: 3/26/08

Boring Number:
M26

Drill Method: Solid Stem Auger

Date Finished: 3/26/08

Driller: Nick Perry

Logged by: Andy Wrenn

Sample	Blow Counts	Completion	OVM (ppm)	Depth Feet	Lithology	Description
	NA		NA			Sand (SC) Mostly loose, light brown/orange sand with some to little clay
	NA		NA			
	NA		NA	5		Clay (CL) Mostly soft, grayish blue clay with yellowish orange mottles
	NA		NA			

Scale as shown; Hatch pattern denotes soil sample depth;
 Solid denotes lab sample depth; Lithology hatch pattern legend is attached;
Well Construction
 2" diameter Sch. 40 PVC; .010" slotted screen
 Sand: no. 2 sand; Grout: poured portland; Bentonite: poured pellets
 Finished with stickup metal box
 NA - Not Applicable; BGL - Below Ground Level

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BORING LOG/MONITORING WELL INSTALLATION DETAIL

Contractor: TerraQuest	Date Started: 3/26/08	Boring Number: M27
Drill Method: Solid Stem Auger	Date Finished: 3/26/08	
Driller: Nick Perry	Logged by: Andy Wrenn	

Sample	Blow Counts	Completion	OVM (ppm)	Depth Feet	Lithology	Description
	NA		NA			Sand (SC) Mostly loose, light brown/orange fine grain sand with little to few clay Boring terminated 9' BGL
	NA		NA			
	NA		NA	5		
	NA		NA			
	NA		NA			

Scale as shown; Hatch pattern denotes soil sample depth;
 Solid denotes lab sample depth; Lithology hatch pattern legend is attached;
Well Construction
 2" diameter Sch. 40 PVC; .010" slotted screen
 Sand: no. 2 sand; Grout: poured portland; Bentonite: poured pellets
 Finished with stickup metal box
 NA - Not Applicable; BGL - Below Ground Level

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BORING LOG/MONITORING WELL INSTALLATION DETAIL

Contractor: TerraQuest

Date Started: 3/26/08

Boring Number:

Drill Method: Solid Stem Auger

Date Finished: 3/26/08

M28

Driller: Nick Perry

Logged by: Andy Wrenn

Sample	Blow Counts	Completion	OVM (ppm)	Depth Feet	Lithology	Description
	NA		NA			Sand (SC) Mostly loose, light brown/orange fine grain sand with few to trace clay
	NA		NA			
	NA		NA	5		
	NA		NA			

Scale as shown; Hatch pattern denotes soil sample depth;
 Solid denotes lab sample depth; Lithology hatch pattern legend is attached;
Well Construction
 2" diameter Sch. 40 PVC; .010" slotted screen
 Sand: no. 2 sand; Grout: poured portland; Bentonite: poured pellets
 Finished with stickup metal box
 NA - Not Applicable; BGL - Below Ground Level

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BORING LOG/MONITORING WELL INSTALLATION DETAIL

Contractor: Terraquest	Date Started: 3/26/08	Boring Number: M29
Drill Method: Solid Stem Auger	Date Finished: 3/26/08	
Driller: Nick Perry	Logged by: Andy Wrenn	

Sample	Blow Counts	Completion	OVM (ppm)	Depth Feet	Lithology	Description
	NA		NA			Sand (SC) Mostly loose, light brown/orange fine grain sand with little to few clay
	NA		NA			
	NA		NA	5		Sand (SC) Mostly loose, light brown/orange fine grain sand with little to few clay. Some black organics present and trash noted
	NA		NA			

Scale as shown; Hatch pattern denotes soil sample depth;
 Solid denotes lab sample depth; Lithology hatch pattern legend is attached;
Well Construction
 2" diameter Sch. 40 PVC; .010" slotted screen
 Sand: no. 2 sand; Grout: poured portland; Bentonite: poured pellets
 Finished with stickup metal box
 NA - Not Applicable; BGL - Below Ground Level

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BORING LOG/MONITORING WELL INSTALLATION DETAIL

Contractor: TerraQuest

Date Started: 3/26/08

Boring Number:
M30

Drill Method: Solid Stem Auger

Date Finished: 3/26/08

Driller: Nick Perry

Logged by: Andy Wrenn

Sample	Blow Counts	Completion	OVM (ppm)	Depth Feet	Lithology	Description
	NA		NA			Sand (SC) Mostly loose, light brown/orange fine grain sand with little to few clay Boring terminated 8' BGL
	NA		NA			
	NA		NA	5		
	NA		NA			

Scale as shown; Hatch pattern denotes soil sample depth;
Solid denotes lab sample depth; Lithology hatch pattern legend is attached;
Well Construction
2" diameter Sch. 40 PVC; .010" slotted screen
Sand: no. 2 sand; Grout: poured portland; Bentonite: poured pellets
Finished with stickup metal box
NA - Not Applicable; BGL - Below Ground Level

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BORING LOG/MONITORING WELL INSTALLATION DETAIL

Contractor: TerraQuest	Date Started: 3/26/08	Boring Number: M31
Drill Method: Solid Stem Auger	Date Finished: 3/26/08	
Driller: Nick Perry	Logged by: Andy Wrenn	

Sample	Blow Counts	Completion	OVM (ppm)	Depth Feet	Lithology	Description
	NA		NA			Sand (SC) Mostly loose, light brown/orange fine grain sand with little to few clay Boring terminated at 10' BGL
	NA		NA			
	NA		NA	5		
	NA		NA			

Scale as shown; Hatch pattern denotes soil sample depth;
 Solid denotes lab sample depth; Lithology hatch pattern legend is attached;
Well Construction
 2" diameter Sch. 40 PVC; .010" slotted screen
 Sand: no. 2 sand; Grout: poured portland; Bentonite: poured pellets
 Finished with stickup metal box
 NA - Not Applicable; BGL - Below Ground Level

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BORING LOG/MONITORING WELL INSTALLATION DETAIL

Contractor: TerraQuest Date Started: 3/26/08
 Drill Method: Solid Stem Auger Date Finished: 3/26/08
 Driller: Nick Perry Logged by: Andy Wrenn

Boring Number:
M32

Sample	Blow Counts	Completion	OVM (ppm)	Depth Feet	Lithology	Description
	NA		NA			Sand (SC) Mostly loose, light brown/orange fine grain sand with little to few clay Boring terminated at 8' BGL
	NA		NA			
	NA		NA	5		
	NA		NA			

Scale as shown; Hatch pattern denotes soil sample depth;
 Solid denotes lab sample depth; Lithology hatch pattern legend is attached;
Well Construction
 2" diameter Sch. 40 PVC; .010" slotted screen
 Sand: no. 2 sand; Grout: poured portland; Bentonite: poured pellets
 Finished with stickup metal box
 NA - Not Applicable; BGL - Below Ground Level

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BORING LOG/MONITORING WELL INSTALLATION DETAIL

Contractor: TerraQuest

Date Started: 3/27/08

Boring Number:

Drill Method: Hand Auger

Date Finished: 3/27/08

M33

Driller: Nick Perry

Logged by: Andy Wrenn

Sample	Blow Counts	Completion	OVM (ppm)	Depth Feet	Lithology	Description
				5		<p>SAND WITH SILT (SC) Mostly loose, fine to medium-grained, tan to brown sand with varying amounts of silt and clay.</p> <p>Boring terminated 5' BGL</p>

Scale as shown; Hatch pattern denotes soil sample depth;
 Solid denotes lab sample depth; Lithology hatch pattern legend is attached;

Well Construction

2" diameter Sch. 40 PVC; .010" slotted screen
 Sand: no. 2 sand; Grout: poured portland; Bentonite: poured pellets
 Finished with 3' of 2"-diameter riser above ground level and an aluminum stickup
 NA - Not Applicable; BGL - Below Ground Level

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BORING LOG/MONITORING WELL INSTALLATION DETAIL

Contractor: TerraQuest
 Drill Method: Hand Auger
 Driller: Nick Perry

Date Started: 3/27/08
 Date Finished: 3/27/08
 Logged by: Andy Wrann

Boring Number:
M34

Sample	Blow Counts	Completion	OVM (ppm)	Depth Feet	Lithology	Description
				5		<p>SAND WITH SILT (SC) Mostly loose, fine to medium-grained, tan to brown sand with varying amounts of silt and clay.</p> <p>Boring terminated 5' BGL</p>

Scale as shown; Hatch pattern denotes soil sample depth;
 Solid denotes lab sample depth; Lithology hatch pattern legend is attached;
Well Construction
 2" diameter Sch. 40 PVC; .010" slotted screen
 Sand: no. 2 sand; Grout: poured portland; Bentonite: poured pellets
 Finished with 3' of 2"-diameter riser above ground level and an aluminum stickup
 NA - Not Applicable; BGL - Below Ground Level

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BORING LOG/MONITORING WELL INSTALLATION DETAIL

Contractor: TerraQuest	Date Started: 3/27/08	Boring Number: M35
Drill Method: Hand Auger	Date Finished: 3/27/08	
Driller: Nick Perry	Logged by: Andy Wrenn	

Sample	Blow Counts	Completion	OVM (ppm)	Depth Feet	Lithology	Description
				5		<p>SAND WITH SILT (SC) Mostly loose, fine to medium-grained, tan to brown sand with varying amounts of silt and clay.</p> <p>Boring terminated 5' BGL</p>

Scale as shown; Hatch pattern denotes soil sample depth;
Solid denotes lab sample depth; Lithology hatch pattern legend is attached;

Well Construction

2" diameter Sch. 40 PVC; .010" slotted screen
Sand: no. 2 sand; Grout: poured portland; Bentonite: poured pellets
Finished with 3' of 2"-diameter riser above ground level and an aluminum stickup
NA - Not Applicable; BGL - Below Ground Level

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BORING LOG/MONITORING WELL INSTALLATION DETAIL

Contractor: Terraquest	Date Started: 7/16/08	Boring Number: M36
Drill Method: Solid Stem Auger	Date Finished: 7/16/08	
Driller: Nick Perry	Logged by: Ryan Kerins	

Sample	Blow Counts	Completion	OVM (ppm)	Depth Feet	Lithology	Description
	NA	NA	NA			CLAY (ML) Mostly soft gray clay with some medium grained sand. Trash noted in borehole. Boring terminated 8' BGL.
	NA	NA	NA			
	NA	NA	NA	5		
	NA	NA	NA			

Scale as shown; Hatch pattern denotes soil sample depth;
 Solid denotes lab sample depth; Lithology hatch pattern legend is attached;
Well Construction
 2" diameter Sch. 40 PVC; .010" slotted screen
 Sand: no. 2 sand; Grout: poured portland; Bentonite: poured pellets
 Finished with metal stickup cover.
 NA - Not Applicable; BGL - Below Ground Level

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BORING LOG/MONITORING WELL INSTALLATION DETAIL

Contractor: Terraquest	Date Started: 7/16/08	Boring Number: M37
Drill Method: Solid Stem Auger	Date Finished: 7/16/08	
Driller: Nick Perry	Logged by: Ryan Kerins	

Sample	Blow Counts	Completion	OVM (ppm)	Depth Feet	Lithology	Description
	NA	NA	NA			CLAY (ML) Mostly soft gray clay with some medium grained sand. Trash noted in borehole. Boring terminated 8' BGL.
	NA	NA	NA			
	NA	NA	NA	5		
	NA	NA	NA			

Scale as shown; Hatch pattern denotes soil sample depth;
 Solid denotes lab sample depth; Lithology hatch pattern legend is attached;
Well Construction
 2" diameter Sch. 40 PVC; .010" slotted screen
 Sand: no. 2 sand; Grout: poured portland; Bentonite: poured pellets
 Finished with metal stickup cover.
 NA - Not Applicable; BGL - Below Ground Level

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BORING LOG/MONITORING WELL INSTALLATION DETAIL

Contractor: Terraquest

Date Started: 7/16/08

Boring Number:

Drill Method: Solid Stem Auger

Date Finished: 7/16/08

M38

Driller: Nick Perry

Logged by: Ryan Kerins

Sample	Blow Counts	Completion	OVM (ppm)	Depth Feet	Lithology	Description
	NA	NA	NA			CLAY (ML) Mostly soft gray clay with some medium grained sand and some silt. Trash noted in borehole. Boring terminated 8' BGL.
	NA	NA	NA			
	NA	NA	NA	5		
	NA	NA	NA			

Scale as shown; Hatch pattern denotes soil sample depth;
 Solid denotes lab sample depth; Lithology hatch pattern legend is attached;
Well Construction
 2" diameter Sch. 40 PVC; .010" slotted screen
 Sand: no. 2 sand; Grout: poured portland; Bentonite: poured pellets
 Finished with metal stickup cover.
 NA - Not Applicable; BGL - Below Ground Level

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