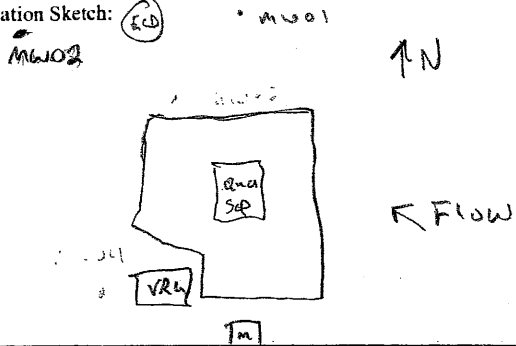


Well Location Sketch:



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BORING LOG/MONITORING WELL COMPLETION DIAGRAM

Boring/Well Number: <i>M.W.01</i>	Project: <i>AT Farms/Milak-brandt Pool</i>
Date: <i>5-21-10</i>	Project Number: <i>KMG 10607</i>
Logged By: <i>MD</i>	Drilled By: <i>DrillPro</i>

Elevation:	Detector: <i>MINI RAE PID</i>	Drilling Method: Direct push	Sampling Method: Continuous
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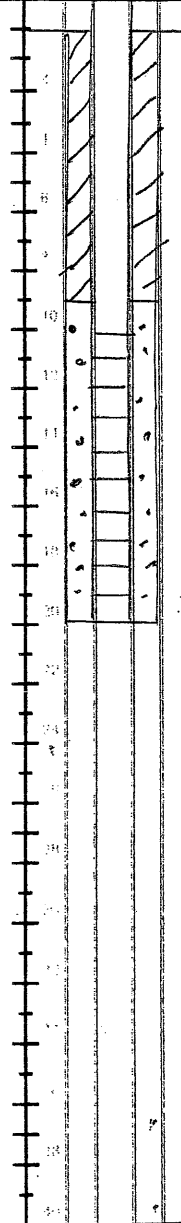
Gravel Pack: 10-20 Silica sand	<i>9'-20' bgs</i>	Seal: Bentonite chips	<i>0-9' bgs</i>	Grout: NA
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Casing Type: PVC	Diameter: 1"	Length: <i>10'</i>	Hole Diameter: 2.5"	Depth to Liquid:
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Screen Type: PVC	Slot: 0.010	Diameter: 1"	Length: <i>10'</i>	Total Depth: <i>20'</i>	Depth to Water: <i>15'</i>
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Penetration Resistance	Moisture Content	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Run	Recovery	Soil/Rock Type	Lithology/Remarks	Well Completion Diagram
	MOIST	15.1			0					
Low					2		3		0-1 Sand & gravel, moist, H brown, no odor	
		5.1			4					
					6		3		1-4.5 silty-clay w/ sand & gravel, no odor	
					8					
MED	Very moist	22.1			10		4		4.5-10 Sand, M-c grained, w/ gravel, moist, tan & gray, no odor	
					12					
		42.8			14		4		10-15 AA, very moist, odor, slight staining	
	SAT.	53.8			16					
High					18				15-20 AA, saturated, black staining	
					20		3'			
					22					
					24					
					26					
					28					
					30					
					32					
					34					
					36					
					38					
					40					

TD=20'



Well Location Sketch:

See MW01



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BORING LOG/MONITORING WELL COMPLETION DIAGRAM

Boring/Well Number: MW02	Project: MS Farms/Hildenbrandt Pooling
Date: 5-21-00	Project Number: KMG-10607
Logged By: LD	Drilled By: Drill Pro

Elevation:	Detector: MINI PAC 2500 PIP	Drilling Method: Direct push	Sampling Method: Continuous
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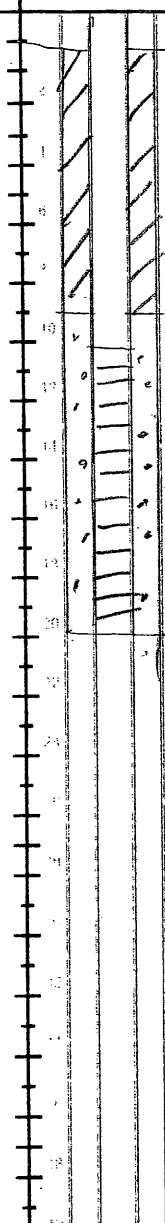
Gravel Pack: 10-20 Silica sand	Seal: Bentonite chips 0-9' bgs	Grout: NA
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Casing Type: PVC	Diameter: 1"	Length: 10'	Hole Diameter: 2.5"	Depth to Liquid:
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Screen Type: PVC	Slot: 0.010	Diameter: 1"	Length: 10'	Total Depth: 20'	Depth to Water: 15.5'
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Penetration Resistance	Moisture Content	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Run	Recovery	Soil/Rock Type	Lithology/Remarks	Well Completion Diagram
	Moist				0					
LOW		33.5			2		3'		0-2 Silty-clay, w/sand, moist, dk brown, no odor	
					4				2-5 AA, black, odor	
		23.8			6		3'		5-15.5 Sand, m-c graded, moist, tan & gray, no odor	
MED					8					
		22.1			10		3'		15.5-19 Sand, m-c graded, Sat., black staining, odor	
					12					
High	Sat	142.1			14		3'			
					16				19-20 AA, no staining, no odor	
		232.6			18		3'			
					20					
					22					
					24					
					26					
					28					
					30					
					32					
					34					
					36					
					38					
					40					

TD = 20'



Location Map:

PN

MW03



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BORING LOG/MONITORING WELL COMPLETION DIAGRAM

Boring/Well Number: MW03 Project: HSR - NJ Farms 4/12-0

Date: 5/16/03 Project Number: 0142 10607

Logged By: PH Drilled By: Site Services

Elevation: N/A Detector: PID Drilling Method: Direct Push Sampling Method: Continuous

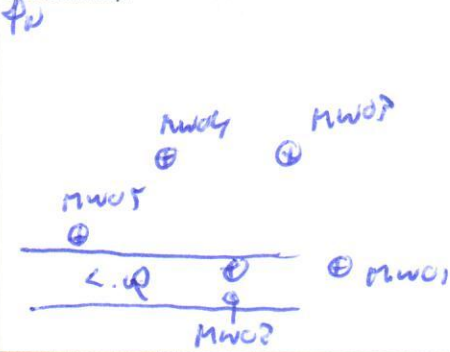
Gravel Pack: Silica Sand Seal: Bentonite Crumbler Grout: N/A

Casing Type: PVC Diameter: 1" Length: 10' Hole Diameter: 2" Depth to Liquid:

Screen Type: PVC Slot: 0.010" Diameter: 1" Length: 10' Total Depth: 20' Depth to Water: ~16.5'

Penetration Resistance	Moisture Content	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Run	Soil/Rock Type	Lithology/Remarks	Well Completion
Med	low	0.0	NO	N/A	0		CL SW	Dark brown silty clay micaceous fine sand	
					2			0-3.5'	
					4			3.5' to 4' coarse to V-course gravelly sand	
		3.4			6				
		12.0			8			4-8' " "	
Med					10			Under staining @ 6-7' grey	
		3.0			12			8-12' coarse to V-course stained gravelly sand	
					14			Subrounded	
	moist	128			16			" "	
					18			grey staining 13'-16'	
	light	342			20			16-20' same lith	
		280			22			grey staining	
		1290			24			20-24' same lith grey/black stain	
					26			T.D. 24'	
					28				
					30			5' PVC stuck up in anticipation of steel casing installation	

Location Map:



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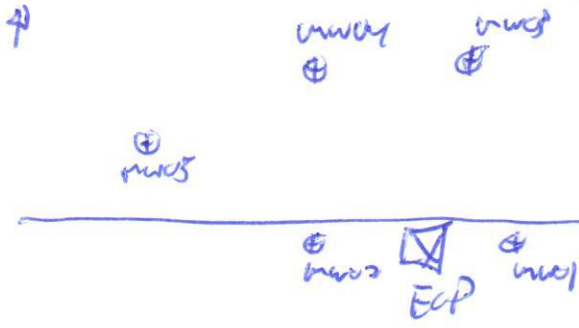
BORING LOG/MONITORING WELL COMPLETION DIAGRAM

Boring/Well Number: MW04	Project: HSR - MJ Farus
Date: 5/16/17	Project Number: KRC 10607
Logged By: PH	Drilled By: Site Servs

Elevation: N/A	Detector: PID	Drilling Method: Direct Push	Sampling Method: Continuous
Gravel Pack: Silica Sand		Seal: Bentonite Crumble	Grout: N/A
Casing Type: PVC	Diameter: 1"	Length: 10'	Hole Diameter: 2" Depth to Liquid: —
Screen Type: PVC	Slot: 0.010"	Diameter: 1"	Length: 10' Total Depth: 20' Depth to Water: 18'

Penetration Resistance	Moisture Content	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Run	Soil/Rock Type	Lithology/Remarks	Well Completion
Wet	low	0.0		N/A	0		CL S.W	0-2' Dk brn silty clay	
		0.0			2			2-4 coarse to v. coarse grained silty sand	
		0.0			4			4-8' same lith	
		0.7			6			8-12' same lith minor staining @ 11.5'	
Wet	Wet	2208			8			12'-16' same lith grey staining 13-15'	
		139			10			16'-20' same lith light grey staining	
		104			12				
		84			14				
					16				
					18				
					20				
					22				
					24				
					26				
					28				
					30				

Location Map:



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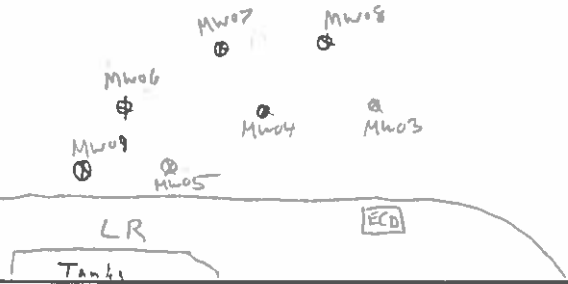
BORING LOG/MONITORING WELL COMPLETION DIAGRAM

Boring/Well Number: MWS	Project: HSR-MJ Farw
Date: 5/16/07	Project Number: KMC 10607
Logged By: Pit PH	Drilled By: Site Services

Elevation: N/A	Detector: PID	Drilling Method: Direct Push	Sampling Method: Continuous
Gravel Pack: Silica Sand		Seal: Portapak Crumbly	Grout: ✓
Casing Type: PVC	Slot: 0.010"	Diameter: 1"	Length: 10'
Screen Type: PVC	Slot: 0.010"	Diameter: 1"	Length: 10'
		Hole Diameter: 2"	Depth to Liquid: 20'
		Total Depth: 20'	Depth to Water: 20'

Penetration Resistance	Moisture Content	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Run	Soil/Rock Type	Lithology/Remarks	Well Completion
low	low	0.0		N/A	0		CC	0-2 PVC h/m sandy silt/clay	
		0.0			2		SC	2-4 coarse to v. coarse gray sandy sand	
		0.0			4			4-8 " "	
		12.0			6			8-12 Sand lith	
		158			8			Sandy silt/clay @ 11-12'	
		490			10				
		387			12			12'-16' sand with gray/black silt	
		1140			14				
		1480			16			16'-20' Sand lith	
					18			Black stain	
					20			thru @ 16.5'	
					22				
					24				
					26				
					28				
					30				

Location Map:



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BORING LOG/MONITORING WELL COMPLETION DIAGRAM

Boring/Well Number: MW06	Project: HSR MJ Farms 11, 12, 13, 14-7
Date: 5/16/2013	Project Number: KMG10607
Logged By: Jeremy Espinoza	Drilled By: ACI
Drilling Method: Direct Push	Sampling Method: Direct Push

Elevation: _____ Detector: PID

Gravel Pack: Silica Sand

Seal: Bentonite Crumbles Grout: None

Casing Type: PVC

Diameter: 1" Length: 15' Hole Diameter: 2" Depth to Liquid: 8'

Screen Type: PVC Slot: 0.01

Diameter: 1" Length: 10' Total Depth: 20' Depth to Water: 16'

Penetration Resistance	Moisture Content	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Run	Soil/Rock Type	Lithology/Remarks	Well Completion
	Dry	0.0	None	NA	0	5/5		0-3 Sandy clay, dark brown, dry, low cohesion, low plasticity, no stain, no odor	
		0.0			2	5/5			
		0.0			4			3-20 Gravely, coarse sand, brown to grey, no stain, no odor, dry - moist at 8' - Stain and odor from 16-20' - wet at 16'	
	Moist	0.0			6	5/5			
		8.2			8	5/5			
		83.6			10	5/5			
		87.3	Light Stain		12	5/5			
	Wet				14	5/5			
					16	5/5			
					18	5/5			
					20	5/5			
					22				
					24				
					26				
					28				
					30				

Location Map:

See MWC6



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BORING LOG/MONITORING WELL COMPLETION DIAGRAM

Boring/Well Number: Mwo7	Project: HSR MJ Farms 11, 12, 13, 14-7
Date: 5/16/2013	Project Number: KMG10607
Logged By: Jeremy Espinoza	Drilled By: ACI

Elevation:	Detector: PID	Drilling Method: Direct Push	Sampling Method: Direct Push
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Gravel Pack: Silica Sand	Seal: Bentonite Crumbles	Grout: None
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Casing Type: PVC	Diameter: 1"	Length: 15'	Hole Diameter: 2"	Depth to Liquid: 8'
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Screen Type: PVC	Slot: 0.01	Diameter: 1"	Length: 10'	Total Depth: 20'	Depth to Water: 17'
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Penetration Resistance	Moisture Content	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Run	Soil/Rock Type	Lithology/Remarks	Well Completion
	Dry	0.0	None	NA	0			0-3 Sandy clay, trace gravel, dry, low cohesion, low plasticity, dark brown, no stain, no odor	
		0.0			2	5/5			
	moist	17.0			4			3-20' Gravely coarse sand, brown to grey, no stain, no odor, dry -moist at 8' -Stain and odor at 15'-20' -wet at 17'	
		1720	light stain		6	5/5			
	wet	52.3			8	5/5			
					10				
					12	5/5			
					14				
					16	5/5			
					18				
					20	5/5			
					22				
					24				
					26				
					28				
					30				

Location Map:

Sec MW06



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BORING LOG/MONITORING WELL COMPLETION DIAGRAM

Boring/Well Number: MW08 Project: HSR MJ Farms 11, 12, 13, 14-7

Date: 5/16/2013 Project Number: KMG10607

Logged By: Jeremy Espinoza Drilled By: ACI

Elevation: _____ Detector: PID Drilling Method: Direct Push Sampling Method: Direct Push

Gravel Pack: Silica Sand Seal: Bentonite Crumbles Grout: None

Casing Type: PVC Diameter: 1" Length: _____ Hole Diameter: 2" Depth to Liquid: 8'

Screen Type: PVC Slot: 0.01 Diameter: 1" Length: _____ Total Depth: _____ Depth to Water: 17'

Penetration Resistance	Moisture Content	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Run	Soil/Rock Type	Lithology/Remarks	Well Completion
	Dry	0.0	None	NA	0	5/5		0-3' Sandy clay, trace gravel, dark brown, dry, no skin, no odor	
					2	5/5			
		0.0			4			3-20' Gravely coarse sand, brown to grey, dry, no skin, no odor - moist at 8' - odor and stain 14'-20' - wet at 17'	
					6	5/5			
	Moist	0.0			8	5/5			
					10	5/5			
		0.0			12	5/5			
		1320			14				
		1502	Light Stain		16	5/5			
	Wet	108.8			18	5/5			
					20				
					22				
					24				
					26				
					28				
					30				

Location Map:

Sec MW06



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BORING LOG/MONITORING WELL COMPLETION DIAGRAM

Boring Well Number: MW09	Project: HSR MJ Farms 11, 12, 13, 14-7
Date: 5/16/2013	Project Number: KMG10607
Logged By: Jeremy Espinoza	Drilled By: ACI
Elevation:	Detector: PID
Drilling Method: Direct Push	Sampling Method: Direct Push
Gravel Pack: Silica Sand	Seal: Bentonite Crumbles
Casing Type: PVC	Grout: None
Screen Type: PVC	Slot: 0.01
Diameter: 1"	Length:
Hole Diameter: 2"	Depth to Liquid: 7'
Total Depth: 16'	Depth to Water: 16'

Penetration Resistance	Moisture Content	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Run	Soil/Rock Type	Lithology/Remarks	Well Completion
	Dry	0.0	None	NA	0			0-3' Sandy clay, trace gravel, dark brown, dry no skin, no odor 3'- Gravelly coarse sand, brown to grey, dry, no stain, no odor - 8" stringer of med sand at 5' - moist at 7' - Skin and odor 12-20' - wet at 16'	
		0.0			2	5/5			
	Moist	0.0			4				
					6				
		39.0			8	5/5			
					10				
		1505	Light Stain		12	5/5			
	wet				14				
		1674	Heavy Stain		16	5/5			
					18				
					20				
					22				
					24				
					26				
					28				
					30				

Well Location Sketch:



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BORING LOG/MONITORING WELL COMPLETION DIAGRAM

Boring/Well Number: <i>MW01R</i>	Project: HSR-MJ Farms 11,12,13,14-7
Date: <i>10/30/14</i>	Project Number: KMG10607
Logged By: Jeremy Espinoza	Drilled By: Drill Pro

Elevation:	Detector: PID	Drilling Method: Direct Push	Sampling Method: Continuous
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Gravel Pack: Silica Sand	Seal: Bentonite	Grout: -
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Casing Type: PVC	Diameter: 1"	Length: 10'	Hole Diameter: 3"	Depth to Liquid: -
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Screen Type: PVC	Slot: 0.01	Diameter: 1"	Length: 10'	Total Depth: 20'	Depth to Water: 12'
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Penetration Resistance	Moisture Content	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Run	Recovery	Soil/Rock Type	Lithology/Remarks	Well Completion Diagram
					0					
					2				Hydrovac, Not Logged	
					4					
					6					
	Dry	0.0	skin		8	2	2		6-20 Med-coarse sand, grey wet at 12', stain, odor	
		0.0			10	4	4			
	wet				12					
		1733			14	4	4	Sh		
					16					
		1231			18	4	4			
					20					
					22					
					24					
					26					
					28					
					30					
					32					
					34					
					36					
					38					
					40					

Well Location Sketch:

See MW01



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BORING LOG/MONITORING WELL COMPLETION DIAGRAM

Boring/Well Number: MW03R	Project: HSR-MJ Farms 11,12,13,14-7
Date: 10/30/14	Project Number: KMG10607
Logged By: Jeremy Espinoza	Drilled By: Drill Pro

Elevation:	Detector: PID	Drilling Method: Direct Push	Sampling Method: Continuous
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Gravel Pack: Silica Sand	Seal: Bentonite	Grout: -
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Casing Type: PVC	Diameter: 1"	Length: 10'	Hole Diameter: 3"	Depth to Liquid: -
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Screen Type: PVC	Slot: 0.01	Diameter: 1"	Length: 10'	Total Depth: 20'	Depth to Water: 14'
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Penetration Resistance	Moisture Content	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Run	Recovery	Soil/Rock Type	Lithology/Remarks	Well Completion Diagram
					0					
					2				Hydrovac, Not Logged	
					4					
					6					
	Dry	0.0	None		8	2	3		6-20' Med - course sand, light brown to grey, wet at 14', stain and odor starting at 14'	
		0.0			10	4	4			
	wet	792	Stain		14	4	4	SW		
		231			16					
					18	4	4			
					20					
					22					
					24					
					26					
					28					
					30					
					32					
					34					
					36					
					38					
					40					

Well Location Sketch:

See MW01R



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BORING LOG/MONITORING WELL COMPLETION DIAGRAM

Boring/Well Number: MW04R	Project: HSR-MJ Farms 11,12,13,14-7
Date: 10/30	Project Number: KMG10607
Logged By: Jeremy Espinoza	Drilled By: Drill Pro

Elevation:	Detector: PID	Drilling Method: Direct Push	Sampling Method: Continuous
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Gravel Pack: Silica Sand	Seal: Bentonite	Grout: -
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Casing Type: PVC	Diameter: 1"	Length: 10'	Hole Diameter: 3"	Depth to Liquid: -
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Screen Type: PVC	Slot: 0.01	Diameter: 1"	Length: 10'	Total Depth: 20'	Depth to Water: 13'
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Penetration Resistance	Moisture Content	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Run	Recovery	Soil/Rock Type	Lithology/Remarks	Well Completion Diagram
					0					
					2				Hydrovac, Not Logged	
					4					
					6					
	Dry	0.0	None		8	2	2		6-20' Med-course sand, light brown to grey, wet at 13', stain and odor starting at 10'	
		0.0			10	4	3			
	wet	3.9	Stain		12					
					14	4	4	SW		
					16					
		673			18	4	4			
					20					
					22					
					24					
					26					
					28					
					30					
					32					
					34					
					36					
					38					
					40					

Well Location Sketch:

See MW012



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BORING LOG/MONITORING WELL COMPLETION DIAGRAM

Boring/Well Number: MW05A	Project: HSR-MJ Farms 11,12,13,14-7
Date: 10/30/14	Project Number: KMG10607
Logged By: Jeremy Espinoza	Drilled By: Drill Pro

Elevation:	Detector: PID	Drilling Method: Direct Push	Sampling Method: Continuous
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Gravel Pack: Silica Sand	Seal: Bentonite	Grout: -
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Casing Type: PVC	Diameter: 1"	Length: 10'	Hole Diameter: 3"	Depth to Liquid: -
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Screen Type: PVC	Slot: 0.01	Diameter: 1"	Length: 10'	Total Depth: 20'	Depth to Water: 13'
---------------------	---------------	-----------------	----------------	---------------------	------------------------

Penetration Resistance	Moisture Content	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Run	Recovery	Soil/Rock Type	Lithology/Remarks	Well Completion Diagram
					0					
					2				Hydrovac, Not Logged	
					4					
					6					
	Dry	0.0	None		8	2	2		6-20' Med - Coarse sand, light brown to grey, wet at 13', skin and odor starting at 10'	
		4.1	skin		10	4	3			
	wet	1128			12					
		1526			14	4	4	SW		
					16					
					18	4	4			
					20					
					22					
					24					
					26					
					28					
					30					
					32					
					34					
					36					
					38					
					40					

Well Location Sketch:

See MW06R



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BORING LOG/MONITORING WELL COMPLETION DIAGRAM

Boring/Well Number: MW06R	Project: HSR-MJ Farms 11,12,13,14-7
Date:	Project Number: KMG10607
Logged By: Jeremy Espinoza	Drilled By: Drill Pro

Elevation:	Detector: PID	Drilling Method: Direct Push	Sampling Method: Continuous
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Gravel Pack: Silica Sand	Seal: Bentonite	Grout:
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Casing Type: PVC	Diameter: 1"	Length: 10'	Hole Diameter: 3"	Depth to Liquid:
---------------------	-----------------	----------------	----------------------	------------------

Screen Type: PVC	Slot: 0.01	Diameter: 1"	Length: 10'	Total Depth: 20'	Depth to Water: 14'
---------------------	---------------	-----------------	----------------	---------------------	------------------------

Penetration Resistance	Moisture Content	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Run	Recovery	Soil/Rock Type	Lithology/Remarks	Well Completion Diagram
					0					
					2				Hydrovac, Not Logged	
					4					
					6					
	Dry	0.0	None		8	2	2	SW	6-20' Med - coarse sand, light brown to grey, wet at 14', stain and odor starting at 14'	
		0.0			10	4	4			
	wet	1563	stain		14	4	4			
		71.1			16					
					18	4	4			
					20					
					22					
					24					
					26					
					28					
					30					
					32					
					34					
					36					
					38					
					40					

Well Location Sketch:

See MWOIR



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BORING LOG/MONITORING WELL COMPLETION DIAGRAM

Boring/Well Number: MW07R	Project: HSR-MJ Farms 11,12,13,14-7
Date: 10/30/14	Project Number: KMG10607
Logged By: Jeremy Espinoza	Drilled By: Drill Pro

Elevation:	Detector: PID	Drilling Method: Direct Push	Sampling Method: Continuous
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Gravel Pack: Silica Sand	Seal: Bentonite	Grout:
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Casing Type: PVC	Diameter: 1"	Length: 10'	Hole Diameter: 3"	Depth to Liquid: -
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Screen Type: PVC	Slot: 0.01	Diameter: 1"	Length: 10'	Total Depth: 20'	Depth to Water: 13'
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Penetration Resistance	Moisture Content	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Run	Recovery	Soil/Rock Type	Lithology/Remarks	Well Completion Diagram
					0					
					2				Hydrovac, Not Logged	
					4					
					6					
	Dry	0.0	None		8	2	2		6-20' Med - coarse sand, light brown to grey, wet at 13', skin and odor at 13'	
		0.0			10	4	4			
	wet	1110	skin		12			SW		
		233			14	4	4			
					16					
					18	4	4			
					20					
					22					
					24					
					26					
					28					
					30					
					32					
					34					
					36					
					38					
					40					

Well Location Sketch:

See MW01R



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BORING LOG/MONITORING WELL COMPLETION DIAGRAM

Boring/Well Number: MW09R	Project: HSR-MJ Farms 11,12,13,14-7
Date: 10/30/14	Project Number: KMG10607
Logged By: Jeremy Espinoza	Drilled By: Drill Pro

Elevation:	Detector: PID	Drilling Method: Direct Push	Sampling Method: Continuous
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Gravel Pack: Silica Sand	Seal: Bentonite	Grout:
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Casing Type: PVC	Diameter: 1"	Length: 10'	Hole Diameter: 3"	Depth to Liquid:
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Screen Type: PVC	Slot: 0.01	Diameter: 1"	Length: 10'	Total Depth: 20'	Depth to Water: 14'
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Penetration Resistance	Moisture Content	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Run	Recovery	Soil/Rock Type	Lithology/Remarks	Well Completion Diagram
					0					
					2				Hydrovac, Not Logged	
					4					
					6					
	Dry	0.0	None		8	2	2		6-20' Med - Coarse sand, light brown to grey, wet at 14', stain and odor starting at 13'	
		0.0			10	4	4			
					12					
	Wet	904	Stain		14	4	4	SW		
					16					
		779			18	4	4			
					20					
					22					
					24					
					26					
					28					
					30					
					32					
					34					
					36					
					38					
					40					

Well Location Sketch:

See MW01R



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BORING LOG/MONITORING WELL COMPLETION DIAGRAM

Boring/Well Number: MW10	Project: HSR-MJ Farms 11,12,13,14-7
Date: 10/30/14	Project Number: KMG10607
Logged By: Jeremy Espinoza	Drilled By: Drill Pro

Elevation:	Detector: PID	Drilling Method: Direct Push	Sampling Method: Continuous
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Gravel Pack: Silica Sand	Seal: Bentonite	Grout:
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Casing Type: PVC	Diameter: 1"	Length: 10'	Hole Diameter: 3"	Depth to Liquid: -
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Screen Type: PVC	Slot: 0.01	Diameter: 1"	Length: 10'	Total Depth: 20'	Depth to Water: 14'
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Penetration Resistance	Moisture Content	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Run	Recovery	Soil/Rock Type	Lithology/Remarks	Well Completion Diagram
					0					
					2				Hydrovac, Not Logged	
					4					
					6					
	Dry	0.0	None		8	2	2		6-20' Med - Coarse sand, light brown to grey, wet at 14', no stain, no odor	
		0.0			10	4	4			
	wet	0.0			12					
		0.0			14	4	4	SW		
		0.0			16					
					18	4	4			
					20					
					22					
					24					
					26					
					28					
					30					
					32					
					34					
					36					
					38					
					40					

Well Location Sketch:

See Mwo1



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BORING LOG/MONITORING WELL COMPLETION DIAGRAM

Boring/Well Number: Mwo11	Project: HSR-MJ Farms 11,12,13,14-7
Date: 10/30/14	Project Number: KMG10607
Logged By: Jeremy Espinoza	Drilled By: Drill Pro

Elevation:	Detector: PID	Drilling Method: Direct Push	Sampling Method: Continuous
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Gravel Pack: Silica Sand	Seal: Bentonite	Grout:
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Casing Type: PVC	Diameter: 1"	Length: 10'	Hole Diameter: 3"	Depth to Liquid: -
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Screen Type: PVC	Slot: 0.01	Diameter: 1"	Length: 10'	Total Depth: 20'	Depth to Water: 14'
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Penetration Resistance	Moisture Content	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Run	Recovery	Soil/Rock Type	Lithology/Remarks	Well Completion Diagram
					0					
					2				Hydrovac, Not Logged	
					4					
					6					
	Dry	0.0	None		8	2	2		6-20' Med - coarse sand, light brown to grey, wet at 14', skin and odor from 11' - 19'	
		0.0	Stain		10	4	4	SW		
	wet	1315			12					
		931			14					
		71.9	None		20					
					22					
					24					
					26					
					28					
					30					
					32					
					34					
					36					
					38					
					40					

Well Location Sketch:

See MW01



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BORING LOG/MONITORING WELL COMPLETION DIAGRAM

Boring/Well Number: MW12	Project: HSR-MJ Farms 11,12,13,14-7
Date: 10/30/14	Project Number: KMG10607
Logged By: Jeremy Espinoza	Drilled By: Drill Pro

Elevation:	Detector: PID	Drilling Method: Direct Push	Sampling Method: Continuous
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Gravel Pack: Silica Sand	Seal: Bentonite	Grout: -
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Casing Type: PVC	Diameter: 1"	Length: 10'	Hole Diameter: 3"	Depth to Liquid: -
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Screen Type: PVC	Slot: 0.01	Diameter: 1"	Length: 10'	Total Depth: 20'	Depth to Water: 13'
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Penetration Resistance	Moisture Content	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Run	Recovery	Soil/Rock Type	Lithology/Remarks	Well Completion Diagram
					0					
					2				Hydrovac, Not Logged	
					4					
					6					
	Dry	0.0	None		8	2	2		6-20' Med - Course sand, light brown to grey, wet at 13', stain and odor starting at 13'	
		0.0			10	4	4			
	Wet	1053	Stain		14	4	4	SW		
		810			16					
					18	4	4			
					20					
					22					
					24					
					26					
					28					
					30					
					32					
					34					
					36					
					38					
					40					

Well Location Sketch:

See MW01



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BORING LOG/MONITORING WELL COMPLETION DIAGRAM

Boring/Well Number: <i>MW13</i>	Project: HSR-MJ Farms 11,12,13,14-7
Date: <i>10/30/14</i>	Project Number: KMG10607
Logged By: Jeremy Espinoza	Drilled By: Drill Pro

Elevation:	Detector: PID	Drilling Method: Direct Push	Sampling Method: Continuous
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Gravel Pack: Silica Sand	Seal: Bentonite	Grout: -
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Casing Type: PVC	Diameter: 1"	Length: 10'	Hole Diameter: 3"	Depth to Liquid: -
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Screen Type: PVC	Slot: 0.01	Diameter: 1"	Length: 10'	Total Depth: 20'	Depth to Water: 14'
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Penetration Resistance	Moisture Content	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Run	Recovery	Soil/Rock Type	Lithology/Remarks	Well Completion Diagram
					0					
					2				Hydrovac, Not Logged	
					4					
					6					
	Dry	0.0	None		8	2	2		6-20' Med-coarse sand, light brown to grey, wet at 14', skin and odor starting at 14'	
	↓	0.0	↓		10	4	4			
	wet	1405	Skin		12					
	↓	184	↓		14	4	4	SW		
					16	4	4			
					18	4	4			
					20					
					22					
					24					
					26					
					28					
					30					
					32					
					34					
					36					
					38					
					40					

Well Location Sketch:

See Mw01



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BORING LOG/MONITORING WELL COMPLETION DIAGRAM

Boring/Well Number: Mw14	Project: HSR-MJ Farms 11,12,13,14-7
Date: 10/30/14	Project Number: KMG10607
Logged By: Jeremy Espinoza	Drilled By: Drill Pro

Elevation:	Detector: PID	Drilling Method: Direct Push	Sampling Method: Continuous
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Gravel Pack: Silica Sand	Seal: Bentonite	Grout: -
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Casing Type: PVC	Diameter: 1"	Length: 10'	Hole Diameter: 3"	Depth to Liquid: -
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Screen Type: PVC	Slot: 0.01	Diameter: 1"	Length: 10'	Total Depth: 20'	Depth to Water: 14'
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Penetration Resistance	Moisture Content	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Run	Recovery	Soil/Rock Type	Lithology/Remarks	Well Completion Diagram
					0					
					2				Hydrovac, Not Logged	
					4					
					6					
	Dry	0.0	None		8	2	2		6-20' Med - coarse sand, light brown to grey, wet at 14', stain and odor starting at 14'	
		0.0			10	4	4	SW		
	↓ wet				12					
		149	Stain		14	4	4			
		183			16					
					18	4	4			
					20					
					22					
					24					
					26					
					28					
					30					
					32					
					34					
					36					
					38					
					40					

Well Location Sketch:

See MW01



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BORING LOG/MONITORING WELL COMPLETION DIAGRAM

Boring/Well Number: MW15	Project: HSR-MJ Farms 11,12,13,14-7
Date: 10/30/14	Project Number: KMG10607
Logged By: Jeremy Espinoza	Drilled By: Drill Pro

Elevation:	Detector: PID	Drilling Method: Direct Push	Sampling Method: Continuous
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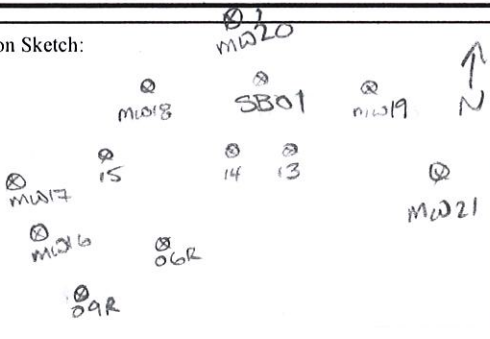
Gravel Pack: Silica Sand	Seal: Bentonite	Grout:
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Casing Type: PVC	Diameter: 1"	Length: 10'	Hole Diameter: 3"	Depth to Liquid:
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Screen Type: PVC	Slot: 0.01	Diameter: 1"	Length: 10'	Total Depth: 20'	Depth to Water: 17'
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Penetration Resistance	Moisture Content	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Run	Recovery	Soil/Rock Type	Lithology/Remarks	Well Completion Diagram
					0					
					2				Hydrovac, Not Logged	
					4					
					6					
	Dry	0.0	None		8	2	2		6-20' Med - coarse sand, Light brown to grey, wet at 14', Stain and odor starting at 16'	
		0.0			10	4	4			
		0.0			12					
	wet				14	4	4			
		796	Stain		16					
					18	4	4			
					20					
					22					
					24					
					26					
					28					
					30					
					32					
					34					
					36					
					38					
					40					

Well Location Sketch:



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BORING LOG/MONITORING WELL COMPLETION DIAGRAM

Boring/Well Number: <i>MW16</i>	Project: HSR-MJ Farms 11,12,14,14-7
Date: <i>2/11/15</i>	Project Number: 14210607
Logged By: Kris Shepherd	Drilled By: Drill Pro

Elevation:	Detector: PID	Drilling Method: Direct Push	Sampling Method: Continuous
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Gravel Pack: Silica Sand	Seal: Bentonite	Grout: -
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Casing Type: PVC	Diameter: 1"	Length: 10'	Hole Diameter: 3"	Depth to Liquid: -
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Screen Type: PVC	Slot: 0.01	Diameter: 1"	Length: 10'	Total Depth: 20'	Depth to Water: 14.5'
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Penetration Resistance	Moisture Content	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Run	Recovery	Soil/Rock Type	Lithology/Remarks	Well Completion Diagram
					0					
					2				Hydrovac, Not Logged	
					4					
					6					
	Moist	0.0	none		8	2	2		6 → 20' mg → coarse, tan, no stain, no odor, moist -14.5' wet -15' Gray staining begins, continues to TD - push point to 20' - flush mount	
	↓	0.0	↓		10	4	4			
	↓	0.0	↓		12					
	↓	0.0	↓		14	4	4	SW		
	wet ↓	200	stain ↓		16					
	↓	940	↓		18	4	4			
		97	↓		20					
					22					
					24					
					26					
					28					
					30					
					32					
					34					
					36					
					38					
					40					

NOTES:

Well Location Sketch:



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BORING LOG/MONITORING WELL COMPLETION DIAGRAM

Boring/Well Number: <i>MW17</i>	Project: HSR-MJ Farms 11,12,14,14-7
Date: <i>2/11/2015</i>	Project Number: 14210607
Logged By: Kris Shepherd	Drilled By: Drill Pro

See MW 16 Log

Elevation:	Detector: PID	Drilling Method: Direct Push	Sampling Method: Continuous
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Gravel Pack: Silica Sand	Seal: Bentonite	Grout: -
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Casing Type: PVC	Diameter: 1"	Length: 10'	Hole Diameter: 3"	Depth to Liquid: -
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Screen Type: PVC	Slot: 0.01	Diameter: 1"	Length: 10'	Total Depth: 20'	Depth to Water: ~14.5'
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Penetration Resistance	Moisture Content	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Run	Recovery	Soil/Rock Type	Lithology/Remarks	Well Completion Diagram
					0					
					2				Hydrovac, Not Logged	
					4					
					6					
	Dry	0.0	none		8	2	2		6' → 20' mg → coarse sand, tan, no stain, no odor, dry - wet @ ~14.5' - Push point to 20' - flush mount	
	↓	0.0	↓		10	4	4			
	↓	1.2	↓		12			SW		
	wet	0.0	↓		14	4	4			
	↓	0.0	↓		16					
	↓	0.0	↓		18	4	4			
		0.0			20					
		0.0			22					
		0.0			24					
		0.0			26					
		0.0			28					
		0.0			30					
		0.0			32					
		0.0			34					
		0.0			36					
		0.0			38					
		0.0			40					

Well Location Sketch:



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BORING LOG/MONITORING WELL COMPLETION DIAGRAM

Boring/Well Number: *MW18* Project: HSR-MJ Farms 11,12,14,14-7

Date: *2/11/15* Project Number: 14210607

Logged By: Kris Shepherd Drilled By: Drill Pro

See MW18 Log

Elevation: Detector: PID Drilling Method: Direct Push Sampling Method: Continuous

Gravel Pack: Silica Sand Seal: Bentonite Grout: -

Casing Type: PVC Diameter: 1" Length: *10'* Hole Diameter: 3" Depth to Liquid: -

Screen Type: PVC Slot: 0.01 Diameter: 1" Length: *10'* Total Depth: *20'* Depth to Water: *~14'*

Penetration Resistance	Moisture Content	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Run	Recovery	Soil/Rock Type	Lithology/Remarks	Well Completion Diagram
					0					
					2				Hydrovac, Not Logged	
					4					
					6					
	<i>moist</i>	<i>0.0</i>	<i>none</i>		8	<i>2</i>	<i>2</i>		<i>6' → 20' mg → coarse sand, tan, no odor, no stain, moist</i>	
		<i>0.0</i>			10	<i>4</i>	<i>3</i>		<i>- wet @ ~14'</i>	
		<i>0.0</i>			12				<i>- staining (gray) @ 17' → 20'</i>	
	<i>wet</i>	<i>0.0</i>			14	<i>4</i>	<i>4</i>		<i>- push point to 20'</i>	
		<i>0.0</i>			16			<i>SW</i>	<i>- flush mount</i>	
		<i>0.0</i>			18	<i>4</i>				
		<i>3.0</i>	<i>stain</i>		20					
					22					
					24					
					26					
					28					
					30					
					32					
					34					
					36					
					38					
					40					

Well Location Sketch:



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BORING LOG/MONITORING WELL COMPLETION DIAGRAM

Boring/Well Number: <i>SBO1</i>	Project: HSR-MJ Farms 11,12,14,14-7
Date: <i>2/11/15</i>	Project Number: 14210607
Logged By: Kris Shepherd	Drilled By: Drill Pro

See MW 16 Log

Elevation:	Detector: PID	Drilling Method: Direct Push	Sampling Method: Continuous
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Gravel Pack: Silica Sand	Seal: Bentonite	Grout: -
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Casing Type: PVC	Diameter: 1"	Length: 10'	Hole Diameter: 3"	Depth to Liquid: -
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Screen Type: PVC	Slot: 0.01	Diameter: 1"	Length: 10'	Total Depth: 20'	Depth to Water: ~14'
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Penetration Resistance	Moisture Content	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Run	Recovery	Soil/Rock Type	Lithology/Remarks	Well Completion Diagram
					0					
					2				Hydrovac, Not Logged	
					4					
					6					
	moist	0.0	none		8	2	1		6' → Mg → Coarse sand, tan, no stain, no odor, moist	
	↓	0.0	↓		10	4	3			
		0.0			12					
	↓	3.1	↓		14	4	4	SW	- wet @ ~14'	
	wet	1226	↓		16				- Stain @ ~14.5' → 20'	
	↓	380	↓		18	4	4		- No well installed	
		64.6	↓		20				- Sample GW @ 14/10	
					22				- Sample ID = SBO1 GW	
					24				- Description = cloudy, gray, odor	
					26					
					28					
					30					
					32					
					34					
					36					
					38					
					40					

Well Location Sketch:



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BORING LOG/MONITORING WELL COMPLETION DIAGRAM

Boring/Well Number: <i>MW19</i>	Project: HSR-MJ Farms 11,12,14,14-7
Date: <i>2/11/2015</i>	Project Number: 14210607
Logged By: Kris Shepherd	Drilled By: Drill Pro

See MW16 Log

Elevation:	Detector: PID	Drilling Method: Direct Push	Sampling Method: Continuous
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Gravel Pack: Silica Sand	Seal: Bentonite	Grout: -
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Casing Type: PVC	Diameter: 1"	Length: 10'	Hole Diameter: 3"	Depth to Liquid: -
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Screen Type: PVC	Slot: 0.01	Diameter: 1"	Length: 10'	Total Depth: 20'	Depth to Water:
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Penetration Resistance	Moisture Content	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Run	Recovery	Soil/Rock Type	Lithology/Remarks	Well Completion Diagram
					0					
					2				Hydrovac, Not Logged	
					4					
					6					
	moist ↓ wet ↓	0.4 3.3 9.9 379 1293 279 399	none ↓ stain ↓		8	2	2		6' → Mg → coarse sand, tan, no stain, no odor, moist - Staining @ ~13' → 20' (gray) - wet @ 14' - push point to 20' - flush mount	
					10	4	4			
					12			SW		
					14	4	4			
					16					
					18	4	4			
					20					
					22					
					24					
					26					
					28					
					30					
					32					
					34					
					36					
					38					
					40					

Well Location Sketch:



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BORING LOG/MONITORING WELL COMPLETION DIAGRAM

Boring/Well Number: <i>MW20</i>	Project: HSR-MJ Farms 11,12,14,14-7
Date: <i>2/11/2015</i>	Project Number: 14210607
Logged By: Kris Shepherd	Drilled By: Drill Pro

See MW 16 log

Elevation:	Detector: PID	Drilling Method: Direct Push	Sampling Method: Continuous
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Gravel Pack: Silica Sand	Seal: Bentonite	Grout: -
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Casing Type: PVC	Diameter: 1"	Length: 10'	Hole Diameter: 3"	Depth to Liquid: -
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Screen Type: PVC	Slot: 0.01	Diameter: 1"	Length: 10'	Total Depth: 20'	Depth to Water: ~14'
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Penetration Resistance	Moisture Content	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Run	Recovery	Soil/Rock Type	Lithology/Remarks	Well Completion Diagram
					0					
					2				Hydrovac, Not Logged	
					4					
					6					
	moist	0.0	now		8	2	2		6' → flg → coarse sand, tan, no odor, no stain, moist	
	↓	1.1	↓		10	4	4			
	↓	9.5	↓		12					
	↓	3.8	↓		14	4	4'	SW	- odor + stain @ 14' → 20'	
	wet	1224	stain		16				- wet @ 14'	
	↓	1005	↓		18	4	4			
	↓	179	↓		20				- push point to 20'	
					22				- flush mount	
					24					
					26					
					28					
					30					
					32					
					34					
					36					
					38					
					40					

Well Location Sketch:



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BORING LOG/MONITORING WELL COMPLETION DIAGRAM

Boring/Well Number: <i>MW21</i>	Project: HSR-MJ Farms 11,12,14,14-7
Date: <i>2/11/2015</i>	Project Number: 14210607
Logged By: Kris Shepherd	Drilled By: Drill Pro

see MW16 log

Elevation:	Detector: PID	Drilling Method: Direct Push	Sampling Method: Continuous
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Gravel Pack: Silica Sand	Seal: Bentonite	Grout: -
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Casing Type: PVC	Diameter: 1"	Length: 10'	Hole Diameter: 3"	Depth to Liquid: -
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Screen Type: PVC	Slot: 0.01	Diameter: 1"	Length: 10'	Total Depth: 20'	Depth to Water: ~14'
---------------------	---------------	-----------------	----------------	---------------------	-------------------------

Penetration Resistance	Moisture Content	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Run	Recovery	Soil/Rock Type	Lithology/Remarks	Well Completion Diagram
					0					
					2				Hydrovac, Not Logged	
					4					
					6					
	<i>moist</i>	<i>3.4</i>	<i>none</i>		8	<i>2</i>	<i>2</i>		<i>6' → 20' Mg → coarse sand, tan, no stain, no odor, moist</i>	
		<i>12.2</i>			10	<i>4</i>	<i>4</i>			
		<i>5.9</i>			12					
		<i>9.6</i>			14	<i>4</i>	<i>4</i>	<i>SW</i>	<i>- odor + stain 14' → 20'</i>	
	<i>wet</i>	<i>1024</i>	<i>stain</i>		16				<i>- black stain</i>	
		<i>58</i>			18	<i>4</i>	<i>4</i>		<i>- wet @ ~14'</i>	
		<i>790</i>			20				<i>- Push point to 20'</i>	
					22				<i>- flush mount</i>	
					24					
					26					
					28					
					30					
					32					
					34					
					36					
					38					
					40					

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BORING LOG/MONITORING WELL COMPLETION DIAGRAM

Boring/Well Number: *MW23* Project: *HSR MJ Farms 11,12,14-7*
 Date: *2/19/2015* Project Number: *14210607*
 Logged By: *Kris Shepherd* Drilled By: *Drill Pro*

see MW22 Log

Elevation: _____ Detector: *PID* Drilling Method: *Direct Push* Sampling Method: *Continuous*

Gravel Pack: *Silica Sand* Seal: *Bentonite* Grout: *-*

Casing Type: *PVC* Diameter: *1"* Length: *10'* Hole Diameter: *3"* Depth to Liquid: *-*

Screen Type: *PVC* Slot: *0.01* Diameter: *1"* Length: *10'* Total Depth: *20'* Depth to Water: *~14'*

Penetration Resistance	Moisture Content	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Run	Recovery	Soil/Rock Type	Lithology/Remarks	Well Completion Diagram
					0					
					2				Hydrovac, Not Logged	
					4					
					6					
	<i>moist</i>	<i>0.0</i>	<i>none</i>		8	<i>2</i>	<i>2</i>		<i>6' → mg → coarse sand, tan, well graded, no odor, no stain, moist</i>	
		<i>0.1</i>			10	<i>4</i>	<i>4</i>			
		<i>0.0</i>			12					
		<i>0.1</i>			14			<i>SW</i>	<i>- wet @ 14', odor + light gray stain</i>	
	<i>wet</i>	<i>49.5</i>	<i>gray stain</i>		16	<i>4</i>			<i>- 3" stringer of dark black stain @ 18'</i>	
		<i>61.6</i>			18					
		<i>47.0</i>			20	<i>4</i>			<i>- push point to 20'</i>	
		<i>43.2</i>			22				<i>- flush mount</i>	
		<i>52.5</i>			24					
					26					
					28					
					30					
					32					
					34					
					36					
					38					
					40					

NOTES:

Well Location Sketch:



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BORING LOG/MONITORING WELL COMPLETION DIAGRAM

Boring/Well Number: M024	Project: HSR MJ Farms 11,12,14-7
Date: 2/19/2015	Project Number: 14210607
Logged By: Kris Shepherd	Drilled By: Drill Pro

See M022 Log

Elevation:	Detector: PID	Drilling Method: Direct Push	Sampling Method: Continuous
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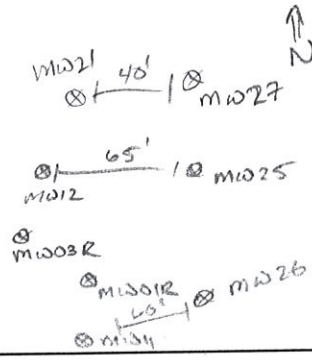
Gravel Pack: Silica Sand	Seal: Bentonite	Grout:
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Casing Type: PVC	Diameter: 1"	Length: 10'	Hole Diameter: 3"	Depth to Liquid:
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Screen Type: PVC	Slot: 0.01	Diameter: 1"	Length: 10'	Total Depth: 20'	Depth to Water: ~14'
---------------------	---------------	-----------------	----------------	---------------------	-------------------------

Penetration Resistance	Moisture Content	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Run	Recovery	Soil/Rock Type	Lithology/Remarks	Well Completion Diagram
					0					
					2				Hydrovac, Not Logged	
					4					
					6					
	Moist	0.0	none		8	2	2		6' → 20' mg → coarse sand, tan, well graded, no odor, no stain, moist	
		0.0			10	4	4			
		0.0			12					
		0.1			14	4	4	SW	- wet @ 14', no stain, no odor	
	Wet	24.0			16					
		29.7			18	4	4		- push point to 20'	
		7.4			20				- flush mount	
					22					
					24					
					26					
					28					
					30					
					32					
					34					
					36					
					38					
					40					

Well Location Sketch:



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BORING LOG/MONITORING WELL COMPLETION DIAGRAM

Boring/Well Number: <i>MW 25</i>	Project: HSR MJ Farms 11,12,14-7
Date: <i>2/19/2015</i>	Project Number: 14210607
Logged By: Kris Shepherd	Drilled By: Drill Pro
Drilling Method: Direct Push	Sampling Method: Continuous

Elevation: _____ Detector: PID

Gravel Pack: Silica Sand

Seal: Bentonite

Casing Type: PVC

Diameter: 1" Length: 10' Hole Diameter: 3" Depth to Liquid: -

Screen Type: PVC Slot: 0.01

Diameter: 1" Length: 10' Total Depth: 20' Depth to Water: ~14'

Penetration Resistance	Moisture Content	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Run	Recovery	Soil/Rock Type	Lithology/Remarks	Well Completion Diagram
					0					
					2				Hydrovac, Not Logged	
					4					
					6					
	Moist	0.0	none		8	2	2		6' → mg → coarse sand, tan, well graded, moist, no odor, no stain	
		0.2			10	4	4			
		0.0			12					
	↓ Jet	1.0			14			SW	- wet @ 14'	
		1.3			16	4	4			
		0.4			18				- push point to 20'	
		1.8			20	4	4		- flush mount	
					22					
					24					
					26					
					28					
					30					
					32					
					34					
					36					
					38					
					40					

NOTES:

Well Location Sketch:



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BORING LOG/MONITORING WELL COMPLETION DIAGRAM

Boring/Well Number: *MW26* Project: *HSR MJ Farms 11,12,14-7*

Date: *2/19/2015* Project Number: *14210607*

Logged By: *Kris Shepherd* Drilled By: *Drill Pro*

Elevation: _____ Detector: *PID* Drilling Method: *Direct Push* Sampling Method: *Continuous*

Gravel Pack: *Silica Sand* Seal: *Bentonite* Grout: *-*

Casing Type: *PVC* Diameter: *1"* Length: *10'* Hole Diameter: *3"* Depth to Liquid: *-*

Screen Type: *PVC* Slot: *0.01* Diameter: *1"* Length: *10'* Total Depth: *20'* Depth to Water: *~14'*

Penetration Resistance	Moisture Content	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Run	Recovery	Soil/Rock Type	Lithology/Remarks	Well Completion Diagram
					0					
					2				Hydrovac, Not Logged	
					4					
					6					
	<i>Moist</i>	<i>0.1</i>	<i>None</i>		8	<i>2</i>	<i>2</i>		<i>6' → 20' mg → coarse sand, tan, well graded, no stain, no odor, moist</i>	
		<i>0.0</i>			10	<i>4</i>	<i>2</i>			
		<i>0.1</i>			12					
		<i>0.0</i>			14	<i>4</i>	<i>4</i>	<i>SW</i>	<i>→ wet @ 14'</i>	
	<i>wet</i>	<i>811</i>	<i>none</i>		16				<i>→ 6" black stain @ 14.5', odor</i>	
		<i>39</i>			18	<i>4</i>	<i>4</i>		<i>→ staining & odor stops @ 15'</i>	
		<i>6.1</i>			20					
		<i>43.0</i>			22					
					24					
					26					
					28					
					30					
					32					
					34					
					36					
					38					
					40					

Well Location Sketch:



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BORING LOG/MONITORING WELL COMPLETION DIAGRAM

Boring/Well Number: MW27 Project: HSR MJ Farms 11,12,14-7

Date: 2/19/2015 Project Number: 14210607

Logged By: Kris Shepherd Drilled By: Drill Pro

See MW 25 Log

Elevation: _____ Detector: PID Drilling Method: Direct Push Sampling Method: Continuous

Gravel Pack: Silica Sand Seal: Bentonite Grout: -

Casing Type: PVC Diameter: 1" Length: 10' Hole Diameter: 3" Depth to Liquid: -

Screen Type: PVC Slot: 0.01 Diameter: 1" Length: 10' Total Depth: 20' Depth to Water: ~14'

Penetration Resistance	Moisture Content	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Run	Recovery	Soil/Rock Type	Lithology/Remarks	Well Completion Diagram
					0					
					2				Hydrovac, Not Logged	
					4					
					6					
	moist	0.0	none		8	2	1		6' → 20' mg → coarse sand, well graded, tan, no odor, no stain, moist	
	↓	0.0	↓		10	4	4			
		0.1			12					
	↓	0.0	↓		14			SW - wet @ ~14'		
	wet	1.8			16	4	3		- push point to 20'	
	↓	1.3	↓		18				- flush mount	
		0.2			20	4	4			
					22					
					24					
					26					
					28					
					30					
					32					
					34					
					36					
					38					
					40					

Well Location Sketch:

MW05R
 MW002R
 MW29
 MW11
 MW28



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BORING LOG/MONITORING WELL COMPLETION DIAGRAM

Boring/Well Number: MW 28	Project: HSR MJ Farms 11,12,14-7
Date: 2/19/2015	Project Number: 14210607
Logged By: Kris Shepherd	Drilled By: Drill Pro

Elevation:	Detector: PID	Drilling Method: Direct Push	Sampling Method: Continuous
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Gravel Pack: Silica Sand	Seal: Bentonite	Grout: -
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Casing Type: PVC	Diameter: 1"	Length: 10'	Hole Diameter: 3"	Depth to Liquid: -
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Screen Type: PVC	Slot: 0.01	Diameter: 1"	Length: 10'	Total Depth: 20'	Depth to Water: ~ 14'
---------------------	---------------	-----------------	----------------	---------------------	--------------------------

Penetration Resistance	Moisture Content	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Run	Recovery	Soil/Rock Type	Lithology/Remarks	Well Completion Diagram
					0					
					2				Hydrovac, Not Logged	
					4					
					6					
	moist	0.0	none		8	2	2		6' → 20' mg → coarse sand, tan, well graded, no odor, no stain, moist - wet @ 14' - Push point to 20' - flush mount	
	↓	0.0	↓		10	4	3			
		0.0			12					
	↓	0.0	↓		14	4	4	SD		
	wet	0.3	↓		16	4	4			
	↓	0.2	↓		18					
	↓	0.0	↓		20	4	4			
					22					
					24					
					26					
					28					
					30					
					32					
					34					
					36					
					38					
					40					

Well Location Sketch:



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BORING LOG/MONITORING WELL COMPLETION DIAGRAM

Boring/Well Number: MW29 Project: HSR MJ Farms 11,12,14-7

Date: 2/19/2015 Project Number: 14210607

Logged By: Kris Shepherd Drilled By: Drill Pro

Elevation: _____ Detector: PID Drilling Method: Direct Push Sampling Method: Continuous

Gravel Pack: Silica Sand Seal: Bentonite Grout: -

Casing Type: PVC Diameter: 1" Length: 10' Hole Diameter: 3" Depth to Liquid: -

Screen Type: PVC Slot: 0.01 Diameter: 1" Length: 10' Total Depth: 20' Depth to Water: ~14'

Penetration Resistance	Moisture Content	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Run	Recovery	Soil/Rock Type	Lithology/Remarks	Well Completion Diagram
					0					
					2				Hydrovac, Not Logged	
					4					
					6					
	Moist	1271	Stain		8	2	2		6' → 20' mg → coarse sand, well graded, gray → black, stain, odor	
		854			10	4	4			
		1331			12					
	↓	1055	↓		14	4	3	SW	- wet @ 14'	
	wet	1043			16					
	↓	245	↓		18	4	4		- Push point to 20'	
		1564			20				- flash mount	
					22					
					24					
					26					
					28					
					30					
					32					
					34					
					36					
					38					
					40					

NOTES:

Well Location Sketch:



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BORING LOG/MONITORING WELL COMPLETION DIAGRAM

Boring/Well Number: <i>MW 30</i>	Project: HSR MJ Farms 11,12,14-7
Date: <i>2/20/15</i>	Project Number: 14210607
Logged By: <i>Jeremy Espinoza -Kris Shepherd-</i>	Drilled By: Drill Pro

Elevation:	Detector: PID	Drilling Method: Direct Push	Sampling Method: Continuous
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Gravel Pack: Silica Sand	Seal: Bentonite	Grout: -
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Casing Type: PVC	Diameter: 1"	Length: 10'	Hole Diameter: 3"	Depth to Liquid: -
---------------------	-----------------	----------------	----------------------	-----------------------

Screen Type: PVC	Slot: 0.01	Diameter: 1"	Length: 10'	Total Depth: 20'	Depth to Water: 14'
---------------------	---------------	-----------------	----------------	---------------------	------------------------

Penetration Resistance	Moisture Content	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Run	Recovery	Soil/Rock Type	Lithology/Remarks	Well Completion Diagram
					0					
					2				Hydrovac, Not Logged	
					4					
					6					
					8	2	2			
					10	4	4		6-20' med-coarse sand, trace gravel, wet at 14', Stain and odor 14-20'	
					12					
					14	4	4			
					16					
					18	4	4			
					20					
					22					
					24					
					26					
					28					
					30					
					32					
					34					
					36					
					38					
					40					

See MW 22

moist
0.0
0.0
0.0
0.0
wet
7.1
9.7
38.2

None
Stain

Well installed as flushness

Well Location Sketch:



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BORING LOG/MONITORING WELL COMPLETION DIAGRAM

Boring/Well Number: MW 31 Project: HSR MJ Farms 11,12,14-7

Date: 2/20/15 Project Number: 14210607

Logged By: Jeremy Espinoza
Kris Shepherd Drilled By: Drill Pro

See MW 22

Elevation: _____ Detector: PID Drilling Method: Direct Push Sampling Method: Continuous

Gravel Pack: Silica Sand Seal: Bentonite Grout: -

Casing Type: PVC Diameter: 1" Length: 10' Hole Diameter: 3" Depth to Liquid: -

Screen Type: PVC Slot: 0.01 Diameter: 1" Length: 10' Total Depth: 20' Depth to Water: 14'

Penetration Resistance	Moisture Content	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Run	Recovery	Soil/Rock Type	Lithology/Remarks	Well Completion Diagram
					0					
					2				Hydrovac, Not Logged	
					4					
					6					
					8	2	2			
	Moist	0.0	None		10	4	4		6-20' med to coarse sand, wet at 14', stain and odor 14-20'	
		0.0			12					
		0.0			14	4	4			
	wet	103			16					
		72.5			18	4	4			
		15.4			20					
					22				well completed as flush mount	
					24					
					26					
					28					
					30					
					32					
					34					
					36					
					38					
					40					

NOTES:

Well Location Sketch:



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BORING LOG/MONITORING WELL COMPLETION DIAGRAM

Boring/Well Number: <i>MW32</i>	Project: HSR-MJ Farms 11,12,14,14-7
Date: <i>2/20/15</i>	Project Number: 14210607
Logged By: <i>Jeremy Espinoza Kris Shepherd</i>	Drilled By: Drill Pro

Sec MW32

Elevation:	Detector: PID	Drilling Method: Direct Push	Sampling Method: Continuous
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Gravel Pack: Silica Sand	Seal: Bentonite	Grout: -
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Casing Type: PVC	Diameter: 1"	Length: <i>10'</i>	Hole Diameter: 3"	Depth to Liquid: -
---------------------	-----------------	-----------------------	----------------------	-----------------------

Screen Type: PVC	Slot: 0.01	Diameter: 1"	Length: <i>10'</i>	Total Depth: <i>20'</i>	Depth to Water: <i>14'</i>
---------------------	---------------	-----------------	-----------------------	----------------------------	-------------------------------

Penetration Resistance	Moisture Content	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Run	Recovery	Soil/Rock Type	Lithology/Remarks	Well Completion Diagram
					0					
					2				Hydrovac, Not Logged	
					4					
					6					
					8	2	2			
	Moist	0.0	None		10	4	4	6-20 med-course sand wet at 14', stain and odor from 14-18'		
	↓	0.0	↓		12					
	↓	0.0	↓		14	4	4			
	wet	0.0	↓		16					
	↓	1152	Stain	MW32 @ 14'	18	4	4			
	↓	158	↓		20					
	↓	7.3	None		22					
					24					
					26					
					28					
					30					
					32					
					34					
					36					
					38					
					40					

well set as flushmount

Well Location Sketch:



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BORING LOG/MONITORING WELL COMPLETION DIAGRAM

Boring/Well Number: MW 33 Project: HSR-MJ Farms 11,12,14,14-7

Date: 2/20/2015 Project Number: 14210607

Logged By: Kris Shepherd Drilled By: Drill Pro

Elevation: Detector: PID Drilling Method: Direct Push Sampling Method: Continuous

Gravel Pack: Silica Sand Seal: Bentonite Grout: -

Casing Type: PVC Diameter: 1" Length: 10' Hole Diameter: 3" Depth to Liquid: -

Screen Type: PVC Slot: 0.01 Diameter: 1" Length: 10' Total Depth: 20' Depth to Water: -

Penetration Resistance	Moisture Content	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Run	Recovery	Soil/Rock Type	Lithology/Remarks	Well Completion Diagram
					0					
					2				Hydrovac, Not Logged	
					4					
					6					
	Moist	0.0	now		8	2	2		6' → 20' mg → coarse sand, tan, well graded, no stain, no odor, moist	
		0.0			10	4	4			
		0.0			12					
	Wet	0.0			14	4	4	SW	- wet @ 14'	
		0.0			16				- 3" silty, fg sand stringer @ 15', brown, no odor, no stain, wet	
		0.2			18	4	4			
		0.0			20					
		0.0			22				- push point to 20'	
					24				- flush mount	
					26					
					28					
					30					
					32					
					34					
					36					
					38					
					40					

Well Location Sketch:



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BORING LOG/MONITORING WELL COMPLETION DIAGRAM

Boring/Well Number: **MW34** Project: **HSR-MJ Farms 11,12,14,14-7**

Date: **2/20/2015** Project Number: **14210607**

Logged By: **Kris Shepherd** Drilled By: **Drill Pro**

Elevation: _____ Detector: **PID** Drilling Method: **Direct Push** Sampling Method: **Continuous**

Gravel Pack: **Silica Sand** Seal: **Bentonite** Grout: _____

Casing Type: **PVC** Diameter: **1"** Length: **10'** Hole Diameter: **3"** Depth to Liquid: _____

Screen Type: **PVC** Slot: **0.01** Diameter: **1"** Length: **10'** Total Depth: **20'** Depth to Water: **~14'**

Penetration Resistance	Moisture Content	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Run	Recovery	Soil/Rock Type	Lithology/Remarks	Well Completion Diagram
					0					
					2				Hydrovac, Not Logged	
					4					
					6					
	moist	0.0	none		8	2	2		6' → 20' mg → coarse Sand, tan, well graded, no odor, no stain, moist - wet @ ~14' - Push point to 20' - flushmount	
	↓	0.0	↓		10	4	4			
	wet	0.0	↓		12	4	4	SW		
	↓	0.0	↓		14	4	4			
	↓	0.0	↓		16					
		0.0			18	4	4			
		0.0			20					
					22					
					24					
					26					
					28					
					30					
					32					
					34					
					36					
					38					
					40					

88063004

Well Location Sketch:



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BORING LOG/MONITORING WELL COMPLETION DIAGRAM

Boring/Well Number: *MW35* Project: *HSR-MJ Farms 11,12,14,14-7*

Date: *2/20/2015* Project Number: *14210607*

Logged By: *Kris Shepherd* Drilled By: *Drill Pro*

Elevation: _____ Detector: *PID* Drilling Method: *Direct Push* Sampling Method: *Continuous*

Gravel Pack: *Silica Sand* Seal: *Bentonite* Grout: *-*

Casing Type: *PVC* Diameter: *1"* Length: *10'* Hole Diameter: *3"* Depth to Liquid: *-*

Screen Type: *PVC* Slot: *0.01* Diameter: *1"* Length: *10'* Total Depth: *20'* Depth to Water: *~14'*

Penetration Resistance	Moisture Content	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Run	Recovery	Soil/Rock Type	Lithology/Remarks	Well Completion Diagram
					0					
					2				Hydrovac, Not Logged	
					4					
					6					
					8	<i>2</i>	<i>2</i>			
	<i>Moist</i>	<i>0.0</i>	<i>none</i>		10	<i>4</i>	<i>4</i>		<i>6' → 20' ring → coarse sand, tan, well graded, no stain, no odor, moist</i> <i>- wet @ ~14'</i> <i>- push point to 20'</i> <i>- flush mount</i>	
	<i>↓</i>	<i>0.0</i>	<i>↓</i>		12					
	<i>↓</i>	<i>0.0</i>	<i>↓</i>		14	<i>4</i>	<i>4</i>	<i>SW</i>		
	<i>↓</i>	<i>0.0</i>	<i>↓</i>		16					
	<i>↓</i>	<i>0.0</i>	<i>↓</i>		18	<i>4</i>	<i>4</i>			
	<i>↓</i>	<i>0.0</i>	<i>↓</i>		20					
					22					
					24					
					26					
					28					
					30					
					32					
					34					
					36					
					38					
					40					

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BORING LOG/MONITORING WELL COMPLETION DIAGRAM

Boring/Well Number: *MW36* Project: *HSR-MJ Farms 11,12,14,14-7*

Date: *2/20/2015* Project Number: *14210607*

Logged By: *Kris Shepherd* Drilled By: *Drill Pro*

Elevation: Detector: *PID* Drilling Method: *Direct Push* Sampling Method: *Continuous*

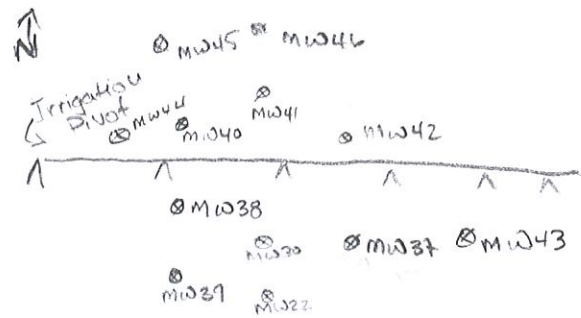
Gravel Pack: *Silica Sand* Seal: *Bentonite* Grout: *-*

Casing Type: *PVC* Diameter: *1"* Length: *10'* Hole Diameter: *3"* Depth to Liquid: *-*

Screen Type: *PVC* Slot: *0.01* Diameter: *1"* Length: *10'* Total Depth: *20'* Depth to Water: *~14'*

Penetration Resistance	Moisture Content	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Run	Recovery	Soil/Rock Type	Lithology/Remarks	Well Completion Diagram
					0					
					2				Hydrovac, Not Logged	
					4					
					6					
					8	<i>2</i>	<i>2</i>			
	<i>moist</i>	<i>0.0</i>	<i>none</i>		10			<i>6' -> 20' mg -> coarse sand, tan, well graded, no odor, no stain, moist</i>		
	<i>↓</i>	<i>0.0</i>	<i>↓</i>		12	<i>4</i>	<i>4</i>			
	<i>wet</i>	<i>0.0</i>	<i>↓</i>		14	<i>4</i>	<i>3</i>		<i>SW</i>	
	<i>↓</i>	<i>0.1</i>	<i>stain</i>		16					
	<i>↓</i>	<i>0.0</i>	<i>↓</i>		18	<i>4</i>	<i>4</i>			
	<i>↓</i>	<i>0.5</i>	<i>↓</i>		20					
					22			<i>- wet @ ~14'</i>		
					24			<i>- stain @ 15'</i>		
					26			<i>- Push point to 20'</i>		
					28			<i>- flush mount</i>		
					30					
					32					
					34					
					36					
					38					
					40					

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BORING LOG/MONITORING WELL COMPLETION DIAGRAM

Boring/Well Number: MW37	Project: HSR MJ Farms 11,12,13,4-7
Date: 3/18/2015	Project Number: 14210607
Logged By: Kris Shepherd	Drilled By: Drill Pro

Elevation:	Detector: PID	Drilling Method: Direct Push	Sampling Method: Continuous
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Gravel Pack: Silica Sand	Seal: Bentonite	Grout: -
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Casing Type: PVC	Diameter: 1"	Length: 10'	Hole Diameter: 3"	Depth to Liquid: -
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Screen Type: PVC	Slot: 0.01	Diameter: 1"	Length: 10'	Total Depth: 20'	Depth to Water: ~14'
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Penetration Resistance	Moisture Content	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Run	Recovery	Soil/Rock Type	Lithology/Remarks	Well Completion Diagram
					0					
					2				Hydrovac, Not Logged	
					4					
					6					
	moist	0.0	none		8	2'	1'		6' → 20' Mg → coarse sand,	
		0.0			10	4'	3'		tan, no stain, no odor,	
		0.0			12				moist	
	wet	0.0			14	4'	3'		- wet @ ~14'	
		0.6			16			SD	→ push point to 20'	
		0.5			18	4'	4'		→ flush mount	
		2.6			20					
					22					
					24					
					26					
					28					
					30					
					32					
					34					
					36					
					38					
					40					

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BORING LOG/MONITORING WELL COMPLETION DIAGRAM

Boring/Well Number: MW 38	Project: HSR MJ Farms 11,12,13,4-7
Date: 3/18/2015	Project Number: 14210607
Logged By: Kris Shepherd	Drilled By: Drill Pro

See MW37 Log

Elevation:	Detector: PID	Drilling Method: Direct Push	Sampling Method: Continuous
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Gravel Pack: Silica Sand	Seal: Bentonite	Grout: -
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Casing Type: PVC	Diameter: 1"	Length: 10'	Hole Diameter: 3"	Depth to Liquid: -
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Screen Type: PVC	Slot: 0.01	Diameter: 1"	Length: 10'	Total Depth: 20'	Depth to Water: ~14'
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Penetration Resistance	Moisture Content	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Run	Recovery	Soil/Rock Type	Lithology/Remarks	Well Completion Diagram
					0					
					2				Hydrovac, Not Logged	
					4					
					6					
	Moist ↓ wet ↓	0.0 0.0 0.0 0.0 0.1 0.3 0.4	none ↓ gray ↓		8	2'	2'		6' → 20' Mg → coarse sand, brown, no odor, no stain, moist - wet @ ~14' - gray staining @ 18' → 20' → push point to 20' → flush mount	
					10	4'	3'			
					12					
					14	4'	4'	SW		
					16					
					18	4'	3'			
					20					
					22					
					24					
					26					
					28					
					30					
					32					
					34					
					36					
					38					
					40					

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BORING LOG/MONITORING WELL COMPLETION DIAGRAM

Boring/Well Number: <i>MW39</i>	Project: HSR MJ Farms 11,12,13,4-7
Date: <i>3/18/2015</i>	Project Number: 14210607
Logged By: Kris Shepherd	Drilled By: Drill Pro

see MW37 log

Elevation:	Detector: PID	Drilling Method: Direct Push	Sampling Method: Continuous
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Gravel Pack: Silica Sand	Seal: Bentonite	Grout: -
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Casing Type: PVC	Diameter: 1"	Length: 10'	Hole Diameter: 3"	Depth to Liquid: -
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Screen Type: PVC	Slot: 0.01	Diameter: 1"	Length: 10'	Total Depth: 20'	Depth to Water: ~14'
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Penetration Resistance	Moisture Content	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Run	Recovery	Soil/Rock Type	Lithology/Remarks	Well Completion Diagram
					0					
					2				Hydrovac, Not Logged	
					4					
					6					
	<i>moist</i>	0.0	<i>none</i>		8	2'	1'		<i>6' → 20' mg → coarse sand, brown, no odor, no stain, moist</i> <i>- wet @ ~14'</i> <i>- staining, gray from 18' → 20'</i> <i>- push point to 20'</i> <i>- flush mount</i>	
		0.0			10	4'	2'			
		0.0			12					
		0.0			14	4'	4'	<i>SW</i>		
	<i>wet</i>	0.4			16					
		0.2			18	4'	3'			
		0.8	<i>gray</i>		20					
					22					
					24					
					26					
					28					
					30					
					32					
					34					
					36					
					38					
					40					

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BORING LOG/MONITORING WELL COMPLETION DIAGRAM

Boring/Well Number: <i>MW40</i>	Project: HSR MJ Farms 11,12,13,4-7
Date: <i>3/18/2015</i>	Project Number: 14210607
Logged By: Kris Shepherd	Drilled By: Drill Pro

Elevation:	Detector: PID	Drilling Method: Direct Push	Sampling Method: Continuous
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Gravel Pack: Silica Sand	Seal: Bentonite	Grout: -
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Casing Type: PVC	Diameter: 1"	Length: 10'	Hole Diameter: 3"	Depth to Liquid: -
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Screen Type: PVC	Slot: 0.01	Diameter: 1"	Length: 10'	Total Depth: 20'	Depth to Water: ~14'
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Penetration Resistance	Moisture Content	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Run	Recovery	Soil/Rock Type	Lithology/Remarks	Well Completion Diagram
					0					
					2					
					4				Hydrovac, Not Logged to 8'	
					6					
					8					
	moist	0.0	none		10	4'	4'		3' → 20' Mg → coarse sand,	
		0.2			12				brown, no stain, no odor,	
		0.0			14	4'	3'		moist	
	wet	0.1			16			SW	- wet @ ~14'	
		3.4			18	4'	3'		- staining @ ~17.5' → 20'	
		0.4	gray		20				(gray)	
					22					
					24					
					26					
					28					
					30					
					32					
					34					
					36					
					38					
					40					

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BORING LOG/MONITORING WELL COMPLETION DIAGRAM

Boring/Well Number: <i>MW41</i>	Project: HSR MJ Farms 11,12,13,4-7
Date: <i>3/18/2015</i>	Project Number: 14210607
Logged By: Kris Shepherd	Drilled By: Drill Pro

see MW37 Log

Elevation:	Detector: PID	Drilling Method: Direct Push	Sampling Method: Continuous
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Gravel Pack: Silica Sand	Seal: Bentonite	Grout: -
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Casing Type: PVC	Diameter: 1"	Length: 10'	Hole Diameter: 3"	Depth to Liquid: -
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Screen Type: PVC	Slot: 0.01	Diameter: 1"	Length: 10'	Total Depth: 20'	Depth to Water: ~14
---------------------	---------------	-----------------	----------------	---------------------	------------------------

Penetration Resistance	Moisture Content	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Run	Recovery	Soil/Rock Type	Lithology/Remarks	Well Completion Diagram
					0					
					2				Hydrovac, Not Logged	
					4					
					6					
	Moist ↓ Wet ↓	0.0 0.0 0.1 0.1 4.5 6.4 1.9	none ↓		8	2' 1"			6' → fg → mg sand, brown, no odor, no stain, moist - wet @ ~14' - gray stain @ 14.5' - push point to ~20' - flush mount	
					10	4' 3"				
					12					
					14	4' 3"		SW		
					16					
					18	4' 3"				
					20					
					22					
					24					
					26					
					28					
					30					
					32					
					34					
					36					
					38					
					40					

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BORING LOG/MONITORING WELL COMPLETION DIAGRAM

Boring/Well Number: MW42 Project: HSR MJ Farms 11,12,13,4-7

Date: 3/18/2015 Project Number: 14210607

Logged By: Kris Shepherd Drilled By: Drill Pro

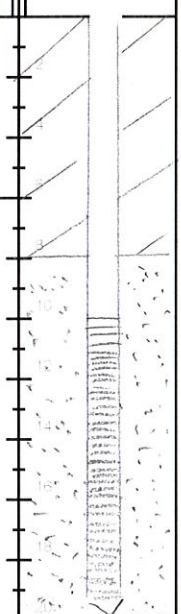
Elevation: _____ Detector: PID Drilling Method: Direct Push Sampling Method: Continuous

Gravel Pack: Silica Sand Seal: Bentonite Grout: -

Casing Type: PVC Diameter: 1" Length: 10' Hole Diameter: 3" Depth to Liquid: -

Screen Type: PVC Slot: 0.01 Diameter: 1" Length: 10' Total Depth: 20' Depth to Water: ~14'

Penetration Resistance	Moisture Content	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Run	Recovery	Soil/Rock Type	Lithology/Remarks	Well Completion Diagram
					0					
					2				Hydrovac, Not Logged	
					4					
					6					
	moist	0.1	none		8	2'	1'		6' → 20' Mg → coarse sand, brown, no stain, no odor, moist	
	↓	0.1	↓		10	4'	4'			
	wet	0.0	↓		12					
	↓	0.0	↓		14	4'	4'	SW	- Wet @ ~14'	
	↓	0.1	↓		16				- Stain @ ~18' → 20'	
	↓	0.1	↓		18				→ push point to 20'	
	↓	1.2	gravel ↓		20	4'			→ flush magnet	
					22					
					24					
					26					
					28					
					30					
					32					
					34					
					36					
					38					
					40					



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BORING LOG/MONITORING WELL COMPLETION DIAGRAM

Boring/Well Number: MW 43 Project: HSR MJ Farms 11,12,13,4-7

Date: 3/20/2015 Project Number: 14210607

Logged By: Kris Shepherd Drilled By: Drill Pro

Elevation: _____ Detector: PID Drilling Method: Direct Push Sampling Method: Continuous

Gravel Pack: Silica Sand Seal: Bentonite Grout: -

Casing Type: PVC Diameter: 1" Length: 10' Hole Diameter: 3" Depth to Liquid: -

Screen Type: PVC Slot: 0.01 Diameter: 1" Length: 10' Total Depth: 20' Depth to Water: ~14'

Penetration Resistance	Moisture Content	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Run	Recovery	Soil/Rock Type	Lithology/Remarks	Well Completion Diagram
					0					
					2				Hydrovac, Not Logged	
					4					
					6					
	moist	0.0	none		8	2'	2'		6' → 20' mg → coarse sand, brown, no odor, no stain, moist	
		0.0			10	4'	4'			
		0.5			12					
		0.5			14				- wet @ ~14'	
	wet	0.0			16	4'	4'	SW		
		0.0			18				→ push point to 20'	
		0.0			20	4'	3'		- flush mount	
					22					
					24					
					26					
					28					
					30					
					32					
					34					
					36					
					38					
					40					

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BORING LOG/MONITORING WELL COMPLETION DIAGRAM

Boring/Well Number: <i>MW44</i>	Project: HSR MJ Farms 11,12,13,4-7
Date: <i>3/20/2015</i>	Project Number: 14210607
Logged By: Kris Shepherd	Drilled By: Drill Pro

See MW37 Log

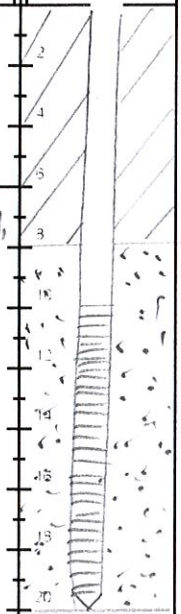
Elevation:	Detector: PID	Drilling Method: Direct Push	Sampling Method: Continuous
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Gravel Pack: Silica Sand	Seal: Bentonite	Grout: -
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Casing Type: PVC	Diameter: 1"	Length: 10'	Hole Diameter: 3"	Depth to Liquid: -
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Screen Type: PVC	Slot: 0.01	Diameter: 1"	Length: 10'	Total Depth: 20'	Depth to Water: ~14'
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Penetration Resistance	Moisture Content	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Run	Recovery	Soil/Rock Type	Lithology/Remarks	Well Completion Diagram
					0					
					2				Hydrovac, Not Logged	
					4					
					6					
	moist	0.0	none		8	2'	2'		6' → 20' mg → coarse sand, brown, no odor, no stain, moist	
		0.0			10	4'	4'			
		0.0			12					
		0.0			14	4'	4'	SW	- wet @ ~14'	
	wet	0.1			16					
		0.1			18	4'	4'		→ push point to 20'	
		0.1			20				→ flush mount	
					22					
					24					
					26					
					28					
					30					
					32					
					34					
					36					
					38					
					40					



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BORING LOG/MONITORING WELL COMPLETION DIAGRAM

Boring/Well Number: <i>MW45</i>	Project: HSR MJ Farms 11,12,13,4-7
Date: <i>3/20/2015</i>	Project Number: 14210607
Logged By: Kris Shepherd	Drilled By: Drill Pro

See MW37 Log

Elevation:	Detector: PID	Drilling Method: Direct Push	Sampling Method: Continuous
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Gravel Pack: Silica Sand	Seal: Bentonite	Grout: -
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Casing Type: PVC	Diameter: 1"	Length: 10'	Hole Diameter: 3"	Depth to Liquid: -
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Screen Type: PVC	Slot: 0.01	Diameter: 1"	Length: 10'	Total Depth: 20'	Depth to Water: ~14'
---------------------	---------------	-----------------	----------------	---------------------	-------------------------

Penetration Resistance	Moisture Content	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Run	Recovery	Soil/Rock Type	Lithology/Remarks	Well Completion Diagram
					0					
					2				Hydrovac, Not Logged	
					4					
					6					
	moist	0.0	none		8	2'	2'		6' → 20' mg → coarse sand,	
		0.0			10				brown, no odor, no stain,	
		0.0			12	4'	3'		moist	
		0.0			14				- wet @ ~14'	
	wet	0.1			16	4'	3'	SW	→ push point to 20'	
		0.4			18				→ flush mount	
		0.2			20	4'				
					22					
					24					
					26					
					28					
					30					
					32					
					34					
					36					
					38					
					40					

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BORING LOG/MONITORING WELL COMPLETION DIAGRAM

Boring/Well Number: <i>MW 46</i>	Project: HSR MJ Farms 11,12,13,4-7
Date: <i>3/20/2014</i>	Project Number: 14210607
Logged By: Kris Shepherd	Drilled By: Drill Pro

See MW37 Log

Elevation:	Detector: PID	Drilling Method: Direct Push	Sampling Method: Continuous
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Gravel Pack: Silica Sand	Seal: Bentonite	Grout: -
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Casing Type: PVC	Diameter: 1"	Length: <i>10'</i>	Hole Diameter: 3"	Depth to Liquid: -
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Screen Type: PVC	Slot: 0.01	Diameter: 1"	Length: <i>10'</i>	Total Depth: <i>20'</i>	Depth to Water: <i>~14'</i>
---------------------	---------------	-----------------	-----------------------	----------------------------	--------------------------------

Penetration Resistance	Moisture Content	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Run	Recovery	Soil/Rock Type	Lithology/Remarks	Well Completion Diagram
					0					
					2				Hydrovac, Not Logged	
					4					
					6					
	<i>moist</i>	<i>0.0</i>	<i>none</i>		<i>8</i>	<i>2' 2'</i>			<i>6' → 20' mg → coarse sand, brown, no odor, no stain, moist</i>	
		<i>0.0</i>			<i>10</i>	<i>4' 4'</i>				
		<i>0.0</i>			<i>12</i>					
	<i>wet</i>	<i>0.0</i>			<i>14</i>	<i>4' 4'</i>		<i>SW</i>	<i>- 6" stringer of gravelly, sandy clay @ 8', brown, low cohesion, mod. plasticity, no odor, no stain.</i>	
		<i>0.3</i>			<i>16</i>					
		<i>0.2</i>			<i>18</i>					
		<i>0.5</i>			<i>20</i>	<i>4' 4'</i>			<i>- wet @ ~14'</i>	
					<i>22</i>				<i>→ push point to 20'</i>	
					<i>24</i>				<i>→ flush mount</i>	
					<i>26</i>					
					<i>28</i>					
					<i>30</i>					
					<i>32</i>					
					<i>34</i>					
					<i>36</i>					
					<i>38</i>					
					<i>40</i>					

Well Location Sketch:

See Attached Figure



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BORING LOG/MONITORING WELL COMPLETION DIAGRAM

Boring/Well Number: SVE 01 Project: HSR-MJ Farms 11, 12, 13, 14-7

Date: 4/6/14 Project Number: KMG10607

Logged By: Kris Shepherd/Ryan Zernis Drilled By: Dakota

Elevation: _____ Detector: PID Drilling Method: Hollow Stem Auger Sampling Method: Continuous/Cuttings

Gravel Pack: Silica Sand Seal: Bentonite Grout: Portland/Bentonite

Casing Type: PVC Diameter: 2" Length: 6' Hole Diameter: 8" Depth to Liquid: -

Screen Type: PVC Slot: 0.01 Diameter: 2" Length: 4' Total Depth: 10 Depth to Water: -

Penetration Resistance	Moisture Content	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Run	Recovery	Soil/Rock Type	Lithology/Remarks	Well Completion Diagram
					0					
	<u>moist</u>	<u>1.0</u>	<u>NO</u>		2				<u>0-5' Brown. clayey sands</u>	
					4				<u>fg-cg SANDS NO STAIN</u>	
		<u>3.2</u>			6				<u>NO ODR.</u>	
					8				<u>5-10' VC SANDS. BROWN.</u>	
		<u>3.7</u>			10				<u>MOIST. NO ODR NO STAIN.</u>	
					12					
					14					
					16					
					18					
					20					
					22					
					24					
					26					
					28					
					30					
					32					
					34					
					36					
					38					
					40					

Well Location Sketch:

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BORING LOG/MONITORING WELL COMPLETION DIAGRAM

Boring/Well Number: <i>SVE 02</i>	Project: HSR-MJ Farms 11, 12, 13, 14-7
Date: <i>4/6/16</i>	Project Number: KMG10607
Logged By: Kris Shepherd/Ryan Zernis	Drilled By: Dakota

Elevation:	Detector: PID	Drilling Method: Hollow Stem Auger	Sampling Method: Continuous/Cuttings
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Gravel Pack: Silica Sand	Seal: Bentonite	Grout: Portland/Bentonite
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Casing Type: PVC	Diameter: 2"	Length: 6	Hole Diameter: 8"	Depth to Liquid: -
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Screen Type: PVC	Slot: 0.01	Diameter: 2"	Length: 4	Total Depth: 10	Depth to Water: -
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Penetration Resistance	Moisture Content	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Run	Recovery	Soil/Rock Type	Lithology/Remarks	Well Completion Diagram
------------------------	------------------	-------------	----------	----------	------------------	------------	----------	----------------	-------------------	-------------------------

					0					
	<i>Moist</i>		<i>NO</i>		2				<i>0-4 BROWN. CLAYEY GRAVELLY</i>	
		<i>5.9</i>			4				<i>fg-cg SANDS. NO STAIN</i>	
					6				<i>NO ODR.</i>	
		<i>6.7</i>			8					
					10				<i>4-10 VCG SANDS. BROWN</i>	
					12				<i>NO STAIN NO ODR. MOIST</i>	
					14					
					16					
					18					
					20					
					22					
					24					
					26					
					28					
					30					
					32					
					34					
					36					
					38					
					40					

NOTES

Well Location Sketch:

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BORING LOG/MONITORING WELL COMPLETION DIAGRAM

Boring/Well Number: <i>SVE03</i>	Project: HSR-MJ Farms 11, 12, 13, 14-7
Date: <i>4/6/14</i>	Project Number: KMG10607
Logged By: Kris Shepherd/Ryan Zernis	Drilled By: Dakota

Elevation:	Detector: PID	Drilling Method: Hollow Stem Auger	Sampling Method: Continuous/Cuttings
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Gravel Pack: Silica Sand	Seal: Bentonite	Grout: Portland/Bentonite
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Casing Type: PVC	Diameter: 2"	Length: <i>6</i>	Hole Diameter: 8"	Depth to Liquid: -
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Screen Type: PVC	Slot: 0.01	Diameter: 2"	Length: <i>4</i>	Total Depth: <i>10</i>	Depth to Water: _____
---------------------	---------------	-----------------	---------------------	---------------------------	--------------------------

Penetration Resistance	Moisture Content	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Run	Recovery	Soil/Rock Type	Lithology/Remarks	Well Completion Diagram
					0					
	<i>moist</i>	<i>7.3</i>	<i>None</i>		2				<i>0-4. clayey gravelly fq-cg SANDS. BROWN. NO STAIN NO ODR.</i>	
					4					
					6					
					8				<i>4-10 Vcg SANDS. BROWN. NO STAIN NO ODR. Moist</i>	
		<i>5.7</i>			10					
					12					
					14					
					16					
					18					
					20					
					22					
					24					
					26					
					28					
					30					
					32					
					34					
					36					
					38					
					40					

Pvc RISER

Well Location Sketch:

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BORING LOG/MONITORING WELL COMPLETION DIAGRAM

Boring/Well Number: 0VE04	Project: HSR-MJ Farms 11, 12, 13, 14-7
Date: 3/21/2016	Project Number: KMG10607
Logged By: Kris Shepherd/Ryan Zernis	Drilled By: Dakota

Elevation:	Detector: PID	Drilling Method: Hollow Stem Auger	Sampling Method: Continuous/Cuttings
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Gravel Pack: Silica Sand	Seal: Bentonite	Grout: Portland/Bentonite
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Casing Type: PVC	Diameter: 2"	Length: 6'	Hole Diameter: 8"	Depth to Liquid: -
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Screen Type: PVC	Slot: 0.01	Diameter: 2"	Length: 4'	Total Depth: 10'	Depth to Water: -
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Penetration Resistance	Moisture Content	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Run	Recovery	Soil/Rock Type	Lithology/Remarks	Well Completion Diagram
------------------------	------------------	-------------	----------	----------	------------------	------------	----------	----------------	-------------------	-------------------------

					0					
					2				Not sampled, not logged	
					4				→ PVC riser	
					6					
					8					
					10					
					12					
					14					
					16					
					18					
					20					
					22					
					24					
					26					
					28					
					30					
					32					
					34					
					36					
					38					
					40					

Well Location Sketch:

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BORING LOG/MONITORING WELL COMPLETION DIAGRAM

Boring/Well Number: SVE05	Project: HSR-MJ Farms 11, 12, 13, 14-7
Date: 3/15/2016	Project Number: KMG10607
Logged By: Kris Shepherd/Ryan Zernis	Drilled By: Dakota

Elevation:	Detector: PID	Drilling Method: Hollow Stem Auger	Sampling Method: Continuous/Cuttings
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Gravel Pack: Silica Sand	Seal: Bentonite	Grout: Portland/Bentonite
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Casing Type: PVC	Diameter: 2"	Length: 6'	Hole Diameter: 8"	Depth to Liquid: -
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Screen Type: PVC	Slot: 0.01	Diameter: 2"	Length: 4'	Total Depth: 10'	Depth to Water: -
---------------------	---------------	-----------------	---------------	---------------------	----------------------

Penetration Resistance	Moisture Content	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Run	Recovery	Soil/Rock Type	Lithology/Remarks	Well Completion Diagram
					0					
	moist		none		2				0' → ~4' clayey, gravelly fg → coarse sand, brown, no odor, no stain, moist → odor & stain @ ~3' 4' → 10' fg → v. coarse sand, gray stain, odor, moist → PVC Riser	
		38.1	stain		4					
		100.3			6					
					8					
					10					
					12					
					14					
					16					
					18					
					20					
					22					
					24					
					26					
					28					
					30					
					32					
					34					
					36					
					38					
					40					

Well Location Sketch:

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BORING LOG/MONITORING WELL COMPLETION DIAGRAM

Boring/Well Number: SVE06	Project: HSR-MJ Farms 11, 12, 13, 14-7
Date: 3/15/2016	Project Number: KMG10607
Logged By: Kris Shepherd/Ryan Zernis	Drilled By: Dakota

Elevation:	Detector: PID	Drilling Method: Hollow Stem Auger	Sampling Method: Continuous/Cuttings
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Gravel Pack: Silica Sand	Seal: Bentonite	Grout: Portland/Bentonite
-----------------------------	--------------------	------------------------------

Casing Type: PVC	Diameter: 2"	Length: 6'	Hole Diameter: 8"	Depth to Liquid: -
---------------------	-----------------	---------------	----------------------	-----------------------

Screen Type: PVC	Slot: 0.01	Diameter: 2"	Length: 4'	Total Depth: 10'	Depth to Water: -
---------------------	---------------	-----------------	---------------	---------------------	----------------------

Penetration Resistance	Moisture Content	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Run	Recovery	Soil/Rock Type	Lithology/Remarks	Well Completion Diagram
					0					
	Moist		none		2				0' → 4' clayey gravelly fg → coarse sand, brown, no stain, odor, moist 4' → 10' fg → v. coarse sand, gray, stain, odor, moist - PVC Risr	
		16.0	stain		4					
		21.5			6					
					8					
					10					
					12					
					14					
					16					
					18					
					20					
					22					
					24					
					26					
					28					
					30					
					32					
					34					
					36					
					38					
					40					

Well Location Sketch:

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BORING LOG/MONITORING WELL COMPLETION DIAGRAM

Boring/Well Number: AS01	Project: HSR-MJ Farms 11, 12, 13, 14-7
Date: 4/7/14	Project Number: KMG10607
Logged By: Kris Shepherd/Ryan Zernis	Drilled By: Dakota

Elevation:	Detector: PID	Drilling Method: Hollow Stem Auger	Sampling Method: Continuous/Cuttings
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Gravel Pack: Silica Sand	Seal: Bentonite	Grout: Portland/Bentonite
-----------------------------	--------------------	------------------------------

Casing Type: PVC	Diameter: 2"	Length: 24.5	Hole Diameter: 8"	Depth to Liquid: -
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Screen Type: PVC	Slot: 0.01	Diameter: 2"	Length: 1.5	Total Depth: 26'	Depth to Water: 13'
---------------------	---------------	-----------------	----------------	---------------------	------------------------

Penetration Resistance	Moisture Content	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Run Recovery	Soil/Rock Type	Lithology/Remarks	Well Completion Diagram
					0				
	Must		NO		2		CL	0-5' Brown. gravelly CLAYEY SANDS w/ q-veg. NOODLE NO STAIN ^{W/ ALSO} ROUNDED.	S S S
		1.2			4				S S S
					6				S S S
		0.9			8				X X
					10		Gm/SW	5 → gravel SANDS w/ v. lg-veg well SORTED. ROUNDED. NO ODD.	X X
		1.3			12				X X
	Wet		YES		14			13' → wet	X X
		1.2			16			14 → STAIN slip wt. NOODLE	X X
					18			19 → NO STAIN NO ODD	X X
		2.3		NO	20				X X
					22				
		1.9			24				
					26			↓ TO 26'	
					28				
					30				
					32				
					34				
					36				
					38				
					40				

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BORING LOG/MONITORING WELL COMPLETION DIAGRAM

Boring/Well Number: AS02	Project: HSR-MJ Farms 11, 12, 13, 14-7
Date: 4/7/16	Project Number: KMG10607
Logged By: Kris Shepherd/Ryan Zernis	Drilled By: Dakota

Elevation:	Detector: PID	Drilling Method: Hollow Stem Auger	Sampling Method: Continuous/Cuttings
------------	----------------------	---	---

Gravel Pack: Silica Sand	Seal: Bentonite	Grout: Portland/Bentonite
---------------------------------	------------------------	----------------------------------

Casing Type: PVC	Diameter: 2"	Length: 24.5	Hole Diameter: 8"	Depth to Liquid: -
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Screen Type: PVC	Slot: 0.01	Diameter: 2"	Length: 1.5	Total Depth: 26	Depth to Water: 13'
-------------------------	-------------------	---------------------	--------------------	------------------------	----------------------------

Penetration Resistance	Moisture Content	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Run	Recovery	Soil/Rock Type	Lithology/Remarks	Well Completion Diagram
					0					
	Molst	1.3	No		2			CL	0-5. Brown. gravelly clayey SANDS vfg-vcq. NOODR. NO STAIN. RANDED.	S
		0.7			4					S
					6					S
		1.2			8				5 → Pink. Tan. Brown.	X
					10			Gm/Sw	RANDED. qzavels. RANDED SANDS	X
		1.7			12				vfg-vcq. well sorted. NOODR.	X
	WET				14					X
		1.0	yes		16				13 → WET	X
					18				14 → STAIN. NOODR	X
		1.2	No		20				19 → NO STAIN NOODR.	X
					22				↓	
		0.7			24				TD 26.	
					26					
					28					
					30					
					32					
					34					
					36					
					38					
					40					

Well Location Sketch:

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BORING LOG/MONITORING WELL COMPLETION DIAGRAM

Boring Well Number: AS03	Project: HSR-MJ Farms 11, 12, 13, 14-7
Date: 4/7/16	Project Number: KMG10607
Logged By: Kris Shepherd/Ryan Zernis	Drilled By: Dakota

Elevation:	Detector: PID	Drilling Method: Hollow Stem Auger	Sampling Method: Continuous/Cuttings
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Gravel Pack: Silica Sand	Seal: Bentonite	Grout: Portland/Bentonite
---------------------------------	------------------------	----------------------------------

Casing Type: PVC	Diameter: 2"	Length: 24.5	Hole Diameter: 8"	Depth to Liquid: -
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Screen Type: PVC	Slot: 0.01	Diameter: 2"	Length: 1.5	Total Depth: 26'	Depth to Water: 13
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Penetration Resistance	Moisture Content	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Run	Recovery	Soil/Rock Type	Lithology/Remarks	Well Completion Diagram
					0					
	Moist	1.3	No		2				0-5. Brown. granully clayey SANDS. vfy-cy NOODLE. NOSTAIN	S
					4					S
					6				5-7 gravel SAND mix vfy-vcg	S
		2.7			8				ROUNDED. WELL SORTED. NOODLE TANS/BROWNS/PINKS.	X
					10					X
					12					X
					14				13' -> WET.	X
		1.7	Yes		16				15' -> STAIN SLIGHT. NOODLE	X
					18					X
		3.2			20				20' -> NOSTAIN. NOODLE.	X
					22					X
		1.6	No		24					
					26					
					28					
					30					
					32					
					34					
					36					
					38					
					40					

Well Location Sketch:

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BORING LOG/MONITORING WELL COMPLETION DIAGRAM

Boring/Well Number: AS04	Project: HSR-MJ Farms 11, 12, 13, 14-7
Date: 4/6/16	Project Number: KMG10607
Logged By: Kris Shepherd/Ryan Zernis	Drilled By: Dakota

Elevation:	Detector: PID	Drilling Method: Hollow Stem Auger	Sampling Method: Continuous/Cuttings
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Gravel Pack: Silica Sand	Seal: Bentonite	Grout: Portland/Bentonite
---------------------------------	------------------------	----------------------------------

Casing Type: PVC	Diameter: 2"	Length: 24.5	Hole Diameter: 8"	Depth to Liquid: -
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Screen Type: PVC	Slot: 0.01	Diameter: 2"	Length: 1.5	Total Depth: 26	Depth to Water: 13'
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Penetration Resistance	Moisture Content	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Run	Recovery	Soil/Rock Type	Lithology/Remarks	Well Completion Diagram
					0					
					2				Not Logged. Not Sampled.	
					4					
					6					
					8					
					10					
					12					
					14					
					16					
					18					
					20					
					22					
					24					
					26					
					28					
					30					
					32					
					34					
					36					
					38					
					40					

Well Location Sketch:

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BORING LOG/MONITORING WELL COMPLETION DIAGRAM

Boring Well Number: AS05	Project: HSR-MJ Farms 11, 12, 13, 14-7
Date: 4/6/16	Project Number: KMG10607
Logged By: Kris Shepherd/Ryan Zernis	Drilled By: Dakota

Elevation:	Detector: PID	Drilling Method: Hollow Stem Auger	Sampling Method: Continuous/Cuttings
------------	---------------	------------------------------------	--------------------------------------

Gravel Pack: Silica Sand	Seal: Bentonite	Grout: Portland/Bentonite
--------------------------	-----------------	---------------------------

Casing Type: PVC	Diameter: 2"	Length: 24.5'	Hole Diameter: 8"	Depth to Liquid: -
------------------	--------------	---------------	-------------------	--------------------

Screen Type: PVC	Slot: 0.01	Diameter: 2"	Length: 1.5'	Total Depth: 26'	Depth to Water: 13'
------------------	------------	--------------	--------------	------------------	---------------------

Penetration Resistance	Moisture Content	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Run	Recovery	Soil/Rock Type	Lithology/Remarks	Well Completion Diagram
					0					
	moist	0.7	No		2				0-5' Brown. clayey gravelly	S
					4				CLAYS. lg. (lg. NO ODOOR NO STAIN	S
		1.2			6				SANDS	S
					8					X
		0.5			10				5' → Brown. Vg. SANDS/gravels	X
					12				MAX. NO ODOOR	X
	wet	0.5	Yes		14					X
					16					X
		1.2			18				Wet @ 13'	X
					20				STAIN @ 14'	X
					22				NO STAIN @ 20'	
		1.5			24					
					26					
					28					
					30					
					32					
					34					
					36					
					38					
					40					

Well Location Sketch:

See Attached Figure



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BORING LOG/MONITORING WELL COMPLETION DIAGRAM

Boring/Well Number: *AS06* Project: HSR-MJ Farms 11, 12, 13, 14-7

Date: *4/6/14* Project Number: KMG10607

Logged By: Kris Shepherd/Ryan Zernis Drilled By: Dakota

Elevation: Detector: PID Drilling Method: Hollow Stem Auger Sampling Method: Continuous/Cuttings

Gravel Pack: Silica Sand Seal: Bentonite Grout: Portland/Bentonite

Casing Type: PVC Diameter: 2" Length: 24.5' Hole Diameter: 8" Depth to Liquid: -

Screen Type: PVC Slot: 0.01 Diameter: 2" Length: 1.5' Total Depth: 26' Depth to Water: 13'

Penetration Resistance	Moisture Content	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Run	Recovery	Soil/Rock Type	Lithology/Remarks	Well Completion Diagram
					0					
					2				NOT LOGGED NOT SAMPLED.	S
					4					S
					6					S
					8					X
					10					X
					12					X
					14					X
					16					X
					18					X
					20					X
					22					X
					24					X
					26					X
					28					X
					30					X
					32					X
					34					X
					36					X
					38					X
					40					X

Well Location Sketch:

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BORING LOG/MONITORING WELL COMPLETION DIAGRAM

Boring/Well Number: AS07	Project: HSR-MJ Farms 11, 12, 13, 14-7
Date: 4/6/16	Project Number: KMG10607
Logged By: Kris Shepherd/Ryan Zernis	Drilled By: Dakota

Elevation:	Detector: PID	Drilling Method: Hollow Stem Auger	Sampling Method: Continuous/Cuttings
------------	---------------	------------------------------------	--------------------------------------

Gravel Pack: Silica Sand	Seal: Bentonite	Grout: Portland/Bentonite
--------------------------	-----------------	---------------------------

Casing Type: PVC	Diameter: 2"	Length: 24.5	Hole Diameter: 8"	Depth to Liquid: -
------------------	--------------	--------------	-------------------	--------------------

Screen Type: PVC	Slot: 0.01	Diameter: 2"	Length: 1.5	Total Depth: 26'	Depth to Water: 13
------------------	------------	--------------	-------------	------------------	--------------------

Penetration Resistance	Moisture Content	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Run	Recovery	Soil/Rock Type	Lithology/Remarks	Well Completion Diagram
					0					
					2				Not Logged. Not Sampled	S
					4					S
					6					S
					8					X
					10					X
					12					X
					14					X
					16					X
					18					X
					20					X
					22					X
					24					X
					26					X
					28					X
					30					X
					32					X
					34					X
					36					X
					38					X
					40					X

NOTES

Well Location Sketch:

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BORING LOG/MONITORING WELL COMPLETION DIAGRAM

Boring/Well Number: AS08	Project: HSR-MJ Farms 11, 12, 13, 14-7
Date: 4/6/16	Project Number: KMG10607
Logged By: Kris Shepherd/Ryan Zernis	Drilled By: Dakota

Elevation:	Detector: PID	Drilling Method: Hollow Stem Auger	Sampling Method: Continuous/Cuttings
------------	---------------	------------------------------------	--------------------------------------

Gravel Pack: Silica Sand	Seal: Bentonite	Grout: Portland/Bentonite
--------------------------	-----------------	---------------------------

Casing Type: PVC	Diameter: 2"	Length: 24.5	Hole Diameter: 8"	Depth to Liquid: -
------------------	--------------	--------------	-------------------	--------------------

Screen Type: PVC	Slot: 0.01	Diameter: 2"	Length: 1.5	Total Depth: 26	Depth to Water: 13'
------------------	------------	--------------	-------------	-----------------	---------------------

Penetration Resistance	Moisture Content	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Run	Recovery	Soil/Rock Type	Lithology/Remarks	Well Completion Diagram
					0					
	Moist	0.4	NO		2				0-5. BROWN. CLAYEY SANDS. GRAVELS. ROUNDED. WELL SORTED. NO ODOR. NO STAIN. MOIST	
		0.7			4					
					6				5-26 Browns. gravelly SANDS. ROUNDED. WELL SORTED.	
					8					
					10					
					12					
					14				Wet @ 13'	
					16				STAIN 14'	
					18				NO STAIN 19'	
					20					
					22					
					24				- PVC RISER	
					26					
					28					
					30					
					32					
					34					
					36					
					38					
					40					

NOTES

Well Location Sketch:

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BORING LOG/MONITORING WELL COMPLETION DIAGRAM

Boring/Well Number: AS09	Project: HSR-MJ Farms 11, 12, 13, 14-7
Date: 4/5/14	Project Number: KMG10607
Logged By: Kris Shepherd/Ryan Zernis	Drilled By: Dakota

Elevation:	Detector: PID	Drilling Method: Hollow Stem Auger	Sampling Method: Continuous/Cuttings
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Gravel Pack: Silica Sand	Seal: Bentonite	Grout: Portland/Bentonite
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Casing Type: PVC	Diameter: 2"	Length: 24.5'	Hole Diameter: 8"	Depth to Liquid: -
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Screen Type: PVC	Slot: 0.01	Diameter: 2"	Length: 1.5'	Total Depth: 26.0	Depth to Water: 13'
------------------	------------	--------------	--------------	-------------------	---------------------

Penetration Resistance	Moisture Content	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Run	Recovery	Soil/Rock Type	Lithology/Remarks	Well Completion Diagram
					0					
					2				NOT LOGGED NOT SAMPLED.	
					4					
					6					
					8					
					10					
					12				- PVC RISE	
					14					
					16					
					18					
					20					
					22					
					24					
					26					
					28					
					30					
					32					
					34					
					36					
					38					
					40					

Well Location Sketch:

See Attached Figure



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BORING LOG/MONITORING WELL COMPLETION DIAGRAM

Boring/Well Number: AS10	Project: HSR-MJ Farms 11, 12, 13, 14-7
Date: 3/21/2016	Project Number: KMG10607
Logged By: Kris Shepherd/Ryan Zernis	Drilled By: Dakota

Elevation:	Detector: PID	Drilling Method: Hollow Stem Auger	Sampling Method: Continuous/Cuttings
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Gravel Pack: Silica Sand	Seal: Bentonite	Grout: Portland/Bentonite
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Casing Type: PVC	Diameter: 2"	Length: 24.5'	Hole Diameter: 8"	Depth to Liquid: -
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Screen Type: PVC	Slot: 0.01	Diameter: 2"	Length: 1.5'	Total Depth: 26'	Depth to Water: ~13'
---------------------	---------------	-----------------	-----------------	---------------------	-------------------------

Penetration Resistance	Moisture Content	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Run	Recovery	Soil/Rock Type	Lithology/Remarks	Well Completion Diagram
					0					
	Moist	0.4	None		2				0' → 4' gravelly, clayey fg → coarse sand, brown, no stain, no odor, moist	
					4				4' → 26' fg → v. coarse sand, tan/brown, no odor, no stain, moist	
		0.5			6				→ wet @ ~13'	
					8					
		0.5			10					
					12					
		0.5			14				→ PVC Riser	
					16					
		0.1			18					
					20					
		0.4			22					
					24					
		0.2			26					
					28					
					30					
					32					
					34					
					36					
					38					
					40					

Well Location Sketch:

See Attached Figure



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BORING LOG/MONITORING WELL COMPLETION DIAGRAM

Boring/Well Number: <i>AS11</i>	Project: HSR-MJ Farms 11, 12, 13, 14-7
Date: <i>3/21/2016</i>	Project Number: KMG10607
Logged By: Kris Shepherd/Ryan Zernis	Drilled By: Dakota

Elevation:	Detector: PID	Drilling Method: Hollow Stem Auger	Sampling Method: Continuous/Cuttings
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Gravel Pack: Silica Sand	Seal: Bentonite	Grout: Portland/Bentonite
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Casing Type: PVC	Diameter: 2"	Length:	Hole Diameter: 8"	Depth to Liquid: -
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Screen Type: PVC	Slot: 0.01	Diameter: 2"	Length:	Total Depth:	Depth to Water:
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Penetration Resistance	Moisture Content	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Run	Recovery	Soil/Rock Type	Lithology/Remarks	Well Completion Diagram
					0					
					2				<i>Not Sampled, not logged</i>	
					4					
					6				<i>→ PVC riser</i>	
					8					
					10					
					12					
					14					
					16					
					18					
					20					
					22					
					24					
					26					
					28					
					30					
					32					
					34					
					36					
					38					
					40					

Well Location Sketch:

See Attached Figure



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BORING LOG/MONITORING WELL COMPLETION DIAGRAM

Boring/Well Number: AS12	Project: HSR-MJ Farms 11, 12, 13, 14-7
Date: 3/15/2016	Project Number: KMG10607
Logged By: Kris Shepherd/Ryan Zernis	Drilled By: Dakota
Elevation:	Detector: PID
Drilling Method: Hollow Stem Auger	Sampling Method: Continuous/Cuttings
Gravel Pack: Silica Sand	Seal: Bentonite
	Grout: Portland/Bentonite
Casing Type: PVC	Diameter: 2"
	Length: 25.5'
Screen Type: PVC	Diameter: 2"
	Length: 1.5'
Slot: 0.01	Hole Diameter: 8"
	Depth to Liquid: -
	Total Depth: ~27'
	Depth to Water: ~13'

Penetration Resistance	Moisture Content	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Run	Recovery	Soil/Rock Type	Lithology/Remarks	Well Completion Diagram
					0					
	moist		none		2				0' → 4' clayey, gravelly, fg → coarse sand, brown, no stain, odor, moist 4' → fg → v. coarse sand, brown, no stain, no odor, moist → wet @ ~13' → stain @ ~14' → no stain @ ~25' → PVC Risers	
		4.8			4					
					6					
		1.7			8					
					10					
	wet	1.2	stain		12					
					14					
		3.3			16					
					18					
		3.0			20					
					22					
		1.4			24					
			none		26					
					28					
					30					
					32					
					34					
					36					
					38					
					40					

Well Location Sketch:

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BORING LOG/MONITORING WELL COMPLETION DIAGRAM

Boring/Well Number: AS13	Project: HSR-MJ Farms 11, 12, 13, 14-7
Date: 3/14/16	Project Number: KMG10607
Logged By: Kris Shepherd/Ryan Zernis	Drilled By: Dakota

Elevation:	Detector: PID	Drilling Method: Hollow Stem Auger	Sampling Method: Continuous/Cuttings
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Gravel Pack: Silica Sand	Seal: Bentonite	Grout: Portland/Bentonite
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Casing Type: PVC	Diameter: 2"	Length: 28.5	Hole Diameter: 8"	Depth to Liquid: -
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Screen Type: PVC	Slot: 0.01	Diameter: 2"	Length: 21.5'	Total Depth: 27	Depth to Water: ~10
------------------	------------	--------------	---------------	-----------------	---------------------

Penetration Resistance	Moisture Content	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Run	Recovery	Soil/Rock Type	Lithology/Remarks	Well Completion Diagram
					0					
		0.0			2			LL	0-6 SANDY CLAY CLAYEY SANDS BROWN.	
					4					
					6			SW	6-28 - well rounded gravel/mg	
					8					
		0.3			10					
					12					
		23.7			14					
					16					
					18					
		35.2	NO		20					
4/13/10/11 wet		40.2	NO		22	100		SW	20-22 Well rounded. mg-gravel/pebbles	
4/7/12/15 wet		315 1071	YES		24			SW	22-24' well rounded stains mg/gravel	
12/18		1071	YES		26			SW	24-26 SAA	
21/28 wet		1141 1237	YES		28			SW	26-28 SAA.	
10/12/18/17 wet		350	YES	20/28	32				TID. 28' SET well 27'	
		5.1	NO		34				SCREEN 27-25.5' COATED pellets	
					36				FB 21-25. SAND from 28-25	
					38				grout 21-4.5 Bgs TOP SOIL BACK FILL	
					40					

Well Location Sketch:

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BORING LOG/MONITORING WELL COMPLETION DIAGRAM

Boring/Well Number:	AS14	Project:	HSR-MJ Farms 11, 12, 13, 14-7	
Date:	4/6/16	Project Number:	KMG10607	
Logged By:	Kris Shepherd/Ryan Zernis		Drilled By:	Dakota
Elevation:	Detector:	Drilling Method:	Sampling Method:	
	PID	Hollow Stem Auger	Continuous/Cuttings	
Gravel Pack:	Seal:	Grout:		
Silica Sand	Bentonite	Portland/Bentonite		
Casing Type:	Diameter:	Length:	Hole Diameter:	Depth to Liquid:
PVC	2"	24.5	8"	-
Screen Type:	Slot:	Diameter:	Length:	Total Depth:
PVC	0.01	2"	1.5	26
				Depth to Water:
				13

Penetration Resistance	Moisture Content	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Run	Recovery	Soil/Rock Type	Lithology/Remarks	Well Completion Diagram
					0					
					2				Not Logged. Not Sampled.	
					4					
					6					
					8					
					10					
					12					
					14					
					16					
					18					
					20					
					22					
					24					
					26					
					28					
					30					
					32					
					34					
					36					
					38					
					40					

Well Location Sketch:

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BORING LOG/MONITORING WELL COMPLETION DIAGRAM

Boring/Well Number: AS 15	Project: HSR-MJ Farms 11, 12, 13, 14-7
Date: 4/6/16	Project Number: KMG10607
Logged By: Kris Shepherd/Ryan Zernis	Drilled By: Dakota

Elevation:	Detector: PID	Drilling Method: Hollow Stem Auger	Sampling Method: Continuous/Cuttings
------------	---------------	------------------------------------	--------------------------------------

Gravel Pack: Silica Sand	Seal: Bentonite	Grout: Portland/Bentonite
--------------------------	-----------------	---------------------------

Casing Type: PVC	Diameter: 2"	Length:	Hole Diameter: 8"	Depth to Liquid: -
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Screen Type: PVC	Slot: 0.01	Diameter: 2"	Length: 1.5	Total Depth:	Depth to Water: 13
------------------	------------	--------------	-------------	--------------	--------------------

Penetration Resistance	Moisture Content	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Run	Recovery	Soil/Rock Type	Lithology/Remarks	Well Completion Diagram
					0					
					2				NOT LOGGED. NOT SAMPLED.	S
					4					S
					6					S
					8					X
					10					X
					12					X
					14					X
					16					X
					18					X
					20					X
					22					
					24					
					26					
					28					
					30					
					32					
					34					
					36					
					38					
					40					

Well Location Sketch:

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BORING LOG/MONITORING WELL COMPLETION DIAGRAM

Boring Well Number: **AS 16** Project: **HSR-MJ Farms 11, 12, 13, 14-7**

Date: **4/4/16** Project Number: **KMG10607**

Logged By: **Kris Shepherd/Ryan Zernis** Drilled By: **Dakota**

Elevation: Detector: **PID** Drilling Method: **Hollow Stem Auger** Sampling Method: **Continuous/Cuttings**

Gravel Pack: **Silica Sand** Seal: **Bentonite** Grout: **Portland/Bentonite**

Casing Type: **PVC** Diameter: **2"** Length: **25.5** Hole Diameter: **8"** Depth to Liquid: **-**

Screen Type: **PVC** Slot: **0.01** Diameter: **2"** Length: **1.5** Total Depth: **-27** Depth to Water: **13'**

Penetration Resistance	Moisture Content	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Run	Recovery	Soil/Rock Type	Lithology/Remarks	Well Completion Diagram
					0					
	Moist		None		2			q	0-5' gravelly, clayey fq - coarse sand	S
		4.2			4				Brown. No sand. No odor. moist	S
					6			gm	5-26. fq - veg sands. gravels.	S
		1.6			8			sw	well mixed. rounded no stain.	X
					10				No odor. moist	X
					12				→ wet @ 13'	X
		1.2			14				Slight stain @ 14'	X
	Wet	2.3	Stain		16				No stain. 25-27'	X
					18					X
		3.3			20					X
					22					X
		1.9			24					X
			None		26					X
					28					X
					30					X
					32					X
					34					X
					36					X
					38					X
					40					X

Well Location Sketch:

See Attached Figure



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BORING LOG/MONITORING WELL COMPLETION DIAGRAM

Boring/Well Number: AS 17	Project: HSR-MJ Farms 11, 12, 13, 14-7
Date: 3/22/16	Project Number: KMG10607
Logged By: Kris Shepherd/Ryan Zernis	Drilled By: Dakota

Elevation:	Detector: PID	Drilling Method: Hollow Stem Auger	Sampling Method: Continuous/Cuttings
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Gravel Pack: Silica Sand	Seal: Bentonite	Grout: Portland/Bentonite
--------------------------	-----------------	---------------------------

Casing Type: PVC	Diameter: 2"	Length: 25.5	Hole Diameter: 8"	Depth to Liquid: -
------------------	--------------	--------------	-------------------	--------------------

Screen Type: PVC	Slot: 0.01	Diameter: 2"	Length: 1.5	Total Depth: 26	Depth to Water: -
------------------	------------	--------------	-------------	-----------------	-------------------

Penetration Resistance	Moisture Content	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Run	Recovery	Soil/Rock Type	Lithology/Remarks	Well Completion Diagram
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					0					
					2				→ NOT LOGGED. NOT SAMPLED.	
					4					
					6					
					8					X
					10					X
					12					X
					14					X
					16					X
					18					X
					20					X
					22					
					24					
					26					
					28					
					30					
					32					
					34					
					36					
					38					
					40					

Well Location Sketch:

See Attached Figure



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BORING LOG/MONITORING WELL COMPLETION DIAGRAM

Boring/Well Number: AS18	Project: HSR-MJ Farms 11, 12, 13, 14-7
Date: 3/22/2016	Project Number: KMG10607
Logged By: Kris Shepherd/Ryan Zernis	Drilled By: Dakota

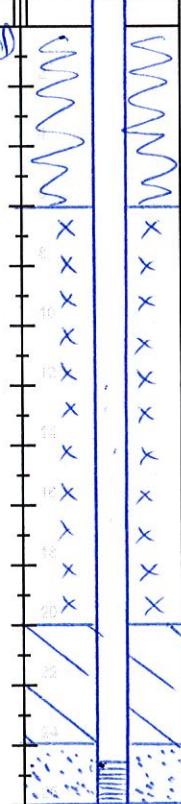
Elevation:	Detector: PID	Drilling Method: Hollow Stem Auger	Sampling Method: Continuous/Cuttings
------------	------------------	---------------------------------------	---

Gravel Pack: Silica Sand	Seal: Bentonite	Grout: Portland/Bentonite
-----------------------------	--------------------	------------------------------

Casing Type: PVC	Diameter: 2"	Length: 2	Hole Diameter: 8"	Depth to Liquid: -
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Screen Type: PVC	Slot: 0.01	Diameter: 2"	Length: 1.5'	Total Depth: 26'	Depth to Water: —
---------------------	---------------	-----------------	-----------------	---------------------	----------------------

Penetration Resistance	Moisture Content	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Run	Recovery	Soil/Rock Type	Lithology/Remarks	Well Completion Diagram
					0					
					2				→ Not sampled, not logged!	
					4					
					6					
					8					
					10					
					12					
					14					
					16					
					18					
					20					
					22					
					24					
					26					
					28					
					30					
					32					
					34					
					36					
					38					
					40					



Well Location Sketch:

See Attached Figure



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BORING LOG/MONITORING WELL COMPLETION DIAGRAM

Boring/Well Number: AS19	Project: HSR-MJ Farms 11, 12, 13, 14-7
Date: 3/16/16	Project Number: KMG10607
Logged By: Kris Shepherd/Ryan Zernis	Drilled By: Dakota

Elevation:	Detector: PID	Drilling Method: Hollow Stem Auger	Sampling Method: Continuous/Cuttings
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Gravel Pack: Silica Sand	Seal: Bentonite	Grout: Portland/Bentonite
-----------------------------	--------------------	------------------------------

Casing Type: PVC	Diameter: 2"	Length: 24.5'	Hole Diameter: 8"	Depth to Liquid: -
---------------------	-----------------	------------------	----------------------	-----------------------

Screen Type: PVC	Slot: 0.01	Diameter: 2"	Length: 1.5'	Total Depth: 26'	Depth to Water: ~13'
---------------------	---------------	-----------------	-----------------	---------------------	-------------------------

Penetration Resistance	Moisture Content	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Run	Recovery	Soil/Rock Type	Lithology/Remarks	Well Completion Diagram
					0					
	moist		none		2				0' → 5' gravelly, clayey, fg → coarse sand, brown, no odor, no stain, moist	
		1.2			4					
					6				5' → 26' fg → v. coarse sand	
		0.7			8				brown, no stain, no odor, moist	
					10				→ wet @ ~13'	
		0.8			12				→ color & gray stain @ 18'	
	wet				14				→ odor ends @ ~24'	
					16				→ stain ends @ 25.5'	
		10.1			18					
			stain		20				→ PVC Riser	
					22	2'	2'			
		4.1			24	2'	2'			
		7.8			26	2'	2'			
					28					
		1.2			30					
					32					
					34					
					36					
					38					
					40					

Well Location Sketch:

See Attached Figure



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BORING LOG/MONITORING WELL COMPLETION DIAGRAM

Boring/Well Number: AS20	Project: HSR-MJ Farms 11, 12, 13, 14-7
Date: 3/21/2016	Project Number: KMG10607
Logged By: Kris Shepherd/Ryan Zernis	Drilled By: Dakota

Elevation:	Detector: PID	Drilling Method: Hollow Stem Auger	Sampling Method: Continuous/Cuttings
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Gravel Pack: Silica Sand	Seal: Bentonite	Grout: Portland/Bentonite
-----------------------------	--------------------	------------------------------

Casing Type: PVC	Diameter: 2"	Length: 24.5'	Hole Diameter: 8"	Depth to Liquid: -
---------------------	-----------------	------------------	----------------------	-----------------------

Screen Type: PVC	Slot: 0.01	Diameter: 2"	Length: 1.5'	Total Depth: 26'	Depth to Water: N/A
---------------------	---------------	-----------------	-----------------	---------------------	------------------------

Penetration Resistance	Moisture Content	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Run	Recovery	Soil/Rock Type	Lithology/Remarks	Well Completion Diagram
					0					
					2				→ Not sampled, not logged	
					4					
					6				→ PVC Riser	
					8					
					10					
					12					
					14					
					16					
					18					
					20					
					22					
					24					
					26					
					28					
					30					
					32					
					34					
					36					
					38					
					40					

Well Location Sketch:

See Attached Figure



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BORING LOG/MONITORING WELL COMPLETION DIAGRAM

Boring/Well Number: <i>AS21</i>	Project: HSR-MJ Farms 11, 12, 13, 14-7
Date:	Project Number: KMG10607
Logged By: Kris Shepherd/Ryan Zernis	Drilled By: Dakota

Elevation:	Detector: PID	Drilling Method: Hollow Stem Auger	Sampling Method: Continuous/Cuttings
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Gravel Pack: Silica Sand	Seal: Bentonite	Grout: Portland/Bentonite
-----------------------------	--------------------	------------------------------

Casing Type: PVC	Diameter: 2"	Length: <i>24.5'</i>	Hole Diameter: 8"	Depth to Liquid: -
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Screen Type: PVC	Slot: 0.01	Diameter: 2"	Length: <i>1.5'</i>	Total Depth: <i>26'</i>	Depth to Water: <i>N/A</i>
---------------------	---------------	-----------------	------------------------	----------------------------	-------------------------------

Penetration Resistance	Moisture Content	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Run	Recovery	Soil/Rock Type	Lithology/Remarks	Well Completion Diagram
					0					
					2				<i>Not sampled, not logged</i>	
					4					
					6				<i>→ PVC Riser</i>	
					8					
					10					
					12					
					14					
					16					
					18					
					20					
					22					
					24					
					26					
					28					
					30					
					32					
					34					
					36					
					38					
					40					

Well Location Sketch:

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BORING LOG/MONITORING WELL COMPLETION DIAGRAM

Boring/Well Number: AS22	Project: HSR-MJ Farms 11, 12, 13, 14-7
Date: 3/16/16	Project Number: KMG10607
Logged By: Kris Shepherd/Ryan Zernis	Drilled By: Dakota

Elevation:	Detector: PID	Drilling Method: Hollow Stem Auger	Sampling Method: Continuous/Cuttings
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Gravel Pack: Silica Sand	Seal: Bentonite	Grout: Portland/Bentonite
-----------------------------	--------------------	------------------------------

Casing Type: PVC	Diameter: 2"	Length: 25.5'	Hole Diameter: 8"	Depth to Liquid: -
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Screen Type: PVC	Slot: 0.01	Diameter: 2"	Length: 1.5'	Total Depth: 27'	Depth to Water: ~13'
---------------------	---------------	-----------------	-----------------	---------------------	-------------------------

Penetration Resistance	Moisture Content	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Run	Recovery	Soil/Rock Type	Lithology/Remarks	Well Completion Diagram
					0					
	moist		none		2				0' → 4' clayey gravelly fg	
					4				→ coarse sand, brown, no stain, no odor, moist	
	4.2				6				4' → 27' fg → v. coarse sand, brown, no odor, no stain, moist	
		6.8			8				→ wet @ ~13'	
					10				→ stain @ ~21'	
	wet	1.7			12					
					14				→ PVC Riser	
		5.3			16					
					18					
					20					
			stain		22					
		7.4			24					
					26					
		13.9			28					
					30					
					32					
					34					
					36					
					38					
					40					

Well Location Sketch:

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BORING LOG/MONITORING WELL COMPLETION DIAGRAM

Boring/Well Number: AS23	Project: HSR-MJ Farms 11, 12, 13, 14-7
Date: 3/14/16	Project Number: KMG10607
Logged By: Kris Shepherd/Ryan Zernis	Drilled By: Dakota

Elevation:	Detector: PID	Drilling Method: Hollow Stem Auger	Sampling Method: Continuous/Cuttings
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Gravel Pack: Silica Sand	Seal: Bentonite	Grout: Portland/Bentonite
---------------------------------	------------------------	----------------------------------

Casing Type: PVC	Diameter: 2"	Length:	Hole Diameter: 8"	Depth to Liquid: -
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Screen Type: PVC	Slot: 0.01	Diameter: 2"	Length:	Total Depth:	Depth to Water:
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Penetration Resistance	Moisture Content	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Run	Recovery	Soil/Rock Type	Lithology/Remarks	Well Completion Diagram
					0					
	moist		none		2				0' → 5' gravelly, clayey, fg → coarse sand, brown, no stain, no odor, moist 5' → 27' fg → v. coarse sand, brown, no stain, no odor, moist → tan @ ~12' → wet @ ~13' → stain + odor @ ~15' → PVC Riser	
		1.0			4					
		0.6			6					
		0.8			8					
	wet		stain		10					
		542			12					
		1177			14					
		1086			16					
					18					
					20					
					22					
					24					
					26					
					28					
					30					
					32					
					34					
					36					
					38					
					40					

Well Location Sketch:

See Attached Figure



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BORING LOG/MONITORING WELL COMPLETION DIAGRAM

Boring/Well Number: AS24	Project: HSR-MJ Farms 11, 12, 13, 14-7
Date: 3/16/2016	Project Number: KMG10607
Logged By: Kris Shepherd/Ryan Zernis	Drilled By: Dakota

Elevation:	Detector: PID	Drilling Method: Hollow Stem Auger	Sampling Method: Continuous/Cuttings
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Gravel Pack: Silica Sand	Seal: Bentonite	Grout: Portland/Bentonite
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Casing Type: PVC	Diameter: 2"	Length: 25.5'	Hole Diameter: 8"	Depth to Liquid: -
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Screen Type: PVC	Slot: 0.01	Diameter: 2"	Length: 1.5'	Total Depth: ~27'	Depth to Water: ~13'
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Penetration Resistance	Moisture Content	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Run	Recovery	Soil/Rock Type	Lithology/Remarks	Well Completion Diagram
					0					
	moist		none		2				0' → 5' clayey, gravelly fg → coarse sand, brown, no stain, no color, moist	
		2.7			4					
					6				5' → 27' fg → v. coarse sand, brown, no stain, no color, moist	
		2.2			8					
					10				→ wet @ ~13'	
	wet	3.7			12				→ odor & gray stain @ ~16'	
					14				→ PVC Riser	
			stain		16					
		710			18					
					20					
		393			22					
		416			24					
					26					
					28					
					30					
					32					
					34					
					36					
					38					
					40					

Well Location Sketch:

See Attached Figure



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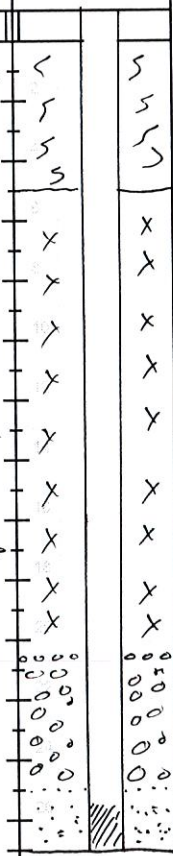
Arvada, Colorado 80003

BORING LOG/MONITORING WELL COMPLETION DIAGRAM

Boring/Well Number: AS 25	Project: HSR-MJ Farms 11, 12, 13, 14-7				
Date: 3/14/14	Project Number: KMG10607				
Logged By: Kris Shepherd/Ryan Zernis	Drilled By: Dakota				
Elevation:	Detector: PID				
Drilling Method: Hollow Stem Auger	Sampling Method: Continuous/Cuttings				
Gravel Pack: Silica Sand	Seal: Bentonite				
	Grout: Portland/Bentonite				
Casing Type: PVC	Diameter: 2"	Length: 28.5	Hole Diameter: 8"	Depth to Liquid: -	
Screen Type: PVC	Slot: 0.01	Diameter: 2"	Length: 1.5	Total Depth: 27	Depth to Water: ~ 11

Penetration Resistance	Moisture Content	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Run	Recovery	Soil/Rock Type	Lithology/Remarks	Well Completion Diagram
					0					
		0.3	NO		2			CL	BROWN CLAYEY SANDS NO ODR NO STAIN	< 5
	MOIST	15.3	YES		4			CL	BLACK CLAYEY SANDS. ROUNDED GRAVEL INCLUSIONS. STAIN DEGRADED HCODR	5 5
		7.2			6					
		5.3	YES		8			SW	WELL GRADED. BLACK. GRAVELS/MG	X X
					10					X
	WET	63.8	YES		12			SW	SAA	X
		1927			14					X
			YES		16					X
		1810			18			SW	SAA	X
					20					X
		1845	YES		22			SW	SAA	X
					24					X
		1531	YES		26			SW	SAA	X
					28					X
					30					X
					32					X
					34					X
					36					X
					38					X
					40					X

TD 27' SCREEN FROM 27-28.5
SAND TO 25' COATED BENTONITE PELLETS
FROM 25-28.5 GROUT FROM
20.5- 5' BACKFILL TO GRADE WITH
NETWE TOP SOIL



Well Location Sketch:

See Attached Figure



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BORING LOG/MONITORING WELL COMPLETION DIAGRAM

Boring/Well Number: AS26	Project: HSR-MJ Farms 11, 12, 13, 14-7
Date: 3/14/16	Project Number: KMG10607
Logged By: Kris Shepherd/Ryan Zernis	Drilled By: Dakota

Elevation:	Detector: PID	Drilling Method: Hollow Stem Auger	Sampling Method: Continuous/Cuttings
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Gravel Pack: Silica Sand	Seal: Bentonite	Grout: Portland/Bentonite
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Casing Type: PVC	Diameter: 2"	Length: 28.5	Hole Diameter: 8"	Depth to Liquid: -
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Screen Type: PVC	Slot: 0.01	Diameter: 2"	Length: 1.5	Total Depth: 27	Depth to Water: 21
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Penetration Resistance	Moisture Content	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Run	Recovery	Soil/Rock Type	Lithology/Remarks	Well Completion Diagram
					0					
		3.2			2					
	Moist				4			CL	0-6 clay sands Brown	
		5.0	M		6					
	Moist	7.3	No/sign		8					
					10			SW	6-27' Well rounded slight skin gravel/mq	
					12					
	Wet	1873	Yes		14			SW	SAA	
					16					
					18					
	Wet	1428	Yes		20			SW	SAA	
					22					
	Wet	1379	Yes		24			SW	SAA	
					26					
					28					
					30					
					32					
					34					
					36					
					38					
					40					

TD 27' SCREEN from 27-25.5 SAND TO 25. COATED Bentonite pellets 25-20.5 Grout 20.5-5' BACK fill TO grade WITH TOP SOIL.

Well Location Sketch:

See Attached Figure



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BORING LOG/MONITORING WELL COMPLETION DIAGRAM

Boring/Well Number: AS27	Project: HSR-MJ Farms 11, 12, 13, 14-7
Date: 3/15/2016	Project Number: KMG10607
Logged By: Kris Shepherd/Ryan Zernis	Drilled By: Dakota

Elevation:	Detector: PID	Drilling Method: Hollow Stem Auger	Sampling Method: Continuous/Cuttings
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Gravel Pack: Silica Sand	Seal: Bentonite	Grout: Portland/Bentonite
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Casing Type: PVC	Diameter: 2"	Length: 25.5'	Hole Diameter: 8"	Depth to Liquid: -
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Screen Type: PVC	Slot: 0.01	Diameter: 2"	Length: 1.5'	Total Depth: 27'	Depth to Water: ~12'
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Penetration Resistance	Moisture Content	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Run	Recovery	Soil/Rock Type	Lithology/Remarks	Well Completion Diagram
					0					
	Moist		None		2				0' → ~6' clayey gravelly fg → coarse sand, no stain, no odor, moist 6' → fg → v. coarse sand, brown, no stain, no color, moist → stain @ ~12', wet → odor @ ~15' → PVC Riser	
		12.5			4					
		7.4			6					
					8					
					10					
	wet		stain		12					
		10.5			14					
					16					
		258			18					
					20					
					22					
					24					
		1179			26					
					28					
		1390			30					
					32					
					34					
					36					
					38					
					40					

Well Location Sketch:

See Attached Figure



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BORING LOG/MONITORING WELL COMPLETION DIAGRAM

Boring/Well Number: AS28	Project: HSR-MJ Farms 11, 12, 13, 14-7
Date: 3/22/2016	Project Number: KMG10607
Logged By: Kris Shepherd/Ryan Zernis	Drilled By: Dakota

Elevation:	Detector: PID	Drilling Method: Hollow Stem Auger	Sampling Method: Continuous/Cuttings
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Gravel Pack: Silica Sand	Seal: Bentonite	Grout: Portland/Bentonite
-----------------------------	--------------------	------------------------------

Casing Type: PVC	Diameter: 2"	Length: 24.5'	Hole Diameter: 8"	Depth to Liquid: -
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Screen Type: PVC	Slot: 0.01	Diameter: 2"	Length: 1.5'	Total Depth: 26'	Depth to Water: ~13'
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Penetration Resistance	Moisture Content	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Run	Recovery	Soil/Rock Type	Lithology/Remarks	Well Completion Diagram
					0					
	moist		stain		2				0' → 4' gravelly, clayey, fg → coarse sand, brown, no odor, stain, moist	
		15.8			4				4' → 26' fg → v. coarse sand, gray stain, odor, moist	
					6				→ wet c ~13'	
		39.7			8				→ PVC riser	
	wet				10					
		34.6			12					
					14					
		127			16					
					18					
		1310			20					
		1491			22					
					24					
					26					
					28					
					30					
					32					
					34					
					36					
					38					
					40					

Well Location Sketch:

See Attached Figure



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BORING LOG/MONITORING WELL COMPLETION DIAGRAM

Boring/Well Number: AS29	Project: HSR-MJ Farms 11, 12, 13, 14-7
Date: 3/16/16	Project Number: KMG10607
Logged By: Kris Shepherd/Ryan Zernis	Drilled By: Dakota
Elevation:	Detector: PID
Drilling Method: Hollow Stem Auger	Sampling Method: Continuous/Cuttings
Gravel Pack: Silica Sand	Seal: Bentonite
	Grout: Portland/Bentonite
Casing Type: PVC	Diameter: 2"
	Length: 25.5'
Screen Type: PVC	Diameter: 2"
Slot: 0.01	Length: 1.5'
	Hole Diameter: 8"
	Depth to Liquid: -
	Total Depth: ~27'
	Depth to Water: 13'

Penetration Resistance	Moisture Content	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Run	Recovery	Soil/Rock Type	Lithology/Remarks	Well Completion Diagram
					0					
	moist		none		2				0' → 6' clayey, gravelly, fg → coarse sands, brown, no stain, no odor, moist	
		0.8			4					
		14.7	stain		6				6' → 27' fg → v. coarse sands, gray stain, odor, moist	
		43.9			8				→ wet @ -13'	
	wet				10					
		126.7			12				→ PVC Riser	
		122.9			14					
		130.1			16					
					18					
					20					
					22					
					24					
					26					
					28					
					30					
					32					
					34					
					36					
					38					
					40					

Well Location Sketch:

See Attached Figure



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BORING LOG/MONITORING WELL COMPLETION DIAGRAM

Boring/Well Number: <i>AS 30</i>	Project: HSR-MJ Farms 11, 12, 13, 14-7
Date: <i>4/6/16</i>	Project Number: KMG10607
Logged By: Kris Shepherd/Ryan Zernis	Drilled By: Dakota

Elevation:	Detector: PID	Drilling Method: Hollow Stem Auger	Sampling Method: Continuous/Cuttings
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Gravel Pack: Silica Sand	Seal: Bentonite	Grout: Portland/Bentonite
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Casing Type: PVC	Diameter: 2"	Length: <i>24.5</i>	Hole Diameter: 8"	Depth to Liquid: -
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Screen Type: PVC	Slot: 0.01	Diameter: 2"	Length: <i>1.5</i>	Total Depth: <i>26'</i>	Depth to Water: <i>13</i>
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Penetration Resistance	Moisture Content	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Run	Recovery	Soil/Rock Type	Lithology/Remarks	Well Completion Diagram
					0					
	<i>Moist</i>	<i>0.3</i>	<i>No</i>		2				<i>0-5 BROWN. CLAYEY SANDS. GRAVELS. ROUNDED. WELL SORTED. NO ODC. NO STAIN.</i>	<i>S S S S</i>
		<i>0.7</i>			4					
		<i>0.7</i>			6					
		<i>9.1</i>			8				<i>5 → BROWN/TAN (GREY) GRAVELLY SANDS ROUNDED. WELL SORTED.</i>	<i>X X</i>
		<i>9.1</i>			10					<i>X X</i>
	<i>WET</i>	<i>10.7</i>	<i>Yes</i>		12					<i>X X</i>
		<i>10.7</i>			14					<i>X X</i>
		<i>3.6</i>	<i>No</i>		16				<i>→ WET @ 13'</i>	<i>X X</i>
					18				<i>STAIN @ 14'</i>	<i>X X</i>
					20				<i>NO STAIN. 19'</i>	<i>X X</i>
					22					<i>[Hatched pattern]</i>
					24					<i>[Hatched pattern]</i>
					26					<i>[Hatched pattern]</i>
					28					
					30					
					32					
					34					
					36					
					38					
					40					

Well Location Sketch:

See Attached Figure



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BORING LOG/MONITORING WELL COMPLETION DIAGRAM

Boring/Well Number: <i>AS 31</i>	Project: HSR-MJ Farms 11, 12, 13, 14-7
Date: <i>4/5/14</i>	Project Number: KMG10607
Logged By: Kris Shepherd/Ryan Zernis	Drilled By: Dakota

Elevation:	Detector: PID	Drilling Method: Hollow Stem Auger	Sampling Method: Continuous/Cuttings
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Gravel Pack: Silica Sand	Seal: Bentonite	Grout: Portland/Bentonite
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Casing Type: PVC	Diameter: 2"	Length: <i>24.5</i>	Hole Diameter: 8"	Depth to Liquid: -
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Screen Type: PVC	Slot: 0.01	Diameter: 2"	Length: <i>1.5</i>	Total Depth: <i>26</i>	Depth to Water: <i>13</i>
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Penetration Resistance	Moisture Content	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Run	Recovery	Soil/Rock Type	Lithology/Remarks	Well Completion Diagram
					0					
					2				NOT LOGGED. NOT SAMPLED	S
					4					S
					6					S
					8				- PVC STICKUP.	X
					10					X
					12					X
					14					X
					16					X
					18					X
					20					X
					22					X
					24					X
					26					X
					28					
					30					
					32					
					34					
					36					
					38					
					40					

Well Location Sketch:

See Attached Figure



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BORING LOG/MONITORING WELL COMPLETION DIAGRAM

Boring/Well Number: AS32	Project: HSR-MJ Farms 11, 12, 13, 14-7
Date: 4/5/16	Project Number: KMG10607
Logged By: Kris Shepherd/Ryan Zernis	Drilled By: Dakota

Elevation:	Detector: PID	Drilling Method: Hollow Stem Auger	Sampling Method: Continuous/Cuttings
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Gravel Pack: Silica Sand	Seal: Bentonite	Grout: Portland/Bentonite
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Casing Type: PVC	Diameter: 2"	Length: 24.5'	Hole Diameter: 8"	Depth to Liquid: -
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Screen Type: PVC	Slot: 0.01	Diameter: 2"	Length: 1.5'	Total Depth: 26'	Depth to Water: 13'
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Penetration Resistance	Moisture Content	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Run	Recovery	Soil/Rock Type	Lithology/Remarks	Well Completion Diagram
					0					
	Moist	4.7	N/D		2				0-5.5 Brown Clayey Sands	S
					4				Intermixed with gravels (rounded)	S
					6				NO O.D.C. NO STAIN	S
		3.3			8				5.5-26 gravels/sands/fines	X
					10				Well sorted. Rounded.	X
		7.9			12				Wet → 13'	X
	Wet				14				stain. 16' slight o.d.c.	X
					16				NO stain 26'	X
		382	Yes		18					X
					20					X
		521			22					X
					24					X
					26					X
					28					X
					30					X
					32					X
					34					X
					36					X
					38					X
					40					X

Well Location Sketch:

See Attached Figure



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BORING LOG/MONITORING WELL COMPLETION DIAGRAM

Boring/Well Number: AS33	Project: HSR-MJ Farms 11, 12, 13, 14-7
Date: 4/5/14	Project Number: KMG10607
Logged By: Kris Shepherd/Ryan Zernis	Drilled By: Dakota

Elevation:	Detector: PID	Drilling Method: Hollow Stem Auger	Sampling Method: Continuous/Cuttings
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Gravel Pack: Silica Sand	Seal: Bentonite	Grout: Portland/Bentonite
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Casing Type: PVC	Diameter: 2"	Length:	Hole Diameter: 8"	Depth to Liquid: -
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Screen Type: PVC	Slot: 0.01	Diameter: 2"	Length:	Total Depth:	Depth to Water:
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Penetration Resistance	Moisture Content	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Run	Recovery	Soil/Rock Type	Lithology/Remarks	Well Completion Diagram
					0					
	1.2		No		2			LL	0-5' BROWN, sandy clay.	
					4				fy-mg. NO ODOOR NO STAIN.	
	1.7				6			Grd/sw	5-26. Well graded gravels	
					8				SANDS ROUNDED.	X
	7.3				10					X
					12				WET → 13'	X
	7.9				14				Slipst STAIN @ 17' slipst	X
					16				ODOOR.	X
	100		yes		18				NO STAIN. 23	X
					20					X
	100		no		22					
					24					
					26					
					28					
					30					
					32					
					34					
					36					
					38					
					40					

Well Location Sketch:

See Attached Figure



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BORING LOG/MONITORING WELL COMPLETION DIAGRAM

Boring/Well Number: **AS34** Project: **HSR-MJ Farms 11, 12, 13, 14-7**

Date: **4/4/16** Project Number: **KMG10607**

Logged By: **Kris Shepherd/Ryan Zernis** Drilled By: **Dakota**

Elevation: Detector: **PID** Drilling Method: **Hollow Stem Auger** Sampling Method: **Continuous/Cuttings**

Gravel Pack: **Silica Sand** Seal: **Bentonite** Grout: **Portland/Bentonite**

Casing Type: **PVC** Diameter: **2"** Length: Hole Diameter: **8"** Depth to Liquid: **-**

Screen Type: **PVC** Slot: **0.01** Diameter: **2"** Length: **15** Total Depth: **26.5** Depth to Water: **13'**

Penetration Resistance	Moisture Content	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Run	Recovery	Soil/Rock Type	Lithology/Remarks	Well Completion Diagram
					0					
	Mist	0.2	NO		2			CL	0-5' Brown. Clayey. Gravely SANDS. ROUNDED. NO O.D. OR. NO STAIN.	S
					4					S
		2.4			6			Gm / Sw	5' → lg. veg. gravel SANDS. ROUNDED. NO STAIN NO O.D. OR. BROWN.	S
					8					X
					10					X
					12				Wat → 13'	X
					14				Stain → 17'	X
					16				O.D. OR → 20'	X
		3.0			18				NO O.D. OR. NO STAIN @ 23.5'	X
		0.3	Yes		20					X
		15.7			22					X
		3.9	NO		24					X
					26					X
					28					X
					30					X
					32					X
					34					X
					36					X
					38					X
					40					X

TD 26.5

Well Location Sketch:

See Attached Figure



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BORING LOG/MONITORING WELL COMPLETION DIAGRAM

Boring/Well Number: <i>AS 35</i>	Project: HSR-MJ Farms 11, 12, 13, 14-7
Date: <i>4/5/14</i>	Project Number: KMG10607
Logged By: Kris Shepherd/Ryan Zernis	Drilled By: Dakota

Elevation:	Detector: PID	Drilling Method: Hollow Stem Auger	Sampling Method: Continuous/Cuttings
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Gravel Pack: Silica Sand	Seal: Bentonite	Grout: Portland/Bentonite
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Casing Type: PVC	Diameter: 2"	Length: <i>24.5</i>	Hole Diameter: 8"	Depth to Liquid: -
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Screen Type: PVC	Slot: 0.01	Diameter: 2"	Length: <i>1.5</i>	Total Depth: <i>26'</i>	Depth to Water: <i>13</i>
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Penetration Resistance	Moisture Content	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Run	Recovery	Soil/Rock Type	Lithology/Remarks	Well Completion Diagram
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					0					
					2				<i>NOT LOGGED. NO SAMPLES</i>	
					4					
					6					
					8					
					10					
					12					
					14					
					16					
					18					
					20					
					22					
					24					
					26					
					28					
					30					
					32					
					34					
					36					
					38					
					40					

Well Location Sketch:

See Attached Figure



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BORING LOG/MONITORING WELL COMPLETION DIAGRAM

Boring/Well Number: AS 36	Project: HSR-MJ Farms 11, 12, 13, 14-7
Date: 3/16/2016	Project Number: KMG10607
Logged By: Kris Shepherd/Ryan Zernis	Drilled By: Dakota

Elevation:	Detector: PID	Drilling Method: Hollow Stem Auger	Sampling Method: Continuous/Cuttings
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Gravel Pack: Silica Sand	Seal: Bentonite	Grout: Portland/Bentonite
-----------------------------	--------------------	------------------------------

Casing Type: PVC	Diameter: 2"	Length: 24.5'	Hole Diameter: 8"	Depth to Liquid: -
---------------------	-----------------	------------------	----------------------	-----------------------

Screen Type: PVC	Slot: 0.01	Diameter: 2"	Length: 1.5'	Total Depth: 26'	Depth to Water: ~13'
---------------------	---------------	-----------------	-----------------	---------------------	-------------------------

Penetration Resistance	Moisture Content	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Run	Recovery	Soil/Rock Type	Lithology/Remarks	Well Completion Diagram
					0					
	moist		none		2				0' → 5' gravelly, clayey, fg	
		0.2			4				→ coarse sand, brown, no odor, no stain, moist	
		0.3			6				5' → fg → v. coarse sand, brown, no stain, no odor, moist	
		0.7			8				→ wet @ ~13'	
	wet	3.5	stain		10				→ stain @ ~17'	
		68.8			12				→ odor @ 20'	
		10.1			14				→ No odor & No stain @ 23.5'	
		3.1			16					
					18				→ PVC Riser	
					20	2' 2'				
					22	2' 2'				
					24	2' 2'				
					26					
					28					
					30					
					32					
					34					
					36					
					38					
					40					

2, 10,
8, 14
7, 12,
14, 19

Well Location Sketch:

See Attached Figure



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BORING LOG/MONITORING WELL COMPLETION DIAGRAM

Boring/Well Number: MW 37	Project: HSR-MJ Farms 11, 12, 13, 14-7
Date: 4/4/14	Project Number: KMG10607
Logged By: Kris Shepherd/Ryan Zernis	Drilled By: Dakota

Elevation:	Detector: PID	Drilling Method: Hollow Stem Auger	Sampling Method: Continuous/Cuttings
------------	------------------	---------------------------------------	---

Gravel Pack: Silica Sand	Seal: Bentonite	Grout: Portland/Bentonite
-----------------------------	--------------------	------------------------------

Casing Type: PVC	Diameter: 2"	Length: 24.5	Hole Diameter: 8"	Depth to Liquid: -
---------------------	-----------------	-----------------	----------------------	-----------------------

Screen Type: PVC	Slot: 0.01	Diameter: 2"	Length: 1.5	Total Depth: 26	Depth to Water: 13'
---------------------	---------------	-----------------	----------------	--------------------	------------------------

Penetration Resistance	Moisture Content	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Run	Recovery	Soil/Rock Type	Lithology/Remarks	Well Completion Diagram
					0					
					2				NOT LOGGED NOT SAMPLED	
					4					
					6					
					8					
					10					
					12					
					14					
					16					
					18					
					20					
					22					
					24					
					26					
					28					
					30					
					32					
					34					
					36					
					38					
					40					

Well Location Sketch:

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BORING LOG/MONITORING WELL COMPLETION DIAGRAM

Boring/Well Number: <i>AS 38</i>	Project: HSR-MJ Farms 11, 12, 13, 14-7
Date: <i>4/4/16</i>	Project Number: KMG10607
Logged By: Kris Shepherd/Ryan Zernis	Drilled By: Dakota

Elevation:	Detector: PID	Drilling Method: Hollow Stem Auger	Sampling Method: Continuous/Cuttings
------------	------------------	---------------------------------------	---

Gravel Pack: Silica Sand	Seal: Bentonite	Grout: Portland/Bentonite
-----------------------------	--------------------	------------------------------

Casing Type: PVC	Diameter: 2"	Length: <i>24.5</i>	Hole Diameter: 8"	Depth to Liquid: -
---------------------	-----------------	------------------------	----------------------	-----------------------

Screen Type: PVC	Slot: 0.01	Diameter: 2"	Length: <i>1.5</i>	Total Depth: <i>26</i>	Depth to Water: <i>13'</i>
---------------------	---------------	-----------------	-----------------------	---------------------------	-------------------------------

Penetration Resistance	Moisture Content	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Run	Recovery	Soil/Rock Type	Lithology/Remarks	Well Completion Diagram
------------------------	------------------	-------------	----------	----------	------------------	------------	----------	----------------	-------------------	-------------------------

					0					
					2				<i>NOT LOGGED OR SAMPLED</i>	
					4					
					6					
					8					
					10					
					12					
					14					
					16					
					18					
					20					
					22					
					24					
					26					
					28					
					30					
					32					
					34					
					36					
					38					
					40					

Well Location Sketch:

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BORING LOG/MONITORING WELL COMPLETION DIAGRAM

Boring/Well Number: AS39	Project: HSR-MJ Farms 11, 12, 13, 14-7
Date: 3/22/2015	Project Number: KMG10607
Logged By: Kris Shepherd/Ryan Zernis	Drilled By: Dakota

Elevation:	Detector: PID	Drilling Method: Hollow Stem Auger	Sampling Method: Continuous/Cuttings
------------	------------------	---------------------------------------	---

Gravel Pack: Silica Sand	Seal: Bentonite	Grout: Portland/Bentonite
-----------------------------	--------------------	------------------------------

Casing Type: PVC	Diameter: 2"	Length: 24.5'	Hole Diameter: 8"	Depth to Liquid: -
---------------------	-----------------	------------------	----------------------	-----------------------

Screen Type: PVC	Slot: 0.01	Diameter: 2"	Length: 1.5'	Total Depth: 26'	Depth to Water: -
---------------------	---------------	-----------------	-----------------	---------------------	----------------------

Penetration Resistance	Moisture Content	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Run	Recovery	Soil/Rock Type	Lithology/Remarks	Well Completion Diagram
					0					
					2				→ Not sampled, not logged	
					4					
					6					
					8					
					10					
					12					
					14					
					16					
					18					
					20					
					22					
					24					
					26					
					28					
					30					
					32					
					34					
					36					
					38					
					40					

Well Location Sketch:

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BORING LOG/MONITORING WELL COMPLETION DIAGRAM

Boring/Well Number: AS 40	Project: HSR-MJ Farms 11, 12, 13, 14-7
Date: 4/4/18	Project Number: KMG10607
Logged By: Kris Shepherd/Ryan Zernis	Drilled By: Dakota

Elevation:	Detector: PID	Drilling Method: Hollow Stem Auger	Sampling Method: Continuous/Cuttings
------------	------------------	---------------------------------------	---

Gravel Pack: Silica Sand	Seal: Bentonite	Grout: Portland/Bentonite
-----------------------------	--------------------	------------------------------

Casing Type: PVC	Diameter: 2"	Length: 24.5	Hole Diameter: 8"	Depth to Liquid: -
---------------------	-----------------	-----------------	----------------------	-----------------------

Screen Type: PVC	Slot: 0.01	Diameter: 2"	Length: 1.5	Total Depth: 26.3	Depth to Water: 13'
---------------------	---------------	-----------------	----------------	----------------------	------------------------

Penetration Resistance	Moisture Content	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Run	Recovery	Soil/Rock Type	Lithology/Remarks	Well Completion Diagram
					0					
					2				NOT SAMPLED . NOT LOGGED.	S
					4					S
					6				TD. 26.3	S
					8				- PVC RISER	X
					10					X
					12					X
					14					X
					16					X
					18					X
					20					X
					22					X
					24					X
					26					X
					28					X
					30					X
					32					X
					34					X
					36					X
					38					X
					40					X

Well Location Sketch:

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BORING LOG/MONITORING WELL COMPLETION DIAGRAM

Boring/Well Number: <i>AS 41</i>	Project: HSR-MJ Farms 11, 12, 13, 14-7
Date: <i>4/4/16</i>	Project Number: KMG10607
Logged By: Kris Shepherd/Ryan Zernis	Drilled By: Dakota

Elevation:	Detector: PID	Drilling Method: Hollow Stem Auger	Sampling Method: Continuous/Cuttings
------------	------------------	---------------------------------------	---

Gravel Pack: Silica Sand	Seal: Bentonite	Grout: Portland/Bentonite
-----------------------------	--------------------	------------------------------

Casing Type: PVC	Diameter: 2"	Length: <i>24.5</i>	Hole Diameter: 8"	Depth to Liquid: -
---------------------	-----------------	------------------------	----------------------	-----------------------

Screen Type: PVC	Slot: 0.01	Diameter: 2"	Length: <i>1.5</i>	Total Depth: <i>27</i>	Depth to Water: <i>24' 13"</i>
---------------------	---------------	-----------------	-----------------------	---------------------------	-----------------------------------

Penetration Resistance	Moisture Content	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Run	Recovery	Soil/Rock Type	Lithology/Remarks	Well Completion Diagram
------------------------	------------------	-------------	----------	----------	------------------	------------	----------	----------------	-------------------	-------------------------

					0					
					2				NOT SAMPLED NOT LOGGED.	S
					4					S
					6					X
					8				- PVC RISER.	X
					10					X
					12				- WAS OVERDRILLED TO	X
					14				27.8' BGS. BACKFILL TO	X
					16				27.0. DROP PLUG COMPLETE	X
					18				TD. 27. ALL SPECS	X
					20				FOR WELL COMPLETION REMAIN	X
					22				WITHIN SOW.	X
					24					
					26					
					28					
					30					
					32					
					34					
					36					
					38					
					40					

Well Location Sketch:

See Attached Figure



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BORING LOG/MONITORING WELL COMPLETION DIAGRAM

Boring/Well Number: AS42	Project: HSR-MJ Farms 11, 12, 13, 14-7
Date: 3/22/2016	Project Number: KMG10607
Logged By: Kris Shepherd/Ryan Zernis	Drilled By: Dakota

Elevation:	Detector: PID	Drilling Method: Hollow Stem Auger	Sampling Method: Continuous/Cuttings
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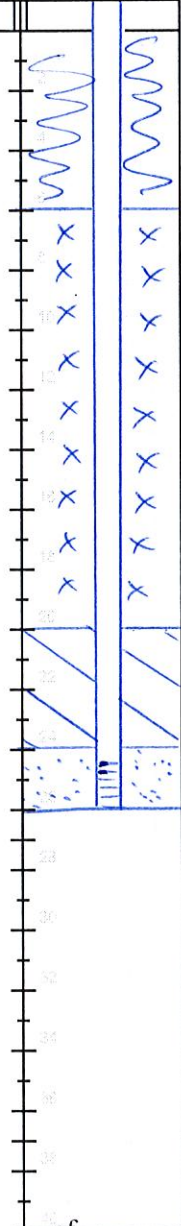
Gravel Pack: Silica Sand	Seal: Bentonite	Grout: Portland/Bentonite
-----------------------------	--------------------	------------------------------

Casing Type: PVC	Diameter: 2"	Length: 24.5'	Hole Diameter: 8"	Depth to Liquid: -
---------------------	-----------------	------------------	----------------------	-----------------------

Screen Type: PVC	Slot: 0.01	Diameter: 2"	Length: 1.5'	Total Depth: 26'	Depth to Water: -
---------------------	---------------	-----------------	-----------------	---------------------	----------------------

Penetration Resistance	Moisture Content	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Run	Recovery	Soil/Rock Type	Lithology/Remarks	Well Completion Diagram
------------------------	------------------	-------------	----------	----------	------------------	------------	----------	----------------	-------------------	-------------------------

					0					
					2				→ Not sampled, not logged	
					4					
					6					
					8				→ PVC Riser	
					10					
					12					
					14					
					16					
					18					
					20					
					22					
					24					
					26					
					28					
					30					
					32					
					34					
					36					
					38					
					40					



Well Location Sketch:

See Attached Figure



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BORING LOG/MONITORING WELL COMPLETION DIAGRAM

Boring/Well Number: AS43	Project: HSR-MJ Farms 11, 12, 13, 14-7
Date: 3/21/2016	Project Number: KMG10607
Logged By: Kris Shepherd/Ryan Zernis	Drilled By: Dakota

Elevation:	Detector: PID	Drilling Method: Hollow Stem Auger	Sampling Method: Continuous/Cuttings
------------	------------------	---------------------------------------	---

Gravel Pack: Silica Sand	Seal: Bentonite	Grout: Portland/Bentonite
-----------------------------	--------------------	------------------------------

Casing Type: PVC	Diameter: 2"	Length:	Hole Diameter: 8"	Depth to Liquid: -
---------------------	-----------------	---------	----------------------	-----------------------

Screen Type: PVC	Slot: 0.01	Diameter: 2"	Length:	Total Depth:	Depth to Water:
---------------------	---------------	-----------------	---------	--------------	-----------------

Penetration Resistance	Moisture Content	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Run	Recovery	Soil/Rock Type	Lithology/Remarks	Well Completion Diagram
------------------------	------------------	-------------	----------	----------	------------------	------------	----------	----------------	-------------------	-------------------------

					0					
					2				Not sampled, not logged	
					4				→ PVC Risers	
					6					
					8					
					10					
					12					
					14					
					16					
					18					
					20					
					22					
					24					
					26					
					28					
					30					
					32					
					34					
					36					
					38					
					40					

Well Location Sketch:

See Attached Figure

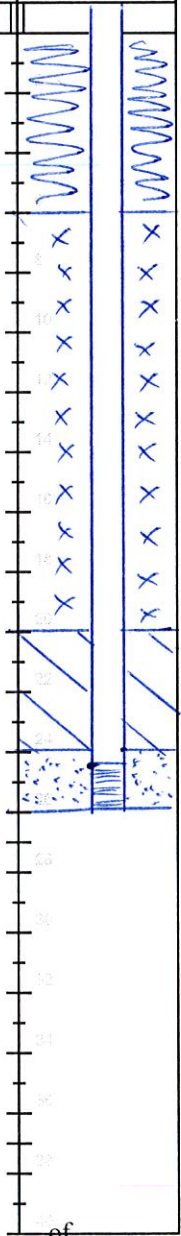


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BORING LOG/MONITORING WELL COMPLETION DIAGRAM

Boring Well Number: AS44	Project: HSR-MJ Farms 11, 12, 13, 14-7
Date: 3/21/2016	Project Number: KMG10607
Logged By: Kris Shepherd/Ryan Zernis	Drilled By: Dakota
Elevation:	Detector: PID
Drilling Method: Hollow Stem Auger	Sampling Method: Continuous/Cuttings
Gravel Pack: Silica Sand	Seal: Bentonite
Casing Type: PVC	Grout: Portland/Bentonite
Screen Type: PVC	Slot: 0.01
Diameter: 2"	Length: 24.5'
Diameter: 2"	Length: 1.5'
Hole Diameter: 8"	Depth to Liquid: -
Total Depth: 26'	Depth to Water: N/A

Penetration Resistance	Moisture Content	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Run	Recovery	Soil/Rock Type	Lithology/Remarks	Well Completion Diagram
					0					
					2				Not sampled, not logged	
					4					
					6				→ PVC Riser	
					8					
					10					
					12					
					14					
					16					
					18					
					20					
					22					
					24					
					26					
					28					
					30					
					32					
					34					
					36					
					38					
					40					



Well Location Sketch:

See Attached Figure



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BORING LOG/MONITORING WELL COMPLETION DIAGRAM

Boring/Well Number: AS45	Project: HSR-MJ Farms 11, 12, 13, 14-7
Date: 3/21/2016	Project Number: KMG10607
Logged By: Kris Shepherd/Ryan Zernis	Drilled By: Dakota

Elevation:	Detector: PID	Drilling Method: Hollow Stem Auger	Sampling Method: Continuous/Cuttings
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Gravel Pack: Silica Sand	Seal: Bentonite	Grout: Portland/Bentonite
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Casing Type: PVC	Diameter: 2"	Length: 24.5'	Hole Diameter: 8"	Depth to Liquid: -
---------------------	-----------------	------------------	----------------------	-----------------------

Screen Type: PVC	Slot: 0.01	Diameter: 2"	Length: 1.5'	Total Depth: 26'	Depth to Water: ~13'
---------------------	---------------	-----------------	-----------------	---------------------	-------------------------

Penetration Resistance	Moisture Content	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Run	Recovery	Soil/Rock Type	Lithology/Remarks	Well Completion Diagram
					0					
	Moist		Noise		2				0' → 5' gravelly, clayey, fg → coarse sand, brown, no odor, no stain, moist	
		10.6			4					
					6				5' → fg → v. coarse sand, brown, no odor, no stain, moist	
		7.3			8				→ gray stain @ ~9'	
					10				→ odor + wet @ ~13'	
		98.8			12					
					14					
		421			16				→ PVC Riser	
					18					
		2106			20					
					22					
		1391			24					
					26					
					28					
					30					
					32					
					34					
					36					
					38					
					40					

Well Location Sketch:

See Attached Figure



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BORING LOG/MONITORING WELL COMPLETION DIAGRAM

Boring/Well Number: AS46	Project: HSR-MJ Farms 11, 12, 13, 14-7
Date: 3/15/2016	Project Number: KMG10607
Logged By: Kris Shepherd/Ryan Zernis	Drilled By: Dakota

Elevation:	Detector: PID	Drilling Method: Hollow Stem Auger	Sampling Method: Continuous/Cuttings
------------	------------------	---------------------------------------	---

Gravel Pack: Silica Sand	Seal: Bentonite	Grout: Portland/Bentonite
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Casing Type: PVC	Diameter: 2"	Length: 25.5'	Hole Diameter: 8"	Depth to Liquid: -
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Screen Type: PVC	Slot: 0.01	Diameter: 2"	Length: 1.5'	Total Depth: 27'	Depth to Water: ~13'
---------------------	---------------	-----------------	-----------------	---------------------	-------------------------

Penetration Resistance	Moisture Content	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Run	Recovery	Soil/Rock Type	Lithology/Remarks	Well Completion Diagram
					0					
	moist		none		2				0' → 6' clayey fg → coarse sands, brown, no odor, no stain, wet - odor & staining @ ~ 4' 6' → 27' fg → v. coarse sand, grey stain, odor, moist - wet @ ~ 13' → PVC Riser	
		10.3	↓ stain		4					
		28.7			6					
		14.9			8					
	wet				10					
		2105			12					
					14					
		1602			16					
					18					
		2014			20					
					22					
					24					
					26					
					28					
					30					
					32					
					34					
					36					
					38					
					40					

Well Location Sketch:



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BORING LOG/MONITORING WELL COMPLETION DIAGRAM

Boring/Well Number: M1002R	Project: MJ Farms
Date: 3/17/2016	Project Number: KMG10607
Logged By: Kris Shepherd	Drilled By: Dakota

Elevation:	Detector: PID	Drilling Method: Direct Push	Sampling Method: Continuous
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Gravel Pack: Silica Sand	Seal: Bentonite	Grout: -
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Casing Type: PVC	Diameter: 1"	Length: 10'	Hole Diameter: 8"	Depth to Liquid: -
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Screen Type: PVC	Slot: 0.01	Diameter: 1"	Length: 10'	Total Depth: 20'	Depth to Water: ~14'
-------------------------	-------------------	---------------------	--------------------	-------------------------	-----------------------------

Penetration Resistance	Moisture Content	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Run	Recovery	Soil/Rock Type	Lithology/Remarks	Well Completion Diagram
					0					
					2				Hand Auger, Not Logged	
					4					
					6					
	Moist ↓	6.2	Stain ↓		8	2' 2'			6' → v. coarse sand, gray stain, odor, moist	
		1.4			10	4' 4'			→ wet @ 14'	
		1.7			12				→ stain changes to black @ ~15'	
	Wet ↓	10.6			14	4' 4'		SW	→ Flush mount	
		717			16				→ failure setting well 3/17/2016	
		1043			18	4' 4'			→ overdrill w/ 8" HA on 3/22/2016, 1" well set. @ 20'	
		1041			20					
					22					
					24					
					26					
					28					
					30					
					32					
					34					
					36					
					38					
					40					

Well Location Sketch:



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BORING LOG/MONITORING WELL COMPLETION DIAGRAM

Boring/Well Number: MW47	Project: MJ Farms
Date: 3/17/16	Project Number: KMG10607
Logged By: Kris Shepherd	Drilled By: Dakota
Elevation:	Drilling Method: Direct Push
Detector: PID	Sampling Method: Continuous
Gravel Pack: Silica Sand	Seal: Bentonite
Casing Type: PVC	Diameter: 1"
Screen Type: PVC	Slot: 0.01
Diameter: 1"	Length: 10'
Hole Diameter: 3"	Depth to Liquid: -
Total Depth: 20'	Depth to Water: ~14'

See site figure

Penetration Resistance	Moisture Content	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Run	Recovery	Soil/Rock Type	Lithology/Remarks	Well Completion Diagram
					0					
					2				Hand Auger, Not Logged	
					4					
					6					
	Moist	5.1	none		8	2'	2'		6' → fg → v. coarse sand no odor, no stain, moist, tan → stain (gray) & odor @ ~9' → wet @ ~14' → stain + odor ends @ 15' tan → flush mount	
		7.6	stain		10	4'	4'			
		5.3			12					
	Wet	1.4			14	4'	4'	SW		
		2.0	none		16					
		4.0			18	4'	4'			
		3.7			20					
					22					
					24					
					26					
					28					
					30					
					32					
					34					
					36					
					38					
					40					

Well Location Sketch:



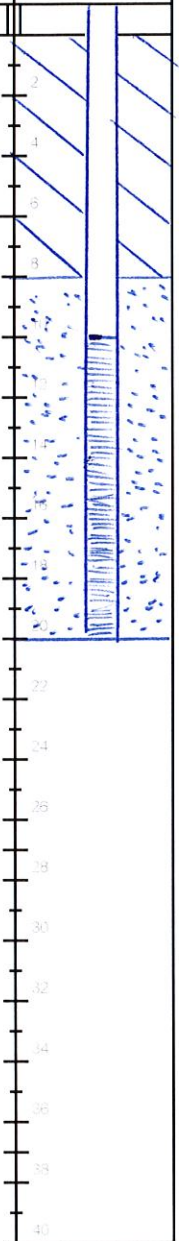
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BORING LOG/MONITORING WELL COMPLETION DIAGRAM

see site figure

Boring/Well Number: MW48		Project: MJ Farms	
Date: 3/17/2016		Project Number: KMG10607	
Logged By: Kris Shepherd		Drilled By: Dakota	
Elevation:	Detector: PID	Drilling Method: Direct Push	Sampling Method: Continuous
Gravel Pack: Silica Sand		Seal: Bentonite	Grout: -
Casing Type: PVC	Diameter: 1"	Length: 10'	Hole Diameter: 8" Depth to Liquid: -
Screen Type: PVC	Slot: 0.01	Diameter: 1"	Length: 10' Total Depth: 20' Depth to Water: ~14'

Penetration Resistance	Moisture Content	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Run	Recovery	Soil/Rock Type	Lithology/Remarks	Well Completion Diagram
					0					
					2				Hand Auger, Not Logged	
					4					
					6					
	moist ↓ wet ↓	1.5 0.5 0.8 2 1.2 3.3	none ↓		8	2'	2'		6' → 20' fg → v. coarse sand, brown/tan, no stain, no odor, moist → No recovery 12' → 16' → wet ~14' → flush mound → failure setting well on 3/17/2016, → overdrill hole w/ 8" HSA on 3/22/2016, 1" well set @ 20'	
					10	4'	4'			
					12					
					14	4'	2'	SW		
					16					
					18					
					20	4'	4'			
					22					
					24					
					26					
					28					
					30					
					32					
					34					
					36					
					38					
					40					



Well Location Sketch:

see site figure



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BORING LOG/MONITORING WELL COMPLETION DIAGRAM

Boring/Well Number: <i>MW49</i>	Project: MJ Farms				
Date: <i>3/22/2016</i>	Project Number: KMG10607				
Logged By: Kris Shepherd	Drilled By: Dakota				
Elevation:	Detector: PID				
Drilling Method: Direct Push	Sampling Method: Continuous				
Gravel Pack: Silica Sand	Seal: Bentonite				
Casing Type: PVC	Diameter: 2"	Length: 10'	Hole Diameter: 8"	Depth to Liquid: -	
Screen Type: PVC	Slot: 0.01	Diameter: 2"	Length: 10'	Total Depth: 20'	Depth to Water: ~13'

Penetration Resistance	Moisture Content	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Run	Recovery	Soil/Rock Type	Lithology/Remarks	Well Completion Diagram
					0					
					2				Hand Auger, Not Logged	
					4					
					6					
10,10 7,7	Moist ↓	1.3	None ↓		8	2'	2'	6' → 20' fg → v. coarse sand, tan to brown, no odor, no stain, moist → wet @ ~13' → flush mount		
11,7		1.5			10	2'	2'			
13,16		1.0			12	2'	2'			
15,17		1.1			14	2'	2'			
17,19		1.5			16	2'	1'			
12,20	wet ↓	1.1			18	2'	1'			
22,24		1.0			20	2'	2'			
10,14, 14,18		1.5			22					
7,18		1.0			24					
14,23		1.1			26					
12,14, 16,22					28					
					30					
					32					
					34					
					36					
					38					
					40					

Well Location Sketch:

see site figure



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LT Environmental, Inc.
 4600 W. 60th Avenue
 Arvada, Colorado 80003

BORING LOG/MONITORING WELL COMPLETION DIAGRAM

Boring/Well Number: <i>MW50</i>	Project: MJ Farms
Date:	Project Number: KMG10607
Logged By: Kris Shepherd	Drilled By: Dakota
Drilling Method: Direct Push	Sampling Method: Continuous
Gravel Pack: Silica Sand	Seal: Bentonite
Casing Type: PVC	Diameter: <i>2"</i> Length: <i>10'</i>
Screen Type: PVC	Slot: <i>0.01</i> Diameter: <i>2"</i> Length: <i>10'</i>
	Hole Diameter: <i>8"</i> Depth to Liquid: -
	Total Depth: <i>20'</i> Depth to Water: <i>~13'</i>

Penetration Resistance	Moisture Content	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Run	Recovery	Soil/Rock Type	Lithology/Remarks	Well Completion Diagram
					0					
					2				Hand Auger, Not Logged	
					4					
					6					
<i>8, 8</i>	<i>Moist</i>	<i>1.5</i>	<i>none</i>		<i>8</i>	<i>2'</i>	<i>2'</i>		<i>6' → 20' fg → v. coarse sand, brown to tan, moist, no oclor, no stain</i> <i>→ wet @ ~13'</i> <i>→ gray stain @ ~17'</i> <i>→ flush mount</i>	
<i>9, 9</i>	↓		↓		<i>10</i>	<i>2'</i>	<i>2'</i>			
<i>8, 20</i>		<i>1.2</i>			<i>12</i>	<i>2'</i>	<i>2'</i>			
<i>30, 30</i>		<i>1.0</i>			<i>14</i>	<i>2'</i>	<i>2'</i>			
<i>11, 25</i>		<i>1.0</i>			<i>16</i>	<i>2'</i>	<i>2'</i>			
<i>25, 30</i>	↓				<i>18</i>	<i>2'</i>	<i>2'</i>			
<i>16, 29</i>	<i>wet</i>	<i>1.9</i>			<i>20</i>	<i>2'</i>	<i>2'</i>			
<i>35, 40</i>	↓									
<i>9, 15</i>		<i>0.6</i>								
<i>23, 27</i>		<i>0.6</i>								
<i>4, 22</i>		<i>1.0</i>	<i>stain</i>							
<i>35, 40</i>	↓		↓							
<i>14, 20</i>		<i>0.6</i>								
<i>22, 20</i>	↓		↓							
					22					
					24					
					26					
					28					
					30					
					32					
					34					
					36					
					38					
					40					

Well Location Sketch:



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4600 W. 60th Avenue

Arvada, Colorado 80003

BORING LOG/MONITORING WELL COMPLETION DIAGRAM

Boring/Well Number: <i>MWS1</i>	Project: MJ Farms
Date: <i>3/22/2016</i>	Project Number: KMG10607
Logged By: Kris Shepherd	Drilled By: Dakota
Elevation:	Drilling Method: Direct Push
Detector: PID	Sampling Method: Continuous
Gravel Pack: Silica Sand	Seal: Bentonite
Casing Type: PVC	Grout: -
Screen Type: PVC	Diameter: 2"
Slot: 0.01	Length: 10'
	Hole Diameter: 8"
	Depth to Liquid: -
	Diameter: 2"
	Length: 10'
	Total Depth: 20'
	Depth to Water:

see site figure

Penetration Resistance	Moisture Content	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Run	Recovery	Soil/Rock Type	Lithology/Remarks	Well Completion Diagram
					0					
					2				Hand Auger, Not Logged	
					4					
					6					
4,3	moist	2.2	none		8	2' 2'			<i>6' → 20' fg → v. coarse sand, brown to tan, no odor, no stain, moist</i> <i>→ wet @ ~13'</i> <i>→ flush mount</i>	
3,5					10	2' 2'				
4,8		1.6			12	2' 2'				
11,15		2.0			14	2' 2'				
8,20		1.2			16	2' 2'				
25,25	wet	1.6			18	2' 2'				
16,22		1.6			20	2' 2'				
30,35		1.3			22					
16,22		1.7			24					
37,33					26					
20,30					28					
30,34					30					
15,20					32					
33,39					34					
					36					
					38					
					40					