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May 10, 2022

Pat Tolman, Vice President Row Crop Operations
AgReserves, Inc.
6716 W Rio Grande Ave
Kennewick, Washington 99336

**SUBJECT: Monitoring Well Completion Report for AgReserves River Point Farms
Onion Processing Facility, Plymouth, Washington**

Dear Mr. Tolman:

The construction of 6 monitoring wells (well/wells) was completed for the AgReserves, Inc (AgReserves) River Point Farms (RPF) Onion Processing Facility process wastewater land treatment system in January 2022. The purpose of this report is to summarize the activities and provide supporting documentation on the well installations for RPF and the State of Washington Department of Ecology (Ecology).

Background

AgReserves RPF operates a process wastewater land treatment system near Plymouth, Washington (Figure 1). The land treatment site consists of 3 center-pivot irrigated agricultural fields identified as fields 124, 125, and 138 (Figure 2). The land treatment system is permitted under State Waste Discharge Permit Number ST0501336.¹

Field Work

Mr. Robert Kane, Valley Science and Engineering (Valley) staff geologist, observed the drilling, construction, and development of 6 groundwater monitoring wells as proposed in the Land Treatment System Engineering Report.²

Field work was completed during January 17 through January 28, 2022. Yellow Jacket Drilling (YJD), a Washington-licensed well driller, drilled 6 borings using a TSi 150cc sonic drill rig and constructed 6 wells. The wells were drilled in the following order: MW-3, MW-5, MW-4, MW-6, MW-1, and MW-2 (Figure 2). In addition, all wells were developed by YJD.

During development of MW-1, YJD encountered limited access down well. Inspection with down well camera identified that the MW-1 had been damaged during construction. This original MW-1 was properly abandoned by YJD and labeled as MW-1A. A new well was drilled within 10 feet (ft) of the original borehole and labeled as MW-1.

¹ State of Washington Department of Ecology. (2021). State waste discharge permit number ST0501336. Union Gap, WA: Author.

² Cascade Earth Sciences. (2021). *Land treatment system engineering report - revised - River Point Farms Onion processing facility - AgReserves, Inc. - Plymouth, Washington*. Spokane Valley, WA: Author.

All wells were constructed within the upper 25 ft of saturated alluvium. Geologic conditions, well construction, well abandonment, and wellhead surveys are documented below.

Geologic Conditions

Valley logged the subsurface conditions of the borings by inspecting cuttings returned during drilling (Appendix A). Boring depths ranged from 145 ft below ground surface (bgs) in MW-3 to 40 ft bgs in MW-1. All borings were advanced through well graded, fine to coarse, well-rounded silty gravel and cobbles. Two of the borings, for MW-1 and MW-4, were terminated in dry, weakly consolidated conglomerate beds. All 6 borings penetrated a water table aquifer with static water levels between 271.57 and 278.51 feet above mean sea level.

Well Construction

The wells were drilled in accordance with Washington Administration Code (WAC) 173-160-381 and Chapter 18.104 Revised Code of Washington (RCW).^{3,4} The well construction diagrams are included in Appendix B.

Each well was constructed of 2-inch diameter Schedule 40 polyvinyl chloride (PVC) threaded casing and 15 ft of 0.010-inch machine slot PVC screen. Filter packs were installed to 2 ft above the screens using 20/40 U.S. sieve size rounded and washed silica sand. Well seals were installed using 3/8-inch bentonite chips that were placed from the top of the filter pack to 2 ft bgs. The chips were hydrated with potable water approximately every 2 ft. A concrete seal was placed above the bentonite to form a pad around each well. The above ground monument consists of a 6-inch diameter by 5-ft length steel casing painted yellow that was placed over the PVC casing and set about 2 ft below ground into the concrete. Three protective posts (i.e., bollards) were set in concrete around each well.

Following well construction, all 6 wells were developed by YJD by surging and purging using a bailer to remove well cuttings and fine sediment. Following bailing, a 12-volt submersible pump was used to purge the wells until no sediment was visible and continued for an additional hour.

Well Decommissioning

Well MW-1A was abandoned shortly after construction in accordance with Washington Administration Code (WAC) 173-160-381 and Chapter 18.104 RCW.^{3,4} A break in the PVC casing at approximately 78 ft below top of casing prevented the insertion of pumps or bailers into the well, rendering it unusable. MW-1A was abandoned and MW-1 was drilled and constructed approximately 10 ft from MW-1A as an upgradient well for field 138.

The abandonment procedure involved placing 3/8-inch hydrating bentonite chips inside the 2-inch diameter PVC casing, removing the protective steel casing, cutting the PVC casing approximately 3

³ Minimum Standards for Construction and Maintenance of Wells, 173 WAC § 160.381. (2020).

⁴ Water Well Construction, 18 RCW § 104. (2020).

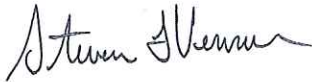
ft bgs, and filling the remaining hole with native soil. The Resource Protection Well Report for decommissioning MW-1A is included in Appendix C.

Well Head Survey

Following the surface completion and development of all wells, a survey was performed on all well heads. The client provided a surveyor to record the well pad elevation, top of casing elevation, and the horizontal location of each well (Table 1).

If you have any questions, please call Robert Kane, Staff Geologist, with Valley at (208) 244-2826.

VALLEY SCIENCE AND ENGINEERING



Steven L Venner,
Managing Scientist

RAK/fec

Att: Table 1, Figures 1-2, Appendices A-C

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TABLE

Table 1. Monitoring Well Construction Details

Table 1. Monitoring Well Construction Details

Well Tag ID	Client Well ID	Geodetic Coordinates ¹		Washington State Plane Coordinates ¹		Top-of-Casing Elevation ²	Land Surface Elevation ³	Ground-water Elevation	Well Stickup	Concrete Seal Depth	Bentonite Seal Depth	Top of Screen	Static Water Level ⁴	Well Depth	Screen Length
		Latitude	Longitude	Northing	Easting										
BLX 910	MW-1	45.938180°	-119.397878°	1920814.40	222534.80	366.24	363.57	276.24	2.67	2	95	97	87.33	112	15
BLX 909	MW-2	45.931324°	-119.401373°	1919953.67	220016.22	303.76	301.57	273.76	2.19	2	23	25	27.81	40	15
BLX 989	MW-3	45.942125°	-119.411791°	1917259.92	223918.22	405.56	403.08	280.56	2.48	2	128	130	122.52	145	15
BLX 983	MW-4	45.938189°	-119.414300°	1916639.72	222464.95	382.45	380.20	277.54	2.25	2	98	100	102.66	115	15
BLX 990	MW-5	45.941981°	-119.405182°	1918944.86	223889.01	400.85	398.46	280.90	2.40	2	118	120	117.55	135	15
BLX 988	MW-6	45.938254°	-119.408419°	1918110.03	222520.68	384.22	381.50	276.72	2.72	2	108	110	104.78	125	15

NOTES:

Monitoring wells were constructed with 2-inch diameter PVC casings in 6-inch diameter boreholes during January 17-28, 2022. Monitoring well vertical elevation and horizontal location survey was conducted by AgReserves (owner) on all wells on January 20, 2022, and on MW-1 on February 22, 2022.

1 The latitude/longitude coordinates and northing/easting horizontal coordinates based on Geodetic Coordinates 1983 North American Datum (NAD83) and in Projected Coordinate System NAD 1983 (2011) State Plane Washington South FIPS 4602 (US Feet) Stations.

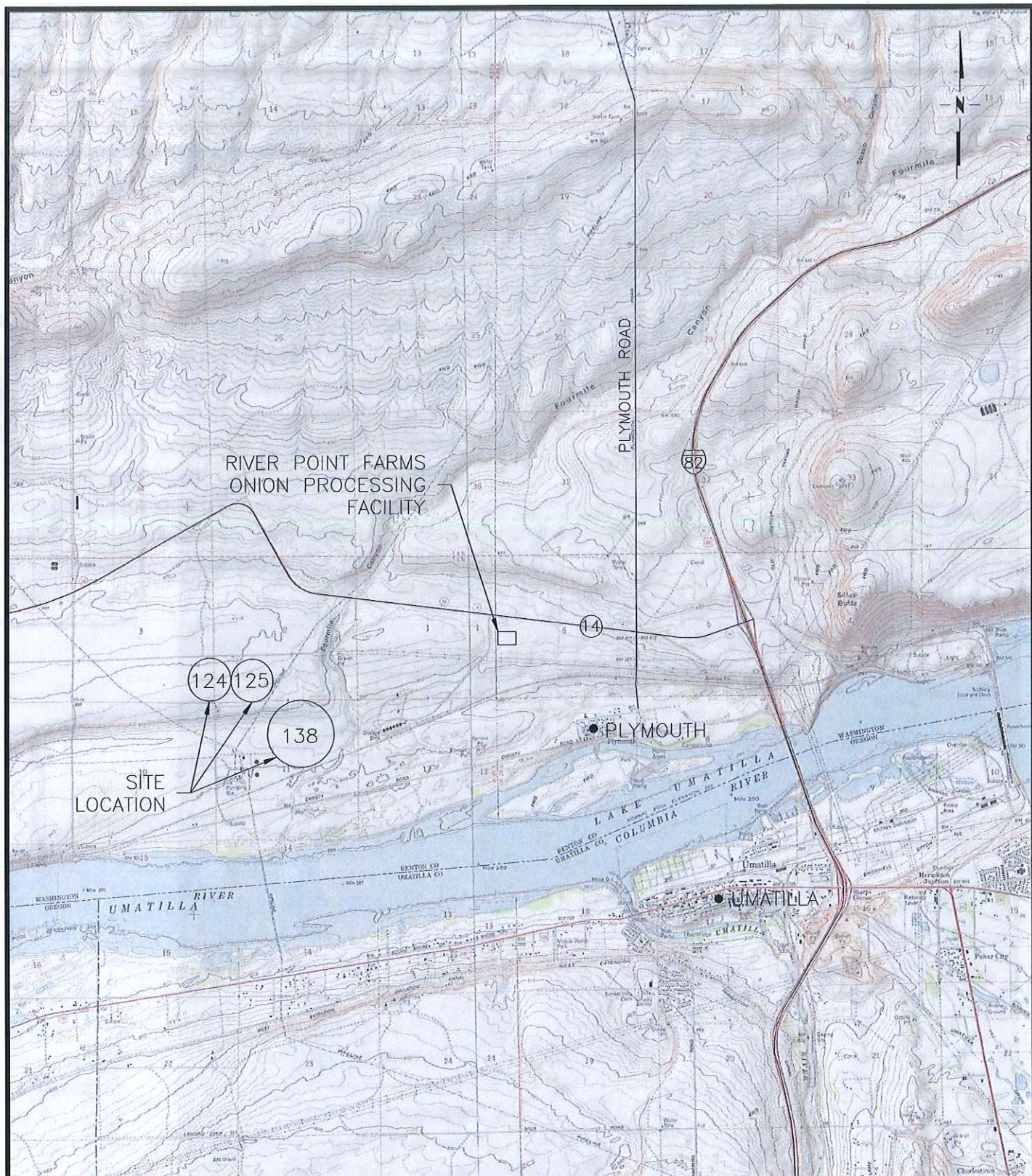
2 Measurement of top-of-casing (inner PVC) vertical elevation is accurate to 0.01 feet, and based on North American Vertical Datum (NAVD88).

3 Measurement of land surface elevation, represented by the top of the concrete well pad, is accurate to 0.1 feet, and based on North American Vertical Datum (NAVD88).

4 Depth to groundwater measured in January 2022.

FIGURES

Figure 1. Site Location Map
Figure 2. Site Detail



EXPLANATION:

124 PROCESS WASTEWATER
 LAND TREATMENT FIELDS
 0 5,000'
 1"=5,000'

(SCALE AND LOCATIONS ARE APPROXIMATE)
 (SOURCE: ©2013 National Geographic Society, i-cubed)

Figure 1. Site Location Map

PROJECT 2021210026
 NUMBER:
 DATE: 2/28/2022
 DWG NO:
 2021210026 F1-2.DWG
 DWG BY: PROJECT MANAGER:
 6NSG 6SLV
 REVISED:

Monitoring Well Completion Report

AgReserves, Inc.
 Plymouth, Washington

VALLEY  SCIENCE AND ENGINEERING



EXPLANATION:

(124) PROCESS WASTEWATER
LAND TREATMENT FIELDS

● MW-1 MONITORING WELL



(SCALE AND LOCATIONS ARE APPROXIMATE)

Figure 2. Site Detail

PROJECT NUMBER: 2021210026	Monitoring Well Completion Report
DATE: 2/28/2022	
DWG NO: 2021210026 F1-2.DWG	AgReserves, Inc.
DWG BY: PROJECT MANAGER	Plymouth, Washington
6NSG 6SLV	
REVISED:	



APPENDICES

Appendix A.	Geologic Logs
Appendix B.	Well Construction Diagrams
Appendix C.	Resource Protection Well Report Decommissioning

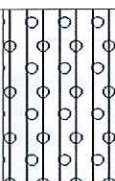


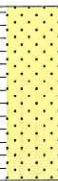
Appendix A.
Geologic Logs

Depth (ft)	Lithology/ Map Symbol	Sample No.	Description	Well Construction
-5				Concrete (No. 1101, Quickrete)
0	ML	1	SILT, 10YR 3/4 Dark yellowish brown. Damp organic topsoil 0-1ft followed by inorganic silts to 5ft.	Top Cap
5				(in)
10		2		
15				
20	GM	3	WELL-GRADED GRAVEL WITH SILT, 10YR 6/2 Light brownish grey. Dry, well rounded, fine gravels with fine silts. >50% of clast larger than a #4 sieve.	
25				
30		4		
35				
40	SM	5	GRADED SANDS, 10YR 4/4 Dark yellowish brown. Damp, well sorted to poorly sorted sands. 35-40 ft bgs, WELL-GRADED SAND WITH SILT, silty sand with no clasts larger than a #4 sieve. 40-44 ft bgs, POORLY GRADED SAND, clean sorted sand with <5% silts. 44-45 ft bgs, WELL-GRADED SAND, well graded sands with low silts and fine gravels up to 10mm.	
45	SP			
50	SW			
55	SP	6	POORLY GRADED SAND, 10YR 6/2 Light brownish grey. Damp, well sorted sand with no gravels or silts. 45-52, 25mm lenses of slit in clean coarse sands.	Bentonite (3/8", Haliburton)
60				
65		7	SILTY GRAVEL, 10YR 6/2 Light brownish grey. Dry, well rounded, fine gravels with fine silts. >50% of clast larger than a #4 sieve. Weakly consolidated silty gravel 55-57, weak restrictive layer.	
70				
75	GM	8	SILTY GRAVEL, 10YR 6/2 Light brownish grey. Dry, well rounded, fine gravels with fine silts. >50% of clast larger than a #4 sieve.	
80				
85		9		
90	SM	10	WELL GRADED SAND WITH SILT AND GRAVEL, 10YR 6/2 Light brownish grey. Moist, well rounded, fine gravels with fine silts and sands. >50% of clast larger than a #4 sieve. Water detected at 87 ft bgs.	87.3
95				
100	GM		SILTY GRAVEL, 10YR 6/2 Light brownish grey. Moist, well rounded, fine gravels with fine silts. >50% of clast larger than a #4 sieve.	Sand (#20/40) SCH 40 PVC 10 Slot PVC

River Point Farms
River Point Farms Onion
Processing Facility
NW of field 138

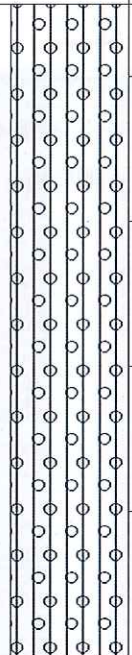
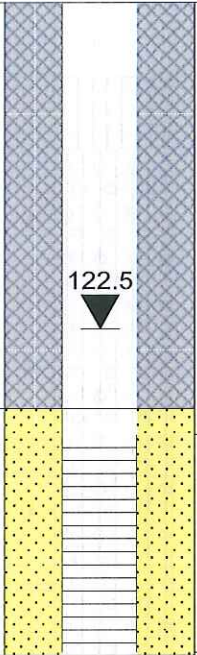
Project #: 2021210026
Northing: 222534.79882
Easting: 1920814.40112
Drill Method: Sonic Drill

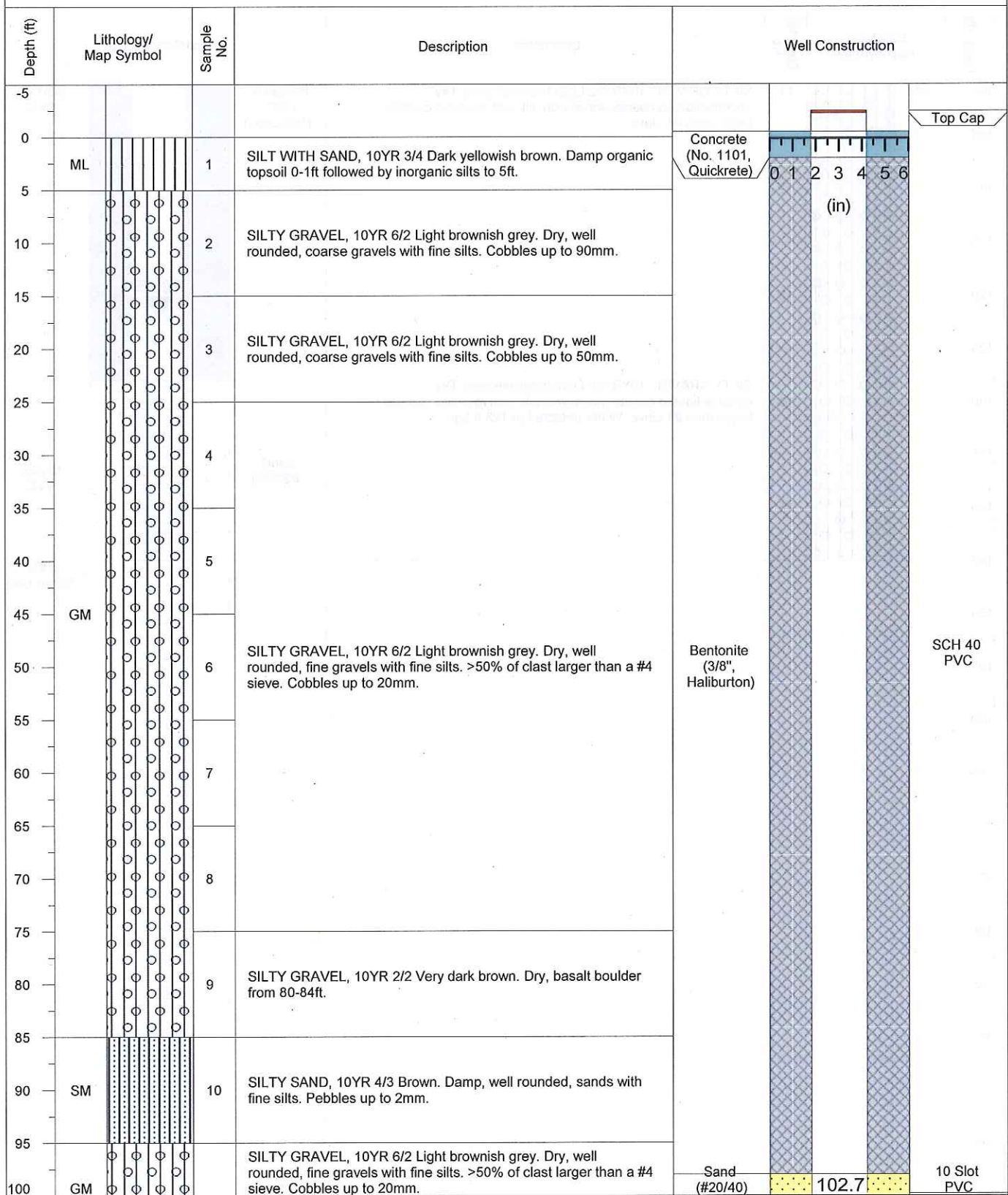
Boring No: MW-1
Logged By: Robert Kane
Checked By: Steve Venner
Drilled: 02/15 - 02/16

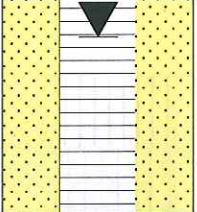

Depth (ft)	Lithology/ Map Symbol	Sample No.	Description	Well Construction
100	GM 	11	SILTY GRAVEL, 10YR 6/2 Light brownish grey. Moist, well rounded, fine gravels with fine silts. >50% of clast larger than a #4 sieve.	<div> <div>Sand (#20/40) </div> <div></div> <div></div> </div>
105				
110				
115				
120				
125				<div>PVC Screw Cap</div>
130				
135				
140				
145				
150				
155				
160				
165				
170				
175				
180				
185				
190				
195				
200				

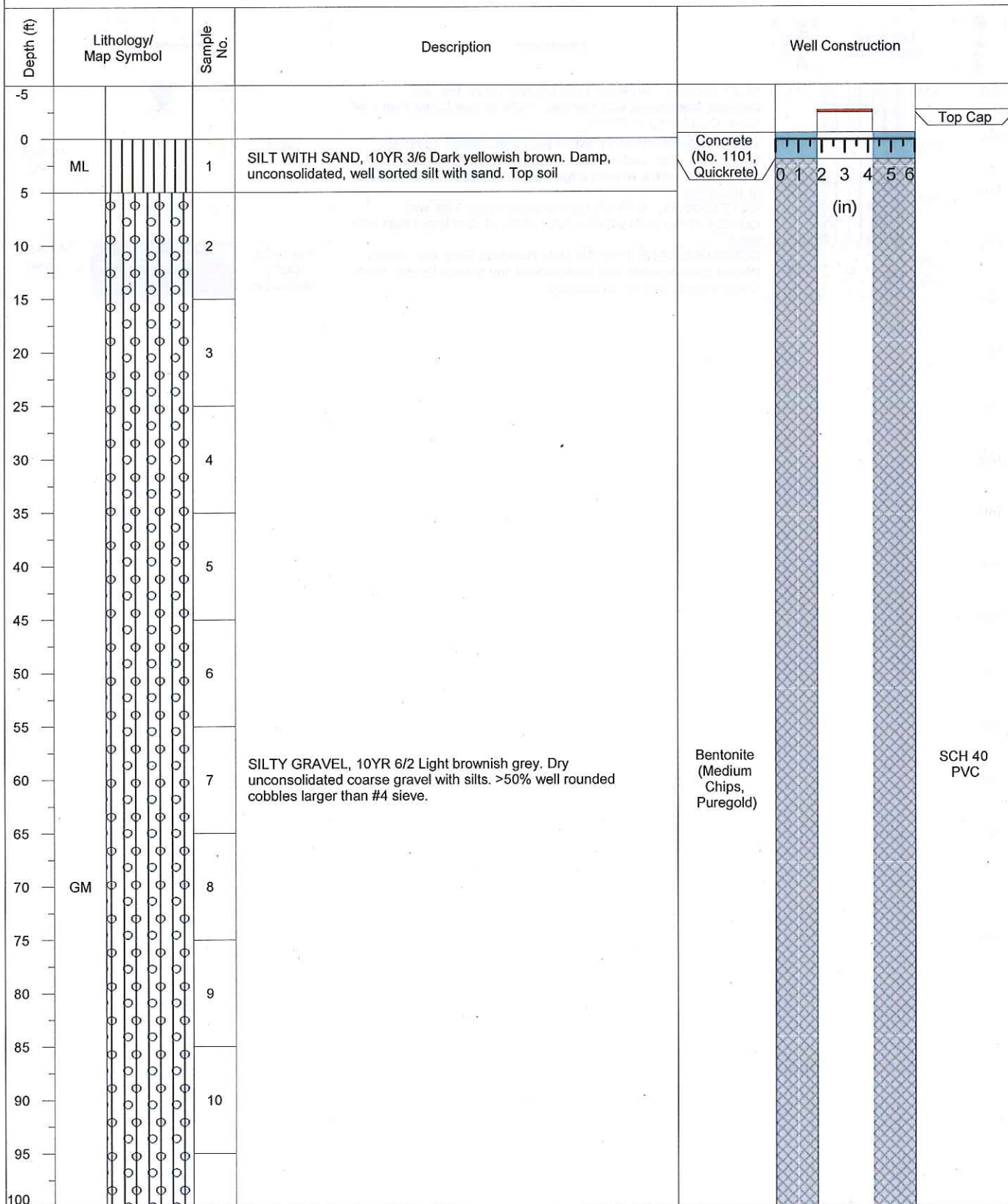
Depth (ft)	Lithology/ Map Symbol	Sample No.	Description	Well Construction		
-5						Top Cap
0	ML	1	SANDY SILT, 10YR 3/4 Dark yellowish brown. Damp organic topsoil 0-1ft followed by inorganic silty sand to 5ft.	Concrete (No. 1101, Quickrete)	0 1 2 3 4 5 6	
5	SP		POORLY GRADED SAND, 10YR 6/2 Light brownish grey. Dry, well rounded, coarse, well sorted sands		(in)	
10	GM	2		Bentonite (3/8", Haliburton)		SCH 40 PVC
15			SILTY GRAVEL, 10YR 6/2 Light brownish grey. Dry, well rounded, fine gravels with fine silts. >50% of clast larger than a #4 sieve.			
20		3				
25					27.8	
30		4	SILTY GRAVEL, 10YR 6/2 Light brownish grey. Wet, well rounded, fine gravels with fine silts. >50% of clast larger than a #4 sieve. Water detected at 28 ft bgs	Sand (#20/40)		10 Slot PVC
35	SM		SAND, 10YR 4/4 Dark yellowish brown. Well sorted to poorly sorted sands. 35-40, SM, wet silty sand with no clasts larger than a #4 sieve.			
40	GC	5	CLAYEY GRAVEL, 10YR 6/2 Light brownish grey. Dry clayey aquitard followed by dry silty to clayey rock flour gravels.	Bentonite (3/8", Haliburton)		Stainless Steel
45						
50						
55						
60						
65						
70						
75						
80						
85						
90						
95						
100						

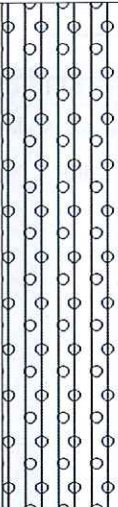

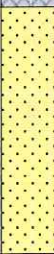
Depth (ft)	Lithology/ Map Symbol	Sample No.	Description	Well Construction	
-5					Top Cap
0		1	SILTY GRAVEL, 10YR 3/4 Dark yellowish brown. Damp, unconsolidated, silty, well rounded cobbles larger than #4 sieve. Road mix replaced topsoil.	Concrete (No. 1101, Quickrete)	0 1 2 3 4 5 6
5					(in)
10	GM	2	SILTY GRAVEL, 10YR 6/2 Light brownish grey. Dry unconsolidated coarse gravel with silt. well rounded cobbles larger than #4 sieve.		
15					
20		3			
25					
30	SM	4	SILTY SAND WITH GRAVEL, 10YR 4/1 dark grey. Dry unconsolidated silty sand. 95% coarse to fine grained sand with 5% well rounded cobbles.		
35					
40		5			
45					
50		6			
55					
60		7			
65				Bentonite (3/8", Haliburton)	SCH 40 PVC
70		8			
75			SILTY GRAVEL, 10YR 6/2 Light brownish grey. Dry unconsolidated coarse gravel with silt. well rounded cobbles larger than #4 sieve.		
80		9			
85					
90	GM	10			
95					
100					

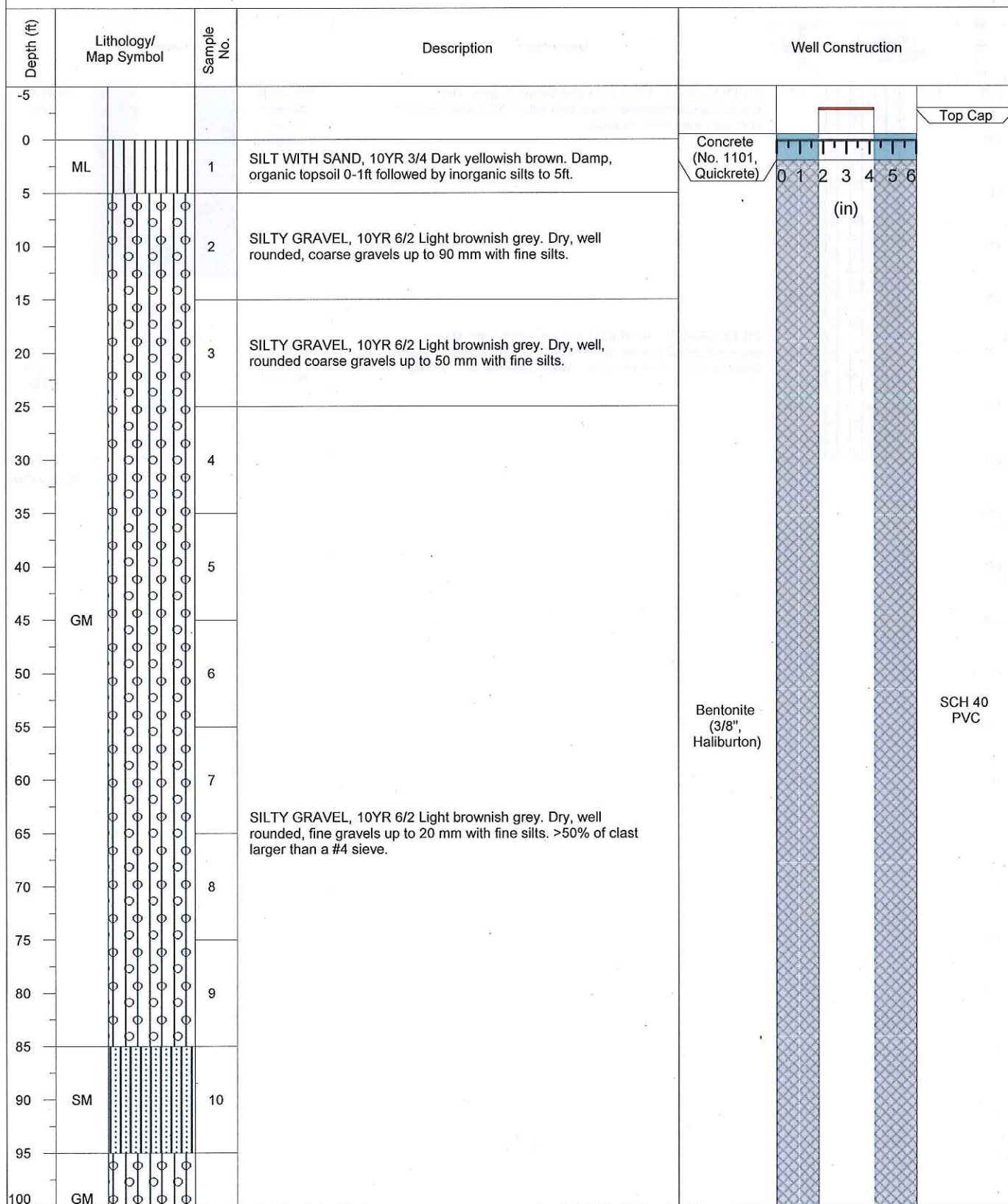
Depth (ft)	Lithology/ Map Symbol	Sample No.	Description	Well Construction
100	GM 	11	SILTY GRAVEL, 10YR 6/2 Light brownish grey. Dry unconsolidated coarse gravel with silt. well rounded cobbles larger than #4 sieve.	 <p>Bentonite (3/8", Haliburton)</p> <p>122.5</p> <p>Sand (#20/40)</p>
105		12		
110		13		
115		14	SILTY GRAVEL, 10YR 6/2 Light brownish grey. Dry unconsolidated coarse gravel with silt. well rounded cobbles larger than #4 sieve. Water detected at 123 ft bgs.	
120		15		
125				
130				
135				
140				
145				PVC Screw Cap
150				
155				
160				
165				
170				
175				
180				
185				
190				
195				
200				

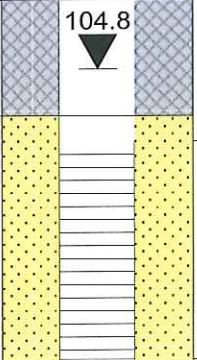


Depth (ft)	Lithology/ Map Symbol	Sample No.	Description	Well Construction		
100	GM	11	SILTY GRAVEL, 10YR 6/2 Light brownish grey. Dry, well rounded, fine gravels with fine silts. >50% of clast larger than a #4 sieve. Cobbles up to 20mm.	Sand (#20/40)		10 Slot PVC
105	GW	12	WELL-GRADED GRAVEL WITH SILT AND SAND, 10YR 3/3 Dark brown. Wet, well rounded, fine gravels up to 40 mm, with coarse sand. >50% of clast larger than a #4 sieve. Water detected at 103 ft bgs.			
110	GM		SILTY GRAVEL, 10YR 6/2 Light brownish grey. Wet, well rounded, fine gravels with fine silts. >50% of clast larger than a #4 sieve.			
115	CN GL	13	CONGLOMERATE, 10YR 6/2 Light Brownish Grey. Dry, weakly lithified conglomerate with consolidated fine gravels to silts. This Conglomerate acts as an aquitard.	Bentonite (3/8", Haliburton)		Stainless Steel
120						
125						
130						
135						
140						
145						
150						
155						
160						
165						
170						
175						
180						
185						
190						
195						
200						



Depth (ft)	Lithology/ Map Symbol	Sample No.	Description	Well Construction		
100	GM 	11	SILTY GRAVEL, 10YR 6/2 Light brownish grey. Dry unconsolidated coarse gravel with silts. >50% well rounded cobbles larger than #4 sieve.	Bentonite (Medium Chips, Puregold)		SCH 40 PVC
105		12				
110		13	SILTY GRAVEL, 10YR 6/2 Light brownish grey. Damp unconsolidated coarse gravel with silts. >50% well rounded cobbles larger than #4 sieve. Water detected at 117 ft bgs.	Sand (#20/40)		10 Slot PVC
115						
120		14				
125						
130						
135						PVC Screw Cap
140						
145						
150						
155						
160						
165						
170						
175						
180						
185						
190						
195						
200						



Depth (ft)	Lithology/ Map Symbol	Sample No.	Description	Well Construction		
100	GM	11	SILTY GRAVEL, 10YR 6/2 Light brownish grey. Dry, well rounded, fine gravels up to 20 mm with fine silts. >50% of clast larger than a #4 sieve.	Bentonite (3/8", Haliburton)		SCH 40 PVC
105		12				
110		GW		13	SILTY GRAVEL, 10YR 6/2 Light brownish grey. Wet, well rounded, fine gravels up to 20 mm with fine silts. >50% of clast larger than a #4 sieve. Water detected at 105 ft bgs	Sand (#20/40)
115	12					
120	13					
125						Stainless Steel
130						
135						
140						
145						
150						
155						
160						
165						
170						
175						
180						
185						
190						
195						
200						

Appendix B.

Well Construction Diagrams

MONITORING WELL CONSTRUCTION DETAILS



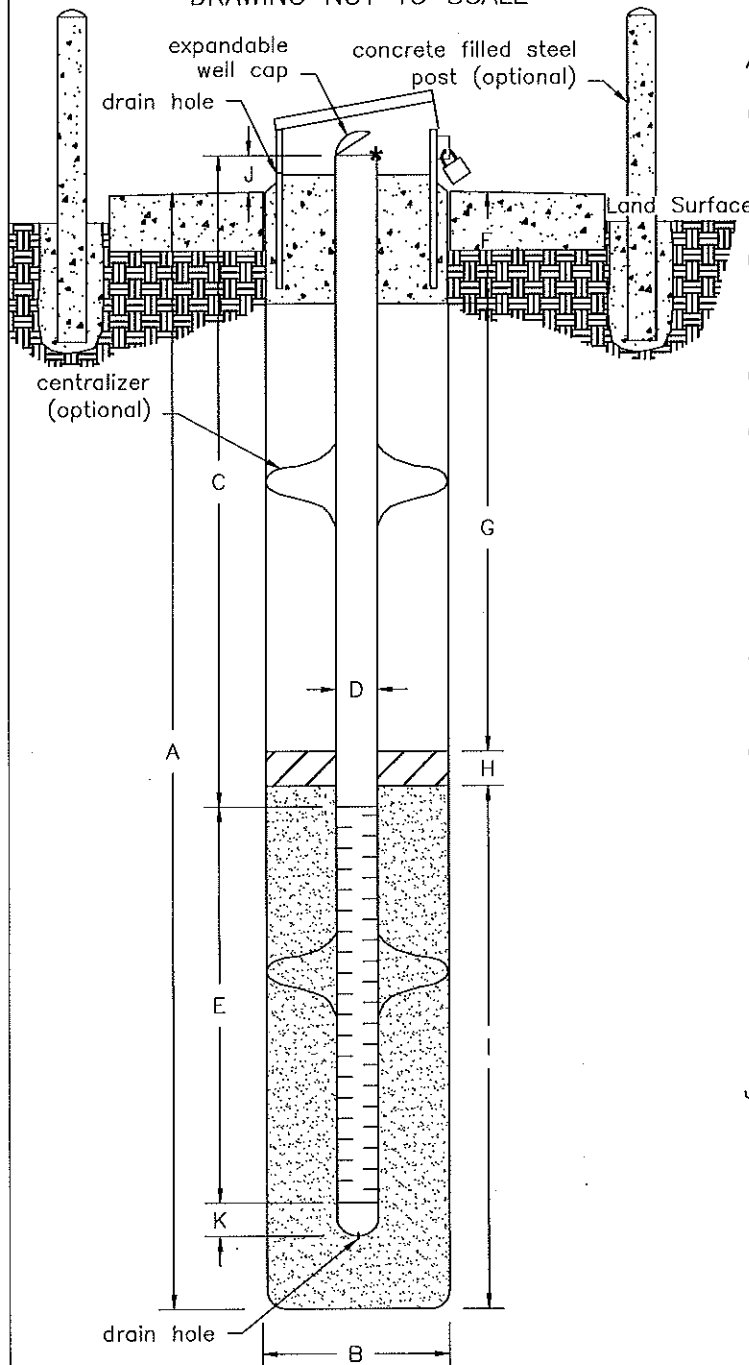
SCIENCE AND
ENGINEERING

PROJECT NAME AgReserves Monitoring Well Installation
PROJECT NUMBER 2021210026
DATE INSTALLED 1/27/2022
WELL PERMIT NO. BLX 908
LOCATION NW of Field 138

BORING/WELL NO. MW-1
TOP OF CASING ELEV. AT MARK 366.24
GROUND SURFACE ELEV. 363.57
DATUM NAVD88 (US ft) using Geoid18 (Conus)

NOTES:

WELL SCHEMATIC DRAWING NOT TO SCALE



NOTE: Depths and intervals are measured from ground surface.

BORING INFORMATION

A. Total Depth 105 ft.

B. Borehole Diameter 6 in.

Drilling method Sonic Drill

WELL CONSTRUCTION

C. Total Casing length 90 ft.

Material Schedule 40 PVC

D. Well Casing Diameter (I.D.) 2 in.

E. Well Screen

Screen length 15 ft.

Screen interval from 89.79 ft. to 104.79 ft.

Slot size 0.010 in.

F. Surface Seal from -0.5 ft. to 2 ft.

Seal materials Concrete

G. Grout from - ft. to - ft.

Grout material -

H. Bentonite Sanitary Seal from

2 ft. to 95 ft.

Seal materials 3/8" Bentonite Chips

I. Filter Pack from 88 ft. to 105 ft.

Pack material 20/40 CSI

J. Well Casing height (above grade) 2.67 ft.

K. Well Sump length - ft.

Well tail piece length - in.

Centralizers located at - ft.

NOTES:

MONITORING WELL CONSTRUCTION DETAILS

PROJECT NAME AgReserves Monitoring Well Installation

PROJECT NUMBER 2021210026

DATE INSTALLED 1/27/2022

WELL PERMIT NO. BLX 909

LOCATION S of Field 138

NOTES:

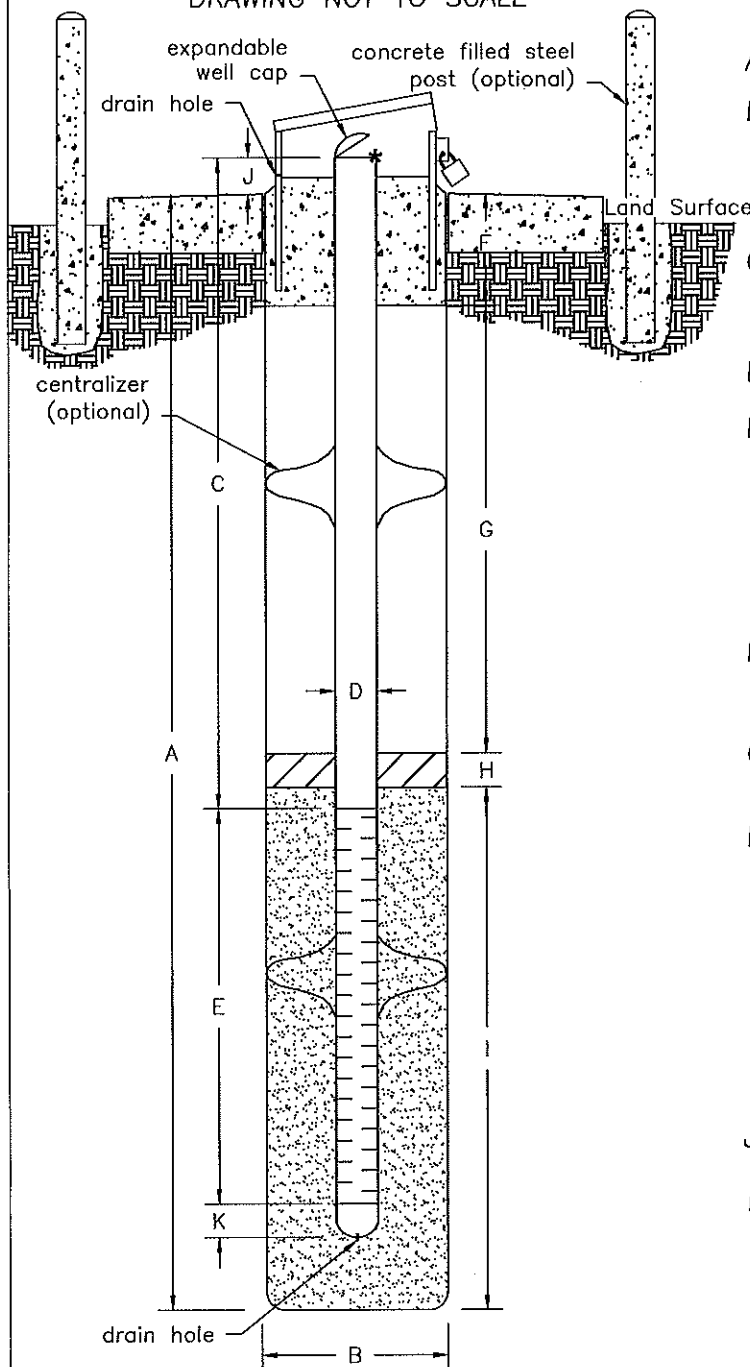
BORING/WELL NO. MW-2

TOP OF CASING ELEV. AT MARK 303.76

GROUND SURFACE ELEV. 301.57

DATUM NAVD88 (US ft) using Geoid18 (Conus)

WELL SCHEMATIC DRAWING NOT TO SCALE



NOTE: Depths and intervals are measured from ground surface.

BORING INFORMATION

A. Total Depth 45 ft.

B. Borehole Diameter 6 in.

Drilling method Sonic Drill

WELL CONSTRUCTION

C. Total Casing length 25 ft.

Material Schedule 40 PVC

D. Well Casing Diameter (I.D.) 2 in.

E. Well Screen

Screen length 15 ft.

Screen interval from 24.79 ft. to 39.79 ft.

Slot size 0.010 in.

F. Surface Seal from -0.5 ft. to 2 ft.

Seal materials Concrete

G. Grout from - ft. to - ft.

Grout material -

H. Bentonite Sanitary Seal from

2 ft. to 23 ft.

40 ft. to 45 ft.

Seal materials 3/8" Bentonite Chips

I. Filter Pack from 23 ft. to 40 ft.

Pack material 20/40 CSI

J. Well Casing height (above grade) 2.19 ft.

K. Well Sump length - ft.

Well tail piece length - in.

Centralizers located at - ft.

NOTES:

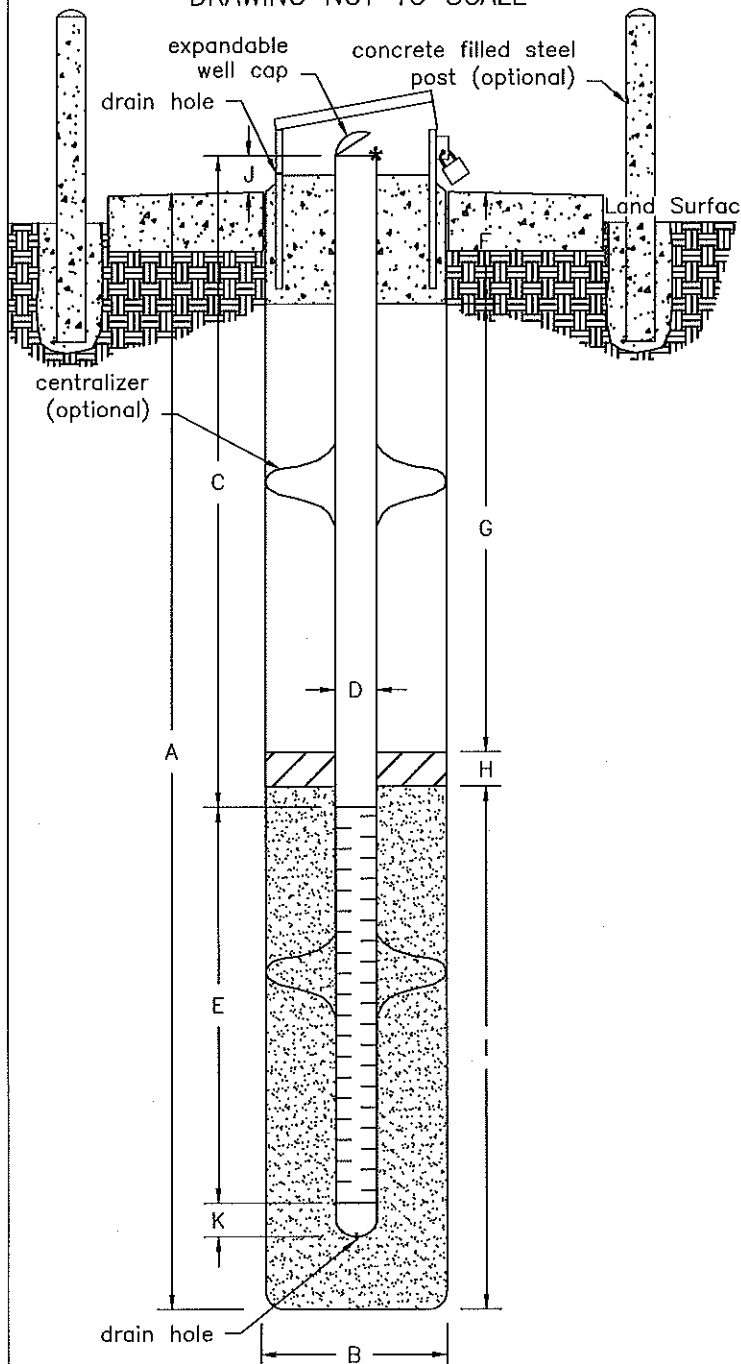
MONITORING WELL CONSTRUCTION DETAILS

PROJECT NAME AgReserves Monitoring Well Installation
PROJECT NUMBER 2021210026
DATE INSTALLED 1/18/2022
WELL PERMIT NO. BLX 989
LOCATION NW of Field 124

BORING/WELL NO. MW-3
TOP OF CASING ELEV. AT MARK 405.56
GROUND SURFACE ELEV. 403.08
DATUM NAVD88 (US ft) using Geoid18 (Conus)

NOTES:

WELL SCHEMATIC DRAWING NOT TO SCALE



NOTE: Depths and intervals are measured from ground surface.

BORING INFORMATION

A. Total Depth 145 ft.

B. Borehole Diameter 6 in.

Drilling method Sonic Drill

WELL CONSTRUCTION

C. Total Casing length 130 ft.

Material Schedule 40 PVC

D. Well Casing Diameter (I.D.) 2 in.

E. Well Screen

Screen length 15 ft.

Screen interval from 129.79 ft. to 144.79 ft.

Slot size 0.010 in.

F. Surface Seal from -0.5 ft. to 2 ft.

Seal materials Concrete

G. Grout from - ft. to - ft.

Grout material -

H. Bentonite Sanitary Seal from 2 ft. to 128 ft.

Seal materials 3/8" Bentonite Chips

I. Filter Pack from 128 ft. to 145 ft.

Pack material 20/40 CSI

J. Well Casing height (above grade) 2.48 ft.

K. Well Sump length - ft.

Well tail piece length - in.

Centralizers located at - ft.

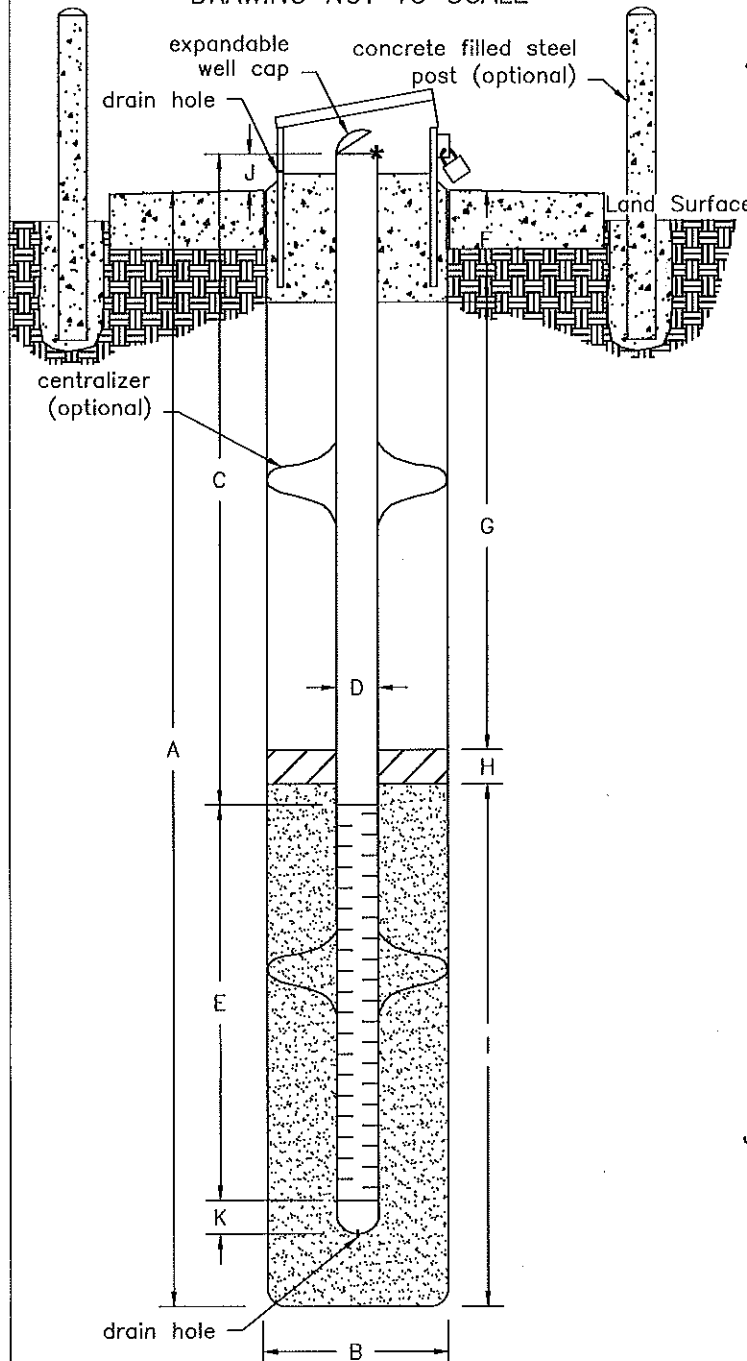
NOTES:

MONITORING WELL CONSTRUCTION DETAILS

PROJECT NAME AgReserves Monitoring Well Installation
 PROJECT NUMBER 2021210026
 DATE INSTALLED 1/23/2022
 WELL PERMIT NO. BLX 983
 LOCATION S of Field 124
 NOTES: _____

BORING/WELL NO. MW-4
 TOP OF CASING ELEV. AT MARK 382.45
 GROUND SURFACE ELEV. 380.20
 DATUM NAVD88 (US ft) using Geoid18 (Conus)

WELL SCHEMATIC DRAWING NOT TO SCALE



NOTE: Depths and intervals are measured from ground surface.

BORING INFORMATION

A. Total Depth 120 ft.

B. Borehole Diameter 6 in.

Drilling method Sonic Drill

WELL CONSTRUCTION

C. Total Casing length 100 ft.

Material Schedule 40 PVC

D. Well Casing Diameter (I.D.) 2 in.

E. Well Screen

Screen length 15 ft.

Screen interval from 99.79 ft. to 114.79 ft.

Slot size 0.010 in.

F. Surface Seal from -0.5 ft. to 2 ft.

Seal materials Concrete

G. Grout from - ft. to - ft.

Grout material -

H. Bentonite Sanitary Seal from

2 ft. to 98 ft.

115 ft. to 120 ft.

Seal materials 3/8" Bentonite Chips

I. Filter Pack from 98 ft. to 115 ft.

Pack material 20/40 CSI

J. Well Casing height (above grade) 2.25 ft.

K. Well Sump length - ft.

Well tail piece length - in.

Centralizers located at - ft.

NOTES: _____

MONITORING WELL CONSTRUCTION DETAILS



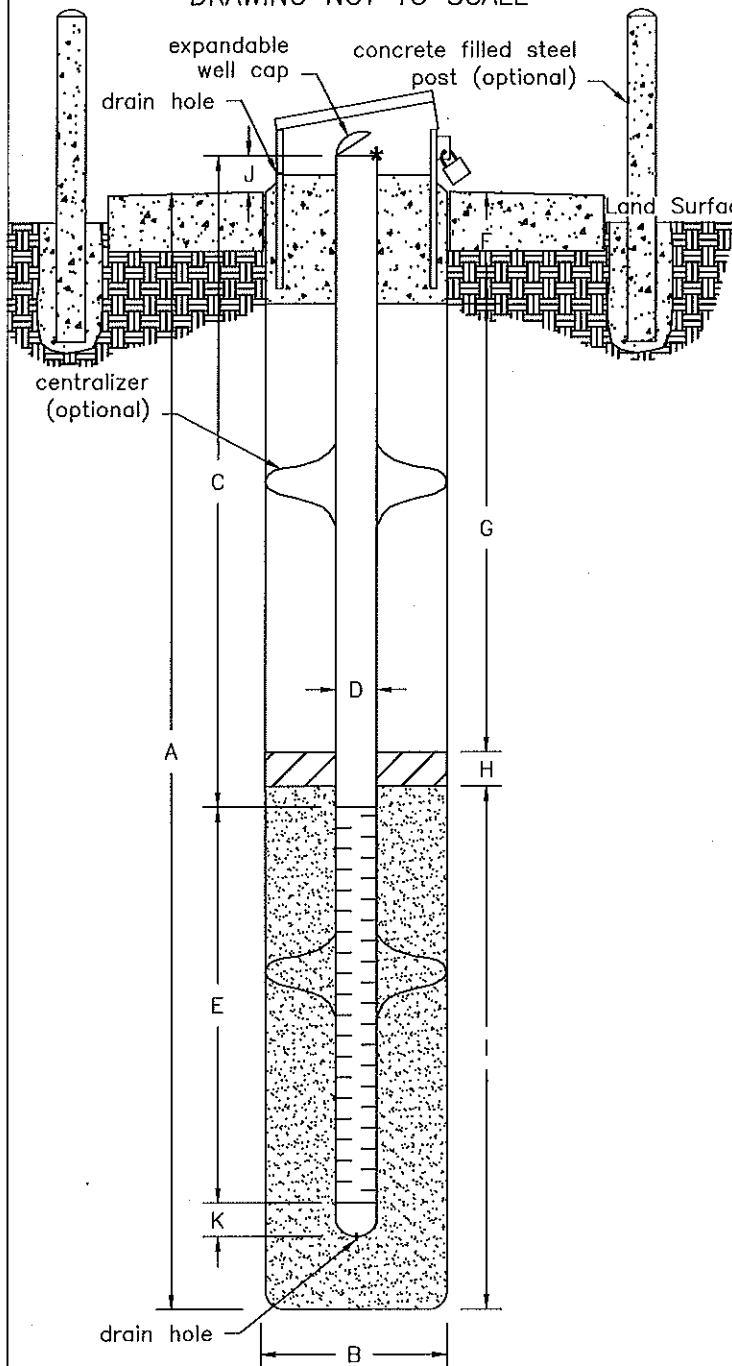
SCIENCE AND
ENGINEERING

PROJECT NAME AgReserves Monitoring Well Installation
PROJECT NUMBER 2021210026
DATE INSTALLED 1/21/2022
WELL PERMIT NO. BLX 990
LOCATION NW of Field 125

BORING/WELL NO. MW-5
TOP OF CASING ELEV. AT MARK 400.85
GROUND SURFACE ELEV. 398.46
DATUM NAVD88 (US ft) using Geoid18 (Conus)

NOTES:

WELL SCHEMATIC DRAWING NOT TO SCALE



NOTE: Depths and intervals are measured from ground surface.

BORING INFORMATION

A. Total Depth 135 ft.

B. Borehole Diameter 6 in.

Drilling method Sonic Drill

WELL CONSTRUCTION

C. Total Casing length 120 ft.

Material Schedule 40 PVC

D. Well Casing Diameter (I.D.) 2 in.

E. Well Screen

Screen length 15 ft.

Screen interval from 119.79 ft. to 134.79 ft.

Slot size 0.010 in.

F. Surface Seal from -0.5 ft. to 2 ft.

Seal materials Concrete

G. Grout from - ft. to - ft.

Grout material -

H. Bentonite Sanitary Seal from

2 ft. to 118 ft.

Seal materials Medium Bentonite Chips

I. Filter Pack from 118 ft. to 135 ft.

Pack material 20/40 CSI

J. Well Casing height (above grade) 2.40 ft.

K. Well Sump length - ft.

Well tail piece length - in.

Centralizers located at - ft.

NOTES:

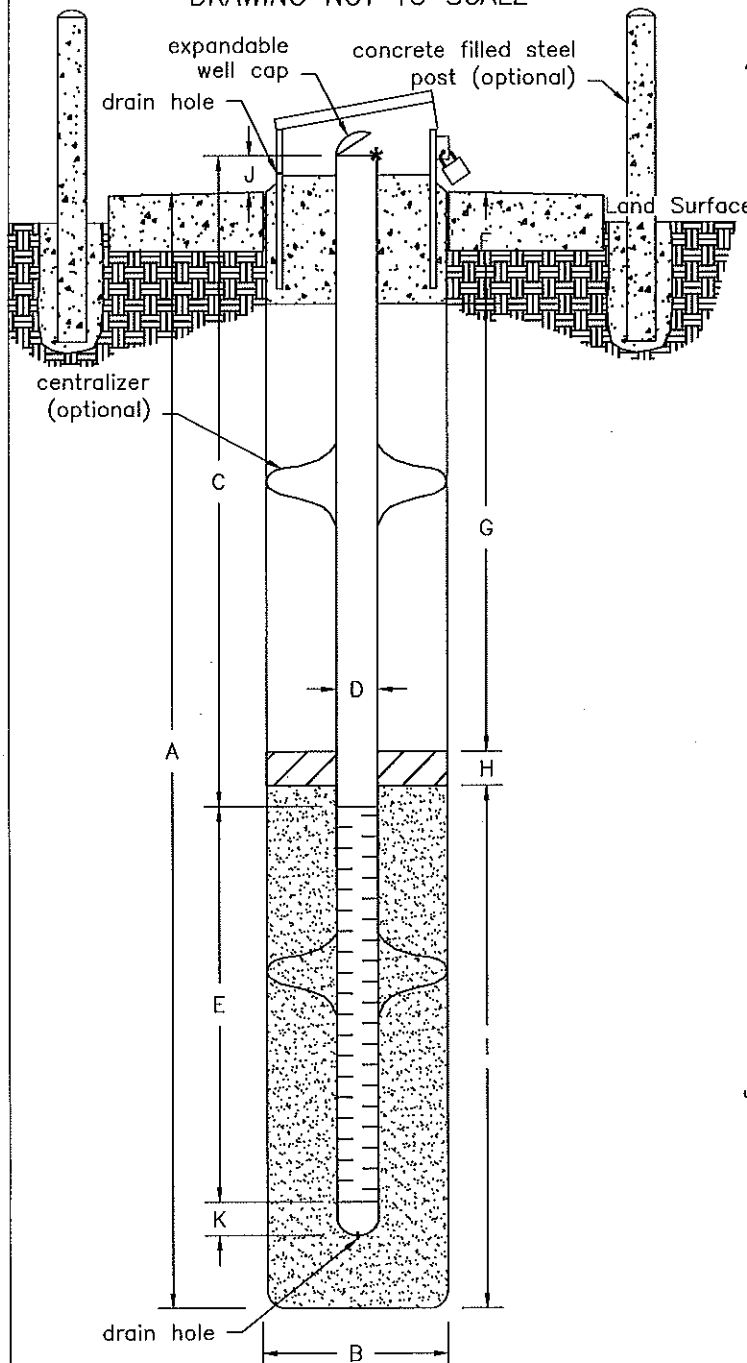
MONITORING WELL CONSTRUCTION DETAILS

PROJECT NAME AgReserves Monitoring Well Installation
 PROJECT NUMBER 2021210026
 DATE INSTALLED 1/24/2022
 WELL PERMIT NO. BLX 988
 LOCATION S of Field 125

BORING/WELL NO. MW-6
 TOP OF CASING ELEV. AT MARK 384.22
 GROUND SURFACE ELEV. 381.50
 DATUM NAVD88 (US ft) using Geoid18 (Conus)

NOTES:

WELL SCHEMATIC DRAWING NOT TO SCALE



NOTE: Depths and intervals are measured from ground surface.

BORING INFORMATION

A. Total Depth 125 ft.

B. Borehole Diameter 6 in.

Drilling method Sonic Drill

WELL CONSTRUCTION

C. Total Casing length 110 ft.

Material Schedule 40 PVC

D. Well Casing Diameter (I.D.) 2 in.

E. Well Screen

Screen length 15 ft.

Screen interval from 109.79 ft. to 124.79 ft.

Slot size 0.010 in.

F. Surface Seal from -0.5 ft. to 2 ft.

Seal materials Concrete

G. Grout from - ft. to - ft.

Grout material -

H. Bentonite Sanitary Seal from 2 ft. to 108 ft.

Seal materials 3/8" Bentonite Chips

I. Filter Pack from 108 ft. to 125 ft.

Pack material 20/40 CSI

J. Well Casing height (above grade) 2.72 ft.

K. Well Sump length - ft.

Well tail piece length - in.

Centralizers located at - ft.

NOTES:

Appendix C.

Resource Protection Well Report Decommissioning

Resource Protection Well Report

Submit one well report per well installed. See page two for instructions.

Type of Work:

- ☐ Construction
☒ Decommission \Rightarrow Original NOI No. RE22244

Ecology Well ID Tag No BLX908

Site Well Name MW 1

Consulting Firm _____

Was a variance approved for this well/boring? ☐ Yes ☐ No

If yes, what was the variance for? _____

WELL CONSTRUCTION CERTIFICATION: I constructed and/or accept responsibility for construction of this well, and its compliance with all Washington well construction standards. Materials used and the information reported are true to my best knowledge and belief.

☒ Driller ☐ Trained ☐ Engineer

Name (Print Last, First Name) Wallace, Casey

Driller/Engineer/Trainee Signature _____

License No. 3182

Company Name Yellow Jacket Drilling

If trainee box is checked, sponsor's license number: _____

Sponsor's signature _____

Notice of Intent No. AE71202

Type of Well:

- ☒ Resource Protection Well ☐ Injection Point
☐ Remediation Well ☐ Grounding Well
☐ Geotechnical Soil Boring ☐ Ground Source Heat Pump
☐ Environmental Boring ☐ Other _____

☐ Soil ☐ Vapor ☐ Water-sampling

Property Owner Farmland Reserve Inc

Well Street Address 184301 Plymouth Commercial RD

City Plymouth County Benton

Tax Parcel No. 102571000003000

Location (see instructions): WWM ☐ or EWM ☐

SE 1/4 SW 1/4, Section 2 Town 5N Range 27E

Latitude (Example: 47.12345) 45.93813

Longitude (Example: -120.12345) -119.39773

(WGS 84 Coordinate System)

Borehole diameter 6 inches Casing diameter _____ inches

Static water level 90 ft below top of casing Date _____

☒ Above-ground completion with bollards ☐ Flush monument

☒ Stick-up of top of well casing _____ ft above ground surface

Start Date 02/16 Completed Date 02/16

Construction Design	Well Data	Driller's Log
	Locking Cap	
	Protective Post	
	Concrete Surface Seal	
	Depth	_____ FT
	Blank Casing (dia x dep)	"X" _____ FT
	Material	
	Backfill	_____ FT
	Type	
	Seal	<u>0 - 105</u> FT
	Material	<u>Bent. chips</u>
Gravel Pack	_____ FT	
Material		
Screen (dia x dep)	"X" _____ FT	
Slot Size		
Material		
Well Depth	<u>105</u> FT	
Backfill	_____ FT	
Material		
Total Hole Depth	_____ FT	