

February 10, 2015

Illinois Department of Public Health
Division of Environmental Health
525 West Jefferson Street
Springfield, Illinois 62761

**Subject: Groundwater Monitoring Well Construction Report
Hartford, Illinois**

To Whom it May Concern:

AECOM (formerly URS Corporation), on behalf of Shell Oil Products US, is submitting the boring log and well construction diagram for a groundwater monitoring well designated MW-23, installed in Hartford, Illinois.

If you have any questions or require further information, please contact Bob Billman at (314) 429-0100 or bob.billman@aecom.com.

Sincerely,
AECOM, on behalf of Shell Oil Products US



Eric Fritsch
Task Manager



Bob Billman
Senior Project Manager

cc: Kevin Dyer, SOPUS
Thomas Tunncliff, BP
Repositories (Village Hall, Library, Website)

AECOM (EVIRON) LOG (EPA FORMAT)+1 WELL_P:\RESOURCES\GINT\DATA\GINT\ENVIRONMENTAL\AECOM_STL (ENVIRONMENTAL)\GLB_2151515

LOG OF BORING AND WELL CONSTRUCTION DETAIL

MW-23

Page 1 Of 2

Starting Date: 1/19/15
 Completion Date: 1/20/15
 Casing Elevation: 431.41
 Ground Elevation: 428.70

Quadrangle Sec:34 T:5N R:9W
 UTM (or State Plane) Coord
 N: (X):792004.5
 E: (Y):2321442.8

Depth In feet	Well Construction	Inches Driven	Inches Recovered	PID/FID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
0 - 2.9				2.9			FILL	Gravel and Topsoil (FILL) Becomes loose, moist, black, coarse grained sand with gravel and cinders	
2.9 - 104.6				104.6			CL	Soft, wet, black, medium plastic, Silty CLAY (CL), with organics Becomes gray	
104.6 - 44.6			44.6					Becomes medium stiff, moist	
44.6 - 7.6			7.6					With brown mottling	
7.6 - 24		24	12	1.7				Becomes soft	
24 - 19		24	19	6.4				Becomes wet, sandy	
19 - 22		24	22	48.5					
22 - 24		24	24	6.2					
24 - 15		24	15	2.9					
15 - 20		24	9	0.2				Loose, moist, gray, fine to medium grained SAND (SP)	
20 - 24		24	12	5.5				Grades to medium grained 0.5" thick clay seam	

Completion Depth: 36.5 Ft bgs
 Project No.: 21563720
 Project Name: Roxana MW-23 Installation
 Drilling Contractor: Roberts Environmental Drilling, Inc.
 Driller Name: E. Wetzel
 Drilling Method: Hollow-Stem Auger
 Drill Rig Type: CME-75
 Logged by: E. Arthur
 County: Madison
 Site ID No.: 1191150002
 Federal ID No.: ILD 080 012 305

Water Depth: 29.2 ft., After ATD hrs.
 Water Depth: _____ ft., After _____ hrs.
 ▽ Water level at time of drilling
 ▼ Water level after drilling
 ATD - At time of drilling
 NE - None Encountered
 NA - Not Applicable

- Air Knife/Hand Auger
- Splitspoon Sampler
- HSA - No Soil Sample
- Geoprobe
- Concrete
- Cement/Bentonite Grout
- Bentonite Seal
- Filter Sand
- Screen



USC based on field visual observations

AECOM (EVIRON) LOG (EPA FORM) 1 WELL P:\RESOURCES\GINT\DATA\GINT\ENVIRONMENTAL\AECOM STL (ENVIRONMENTAL)\GLB-2151715

LOG OF BORING AND WELL CONSTRUCTION DETAIL

MW-23

Page 2 Of 2

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Depth In feet	Well Construction	Inches Driven	Inches Recovered	PID/FID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
		24	11	0.2				Same: Loose, moist, gray, medium grained SAND (SP)	
		24	13	0.1			SP		
30		24	12	0.1				Becomes wet, fine grained	▽
		24	12	0.1				Grades to medium grained	
		24	20	1.0					
35		24	22	0.6					
								Bottom of boring at 36.5' bgs	
40									
45									

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 NE - None Encountered
 NA - Not Applicable

-  Air Knife/Hand Auger
-  Spoon Sampler
-  HSA - No Soil Sample
-  Geoprobe
-  Concrete
-  Cement/Bentonite Grout
-  Bentonite Seal
-  Filter Sand
-  Screen



USC based on field visual observations

Monitoring Well Installation Details
Stick Up Monitoring Well Construction Diagram



Project:	Floxana MW-23 Installation			Well ID:	MW-23
Project Location:	Hartford, Illinois	Date Started:	1/19/2015		
Well Location:	BP Property at Rand Ave./Rt. 111	Date Completed:	1/20/2015	Boring ID:	MW-23
Drilling Contractor:	Roberts Environmental Drilling Inc.	Time Seal Set:	13:30 on 1/19/2015	Northing:	792004.5
Driller:	Eric Wetzel	Type of Rig:	CME 75	Easting:	2321442.8
Consulting Firm:	AECOM	Drilling Method:	Hollow Stem Auger (4.25"ID)	Elevation Datum:	NAVD 88
Geologist:	E. Arthur	Owner	Equilon Enterprises LLC d/ba Shell Oil Products US	Township Range Section	T5N R9W 34

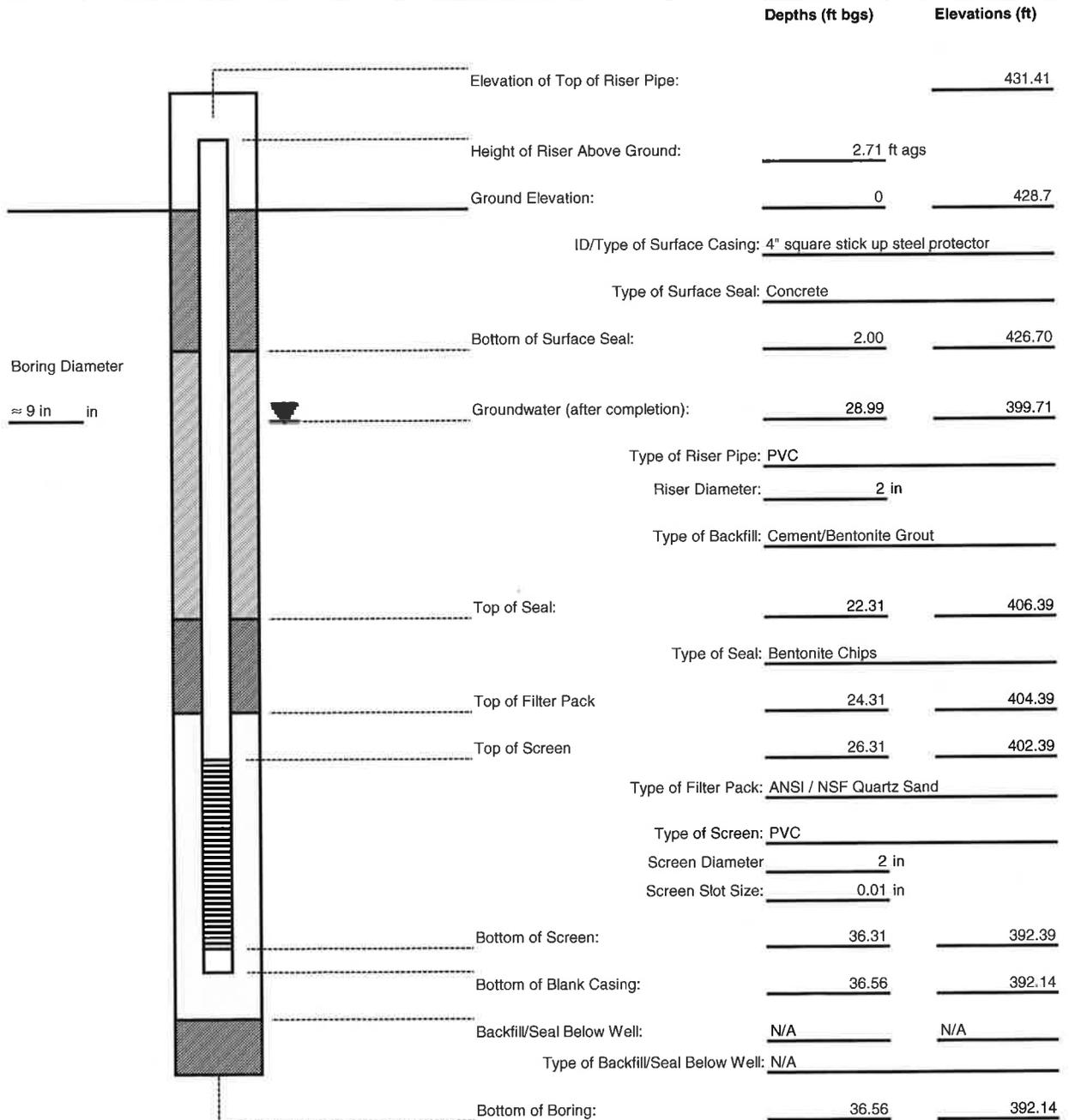


DIAGRAM IS NOT TO SCALE