

Spakes, Rita

From: Lee, Weston
Sent: Friday, July 21, 2017 2:53 PM
To: Spakes, Rita; Blue, Karen
Cc: Jackson, Carrie
Subject: FW: Work Plan to Extend Monitoring Wells/Gas Probes - NABORS
Attachments: SCS_Work Plan to Raise Wells.pdf

Follow Up Flag: Follow up
Flag Status: Flagged

Rita,

Can I have this work plan put in the data base under 72248.

Thanks,
wes



From: Fowler, Robert [<mailto:RFowler@scsengineers.com>]
Sent: Thursday, July 20, 2017 1:47 PM
To: Hynum, Tammie
Cc: Lee, Weston; Blanz, Bob; McCullough, Daniel; Cotter, Floyd
Subject: Work Plan to Extend Monitoring Wells/Gas Probes - NABORS

Dear Ms. Hynum:

Stearns, Conrad, and Schmidt, Consulting Engineers, Inc. (dba SCS Engineers) is pleased to present this Work Plan to extend monitoring wells GP-16, GP-18, MW-3, MW-NAB-8, MW-NAB-4, and MW-3 at the NABORS Landfill. If you have any questions or comments please feel free to contact me or Dan McCullough at your convenience.

Sincerely,

Robert Fowler
Project Geologist

SCS ENGINEERS
11219 Richardson Drive
North Little Rock, Arkansas 72113
501-503-4779
501-672-9320 cell
rfowler@scsengineers.com
www.scsengineers.com

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SCS ENGINEERS

July 18, 2017

Ms. Tammie Hynum
Solid Waste Division
Arkansas Department of Environmental Quality
5301 Northshore Drive
North Little Rock, AR 72118-5317

Subject: Work Plan to Extend Monitoring Wells GP-16, GP-18, MW-3, MW-NAB-8, MW-NAB-4, and CAO-2 at the NABORS Class 1 Landfill.
AFIN: 03-00051; Permit No. 0249-S1-R2

Dear Ms. Hynum:

SCS Engineers (SCS) is pleased to present you with this Work Plan to Extend Monitoring Wells GP-16, GP-18, MW-NAB-8, MW-NAB-4, MW-3, and CAO-2 at the NABORS Class 1 Landfill. These groundwater monitoring wells/Gas Probes at the NABORS Landfill are below the proposed final grade within the construction area and need to be raised as specified in the Table 1.

TABLE 1

Well Number	Amount of fill to be added
GP-16	~2 ft
GP-18	~3 ft
MW-3	~7 ft
CAO-2	~6 ft
MW-NAB-8	~2 ft
MW-NAB-4	~8 ft

Each monitoring well/gas probe will be raised by first removing the concrete pad and protective cover by lifting it with a trac hoe or breaking it up with a sledge hammer. Once the pad and protective cover have been removed, a six-inch in diameter PVC protective pipe will be placed around the existing stick up. Additional riser pipe will be added to raise the monitoring point to the desired height. Bentonite hole plug will then be added to the annulus of between the inside of the six inch pipe and the riser. Fill dirt will carefully be placed around the six inch outer pipe until the desired elevation is reached. A new protective cover, pad and bollards will then be installed to complete the well at the new ground surface.




A stormwater diversion wall approximately two feet above grade will be built on the uphill side of each monitoring well or gas probe. This wall will be installed utilizing concrete blocks filled with concrete or similar retaining wall structure.

Upon completion of the monitoring well installation, the location, top of casing and ground surface elevation for the monitoring well will be surveyed by an Arkansas licensed Surveyor. SCS will then prepare and submit a report to ADEQ that documents the field activities along with, the survey information for the newly raised monitoring points:

Field operations will not begin on the following scope of work until approval is obtained from Arkansas Department of Environmental Quality (ADEQ). A SCS geologist will oversee and document all fieldwork.

If you have any questions or comments regarding this document, please do not hesitate to contact me at (501) 812-4551 or email at rfowler@scsengineers.com.

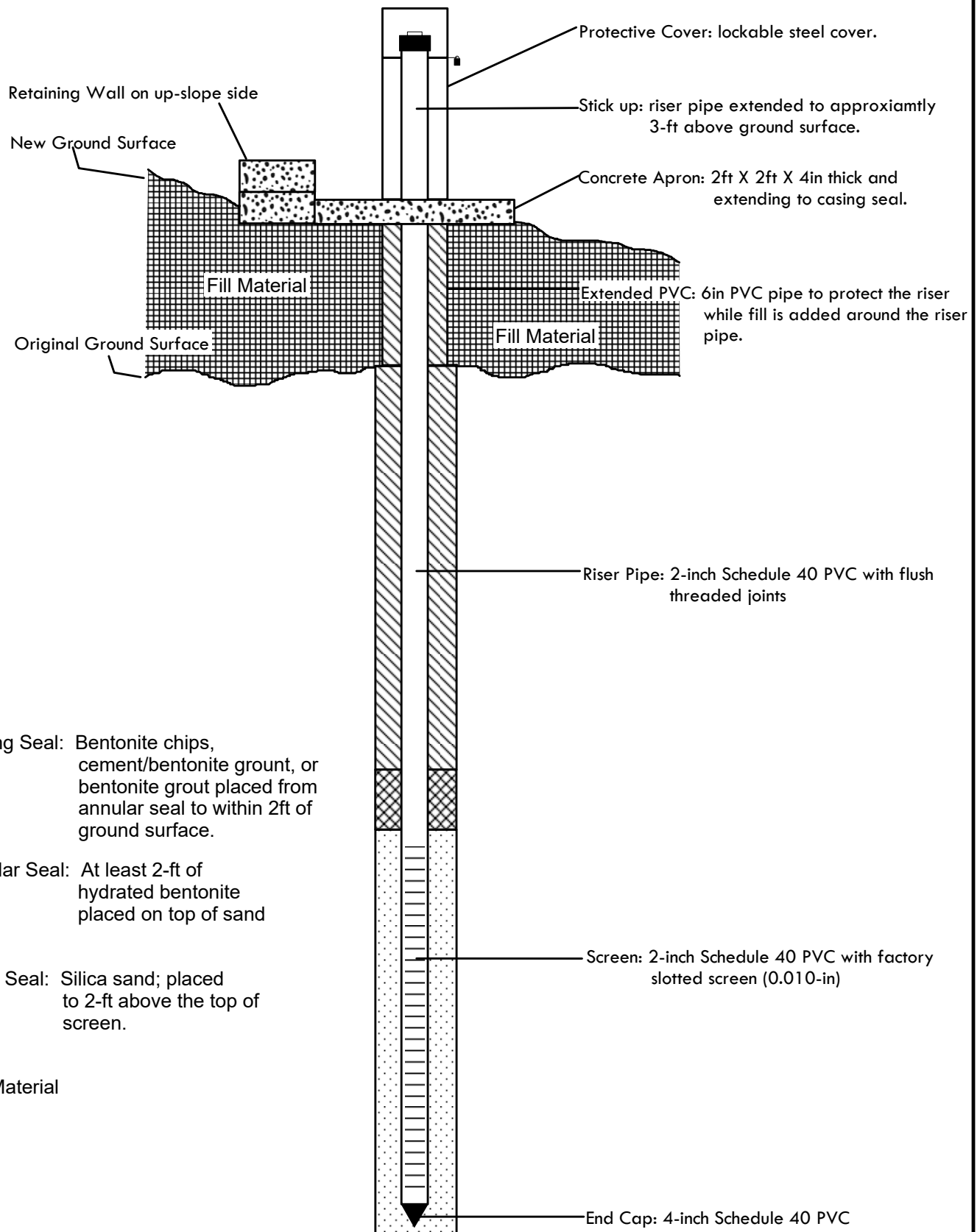
Sincerely,

A handwritten signature in blue ink, appearing to read "Robert Fowler".

Robert Fowler
Project Geologist
SCS ENGINEERS

A handwritten signature in blue ink, appearing to read "Dan McCullough".

Dan McCullough, PG
Project Director
SCS ENGINEERS



SCS ENGINEERS

Environmental Consultants and Contractors
11219 Richardson Drive
North Little Rock, AR 72113
501-812-4551

Typical Monitoring Well Detail Showing Well extension

**FIGURE
1**

Date: 7/18/17

By: RWF