

From: Scott.Foord@ghd.com
To: [Groves, Amber](#)
Cc: [Jason Michelson \(JMichelson@chevron.com\)](#); [Yu, Olivia, EMNRD](#)
Subject: RE: 11121241 VGSAU 148 (1RP-3688) Work Plan for Review
Date: Monday, October 30, 2017 2:11:04 PM
Attachments: image001.png
image002.png
11121241 VGSAU Work Plan - FINAL.pdf

Amber,

Please see attached. Let me know if you have any questions. We have completed the latest round of drilling and should be receiving data this week. We will evaluate the data and prepare an assessment report for submittal to NMOCD and SLO for review.

Thanks,
Scott

From: Groves, Amber [mailto:agroves@slo.state.nm.us]
Sent: Monday, October 30, 2017 3:01 PM
To: Yu, Olivia, EMNRD <Olivia.Yu@state.nm.us>; Scott Foord <Scott.Foord@ghd.com>
Cc: Jason Michelson (JMichelson@chevron.com) <JMichelson@chevron.com>
Subject: RE: 11121241 VGSAU 148 (1RP-3688) Work Plan for Review

Scott,

Can I please get a copy of this work plan for review?

Thank you,

Amber Groves

Remediation Specialist
Field Operations Division
(575)392-3697
(575)263-3209 cell
New Mexico State Land Office
2827 N. Dal Paso Suite 117
Hobbs, NM 88240

.....
CONFIDENTIALITY NOTICE - This e-mail transmission, including all documents, files, or previous e-mail messages attached hereto, may contain confidential and/or legally privileged information. If you are not the intended recipient, or a person responsible for delivering it to the intended recipient, you are hereby notified that you must not read this transmission and that any disclosure, copying, printing, distribution, or use of any of the information contained in and/or attached to this transmission is **STRICTLY PROHIBITED**. If you have received this transmission in error, please immediately notify the sender and delete the original transmission and its attachments without reading or saving in any manner. Thank you.

From: Yu, Olivia, EMNRD [<mailto:Olivia.Yu@state.nm.us>]

Sent: Wednesday, October 11, 2017 7:20 AM

To: Scott.Foord@ghd.com

Cc: Jason Michelson (JMichelson@chevron.com) <JMichelson@chevron.com>; Groves, Amber <agroves@slo.state.nm.us>

Subject: RE: 11121241 VGSAU 148 (1RP-3688) Work Plan for Review

Good morning Scott:

Thank you for the clarification since there were no proposed borehole locations in the center of the purple areas.

As mentioned in our phone conversation on October 5, 2017, NMOCD would like to see the preliminary EM and ER survey results along the additional proposed soil borehole locations if germane to the 1RP in question. However, a full assessment report is not necessary.

Olivia

From: Scott.Foord@ghd.com [<mailto:Scott.Foord@ghd.com>]

Sent: Tuesday, October 10, 2017 4:52 PM

To: Yu, Olivia, EMNRD <Olivia.Yu@state.nm.us>

Cc: Jason Michelson (JMichelson@chevron.com) <JMichelson@chevron.com>; Amber Groves <agroves@slo.state.nm.us>

Subject: RE: 11121241 VGSAU 148 (1RP-3688) Work Plan for Review

Olivia,

Thank you for reviewing the Work Plan. I will revise the Unit letter.

In regard to the proposed boring locations, we believe the recent EM-31 and ER data correlates well with our previous analytical results from the last assessment round (see attached).

Thinking this one through, based on the recent geophysical results, my plan was to assess the dark purple area (area suspected to be the highest in chloride concentrations based on the EM31 and ER results – i/e., worst case area). I think vertical delineation is needed here to verify there is no impact to groundwater. If we verify no impact to gw (which will correlate with the vertical ER data), I will feel confident that the majority of the site is vertically delineated based off of the proposed and the previous borings analytical results.

We found an area north of there (northeast of former SB-8) that showed a slightly elevated EM response. One boring will go there to verify those results. Further assessment may be required at that area.

The remaining four borings (we actually added two to the initially proposed four total borings) are for mainly horizontal delineation (vertical too in the area), we feel confident that the previous analytical results correlate well enough to assume the darker red areas are impacted and therefore don't require additional, very costly drilling to verify. These areas will be confirmed horizontally delineated via confirmation soil sampling of the side walls following remediation activities.

We will assess the analytical data following the upcoming assessment activities and evaluate whether we believe we have achieved horizontal and vertical delineation prior to Work Plan preparation for remediation activities. If we feel additional assessment is required, we will reassess and follow up at that time.

Please let me know if you have any additional questions or concerns.

I'll keep you updated on the drilling schedule.

Take care,
Scott

From: Yu, Olivia, EMNRD [<mailto:Olivia.Yu@state.nm.us>]
Sent: Tuesday, October 10, 2017 4:53 PM
To: Scott Foord <Scott.Foord@ghd.com>
Cc: Jason Michelson (JMichelson@chevron.com) <JMichelson@chevron.com>; Amber Groves <agroves@slo.state.nm.us>
Subject: RE: 11121241 VGSAU 148 (1RP-3688) Work Plan for Review

Scott:

Please note that there is no Unit Letter S. Based on the GIS images, the release occurred in Unit Letter E, approximately 32°46'37.63"N, 103°31'17.51"W.

Very nice work. Unless I am interpreting the EM31 survey data incorrectly, please address these questions regarding the proposed soil borings for 1RP-3688.

- Will the next stage of bore holes near SB 3, 5, 7, 9 be in the vicinity or closer to the areas with higher conductivity?
- The proposed 6 soil bore locations in Figure 1 appear to be the same locations as originally proposed in January 2017. These are not in the areas with high chloride concentrations. Will these locations change based on the EM and ER surveys?

Thanks,
Olivia

From: Scott.Foord@ghd.com [<mailto:Scott.Foord@ghd.com>]
Sent: Tuesday, October 3, 2017 11:53 AM

To: Yu, Olivia, EMNRD <Olivia.Yu@state.nm.us>
Cc: Jason Michelson (JMichelson@chevron.com) <JMichelson@chevron.com>
Subject: 11121241 VGSAU 148 (1RP-3688) Work Plan for Review

Olivia,

Work Plan for VGSAU 148 (1RP-3688) attached for your review. We are currently working on six others, will have them to you in the next couple of days. We hope to start drilling the week of 10/16/17. Please do not hesitate to call or email me with any questions or concerns.

Warm regards,
Scott Foord, P.G.

GHD

T: 713-734-3090 | C: 281-725-7477 | F: 713-734-3391 | E: william.foord@ghd.com
6320 Rothway Ste.100, Houston, Texas 77040 | www.ghd.com
[WATER](#) | [ENERGY & RESOURCES](#) | [ENVIRONMENT](#) | [PROPERTY & BUILDINGS](#) | [TRANSPORTATION](#)

Please consider our environment before printing this email

Perform every task the safe way, the right way, every time!

This communication and any accompanying document(s) are confidential and are intended for the sole use of the addressee. If you are not the intended recipient, please notify me at the telephone number shown above or by return e-mail and delete this e-mail and any copies. You are advised that any disclosure, copying, distribution, or the taking of any action in reliance upon the communication without consent is strictly prohibited. Thank you.

CONFIDENTIALITY NOTICE: This email, including any attachments, is confidential and may be privileged. If you are not the intended recipient please notify the sender immediately, and please delete it; you should not copy it or use it for any purpose or disclose its contents to any other person. GHD and its affiliates reserve the right to monitor and modify all email communications through their networks.

This e-mail has been scanned for viruses

CONFIDENTIALITY NOTICE: This email, including any attachments, is confidential and may be privileged. If you are not the intended recipient please notify the sender immediately, and please delete it; you should not copy it or use it for any purpose or disclose its contents to any other person. GHD and its affiliates reserve the right to monitor and modify all email communications through their networks.

This email has been scanned by the Symantec Email Security.cloud service.
For more information please visit <http://www.symanteccloud.com>

This email has been scanned by the Symantec Email Security.cloud service.
For more information please visit <http://www.symanteccloud.com>

This e-mail has been scanned for viruses

CONFIDENTIALITY NOTICE: This email, including any attachments, is confidential and may be privileged. If you are not the intended recipient please notify the sender immediately, and please delete it; you should not copy it or use it for any purpose or disclose its contents to any other person. GHD and its affiliates reserve the right to monitor and modify all email communications through their networks.
