

From: [Yu, Olivia, EMNRD](#)
To: ["Jacob Mickle"](#)
Cc: [Stan Mickle](#); ["nick.rich@rxsoil.solutions"](#); [Billings, Bradford, EMNRD](#)
Subject: RE: 1RP-4572-0 Ruth Co. SWD
Date: Tuesday, June 13, 2017 3:11:00 PM

Dear Jacob:

Please address these concerns regarding the proposed remediation procedure in the workplan for 1RP-4572. Based on our meeting on June 7, 2017, NMOCD was expecting these items to be included in the corrective action workplan:

1. Schematic of the proposed remediation.
2. Statement from staff chemist attesting to the safety of the chemicals utilized.
3. Estimation of volume or quantity of freshwater usage based on the depth and dimensions of the proposed excavated areas.
4. Clarification and provide an example of what is considered "secondary industrial use" (page 5).
5. Provide an estimated timeline.

In addition, these details need to be corrected:

- Table with depth to groundwater RRAL determination on page 4. As indicated in the text, the score is 10, not 0.
- Chloride levels in soil samples must be analyzed using EPA Method 300. Please specify this method with the contracted laboratory.

Thanks,

Olivia Yu
Environmental Specialist
NMOCD, District I
Olivia.yu@state.nm.us
575-393-6161 x113

OCD approval does not relieve the operator of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, OCD approval does not relieve the operator of responsibility for compliance with any other federal, state, local laws and/or regulations.

From: Jacob Mickle [mailto:jacob.mickle@rxsoil.solutions]
Sent: Monday, June 12, 2017 10:56 AM
To: Yu, Olivia, EMNRD <Olivia.Yu@state.nm.us>
Cc: Stan Mickle <stan.mickle@rxsoil.solutions>
Subject: 1RP-4572-0 Ruth Co. SWD

Hello Olivia,

Attached here is the Corrective Action Work Plan for the site in District I just East of Hobbs, NM. Thank you for your time.

–JM

Jacob Mickle | Remediation Field Specialist | RXSoil, Inc.

201 Main Street, Suite 1360 | Fort Worth, Texas 76102 |

Cell: 210-853-7645

Jacob.mickle@rxsoil.solutions

From: STan Mickle
To: [Yu, Olivia, EMNRD](#)
Cc: [Oberding, Tomas, EMNRD](#); jlynniii@travelers.com
Subject: FW: April Borehole locations and comments. 1RP-4572-0
Date: Monday, May 1, 2017 6:31:04 AM

Good morning Folks,

The below is for reference for today's meeting at 9:00a am. John Lynn from Travelers has confirmed availability. We are just waiting Doc's availability.

I will head toward Hobbs at 7:30 am this morning.

Stan

From: David Boyer [mailto:dgboyer@sesi-nm.com]
Sent: Sunday, April 30, 2017 8:03 PM
To: Stan Mickle <Stan.Mickle@rxsoil.solutions>
Cc: Bob Allen <ballen@sesi-nm.com>; Tara Martin <office2@sesi-nm.com>
Subject: April Borehole locations and comments.

Stan,

The boreholes were labeled BH-1 through BH-6 starting at the lower-left (southwest) corner of the map and going clockwise. The locations are within several feet of Oliva's starred map locations except for BH-2 which is slightly to the east of her location due to remaining ponded water and BH-5 which is just to the north of her location (but within the oily area) due to melted fiberglass and stained soil still remaining there. When she came on site around 2 p.m. we were drilling BH-4 near the temporary frac tanks.

Our procedure was to advance the probe 4 ft., extract cuttings from the shoe and test for chloride. The remainder of the soil was capped and left temporarily in the sample tube. At the conclusion of each hole, the tubes were cut open and samples removed at 1 ft. intervals, placed in 4 oz. jars, and immediately placed on ice in a cooler. Once back in our shop, the iced samples were sorted and a chain of custody prepared. Initial laboratory testing on the samples was to be performed at the following intervals:

- TPH, BTEX and chlorides – 1, 2, 3, 4, 8, 12 ft. and bottom hole.
- Chlorides only – 5, 6, 7, 9, 10, 11 ft. Samples were held for further testing for TPH and BTEX if necessary.
- If detectable levels of TPH and BTEX were found at 4, 8 and 12 ft., the intermediate intervals would be tested

At some depths, the sample tube was not full due to soft caliche or a caliche rock jamming the tube; these are noted below in my comments.

BH-1. Samples successfully collected from 1 to 9 ft. when sample refusal due hard caliche occurred.

BH-2. Samples 1 to 5 ft. collected; soft caliche jammed tube at 5 ft. preventing further sample collection from 6 to 8 ft. Samples were successfully collected at 10 to 15 ft. where refusal occurred.

BH-3. Samples collected from 2 to 8.5 feet where refusal occurred.

BH-4. Samples collected from 1 to 13 ft. where refusal occurred.

BH-5. Samples collected from 2 to 8 ft. and 13 to 14 ft. No samples from 9 to 12 ft. due to tooling error on my part. Sample at 13 ft. and refusal at 14 ft.

BH-6. Samples from 2 to 4 ft. and 6 to 10.8 ft. with refusal in caliche at 10.8 ft. No sample at 5 ft. as the tube was not full.

Samples were sand with some clayey sand except where caliche was noted. Refusal at depth for all samples was hard caliche. Detailed lithology not obtained but if Oliva wants such, I'll retrieve the jars from Cardinal and prepare the information.

No TPH or BTEX was detected in any of the samples at any depth.

Chloride summary results:

BH-1. Chloride less than 250 mg/kg all samples.

BH-2. Chloride greater than 250 mg/kg samples at 1, 2, 3 ft.; chloride less than 250 mg/kg at samples 4 to 15 ft.

BH-3. Chloride less than 250 mg/kg at 2 ft.; chloride greater than 250 mg/kg samples 3 to 8.5 ft. with high of 3,080 mg/kg at 8 ft.

BH-4. Chloride greater than 250 mg/kg samples at 1 to 6 ft. with high of 5,760 mg/kg at 5 ft.; chloride less than 250 mg/kg at samples 7 to 13 ft.

BH-5. Chloride greater than 250 mg/kg samples at 2 to 8 ft. with high of 10,300 mg/kg at 2 ft.; chloride less than 250 mg/kg at samples 13 to 14 ft.

BH-6. Chloride less than 250 mg/kg at 2, 3, 6 ft.; chloride greater than 250 mg/kg samples at 4, 7 ft. with high of 1,250 mg/kg at 7 ft.; less than 250 mg/kg at samples 7 to 13 ft.

David G. Boyer, P.G.

Hydrogeologist

Safety and Environmental Solutions, Inc.

703 East Clinton St.

P.O. Box 1613

Hobbs, New Mexico 88241

(575) 397-0510 (office)

(575) 393-4388 (fax)

(575) 390-7067 (cell)

dgboyer@sesi-nm.com

From: STan Mickle
To: [Yu, Olivia, EMNRD](#)
Cc: [Oberding, Tomas, EMNRD](#); [Billings, Bradford, EMNRD](#)
Subject: RE: 1RP-4572-0
Date: Sunday, April 23, 2017 7:56:44 PM

Olivia,

Just to be clear, no one at RXSoil intends on doing any remedial work until a work plan is submitted and approved. Once the lab data you requested is back in house and reported. I will schedule an appointment to discuss documentation required prior to submitting a work plan. Maybe later this week.

Thanks,

Stan Mickle | VP of Operations | RXSoil, Inc.
201 Main Street, Suite 1360, Fort Worth, Texas 76102
Office: 817-996-4653 | Cell: 210-997-7645
stan.mickle@rxsoil.solutions

From: Yu, Olivia, EMNRD [mailto:Olivia.Yu@state.nm.us]
Sent: Friday, April 21, 2017 12:25 PM
To: Stan <stan.mickle@rxsoil.solutions>
Cc: Oberding, Tomas, EMNRD <Tomas.Oberding@state.nm.us>; Billings, Bradford, EMNRD <Bradford.Billings@state.nm.us>
Subject: RE: 1RP-4572-0

Dear Mr. Mickle:

Your enthusiasm is appreciated, however NMOCD requires written documentation of the proposed remediation plan for 1RP-4572. The paragraph in the delineation workplan and brief presentation in the Hobbs's office on April 2, 2017 do not provide sufficient technical details for NMOCD to decide whether or not to approve the RXsoil remediation process. At a minimum, these details need to be provided:

- Technical specifications of materials to be used
- Freshwater: source, constituents, estimated volume of freshwater to be used. Include any pertinent calculations
- Standard soil characteristics of the contaminated soil: including, but not limited to, texture, bulk density, soil organic matter content, pH, conductivity, and parameters mentioned during the presentation (including CEC, SAR, ESP, etc).
- Timeline and time frame of the washing procedure
- General chemical list used in the RXsoil process.

To reiterate, no remediate activities are permitted for 1RP-4572 until NMOCD is provided the above

information and has had time to review. Please confirm.

Thanks,

Olivia Yu
Environmental Specialist
NMOCD, District I
Olivia.yu@state.nm.us
575-393-6161 x113

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From: Stan [<mailto:stan.mickle@rxsoil.solutions>]
Sent: Friday, April 21, 2017 7:51 AM
To: Yu, Olivia, EMNRD <Olivia.Yu@state.nm.us>
Cc: Oberding, Tomas, EMNRD <Tomas.Oberding@state.nm.us>; Billings, Bradford, EMNRD <Bradford.Billings@state.nm.us>
Subject: Re: 1RP-4572-0

Yes, I have sent the same request to Mike at District II
I can use duct tape if adhesive is a problem, it's a temporary structure that stays above ground and gets disposed post remediation. All is above poly-liner, totally encapsulated.

Stan Mickle I VP of Operations I RXSoil, Inc.
201 Main Street, Suite 1360 I Fort Worth, Texas 76102 I
Office: 817-996-4653 I Cell: 210-997-7645
Stan.mickle@rxsoil.solutions

On Apr 21, 2017, at 7:22 AM, Yu, Olivia, EMNRD <Olivia.Yu@state.nm.us> wrote:

Good morning Mr. Mickle:

Please be advise that NMOCD has not agreed upon the proposed remediation procedure yet. Currently, NMOCD requests further delineation regarding 1RP-4572.

Is this adhesive proposed also for the project in District II?

Olivia

From: STan Mickle [<mailto:stan.mickle@rxsoil.solutions>]
Sent: Thursday, April 20, 2017 7:23 PM
To: Yu, Olivia, EMNRD <Olivia.Yu@state.nm.us>
Cc: Oberding, Tomas, EMNRD <Tomas.Oberding@state.nm.us>
Subject: 1RP-4572-0

Hi Olivia,

Just wanted to get clearance on this adhesive material before using on the above site. This will hold together my 6" flaps tying together my temporary drain structure. This would replace grey duct tape and provides added strength to the entire subgrade during active remediation.

Thanks in advance

Stan Mickle | VP of Operations | RXSoil, Inc.
201 Main Street, Suite 1360, Fort Worth, Texas 76102
Office: 817-996-4653 | Cell: 210-997-7645
stan.mickle@rxsoil.solutions

From: Stan
To: [Yu, Olivia, EMNRD](#)
Cc: [Oberding, Tomas, EMNRD](#)
Subject: Re: 1RP-4572-0
Date: Tuesday, April 11, 2017 12:53:26 PM

Received and Understood. Confirmed

Stan Mickle | VP of Operations | RXSoil, Inc.
201 Main Street, Suite 1360 | Fort Worth, Texas 76102 |
Office: 817-996-4653 | Cell: 210-997-7645
Stan.mickle@rxsoil.solutions

On Apr 11, 2017, at 10:32 AM, Yu, Olivia, EMNRD <Olivia.Yu@state.nm.us> wrote:

Mr. Mickle:

There is a discrepancy with the revised Google Earth map for 1RP-4572 in regards to the delineation points. Are the additional labels your proposed borehole/sample points (15-21)?

NMOCD requests additional vertical delineation sample points for 1RP-4572. They are marked with turquoise stars in the attachment. Complete vertical delineation refers to <= 250 mg/kg Chloride levels obtained and maintained for 10 additional feet below. Depth intervals are 5 ft. and bottom samples need to be sent to an accredited laboratory for chloride, benzene, BTEX, and TPH. The site appears to be delineated horizontally, still NMOCD will require sidewall confirmation samples during the remediation stage. Please confirm.

Thanks,

Olivia Yu
Environmental Specialist
NMOCD, District I
Olivia.yu@state.nm.us
575-393-6161 x113

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From: STan Mickle [<mailto:stan.mickle@rxsoil.solutions>]

Sent: Monday, April 10, 2017 9:52 PM
To: Yu, Olivia, EMNRD <Olivia.Yu@state.nm.us>
Cc: Oberding, Tomas, EMNRD <Tomas.Oberding@state.nm.us>
Subject: RE: 1RP-4572-0

Olivia,
Try this one

Stan Mickle I VP of Operations I RXSoil, Inc.
201 Main Street, Suite 1360, Fort Worth, Texas 76102
Office: 817-996-4653 I Cell: 210-997-7645
stan.mickle@rxsoil.solutions

From: Yu, Olivia, EMNRD [<mailto:Olivia.Yu@state.nm.us>]
Sent: Monday, April 10, 2017 4:22 PM
To: STan Mickle <stan.mickle@rxsoil.solutions>
Cc: Oberding, Tomas, EMNRD <Tomas.Oberding@state.nm.us>
Subject: RE: 1RP-4572-0

Mr. Mickle:

The Google Earth map on which the delineation samples are presented for 1RP-4572 is misleading. To expedite my review, please use the most current Google Earth image from Nov 2016. Otherwise, I review submitted documents in the order in which I receive them.

Thanks,
Olivia

From: STan Mickle [<mailto:stan.mickle@rxsoil.solutions>]
Sent: Monday, April 10, 2017 12:03 PM
To: Yu, Olivia, EMNRD <Olivia.Yu@state.nm.us>
Subject: 1RP-4572-0

Hi Olivia,

Pleasure meeting you last week. Can you please provide further instructions to complete the delineation process on above mentioned site here in Hobbs. I have attached a separate spill map to assist in locations, feel free to email back or I can swing by office as I am still in Hobbs till Wednesday.
Thanks in advance

Stan Mickle | VP of Operations | RXSoil, Inc.

201 Main Street, Suite 1360, Fort Worth, Texas 76102

Office: 817-996-4653 | Cell: 210-997-7645

stan.mickle@rxsoil.solutions

<RP4572_RuthcoMapv2.pdf>