

From: [Yu, Olivia, EMNRD](mailto:Yu.Olivia.EMNRD)
To: ryan@oilsaltsremediation.com
Subject: RE: Heisenberg 7H Spill - Case Number: 1RP-4879
Date: Tuesday, April 3, 2018 8:49:00 AM
Attachments: reviewed_3Apr2018_Release Characterization Workplan_1RP-4879.pdf

Good morning Mr. Millunzi:

Several comments regarding the release characterization plan for 1RP-4879.

- There is no need to line the area bounded by the sample locations SP14, SP16, SP15, and SP18. Data for SP15 and SP16 do not demonstrate BTEX, TPH extended, or chlorides above permissible levels.
- However, the area represented by SP13, SP14, and SP18 do exceed TPH extended and chloride levels for depth to groundwater between 50 – 100 ft. bgs. Permissible levels for delineation and remediation are 1000 mg/kg for TPH extended and 600 mg/kg for chlorides. Horizontal and vertical delineation will need to be completed for these areas. Soil samples do not need to be tested for BTEX.

Based on the data provided, NMOCD proposes the following plan to complete release characterization:

- Area represented by SP 13 surface exceeds TPH extended and chlorides. At 1 ft. bgs, chlorides are still above permissible levels. Vertical delineation will need to be completed until chlorides levels reached 600 mg/kg and maintained for at least 3 ft. further in depth. To complete horizontal delineation, step out laterally until surface samples are within permissible levels of TPH extended and chlorides. Laboratory data for each sample depths. For example, if permissible levels are reached at 2 ft. bgs, laboratory data for 2 ft. bgs and 5 ft. bgs.
- Area represented by SP14 exceeds permissible TPH extended at surface and 1 ft. bgs. Vertical delineation must be completed. Sample at depth (deeper 1 ft. bgs) must be \leq 1000 mg/kg TPH extended. Test for chlorides as well.
- Area represented by SP18 exceeds chlorides levels at surface, but within permissible levels at 1 ft. bgs. An additional 3 ft. is requested to ensure chloride levels are maintained \leq 600 mg/kg.

Based on aerial imagery, delineation and remediation may be conducted with a backhoe. Please remember to submit all associated field data for depths not submitted for laboratory analyses. NMOCD recommends that any excavated soil that is potentially impacted to be placed on a plastic liner with berms to prevent enlarging the release area.

Please inform for clarification or questions.

Thanks,
Olivia

From: ryan@oilsaltsremediation.com <ryan@oilsaltsremediation.com>
Sent: Wednesday, March 14, 2018 11:58 AM
To: Yu, Olivia, EMNRD <Olivia.Yu@state.nm.us>
Subject: RE: Heisenberg 7H Spill - Case Number: 1RP-4879

Good Afternoon Olivia,

Attached is the revised Release Characterization Workplan for 1RP-4879 with the additional samples included. Please let me know if there is anything that you would like me to make amendments to.

Thank you,

Ryan Millunzi
Microbiologist
ryan@oilsaltsremediation.com
(936) 648-7549
REX, LLC

----- Original Message -----

Subject: RE: Heisenberg 7H Spill - Case Number: 1RP-4879
From: "Yu, Olivia, EMNRD" <Olivia.Yu@state.nm.us>

Date: Thu, March 08, 2018 7:12 am
To: "ryan@oilandsaltremediation.com" <ryan@oilandsaltremediation.com>

Good morning Mr. Millunzi:

Thank you for your prompt response. What is the distance from the wellhead for your delineation sample locations? In general, NMOCD recognizes a radius of 5 ft. around the wellhead in order to not hinder production.

Olivia

From: ryan@oilandsaltremediation.com [<mailto:ryan@oilandsaltremediation.com>]
Sent: Thursday, March 8, 2018 6:03 AM
To: Yu, Olivia, EMNRD <Olivia.Yu@state.nm.us>
Subject: RE: Heisenberg 7H Spill - Case Number: 1RP-4879

Good Morning Olivia,

The stockpiled soil should be clean and not affected by the release. I will confirm that with Steward and let you know either way.

I have been coordinating with Steward about their plans for remediation and working on the workplan this week. I will have it to you by the end of tomorrow. It looks as if some of the additional samples from around the wellhead came back with chloride levels over 600 PPM. Being right near the wellhead and located on top of the pad, Steward would like to opt for deferment of any excavation activities if possible. Is there anything specific you would like me to include in the workplan?

Thank you,

Ryan Millunzi
Microbiologist
ryan@oilandsaltremediation.com
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----- Original Message -----

Subject: RE: Heisenberg 7H Spill - Case Number: 1RP-4879
From: "Yu, Olivia, EMNRD" <Olivia.Yu@state.nm.us>
Date: Wed, March 07, 2018 5:12 pm
To: "ryan@oilandsaltremediation.com" <ryan@oilandsaltremediation.com>

Mr. Millunzi:

Do you have an update to 1RP-4879? I went by the release location yesterday and there appears to be pile of soil on location. Is this stockpiled soil clean? Pre-release?

Thanks,
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From: ryan@oilandsaltremediation.com
[<mailto:ryan@oilandsaltremediation.com>]
Sent: Thursday, February 1, 2018 7:26 AM
To: Yu, Olivia, EMNRD <Olivia.Yu@state.nm.us>
Subject: RE: Heisenberg 7H Spill - Case Number: 1RP-4879

Olivia,

Just wanted to let you know that we have acquired the additional samples requested and are putting together the revised workplan today and tomorrow.

Thank you,

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----- Original Message -----

Subject: RE: Heisenberg 7H Spill - Case Number: 1RP-4879
From: "Yu, Olivia, EMNRD" <Olivia.Yu@state.nm.us>
Date: Thu, December 21, 2017 1:13 pm
To: "ryan@oilandsaltremediation.com"
<ryan@oilandsaltremediation.com>

Mr. Millunzi:

Yes, equivalency of methods would be preferable. Base on the information and data provided, no other delineation samples will be required for 1RP-4879.

Thanks,
Olivia

From: ryan@oilandsaltremediation.com
[<mailto:ryan@oilandsaltremediation.com>]
Sent: Thursday, December 21, 2017 11:43 AM
To: Yu, Olivia, EMNRD <Olivia.Yu@state.nm.us>
Subject: RE: Heisenberg 7H Spill - Case Number: 1RP-4879

Good Afternoon Olivia,

I will get a statement from Xenco on the equivalency of TX1005 and EPA 8015 instead of them analyzing the samples again, if that is acceptable to OCD.

I'll make a trip out to the site next week to get some additional photos and include them in the delineation report. I'll also be sure to fill OCD's request of additional samples around the well head. Is there any other additional sample locations not include in the original report that OCD would require?

Thank you,

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Microbiologist
ryan@oilandsaltremediation.com
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----- Original Message -----

Subject: RE: Heisenberg 7H Spill - Case Number: 1RP-4879
From: "Yu, Olivia, EMNRD" <Olivia.Yu@state.nm.us>
Date: Thu, December 21, 2017 10:03 am
To: "ryan@oilandsaltremediation.com"
<ryan@oilandsaltremediation.com>

Good morning Mr. Millunzi:

Are the samples to be reanalyzed still within the holding window? Please be advised that the maximum holding time for samples to be analyzed for TPH extended and BTEX is 14 days from collection. Based on the laboratory chain of command, this window has been exceeded.

Please provide photos, if available and in jpeg/tiff format, at the furthest extent of the misted area and of the release point for 1RP-4879. The photos included in the delineation report does not demonstrate sufficiently.

Also, is there another consultant working with you on this project?

Thanks,
Olivia

From: ryan@oilandsaltremediation.com
[<mailto:ryan@oilandsaltremediation.com>]

Sent: Wednesday, December 20, 2017 8:59 AM

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

Subject: RE: Heisenberg 7H Spill - Case Number: 1RP-4879

Olivia,

Xenco is going to re analyze the samples using method 8015 for TPH. In regards to BTEX, you stated SW 5030B is not an approved method. All samples were analyzed using EPA 8021 but prepared by SW 5030B. Do these need to be prepared via 5035 and analyzed EPA 8260? Or is the current analyzation using EPA 8021 sufficient?

In regards to the implication that all 80 bbls flowed in a northeasterly direction, from the source of the release (the 3/8" nipple at the wellhead) a mist was produced that covered the 16.75 acres to the northeast. There is no slope gradient necessary as the mist was sprayed into the air and carried by wind.

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----- Original Message -----

Subject: RE: Heisenberg 7H Spill - Case Number: 1RP-4879

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

Date: Wed, December 20, 2017 8:21 am

To: "ryan@oilandsaltremediation.com" <ryan@oilandsaltremediation.com>

Good morning Mr. Millunzi:

To determine equivalency of methods, request that either the laboratory provide a statement or the SOPs with the differences in methodology highlighted.

In regards to the additional sample locations: NMOCD requires verification that the impacted area has been fully characterized. The requested samples are not outside of the impact area. Based on the map provided, the area west of the release point was not impacted as the spill area was outlined to the Northeast. Is the implication that all 80 bbls flowed in a northeasterly direction? There does not appear to be a slope gradient in the area. However, chloride concentration at 1 ft. bgs for HS 11 is the highest of the provided data. Please provide a rationale for the discrepancy. This is the reason for the request of additional samples.

Also, please ensure that the same sample ID is used in laboratory reports, figures, tables, and text.

Thanks,
Olivia

From: ryan@oilandsaltremediation.com
[<mailto:ryan@oilandsaltremediation.com>]

Sent: Tuesday, December 19, 2017 3:12 PM

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

Subject: RE: Heisenberg 7H Spill - Case Number: 1RP-4879

Good Afternoon Olivia,

In OCD's concern of TX1005P nor SW 5030B not being approved methods, you asked me to provide documentation of equivalencies. Could you elaborate on this? Would OCD request that I have new analytical reports made with the proper methods or is there a way to show the two methods as equivalent?

In OCD's concern of a minimum of 4 delineation sample locations (cardinal directions), could you elaborate this as well? I had control samples taken outside the spill area in all 4 cardinal directions. If there is a specific method that OCD would like me to have the 4 delineation samples taken please let me know and I will get it done.

Thank you,

Ryan Millunzi
Microbiologist
ryan@oilsaltsremediation.com
(936) 648-7549
REX, LLC

----- Original Message -----

Subject: RE: Heisenberg 7H Spill - Case
Number: 1RP-4879
From: "Yu, Olivia, EMNRD"
<Olivia.Yu@state.nm.us>
Date: Tue, December 19, 2017 8:24 am
To: "ryan@oilsaltsremediation.com"
<ryan@oilsaltsremediation.com>

Mr. Millunzi:

In addition to the concerns indicated in the email below from December 7, 2017, regarding the delineation workplan for 1RP-4879:

1. Neither TX1005P nor SW 5030B are NMOCD approved methods. Please provide documentation of equivalencies.
2. As indicated on the initial C-141 form, the release was at the wellhead. Sample locations at the 4 cardinal directions need to be situated around the release point. Please provide photo documentation of the spill area on the well pad.

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: ryan@oilsaltsremediation.com
[<mailto:ryan@oilsaltsremediation.com>]
Sent: Thursday, December 7, 2017 3:01 PM
To: Yu, Olivia, EMNRD <Olivia.Yu@state.nm.us>
Subject: RE: Heisenberg 7H Spill - Case
Number: 1RP-4879

Olivia,

Attached is the Release Characterization Workplan
pertaining to 1RP-4879 for OCD approval.

Thank you,

Ryan Millunzi
Microbiologist
REX, LLC

----- Original Message -----

Subject: RE: Heisenberg 7H Spill - Case Number:
1RP-4879

From: "Yu, Olivia, EMNRD"

<Olivia.Yu@state.nm.us>

Date: Thu, December 07, 2017 11:57 am

To: "ryan@oilandsaltremediation.com"

<ryan@oilandsaltremediation.com>

Mr. Millunzi:

NMOCD agrees that the impacted
vegetation for 1RP-4879 can be removed
and properly disposed at a NMOCD-
permitted facility or equivalent.

Please be advised that

1. The information provided on the initial C-141
did not indicate that the volume released
was in a mist format. Please verify.
2. NMOCD requests that a minimum of 4
delineation sample locations (cardinal
directions) be established around the
wellhead, which is the source of the release.

Please confirm or inform for clarification.

Thanks,

Olivia Yu
Environmental Specialist
NMOCD, District I
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From: ryan@oilandsaltremediation.com
[mailto:ryan@oilandsaltremediation.com]

Sent: Thursday, December 7, 2017 8:38 AM

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

Subject: Heisenberg 7H Spill - Case Number: 1RP-4879

Good morning Olivia,

I've attached the following documents pertaining to the Heisenberg 7H spill, incident database and remediation case number 1RP-4879.

- Data tables containing ppm values for TPH, Chloride, and BTEX
- A PDF of the site map
- The analytical report from Xenco Laboratories.
- The images that I took from the site.

I talked to Rick Fields, at Steward Energy and confirmed that the surface owner is private, it is owned by El Ray Salt Co, and the owner that they have dealt with is Nathan Lowe - the president of El Ray Salt. I would also like to confirm that it is fine with New Mexico OCD that the farmer remove the cotton from his field so that he may continue on to his other fields. If you need anything else from me, please let me know.

Thank you,

Ryan Millunzi
Microbiologist
REX, LLC







From: ryan@oilandsaltremediation.com
To: [Yu, Olivia, EMNRD](#)
Subject: RE: Heisenberg 7H Spill - Case Number: 1RP-4879
Date: Thursday, March 8, 2018 3:17:06 PM
Attachments: bottom.letterhead

Olivia,

The delineation sample locations are not within 5 ft of the wellhead, they are anywhere between 30 ft and 200 ft away. The request for deferment was based on specific ongoing production activities (trucks and workover rigs having to be onsite regularly) and it had been hoped it would be allowable as the contamination did not leave the caliche pad and didn't have any affect on surrounding native soil.

Thank you,

Ryan Millunzi
Microbiologist
ryan@oilandsaltremediation.com
(936) 648-7549
REX, LLC

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Date: Wed, March 07, 2018 5:12 pm

To: "ryan@oilandsaltremediation.com" <ryan@oilandsaltremediation.com>

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Date: Thu, December 21, 2017 10:03 am
To: "ryan@oilandsaltremediation.com"
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Good morning Mr. Millunzi:

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Environmental Specialist

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Olivia.yu@state.nm.us
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Thank you,

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Microbiologist
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