



Recovered waste will be disposed of at PDI/R360.

**Other Agencies Involved:**

USFWS

**Updates**

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**Date:** 3/23/2017      **Status:** Reviewed - Follow-up Required

**Author:** O'Gorman, Brian

**Notes:**

Release, due to a valve leak, was not contained and impacted an area off site according to the report. Further follow-up needed.

**Updated Volume:** None at the time of this update

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**Date:** 3/24/2017      **Status:** Inspection

**Author:** Kannenberg, Derek

**Notes:**

On site 1500 CT. 49 degrees F. Partly Cloudy.

No workers onsite. Release appears to have flowed off east side of pad towards a wetland. There are pools of standing water in impacted area that maxed out a HR chloride strip (>6,000 ppm). Running water leading to road ditch appears to be melt water from ice on pad. Low range chloride strip registered < 50 ppm Cl. Some oil staining in affected area, in addition to gray vegetation. Chloride strip at point of possible entry registered 270 ppm. Samples taken at possible entry point (Site 2: 48.487516, -102.905537) and from opposite side of slough (Site 1: 48.486607, -102.904151). Follow-Up required after sample results. No photos taken.

**Updated Volume:** None at the time of this update

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**Date:** 3/27/2017      **Status:** Awaiting Documentation

**Author:** O'Gorman, Brian

**Notes:**

Added custody record for 3/23/2017 water sample collection to incident folder. More follow-up needed.

**Updated Volume:** None at the time of this update

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**Date:** 3/30/2017      **Status:** Inspection

**Author:** Stockdill, Scott

**Notes:**

Arrived on location 12:54, 3/30/2017.

Spill released to the east of the wellpad leading down drainage toward wetland. Large amount of soil has been excavated and disposed of. Cleanup contractor has been field screening site; no indication of contamination of wetland to the south.

More follow-up is necessary to ensure proper cleanup.

**Updated Volume:** None at the time of this update

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**Date:** 8/2/2017      **Status:** Correspondence

**Author:** O'Gorman, Brian

**Notes:**

Received hard copy results from water sample collected by NDDoH inspector on 3/23/2017. Results showed sodium to be very high at 257 mg/L, chlorides to be very high at 546 mg/L and bromides at 1.73 mg/L. Results added to incident folder. Further follow-up needed.

**Updated Volume:** None at the time of this update

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**Date:** 8/7/2017      **Status:** Inspection

**Author:** Crowdus, Kory

**Notes:**

On location 8/7/2017, at 11:29am. Weeds and bare ground remain in the impacted area. A dirt berm is in place near the edge of wetland area. A water sample was collected near the bermed area of wetland. Further follow-up is required.

**Updated Volume:** None at the time of this update

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**Date:** 3/19/2018      **Status:** Correspondence

**Author:** O'Gorman, Brian

**Notes:**

Received hard copy results from a water sample collected by Kory on 8/7/2017 at the edge of the wetland. Lab results show very high readings of sodium (9340 mg/L), chlorides (19,300 mg/L) and bromides (65.8 mg/L). Results added to the incident folder. Further follow-up needed.

**Updated Volume:** None at the time of this update

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**Date:** 4/4/2018      **Status:** Correspondence

**Author:** O'Gorman, Brian

**Notes:**

Received an email from the company contact on 4/3/2018 with an explanation for additional work at the site and a site map showing sample points and release areas. The email states that they are proposing additional excavation east of the well pad, due to affected vegetation and impacted soils remaining. The contact refers to a June 28, 2017 Supplemental Site Assessment Work Plan (SSAWP) that was sent on 6/29/2017. A review of the SSAWP report shows that they were addressing the April 2016 release. This incident occurred in March of 2017 in approximately the same area as the 2016 release. Since this is the most recent release in approximately the same area, the SSAWP will be added to this incident folder and the 2016 release (oilfield incident # 20160406093600) will be referred to this incident.

**Updated Volume:** None at the time of this update

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**Date:** 6/12/2018      **Status:** Inspection

**Author:** O'Gorman, Brian

**Notes:**

Arrived on location at 15:40. Observed the site and took photos. It appeared that the vegetation was returning near the wetland west edge. However, it still appeared that some of the soils near the wetland contained salt deposits in the soil. Photos added to the incident folder. More follow-up needed.

**Updated Volume:** None at the time of this update

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**Date:** 6/28/2019      **Status:** Correspondence

**Author:** O'Gorman, Brian

**Notes:**

Received an email from the company's consultant discussing the assessment activities and containing attachments showing the location, plan, excavation areas, surface water analytical, soil analytical, groundwater analytical, proposed well locations and tables. The email discusses adding 3 monitoring wells, sampling and 1 air sparge well near MW-1. The attachments show continued saltwater impacts to the surface water of the wetland and to the groundwater east of the site. Further follow-up needed. Email and attachment added to the incident folder.

**Updated Volume:** None at the time of this update

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**Date:** 12/22/2020      **Status:** Correspondence - More Follow-up Required

**Author:** DeVries, Taylor

**Notes:**

A meeting is scheduled with Hess in January. Will request the 2019 and 2020 groundwater sampling results. Further follow-up is needed.

**Updated Volume:** None at the time of this update

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**Date:** 9/16/2021      **Status:** Inspection - More Follow-up Required

**Author:** DeVries, Taylor

**Notes:**

Inspection Date: 9/16/2021

Arrived on location at 1815. There are bare patches of vegetation visible within the monitoring wells. Groundwater monitoring continues at this location. Further follow-up is needed.

Photos were taken and can be found in the incident folder.

**Updated Volume:** None at the time of this update

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**Date:** 8/2/2022      **Status:** Inspection - More Follow-up Required

**Author:** Sues, Bill

**Notes:**

Inspected the site on 7/26/2022. Arrived on site at 11:35 AM and Earth Systems was just setting up to sample the monitoring wells. Most of the area is looking healthy with the exception of a few bare spots off the well pad. Discuss sample results and plans with the RP at the August 15, 2022 meeting.

**Updated Volume:** None at the time of this update

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**Date:** 12/13/2022      **Status:** Correspondence - More Follow-up Required

**Author:** Sues, Bill

**Notes:**

Met with the RP to discuss a more aggressive approach to the remediation. A work plan will be developed over the winter months for implementation in the spring.

**Updated Volume:** None at the time of this update

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**Date:** 2/7/2023      **Status:** Correspondence - More Follow-up Required

**Author:** Sues, Bill

**Notes:**

Will meet with the RP in early March to discuss a path forward.

**Updated Volume:** None at the time of this update