



June 9, 2023

Project No. 31406585.016

Ms. Maureen Hatfield

Texas Commission on Environmental Quality
MC-127
VCP-CA Section, Team 1, Remediation Division
P.O. Box 13087
Austin, Texas 78711-3087

**Re: MONTHLY STATUS UPDATE – ENGLEWOOD INTERMODAL YARD – NAPL COLLECTION
SYSTEM/CONCRETE CAP REPAIRS
UNION PACIFIC RAILROAD HOUSTON WOOD PRESERVING WORKS FACILITY
4910 LIBERTY ROAD FACILITY, HOUSTON, TEXAS
POST-CLOSURE CARE PERMIT NO. HW-50343; INDUSTRIAL SWR NO. 31547**

Dear Ms. Hatfield:

WSP USA Inc. (WSP), on behalf of Union Pacific Railroad Company (UPRR), is pleased to provide this monthly status update for May 2023 for inspections conducted at the Englewood Intermodal Yard concrete cap area within the UPRR Houston Wood Preserving Works Facility (the Site). Monthly status updates were requested by the Texas Commission on Environmental Quality (TCEQ) in a letter dated March 20, 2018.

A non-aqueous phase liquid (NAPL) Collection System was installed in the Englewood Intermodal Yard in January 2019 to address the tar-like substance seeps within parking stalls B100 to B109 (for container trailers). The following is a summary of the observations from the weekly inspections of the NAPL Collection System and Englewood Intermodal Yard concrete pavement near the collection system for May 2023 (photographs from the weekly inspections are provided in Attachment A):

- Water levels in NAPL Collection System Sump 1 (B099/B100 stalls), Sump 2 (B103/B104 stalls), and Sump 3 (B107/B108 stalls) were measured at 3 inches, 18 inches, and 17.5 inches from top of the manhole, respectively, during the inspection on May 3, 2023 (Photo Nos. 5-7). By the May 10, 2023 inspection, the water level in Sump 1 had increased to the top of the manhole (Photo No. 15) and remained within an inch of that level through the May 17, 2023 inspection (Photo No. 21). Water levels in Sumps 2 and 3 increased from 1.5 inches from the top of the manhole on May 10, 2023 (Photo Nos. 16 and 17) to near the top of the manhole by the inspection on May 17, 2023 (Photo Nos. 22 and 23). UPRR remediation contractor OMI conducted a pump down of the sumps on May 24, 2023. All three sumps were completely emptied during the pump down (Photo Nos. 44 and 45). In total, approximately 8,300 gallons of water was pumped out of the sumps and transported for disposal at the Delta Water Processing in Houston, Texas. Final shipping documents from the event are included in Attachment B. During the final inspection of the month on May 31, 2023, the water levels in the sumps were measured at 28, 50, and 49 inches from the top of the manholes for Sumps 1, 2 and 3,

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respectively (Photo Nos. 48-50). A clear bailer was used to collect water from each sump to observe the color of the water. Observations of non-clear water are noted in Table 1. On every weekly inspection made in May 2023, the water was observed to be light brown in Sump 1 (Photo Nos. 6,15, 21, and 32), except on May 31, 2023 when it was observed to be brown (Photo No. 48). Sheen was observed in Sump 1 on May 24 and 31, 2023 (Photo Nos. 32 and 48). Sheen was observed in Sump 3 on May 10 and 17, 2023 (Photo Nos.17 and 23). No odors were reported during the May inspections.

- The NAPL Collection System sumps (Sumps 1, 2, and 3) have continued to be checked weekly for DNAPL using an interface probe. No measurable NAPL has been detected within the sumps using the interface probe through May 2023. Even though no measurable DNAPL was noted, a hoe has continued to be used to further evaluate the presence of and recover DNAPL, if present, from the bottom of each of the sumps during the weekly inspections. No DNAPL was encountered or recovered from the sumps during May 2023 weekly inspections or the pump down event. A notation on the presence of NAPL in each sump, tabulation of depth and thickness of NAPL if detected, and a tabulation of total mass of NAPL recovered from each sump is provided on the enclosed Table 1. Any NAPL recovered from the sumps is placed in a drum for disposal. The drum is staged at the Container Storage Area (CSA). An accumulation of NAPL on the bottom of the inflow protector in Sump 1 was observed during the inspection on September 14, 2022. The material was removed, and the inflow protector was monitored during subsequent inspections for additional NAPL accumulation. No additional accumulation was observed through May 31, 2023.
- A small tar-like material seep was observed on the southern edge of the NAPL Collection System in cracks in the cement along the joint of Stall B107 during the July 6, 2022 weekly inspection. A small amount of tar-like material was recovered at this location on May 10, 17, 24 and 31, 2023 (Photo Nos. 13, 20, 31, and 47).
- For areas outside the NAPL Collection System, a small amount of tar-like material was observed on the concrete or asphalt surface at the following locations during the May 2023 weekly inspections:

| Seep Observations Outside the NAPL Collection System Area | |
|---|--|
| Stall Number | Observation Date(s) |
| A011 | May 3 rd , May 10 th , May 17 th , May 24 th , and May 31 st (Photo Nos. 1, 10, 18, 30, and 46) |
| A022 | May 10 th , May 17 th , May 24 th , and May 31 st (Photo Nos. 11, 26, 40, and 56) |
| B056 | May 17 th , May 24 th , and May 31 th (Photo Nos. 19, 41, and 60) |
| B057 | May 17 th , May 24 th , and May 31 th (Photo No. 19, 41, and 57) |
| B096 | May 3 rd (Photo No. 3) |
| Track 802 | May 10 th , May 17 th , and May 31 st (Photo No. 12, 27 & 52) |
| RD-14 | May 10 th , May 17 th , and May 31 st (Photo No. 14, 28 & 53) |

- As detailed in the July 2022 Monthly Status Update, a tar-like material seep was observed next to Track 802 that is located approximately 280 feet northwest of the NAPL Collection System. The tar-like material seep is

located along on the northern side of the track at the edge of the railroad ballast (Photo No. 12). During the September 28, 2022 weekly inspection, an additional tar-like material seep was observed within the concrete road area (RD-14) about 45 feet north of Track 802 and east of the existing Track 802 seep location (Photo No. 14). A very small amount of tar-like seep material was recovered at the Track 802 and RD-14 locations during all four of the inspections in May 2023.

- Tar-like material observed during the weekly inspection events was removed and recovered using a hand tool to scrape up the material. The number of tar-like material seeps observed, and total volume of material recovered during the month of May was similar to the April inspections. Less than 0.3 gallons of tar-like material was recovered for the month from the seep locations. The material that was recovered was placed in a drum staged at the CSA for disposal.
- After the pressure washing event on April 26, 2023, brown staining/residue and a small amount of seep water returned along cracks in the paved areas throughout the A and B rows by the May 3, 2023 inspection. The heaviest staining was observed in stalls A060-A065 (Photo No. 4). UPRR remediation contractor OMI arrived onsite on May 4, 2023. OMI was able to pressure wash the staining and seepage (Photo No. 9). On May 24, 2023, brown staining/residue was observed again in the Row A and B stalls with the heaviest staining occurring in stalls A063-A070 (Photo No. 35 and 42). UPRR remediation contractor OMI arrived onsite on May 25, 2023. OMI was able to pressure wash the staining and brown water (Photo No. 43). The brown staining again returned to the aforementioned areas by the May 31, 2023 inspection, and was also observed in stalls C077 and C078 (Photo No. 59). UPRR remediation contractor OMI was again utilized on June 6, 2023 to pressure wash the staining and brown water. Wash water from the clean-up events in was recovered and is staged in a tote onsite pending transportation and disposal. UPRR will continue to have a remediation contractor pressure wash and collect the water in the areas where the brown staining and seeps are observed, as needed.
- WSP, on behalf of UPRR, submitted to the TCEQ the Englewood IM Yard Test Pit Evaluation Report dated June 2, 2021 summarizing the findings from the test pits installed in July 2020, including weekly inspections since the installation. As discussed in the Test Pit Report, the test pit inspections were to continue through the warmer months (through September 2021). UPRR will prepare a Test Pit Evaluation Report Addendum summarizing the test pit inspections from June through November 2021. During inspections in June and July 2021 the concrete patches covering test pits in stalls A010, A021, B013, B057, B096, and B108 were observed to be damaged. UPRR contractor US Ecology removed the damaged test pit concrete on October 22, 2021 and completed installation of new rebar and concrete on October 25, 2021. The new concrete patches continue to be monitored during the weekly inspections.

During the inspection on September 28, 2022, a small amount of tar like material was observed in stall B096 adjacent to the test pit patch for the first time since the test pit installation. A very small amount of tar-like material was recovered from the B096 historical seep location during the inspection on May 3, 2023 (Photo No. 24). Through May 31 2023, no NAPL seeps have been observed at the six other test pit locations (stalls A010, A021, A098, B013, B057, and B108). The seep observed in stall B057 (Photo No. 41) during the inspection on May 17, 2023, May 24 2023, and May 31, 2023 is located in cracks in the asphalt pavement and not at the test pit location.

- A follow-up video camera survey of the stormwater sewer lines in the central area of the Englewood IM Yard was conducted on August 26, 2021 to evaluate the stormwater line near the test pit locations. Details of the follow-up video survey will be provided in the Test Pit Evaluation Report Addendum.
- The TCEQ issued a comment letter dated January 26, 2022 titled "*Comments on Interim Groundwater Monitoring Report (July 2020), dated April 30, 2021 Englewood Intermodal Yard (EIY) Test Pit Evaluation Report, dated June 2, 2021, Corrective Action Monitoring Report, 2021 First Semi-Annual Event, dated July 9, 2021*". In the comment letter, the TCEQ requested UPRR prepare an Interim Measures Work Plan (Work Plan) to address the NAPL seeps in the Englewood Intermodal Yard. The TCEQ requested that the Work Plan

include a schedule and plan for implementation of additional interim measures to permanently address the NAPL seeps in the Englewood Intermodal Yard. UPRR submitted the requested Work Plan dated May 17, 2023 to the TCEQ on May 24, 2023. The Work Plan is currently being reviewed by the TCEQ.

Weekly site inspections of the NAPL Collection System and Englewood Intermodal Yard concrete pavement near the collection system will continue to be conducted.

If you have any questions or need additional information, please feel free to call us at (512) 671-3434 or Mr. Kevin Peterburs of UPRR at (414) 267-4164.

Sincerely,

WSP USA Inc.



Christopher Elofson, P.G.
Consultant, Geologist



Eric C. Matzner, P.G.
Director, Hydrogeologist

CC: Mr. Kevin Peterburs, UPRR – Milwaukee, WI
Ms. Alma Jefferson, Waste Section Manager, TCEQ Region 12, Houston

Attachment Table 1 – NAPL Measurements – NAPL Collection System
Attachment A – Weekly Inspection Photolog
Attachment B – Waste Shipping Documents

TABLE 1
NAPL Measurements - NAPL Collection System - Englewood Intermodal Yard
UPRR Houston, tx - Wood Preserving Works

| Measured Date | Sump 1 (B099/B100) Freeboard (in) | Sump 2 (B103/B104) Freeboard (in) | Sump 3 (B107/B108) Freeboard (in) | Depth to DNAPL (in) | Comments |
|---------------|-----------------------------------|-----------------------------------|-----------------------------------|---------------------|--|
| 8/14/2019 | 2.5 | 28 | 29 | Not measurable | |
| 8/21/2019 | 0 | 27.5 | 26.5 | Not measurable | |
| 8/28/2019 | 44.5 | 47.9 | 45 | Not measurable | Water from sumps pumped out |
| 9/4/2019 | 19 | 42 | 41.5 | Not measurable | |
| 9/13/2019 | 0 | 39.5 | 38 | Not measurable | |
| 9/20/2019 | 0 | 3 | 2.5 | Not measurable | |
| 9/25/2019 | 0 | 42 | 42.5 | Not measurable | Water from sumps pumped out |
| 10/2/2019 | 2.5 | 42.5 | 42 | Not measurable | Sheen visible in B107/B108 sump, less than 0.1 gal of DNAPL recovered |
| 10/9/2019 | 3 | 42 | 41.5 | Not measurable | Sheen visible in B107/B108 sump, less than 0.1 gal of DNAPL recovered |
| 10/16/2019 | 0 | 39.5 | 39 | Not measurable | Less than 0.1 gal of DNAPL recovered from B107/B108 Sump |
| 10/24/2019 | 3 | 35 | 25 | Not measurable | Less than 0.1 gal of DNAPL recovered from B107/B108 Sump |
| 10/29/2019 | 0 | 24 | 23 | Not measurable | Water from sumps pumped out |
| 10/30/2019 | 0 | 40 | 39 | Not measurable | Slight sheen visible in B107/B108 sump |
| 11/6/2019 | 9 | 39 | 38.5 | Not measurable | |
| 11/13/2019 | 7 | 30 | 29 | Not measurable | Less than 0.1 gal of DNAPL recovered from B107/B108 Sump |
| 11/19/2019 | 4 | 26 | 25.5 | Not measurable | |
| 11/27/2019 | 0 | 25 | 23 | Not measurable | |
| 12/3/2019 | 2 | 25.5 | 25 | Not measurable | Less than 0.1 gal of DNAPL recovered from B107/B108 Sump |
| 12/11/2019 | 1.5 | 17 | 16.54 | Not measurable | Less than 0.1 gal of DNAPL recovered from B107/B108 Sump |
| 12/17/2019 | 5 | 19.5 | 17.5 | Not measurable | |
| 12/23/2019 | 10 | 21 | 20.5 | Not measurable | |
| 1/7/2020 | 9 | 13 | 12.5 | Not measurable | |
| 1/8/2020 | 9 | 13 | 12.5 | Not measurable | Water from sumps pumped out |
| 1/17/2020 | 0 | 32 | 31.5 | Not measurable | |
| 1/21/2020 | 2.5 | 26.5 | 26 | Not measurable | |
| 1/28/2020 | 0 | 0 | 0 | Not measurable | |
| 2/4/2020 | 2 | 11 | 10.5 | Not measurable | |
| 2/12/2020 | 0 | 0 | 0 | Not measurable | |
| 2/18/2020 | 1.5 | 11.5 | 10.25 | Not measurable | Water from sumps pumped out on 2/20/2020 |
| 2/27/2020 | 2 | 42 | 36 | Not measurable | |
| 3/6/2020 | 1 | 36 | 36 | Not measurable | |
| 3/11/2020 | 2 | 36 | 35.5 | Not measurable | |
| 3/18/2020 | 0 | 35.5 | 35 | Not measurable | |
| 3/27/2020 | 0 | 29 | 28 | Not measurable | |
| 4/3/2020 | 1.5 | 29 | 28.5 | Not measurable | |
| 4/8/2020 | 0 | 23 | 22 | Not measurable | |
| 4/15/2020 | 0.5 | 23 | 22 | Not measurable | |
| 4/21/2020 | 0 | 21 | 21 | Not measurable | |
| 4/28/2020 | 0 | 23 | 22 | Not measurable | |
| 5/4/2020 | - | - | - | Not Measured | Measurements were not taken; the inspector was unable to open the sumps |
| 5/12/2020 | 0 | 20 | 19 | Not measurable | |
| 5/19/2020 | 0 | 15.75 | 14.25 | Not measurable | Sump 1 pumped down (May 22nd) |
| 5/27/2020 | 0 | 14 | 13 | Not measurable | |
| 6/1/2020 | 0 | 7 | 5 | Not measurable | |
| 6/10/2020 | 0 | 10 | 9 | Not measurable | |
| 6/17/2020 | 1 | 12 | 11 | Not measurable | |
| 6/25/2020 | 0 | 0 | 0 | Not measurable | |
| 6/30/2020 | 0 | 0 | 0 | Not measured | |
| 7/1/2020 | 48 | 46 | 47 | Not measurable | Sumps 1, 2, & 3 pumped down |
| 7/8/2020 | 34 | 24.5 | 24 | Not measurable | Less than 0.1 gal of DNAPL recovered from B107/B108 Sump |
| 7/15/2020 | 32 | 29.5 | 29 | Not measurable | Sheen visible in B99/B100 sump & B107/B108 sump, less than 0.1 gal of DNAPL recovered B107/B108 sump |
| 7/23/2020 | 0 | 23 | 22.5 | Not measured | Less than 0.1 gal of DNAPL recovered from B107/B108 Sump |
| 7/31/2020 | 0 | 11 | 10 | Not measurable | |
| 8/5/2020 | 0 | 7 | 5 | Not measurable | |
| 8/13/2020 | 1 | 11 | 10 | Not measurable | |
| 8/19/2020 | 0 | 7 | 6 | Not measurable | |
| 8/26/2020 | 0 | 10 | 9 | Not measurable | |
| 9/2/2020 | 43 | 37 | 38 | Not measurable | Sumps 1, 2, & 3 pumped down (September 1); Sheen visible in B99/B100 sump & B107/B108 sump |
| 9/9/2020 | 28 | 37 | 36 | Not measurable | Sheen visible in B107/B108 sump |
| 9/15/2020 | 1 | 35 | 33 | Not measurable | |
| 9/23/2020 | 0 | 0 | 0 | Not measurable | |
| 9/30/2020 | 1 | 10 | 9 | Not measurable | |
| 10/8/2020 | 4 | 12 | 11.5 | Not measurable | |
| 10/15/2020 | 0 | 11 | 10.5 | Not measurable | Less than 0.1 gal of DNAPL recovered B107/B108 sump |
| 10/21/2020 | 1 | 10.5 | 9.25 | Not measurable | |
| 10/28/2020 | 0 | 11 | 10 | Not measurable | |
| 11/4/2020 | 9 | 13 | 12 | Not measurable | |
| 11/11/2020 | 0.5 | 12 | 11 | Not measurable | |
| 11/18/2020 | 3.5 | 13 | 12 | Not measurable | |
| 11/24/2020 | 7 | 14 | 13.5 | Not measurable | |
| 11/30/2020 | 2 | 7 | 6 | Not measurable | |
| 12/10/2020 | 5 | 10.5 | 10 | Not measurable | |
| 12/18/2020 | 4 | 10 | 9 | Not measurable | |

TABLE 1
NAPL Measurements - NAPL Collection System - Englewood Intermodal Yard
UPRR Houston, tx - Wood Preserving Works

| Measured Date | Sump 1 (B099/B100) Freeboard (in) | Sump 2 (B103/B104) Freeboard (in) | Sump 3 (B107/B108) Freeboard (in) | Depth to DNAPL (in) | Comments |
|---------------|-----------------------------------|-----------------------------------|-----------------------------------|---------------------|---|
| 12/23/2020 | 1 | 9 | 7.5 | Not measurable | |
| 12/31/2020 | 0 | 4 | 3.5 | Not measurable | |
| 1/6/2021 | 4 | 10.5 | 9 | Not measurable | |
| 1/15/2021 | 43 | 39 | 37.5 | Not measurable | Sumps 1, 2, & 3 pumped down |
| 1/22/2021 | 0 | 34 | 33 | Not measurable | Sheen visible in B107/B108 sump |
| 1/29/2021 | 2 | 31 | 30 | Not measurable | Sheen visible in B107/B108 sump |
| 2/4/2021 | 4 | 30 | 29.5 | Not measurable | Sheen visible in B099/B100 sump |
| 2/10/2021 | 0 | 27 | 25.5 | Not measurable | |
| 2/17/2021 | 0 | 0 | 0 | Not measurable | |
| 2/24/2021 | 2 | 10 | 9.5 | Not measurable | |
| 3/2/2021 | 0 | 0 | 0 | Not measurable | |
| 3/10/2021 | 0 | 10 | 9.75 | Not measurable | |
| 3/17/2021 | 0 | 2 | 1 | Not measurable | |
| 3/24/2021 | 0 | 3.5 | 2 | Not measurable | |
| 3/31/2021 | 0 | 6.5 | 7 | Not measurable | |
| 4/8/2021 | 0 | 7.5 | 7 | Not measurable | |
| 4/14/2021 | 0 | 6.5 | 6 | Not measurable | Less than 0.1 gal of DNAPL recovered B107/B108 sump; Sheen visible in B103/104 and B107/B108 sumps |
| 4/21/2021 | 0.5 | 9 | 8.5 | Not measurable | |
| 4/28/2021 | 0 | 8.5 | 8 | Not measurable | |
| 5/5/2021 | 0 | 7.5 | 7 | Not measurable | |
| 5/12/2021 | 0 | 8 | 7.5 | Not measurable | |
| 5/19/2021 | 0 | 0 | 0 | Not measurable | |
| 5/26/2021 | 0 | 2 | 0.5 | Not measurable | |
| 5/27/2021 | 41 | 32 | 26 | Not measurable | Sumps 1,2, & 3 pumped down |
| 6/2/2021 | 0 | 40 | 38 | Not measurable | Sheen visible in B107/108 sump |
| 6/9/2021 | 0 | 30 | 28.5 | Not measurable | |
| 6/16/2021 | 0 | 24 | 25 | Not measurable | |
| 6/23/2021 | 0 | 12 | 13 | Not measurable | |
| 6/30/2021 | 0 | 3 | 1 | Not measurable | |
| 7/7/2021 | 0 | 0 | 0 | Not measurable | |
| 7/14/2021 | 0 | 0 | 0 | Not measurable | Sumps 1,2, & 3 pumped down (July 15) |
| 7/21/2021 | 0 | 39 | 37 | Not measurable | |
| 7/29/2021 | 0 | 37 | 35.5 | Not measurable | |
| 8/4/2021 | 0 | 36 | 34 | Not measurable | Sheen visible in B103/104 and B107/B108 sumps |
| 8/11/2021 | 0 | 33 | 32 | Not Measured | Depth to DNAPL measurements were not taken; the interface probe was not functioning properly |
| 8/18/2021 | 0 | 25 | 23 | Not measurable | |
| 8/25/2021 | 0 | 20 | 22 | Not measurable | |
| 9/1/2021 | 0 | 20 | 17 | Not measurable | |
| 9/8/2021 | 3 | 14 | 11 | Not measurable | |
| 9/15/2021 | 0 | 3 | 4 | Not measurable | Sumps 1,2, & 3 pumped down (September 17) |
| 9/22/2021 | 31.5 | 46 | 46 | Not measurable | Sheen visible in B107/B108 sump |
| 9/29/2021 | 0 | 29 | 30.75 | Not measurable | Sheen visible in B103/104 and B107/B108 sumps |
| 10/7/2021 | 6 | 18 | 17.5 | Not measurable | |
| 10/13/2021 | 3.6 | 10.56 | 9.72 | Not measurable | Sheen visible in B103/104 and B107/B108 sumps; brown discoloration and slight odor noted B099/B100 sump |
| 10/20/2021 | 0 | 13.94 | 12.6 | Not measurable | Sumps 1,2, & 3 pumped down (October 21) |
| 10/27/2021 | 0 | 22 | 21 | Not measurable | Sheen visible in B099/B100 sump |
| 11/3/2021 | 10 | 20 | 21 | Not measurable | |
| 11/10/2021 | 12 | 16 | 15 | Not measurable | |
| 11/17/2021 | 8 | 16 | 15 | Not measurable | |
| 11/24/2021 | 7 | 14 | 13 | Not measurable | |
| 12/1/2021 | 7 | 15 | 14 | Not measurable | |
| 12/8/2021 | 6 | 12.5 | 12 | Not measurable | |
| 12/15/2021 | 7 | 15 | 15 | Not measurable | |
| 12/22/2021 | - | - | - | Not Measured | Partial site inspection conducted 12/22/21; Sump measurements were not taken |
| 12/29/2021 | 0 | 11.5 | 11 | Not measurable | |
| 1/5/2022 | 8.75 | 13.5 | 12.25 | Not measurable | |
| 1/12/2022 | 6 | 12 | 12 | Not measurable | |
| 1/19/2022 | 13.5 | 17 | 16 | Not measurable | Sheen visible in B099/B100 sump |
| 1/27/2022 | 3 | 9 | 9 | Not measurable | |
| 2/2/2022 | - | - | - | Not Measured | Measurements were not taken; the inspector was unable to open the sumps |
| 2/9/2022 | 9 | 15 | 15 | Not measurable | |
| 2/16/2022 | 8.5 | 17 | 16 | Not measurable | |
| 2/23/2022 | 5.5 | 14 | 13.5 | Not measurable | |
| 3/2/2022 | 5.5 | 15 | 14 | Not measurable | |
| 3/9/2022 | 4.5 | 7 | 6 | Not measurable | |
| 3/16/2022 | 48 | 36 | 45 | Not measurable | Sumps 1,2, & 3 pumped down during inspection; less than 0.5 gal of DNAPL recovered B107/B108 sump |
| 3/23/2022 | 6 | 29 | 28 | Not measurable | |
| 3/30/2022 | 5.5 | 28 | 28 | Not measurable | |
| 4/6/2022 | 3.5 | 19 | 18 | Not measurable | |
| 4/13/2022 | 4.5 | 18 | 15 | Not measurable | Sheen visible in B099/B100 sump |
| 4/20/2022 | 5 | 18 | 18 | Not measurable | Sheen visible in B099/B100 sump |
| 4/27/2022 | 4.5 | 12 | 8.5 | Not measurable | |
| 5/4/2022 | 48 | 42 | 45 | Not measurable | Sumps 1,2, & 3 pumped down during inspection; Sheen visible in B099/B100 sump |
| 5/11/2022 | 16 | 44.5 | 44 | Not measurable | Sheen visible in B099/B100, B103/104, and B107/B108 sumps |
| 5/18/2022 | 6.5 | 45 | 45 | Not measurable | |
| 5/25/2022 | 0 | 25 | 24 | Not measurable | |
| 6/1/2022 | 5.5 | 24 | 24 | Not measurable | |

TABLE 1
NAPL Measurements - NAPL Collection System - Englewood Intermodal Yard
UPRR Houston, tx - Wood Preserving Works

| Measured Date | Sump 1 (B099/B100) Freeboard (in) | Sump 2 (B103/B104) Freeboard (in) | Sump 3 (B107/B108) Freeboard (in) | Depth to DNAPL (in) | Comments |
|---------------|-----------------------------------|-----------------------------------|-----------------------------------|---------------------|---|
| 6/8/2022 | 5 | 22 | 22 | Not measurable | Sheen visible in B099/B100 and B103/104 sumps |
| 6/15/2022 | 5 | 25 | 24 | Not measurable | |
| 6/22/2022 | 4.5 | 24 | 21 | Not measurable | |
| 6/29/2022 | 6 | 21 | 21 | Not measurable | |
| 7/6/2022 | 5.5 | 13 | 13 | Not measurable | |
| 7/13/2022 | 5 | 15 | 14 | Not measurable | Sheen visible in B099/B100 sump |
| 7/20/2022 | 51.5 | 38 | 43.5 | Not measurable | Sumps 1,2, & 3 pumped down during inspection; less than 0.1 gal of DNAPL recovered B099/B100 sump |
| 7/27/2022 | 4 | 42 | 40 | Not measurable | |
| 8/3/2022 | 5 | 39 | 39 | Not measurable | |
| 8/10/2022 | 5.5 | 38 | 38 | Not measurable | Sheen visible in B107/B108 sump |
| 8/17/2022 | 5.5 | 25.5 | 25 | Not measurable | |
| 8/24/2022 | 0 | 0.5 | 0 | Not measurable | Inspector unable to open B099/B100 and B107/B108 sumps as there was standing water on top of the sumps due to ongoing rain event |
| 8/31/2022 | 52 | 52 | 48 | Not measurable | Sumps 1,2, & 3 pumped down during inspection; sheen visible in B103/B104 sump |
| 9/7/2022 | 3 | 37 | 37 | Not measurable | |
| 9/14/2022 | 1 | 34 | 31 | Not measurable | Sheen visible in B099/B100 sump |
| 9/21/2022 | 2.2 | 31.5 | 27.5 | Not measurable | Sheen visible in B107/B108 sump |
| 9/28/2022 | 3 | 30 | 31 | Not measurable | Sheen visible in B099/B100 and B107/B108 sumps |
| 10/5/2022 | 8 | 33 | 33 | Not measurable | Sheen visible in B099/B100 and B107/B108 sumps |
| 10/12/2022 | 7 | 32 | 32 | Not measurable | Sheen visible in B099/B100 and B107/B108 sumps |
| 10/19/2022 | 48 | 48 | 48 | Not measurable | Sumps 1,2, & 3 pumped down during inspection; less than 0.1 gal of DNAPL recovered from B107/108 sump; small amount of DNAPL visible but not recoverable in B099/B100 sump; sheen visible in B099/B100 and B103/B104 sumps on recharge water after pumpdown |
| 10/26/2022 | 6 | 46 | 45 | Not measurable | Sheen visible in B107/B108 sump |
| 11/2/2022 | 4 | 19 | 19 | Not measurable | |
| 11/9/2022 | 6 | 14 | 13 | Not measurable | |
| 11/16/2022 | 8 | 14 | 12 | Not measurable | |
| 11/22/2022 | 0 | 0 | 0 | Not measurable | |
| 11/30/2022 | 3 | 10 | 9 | Not measurable | Very slight sheen visible in Sumps 1, 2, and 3; less than 0.2 gal of DNAPL recovered from B107/108 sump |
| 12/7/2022 | 4 | 13.5 | 13 | Not measurable | |
| 12/14/2022 | 0 | 0 | 0 | Not measurable | Replaced dipper tool with hoe for NAPL recovery from sumps. Less than 0.4 gal of DNAPL recovered from B099/B100 sump; approximately 0.1 gal of DNAPL recovered from B107/B108 sump |
| 12/21/2022 | 4 | 8 | 7 | Not measurable | |
| 12/28/2022 | 16 | 14 | 14 | Not measurable | |
| 1/4/2023 | 3.5 | 7.5 | 6 | Not measurable | |
| 1/11/2023 | 12 | 12 | 3 | Not measurable | |
| 1/18/2023 | 3 | 13 | 13 | Not measurable | |
| 1/25/2023 | 3 | 6 | 5 | Not measurable | |
| 2/1/2023 | <1 | 1 | <1 | Not measurable | |
| 2/8/2023 | 5 | 13 | 12 | Not measurable | |
| 2/15/2023 | <1 | 2 | 2.5 | Not measurable | Sumps B099/B100, B103/B104, and B107/B108 pumped down during inspection |
| 2/22/2023 | 32 | 42 | 43 | Not measurable | Sheen visible in B099/B100, B103/B104, and B107/B108 sumps; water in B099/B100 noted as brown color with high turbidity |
| 3/1/2023 | 9 | 41 | 40 | Not measurable | Sheen visible in B099/B100, B103/B104, and B107/B108 sumps, water color in sumps noted as brown |
| 3/8/2023 | 5 | 42 | 41 | Not measurable | B099/B100 & B103/B104 light brown color |
| 3/15/2023 | 4 | 42 | 41 | Not measurable | B099/B100 and B013/B104 brown color; B107/B108 very light brown color |
| 3/22/2023 | 8 | 26.5 | 25.5 | Not measurable | B099/B100 light brown color |
| 3/29/2023 | 3 | 24 | 25 | Not measurable | B099/B100 light brown color |
| 4/5/2023 | 2.5 | 25 | 25 | Not measurable | B099/B100 light brown color |
| 4/12/2023 | 4 | 12 | 14 | Not measurable | All three sumps pumped down during inspection, B099/B100 brown color |
| 4/19/2023 | 5 | 42 | 42 | Not measurable | Sheen visible in B107/B108 sump |
| 4/26/2023 | 4 | 31.5 | 31.5 | Not measurable | Sheen visible in B107/B108 sump |
| 5/3/2023 | 3 | 18 | 17.5 | Not measurable | B099/B100 light brown color |
| 5/10/2023 | 0 | 1.5 | 0 | Not measurable | B099/B100 light brown color, sheen visible in B107/B108 sump |
| 5/17/2023 | 0 | 2 | 0 | Not measurable | B099/B100 light brown color, sheen visible in B107/B108 sump |
| 5/24/2023 | 2 | 14 | 13 | Not measurable | All three sumps pumped down during inspection, Sheen visible in B099/B100 sump and light brown water color |
| 5/31/2023 | 28 | 50 | 49 | Not measurable | B099/B100 brown color and sheen visible, B103/B104 and B107/B108 light brown color |

Note:
Freeboard in sumps is measured as depth to water from top rim of sump, measured in inches



ATTACHMENT A

Weekly Inspection Photolog



PHOTOGRAPHIC LOG

Client Name:
Union Pacific Railroad

Site Location:
Englewood Intermodal Yard, Houston, Texas

Project No.
31406585.016

Photo No.
1

Inspection Date:
05/03/2023

Description:

Stall A011 some tar-like material observed at historical seep location along asphalt crack, material was removed. Seep water observed along asphalt cracks, looking southeast.

Lat: 29.785392,
Long: -95.318655



Photo No.
2

Inspection Date:
05/03/2023

Description:



Stall B101, some tar-like material observed near historical seep location along asphalt crack, material removed. (Sump B099/B100 in background of photo), looking southeast.

Lat: 29.7842528
Long: - 95.3206250





PHOTOGRAPHIC LOG

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|---|---------------------------------------|--|------------------------------------|
| Client Name: Union Pacific Railroad | | Site Location: Englewood Intermodal Yard, Houston, Texas | Project No. 31406585.016 |
| Photo No. 3 | Inspection Date: 05/03/2023 | <p>Description:</p> <p>Stall B096, some staining and cracking concrete observed at historical seepage location. No tar-like material observed.</p> <p>Lat: 29.78417 Long: - 95.32091</p> | |
| | |  | |
| Photo No. 4 | Inspection Date: 05/03/2023 | <p>Description:</p> <p>Stall A061, brown residue and staining observed within Rows A and B before cleaning, looking southwest. UPRR remediation contractor OMI removed staining and seepage by power washing the area.</p> <p>Lat: 29.784858 Long: -95.319733</p> | |
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PHOTOGRAPHIC LOG

Photo No.
5

Inspection Date:
05/03/2023

Description:

Sump 1 (B099/B100), 3 inches of freeboard in sump, no sheen observed, no odor noted, no new NAPL accumulation on inflow protector, color noted as brown/turbid.

Lat: 29.7844000
Long: - 95.3205861



PHOTOGRAPHIC LOG

Client Name:
Union Pacific Railroad

Site Location:
Englewood Intermodal Yard, Houston, Texas

Project No.
31406585.016

Photo No.
6


Inspection Date:
05/03/2023



Description:


Sump 2 (B103/B104), 18 inches of freeboard, no sheen observed, no odor noted, color noted as clear.

Lat: 29.7842861
Long: - 95.3208611




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| Photo No. 7 | Inspection Date: 05/03/2023 |  |
| Description: Sump 3 (B107/B108), 17.5 inches of freeboard in sump, no sheen observed, no odor noted, color noted as clear Lat: 29.784172 Long: -95.320998 | | |

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|  | | PHOTOGRAPHIC LOG | |
| Client Name: Union Pacific Railroad | | Site Location: Englewood Intermodal Yard, Houston, Texas | Project No. 31406585.016 |
| Photo No. 8 | Inspection Date: 05/03/2023 |  | |
| Description: Stall A065, staining observed along asphalt cracks of Row A and B stalls, looking east. UPRR remediation contractor OMI removed staining and seepage by power washing the area. Lat: 29.784858 Long: -95.319733 | | | |

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| Photo No. 9 | Inspection Date: 05/04/2023 |  |
| Description: Row A of stalls, UPRR remediation contractor OMI using power washing truck to remove brown staining. Lat: 29.784858 Long: -95.319733 | | |




PHOTOGRAPHIC LOG


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| Client Name: Union Pacific Railroad | | Site Location: Englewood Intermodal Yard, Houston, Texas | Project No. 31406585.016 |
| Photo No. 10 | Inspection Date: 05/10/2023 |  | |
| Description: Stall A011, some tar-like material observed at historical seep location, looking southeast. Material was removed. Lat: 29.785392, Long: -95.318655 | | | |

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| Photo No. 11 | Inspection Date: 05/10/2023 |  |
| Description: Stall A022, no tar-like material observed at the seep location along the edge tar-like material seeps observed, looking southeast. Lat: 29.785381 Long: - 95.318619 | | |



PHOTOGRAPHIC LOG


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| Client Name: Union Pacific Railroad | | Site Location: Englewood Intermodal Yard, Houston, Texas | Project No. 31406585.016 |
| Photo No. 12 | Inspection Date: 05/10/2023 |  | |
| Description: North side of Track 802, some tar-like material observed at seep location near the edge of the ballast, material removed. Lat: 29.784947 Long: -95.321214 | | | |
| Photo No. | Inspection Date: | | |


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| 13 | 05/10/2023 |  |
| <p>Description:</p> <p>Stalls B107, view of NAPL collection system (Sump 3 in background of photo), some new tar-like material observed and removed at seep location on concrete joint along the southern edge of the excavated area, looking northwest.</p> <p>Lat: 29.784156 Long: -95.320953</p> | | |

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|  | PHOTOGRAPHIC LOG |
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| Client Name: Union Pacific Railroad | Site Location: Englewood Intermodal Yard, Houston, Texas | Project No. 31406585.016 |
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| Photo No. 14 | Inspection Date: 05/10/2023 |
| Description: RD-14 Seep location observed within the concrete road area (RD-14) north of Track 802 (east of existing Track 802 seep location), very small amount of tar-like material observed along a concrete joint, material was removed. Lat: 29.785064 Long: -95.321219 | |


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| Photo No. 15 | Inspection Date: 05/10/2023 |  |
| Description: Sump 1 (B099/B100), 0 inches of freeboard in sump, water ponding at sump due to recent rainfall event, no sheen or odor noted, no new NAPL accumulation on inflow protector, watercolor noted as light brown. Lat: 29.7844000 Long: - 95.3205861 | | |




PHOTOGRAPHIC LOG


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| Client Name: Union Pacific Railroad | | Site Location: Englewood Intermodal Yard, Houston, Texas | Project No. 31406585.016 |
| Photo No. 16 | Inspection Date: 05/10/2023 |  | |
| Description: Sump 2 (B103/B104), 1.5 inches of freeboard before pumping. No sheen or odor noted, color noted as clear. Lat: 29.7842861 Long: - 95.3208611 | | | |

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| Photo No. 17 | Inspection Date: 05/10/2023 |  |
| Description: Sump 3 (B107/ B108), 0 inches of freeboard, sheen observed, no odor noted, color noted as clear. Lat: 29.784172 Long: -95.320998 | | |




PHOTOGRAPHIC LOG




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| Client Name: Union Pacific Railroad | | Site Location: Englewood Intermodal Yard, Houston, Texas | Project No. 31406585.016 |
| Photo No. 18 | Inspection Date: 05/17/2023 |  | |
| Description: Stall A011, some tar-like material observed at historical seep location. Material was removed. Lat: 29.785392, Long: -95.318655 | | | |


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| Photo No. 19 | Inspection Date: 05/17/2023 |  |
| Description: Slot B056, some tar-like material seeping observed at asphalt crack, material removed. Lat: 29.7847472 Long: - 95.3195417 | | |






PHOTOGRAPHIC LOG



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| Client Name: Union Pacific Railroad | | Site Location: Englewood Intermodal Yard, Houston, Texas | Project No. 31406585.016 |
| Photo No. 20 | Inspection Date: 05/17/2023 |  | |
| Description: Stalls B107-B108, view of NAPL collection system (Sump 3 in background of photo), very small tar-like material observed at seep location on concrete joint along the southern edge of the excavated area, material removed, looking northwest. Lat: 29.784156 Long: -95.320953 | | | |


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| Photo No. 21 | Inspection Date: 05/17/2023 |  |
| Description: <p>Sump 1 (B099/B100), water level at top of the manhole, no sheen or odor noted, no new NAPL accumulation on the inflow protector, color noted as light brown.</p> <p>Lat: 29.7844000 Long: - 95.3205861</p> | | |
|  | | PHOTOGRAPHIC LOG |
| Client Name: Union Pacific Railroad | | Site Location: Englewood Intermodal Yard, Houston, Texas |
| | | Project No. 31406585.016 |
| Photo No. 22 | Inspection Date: 05/17/2023 |  |
| Description: <p>Sump 2 (B103/B104), water level at top of the manhole, no sheen or odor noted, color noted as clear.</p> <p>Lat: 29.7842861 Long: - 95.3208611</p> | | |

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| Photo No. 23 | Inspection Date: 05/17/2023 |  |
| Description: Sump 3 (B107/B108), water level at top of the manhole, sheen observed, no odor noted, color noted as clear. Lat: 29.784172 Long: -95.320998 | | |

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|  | | PHOTOGRAPHIC LOG | |
| Client Name: Union Pacific Railroad | | Site Location: Englewood Intermodal Yard, Houston, Texas | Project No. 31406585.016 |
| Photo No. 24 | Inspection Date: 05/17/2023 |  | |
| Description: Slot B096, small amount of tar-like material seeps observed where test pit conducted (July 2020), material removed, looking northwest. Lat: 29.7842528 Long: - 95.3206250 | | | |


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| Photo No. 25 | Inspection Date: 05/17/2023 |  |
| Description: Slot B100/B101, view of NAPL collection system (Sump 2 in background of photo), some tar-like material observed at historical seep location along asphalt crack, material was removed, looking northwest. Lat: 29.7842203 Long: - 95.320827 | | |


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|  | | PHOTOGRAPHIC LOG | |
| Client Name: Union Pacific Railroad | | Site Location: Englewood Intermodal Yard, Houston, Texas | Project No. 31406585.016 |
| Photo No. 26 | Inspection Date: 05/17/2023 |  | |
| Description: Stall A022, small amount of tar-like material observed at the seep location along the contact with the concrete pavement, looking northeast. Material was removed. Standing water from recent rain event. Lat: 29.785381 Long: - 95.318619 | | | |



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| Photo No. 27 | Inspection Date: 05/17/2023 |  |
| Description: North side of Track 802, some tar-like material observed at seep location near the edge of the ballast, material removed. Lat: 29.784947 Long: -95.321214 | | |

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| Client Name: Union Pacific Railroad | Site Location: Englewood Intermodal Yard, Houston, Texas | Project No. 31406585.016 |
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| Photo No. 28 | Inspection Date: 05/17/2023 |  |
| Description: RD-14 Seep location observed within the concrete road area (RD-14) north of Track 802 (east of existing Track 802 seep location), very small amount of tar-like material observed along a concrete joint, material was removed. Lat: 29.785064 Long: -95.321219 | | |



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| Photo No. 29 | Inspection Date: 05/17/2023 |  |
| Description: Stall B105, some tar-like material observed within concrete crack, residual staining on concrete surface noted. Lat: 29.784180 Long: -95.320917 | | |

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|  | | PHOTOGRAPHIC LOG | |
| Client Name: Union Pacific Railroad | | Site Location: Englewood Intermodal Yard, Houston, Texas | Project No. 31406585.016 |
| Photo No. 30 | Inspection Date: 05/24/2023 |  | |
| Description: Stalls A011, some tar-like material observed at historical seep location, material removed. Some seep water and staining observed along asphalt cracks. Lat: 29.785392, Long: -95.318655 | | | |

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| Photo No. 31 | Inspection Date: 05/24/2023 |  |
| Description: Stalls B107, view of NAPL collection system (Sump 3 in background of photo), some tar-like material observed at seep location on concrete joint along the southern edge of the excavated area, material removed, looking northwest. Lat: 29.784156 Long: -95.320953 | | |

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|  | | PHOTOGRAPHIC LOG | |
| Client Name: Union Pacific Railroad | | Site Location: Englewood Intermodal Yard, Houston, Texas | |
| Project No. 31406585.016 | | | |
| Photo No. 32 | Inspection Date: 05/24/2023 |  | |
| Description: Sump 1 (B099/B100), 2 inches of freeboard in sump, no new NAPL accumulation on inflow protector, sheen observed, no odor noted, color noted as light brown. Lat: 29.7844000 Long: - 95.3205861 | | | |


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| Photo No. 33 | Inspection Date: 05/24/2023 |
| Description: Sump 2 (B103/B104), 14 inches of freeboard, no sheen or odor noted, color noted as clear. Lat: 29.7842861 Long: - 95.3208611 | |
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|  | | PHOTOGRAPHIC LOG | |
| Client Name: Union Pacific Railroad | | Site Location: Englewood Intermodal Yard, Houston, Texas | Project No. 31406585.016 |
| Photo No. 34 | Inspection Date: 05/24/2023 | | |
| Description: Sump 3 (B107/B108), 13 inches of freeboard in sump, no sheen or odor noted, color noted as clear. Lat: 29.784172 Long: -95.320998 | |  | |

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| Photo No. 35 | Inspection Date: 05/24/2023 |  |
| Description: Stalls A060-A075, brown staining observed in Rows A and B, looking southwest. Lat: 29.784858 Long: -95.319733 | | |




PHOTOGRAPHIC LOG

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| Client Name: Union Pacific Railroad | | Site Location: Englewood Intermodal Yard, Houston, Texas | Project No. 31406585.016 |
| Photo No. 36 | Inspection Date: 05/24/2023 |  | |
| Description: North side of Track 802, some tar-like material observed at seep location near the edge of the ballast, looking southeast. Lat: 29.784947 Long: -95.321214 | | | |

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| Photo No. 37 | Inspection Date: 05/24/2023 |
| Description: RD-14 Seep location observed within the concrete road area (RD-14) north of Track 802 (east of existing Track 802 seep location), very small amount of tar-like material observed along a concrete joint, material was removed. Lat: 29.785064 Long: -95.321219 | |
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PHOTOGRAPHIC LOG


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| Client Name: Union Pacific Railroad | | Site Location: Englewood Intermodal Yard, Houston, Texas | Project No. 31406585.016 |
| Photo No. 38 | Inspection Date: 05/24/2023 | | |
| Description: Stall B101, small amount of tar-like material observed near historical seep location, material removed. Lat: 29.7842528 Long: - 95.3206250 | |  | |



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| Photo No. 39 | Inspection Date: 05/24/2023 |  |
| Description: Stall B102, some tar-like material observed within concrete joint, residual staining on concrete surface noted. Lat: 29.7842203 Long: - 95.320827 | | |






PHOTOGRAPHIC LOG



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| Client Name: Union Pacific Railroad | | Site Location: Englewood Intermodal Yard, Houston, Texas | Project No. 31406585.016 |
| Photo No. 40 | Inspection Date: 05/24/2023 |  | |
| Description: Stall A022, no tar-like material observed at the seep location along the edge of the concrete pavement, looking southeast. Lat: 29.785381 Long: - 95.318619 | | | |



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| Photo No. 41 | Inspection Date: 05/24/2023 |
| Description: Stall B056, some tar-like material seeping observed at asphalt crack, material removed. Lat: 29.7847472 Long: - 95.3195417 | |
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|  | | PHOTOGRAPHIC LOG | |
| Client Name: Union Pacific Railroad | | Site Location: Englewood Intermodal Yard, Houston, Texas | |
| | | Project No. 31406585.016 | |
| Photo No. 42 | Inspection Date: 05/24/2023 | | |
| Description: Stall A065, staining and seep water observed along asphalt cracks of Rows A and B, looking west. UPRR remediation contractor OMI absorbed liquid with absorbent pads. Lat: 29.784858 Long: -95.319733 | |  | |



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| Photo No. 43 | Inspection Date: 05/24/2023 |  |
| Description: UPRR remediation contractor OMI cleaning Stall A065, using a water truck to power wash staining and seepage. Looking east. Lat: 29.784858 Long: -95.319733 | | |

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|  | | PHOTOGRAPHIC LOG | |
| Client Name: Union Pacific Railroad | | Site Location: Englewood Intermodal Yard, Houston, Texas | Project No. 31406585.016 |
| Photo No. 44 | Inspection Date: 05/24/2023 |  | |
| Description: UPRR remediation contractor OMI pumping water out of Sump 3 (B107/B108). Looking west. Lat: 29.784172 Long: -95.320998 | | | |



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|  | | PHOTOGRAPHIC LOG | |
| Client Name: Union Pacific Railroad | | Site Location: Englewood Intermodal Yard, Houston, Texas | Project No. 31406585.016 |
| Photo No. 45 | Inspection Date: 05/24/2023 |  | |
| Description: UPRR remediation contractor OMI pumped 8,300 gallons of water total out of all three sumps. Shown is Sump 3 (B107/B108) after being pumped down. Lat: 29.784172 Long: -95.320998 | | | |


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|  | | PHOTOGRAPHIC LOG | |
| Client Name: Union Pacific Railroad | | Site Location: Englewood Intermodal Yard, Houston, Texas | Project No. 31406585.016 |
| Photo No. 46 | Inspection Date: 05/31/2023 |  | |
| Description: Stall A011, some tar-like material observed at historical seep location, material removed. Some seep water and staining observed along asphalt cracks. Lat: 29.785392, Long: -95.318655 | | | |

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|---|---------------------------------------|--|
| Photo No. 47 | Inspection Date: 05/31/2023 |  |
| Description: Stall B107, view of NAPL collection system (Sump 3 in background of photo), some tar-like material observed at seep location on concrete joint along the southern edge of the excavated area, material removed, looking northwest. Lat: 29.784156 Long: -95.320953 | | |

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|  | | PHOTOGRAPHIC LOG | |
| Client Name: Union Pacific Railroad | | Site Location: Englewood Intermodal Yard, Houston, Texas | Project No. 31406585.016 |
| Photo No. 48 | Inspection Date: 05/31/2023 |  | |
| Description: Sump 1 (B099/B100), 28 inches of freeboard in sump, no new NAPL accumulation on inflow protector, sheen observed, no odor noted, color noted as brown. Lat: 29.7844000 Long: - 95.3205861 | | | |

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|---|---------------------------------------|--|
| Photo No. 49 | Inspection Date: 05/31/2023 |  |
| Description: Sump 2 (B103/B104), 50 inches of freeboard, no sheen or odor noted, color noted as light brown. Lat: 29.7842861 Long: - 95.3208611 | | |


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|  | | PHOTOGRAPHIC LOG | |
| Client Name: Union Pacific Railroad | | Site Location: Englewood Intermodal Yard, Houston, Texas | |
| Project No. 31406585.016 | | | |
| Photo No. 50 | Inspection Date: 05/31/2023 |  | |
| Description: Sump 3 (B107/B108), 49 inches of freeboard in sump, no sheen or odor noted, color noted as light brown. Lat: 29.784172 Long: -95.320998 | | | |

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|--|---------------------------------------|--|
| Photo No. 51 | Inspection Date: 05/31/2023 |  |
| Description: Stalls A060-A075, brown staining observed in Rows A and B, looking southwest. Lat: 29.784858 Long: -95.319733 | | |

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|  | PHOTOGRAPHIC LOG |
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| Client Name: Union Pacific Railroad | Site Location: Englewood Intermodal Yard, Houston, Texas | Project No. 31406585.016 |
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| Photo No. 52 | Inspection Date: 05/31/2023 |  |
| Description: North side of Track 802, no tar-like material observed at seep location near the edge of the ballast, looking southeast. Lat: 29.784947 Long: -95.321214 | | |

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| Photo No. 53 | Inspection Date: 05/31/2023 |  |
| Description: RD-14 Seep location observed within the concrete road area (RD-14) north of Track 802 (east of existing Track 802 seep location), no tar-like material observed along a concrete joint. Lat: 29.785064 Long: -95.321219 | | |




PHOTOGRAPHIC LOG


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| Client Name: Union Pacific Railroad | | Site Location: Englewood Intermodal Yard, Houston, Texas | Project No. 31406585.016 |
| Photo No. 54 | Inspection Date: 05/31/2023 |  | |
| Description: Stall B101, small amount of tar-like material observed near historical seep location, material removed. Lat: 29.7842528 Long: - 95.3206250 | | | |



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| Photo No. 55 | Inspection Date: 05/31/2023 | |
| Description: Stall B102, some tar-like material observed within concrete joint, residual staining on concrete surface noted. Lat: 29.7842203 Long: - 95.320827 | |  |






PHOTOGRAPHIC LOG


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| Client Name: Union Pacific Railroad | | Site Location: Englewood Intermodal Yard, Houston, Texas | Project No. 31406585.016 |
| Photo No. 56 | Inspection Date: 05/31/2023 | | |
| Description: Stall A022, a small amount of tar-like material observed at the seep location along the edge of the concrete pavement, looking southeast. Lat: 29.785381 Long: - 95.318619 | |  | |

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| Photo No. 57 | Inspection Date: 05/31/2023 |  |
| Description: Stall B057, some tar-like material seeping at historical seep location in asphalt cracks, no seeps observed where test pit conducted (July 2020), some seep water and staining observed along asphalt cracks in Rows A and B, looking west. Lat: 29.7847472 Long: - 95.3195417 | | |

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|  | | PHOTOGRAPHIC LOG | |
| Client Name: Union Pacific Railroad | | Site Location: Englewood Intermodal Yard, Houston, Texas | Project No. 31406585.016 |
| Photo No. 58 | Inspection Date: 05/31/2023 |  | |
| Description: Stall A065, staining and seep water observed along asphalt cracks of Rows A and B, looking southwest. UPRR remediation contractor OMI absorbed liquid with absorbent pads. Lat: 29.784858 Long: -95.319733 | | | |

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| Photo No. 59 | Inspection Date: 05/31/2023 |  |
| Description: Slot C077 and C078, brown staining observed in Row C. Lat: 29.7847472 Long: - 95.3195417 | | |

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|  | | PHOTOGRAPHIC LOG | |
| Client Name: Union Pacific Railroad | | Site Location: Englewood Intermodal Yard, Houston, Texas | Project No. 31406585.016 |
| Photo No. 60 | Inspection Date: 05/31/2023 |  | |
| Description: Slot B056, some tar-like material seeping observed at asphalt crack, material removed. Lat: 29.7847472 Long: - 95.3195417 | | | |

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| Photo No. 61 | Inspection Date: 05/31/2023 |  |
| Description: Stalls A024-A036, brown staining observed in rows A and B, looking southwest. Lat: 29.785250 Long: - 95.318777 | | |



ATTACHMENT B

Waste Shipping Documents

BILL OF LADING – SHORT FORM – NOT NEGOTIABLE

Page 1 of 1

COM10559P

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| SHIP FROM (Shipper/Generator) | | Bill of Lading (BOL# = E3OMI JOB- For Multiple loads, add -01.02..) | |
| Address: Union Pacific Rail Road 4910 Liberty Road, Houston, TX 77026 | | BOL#: 035-23-0015-05 | |
| Phone#: _____ | | Trailer number: <u>TD16</u> Serial number(s): _____ | |
| Receiving Facility/Consignee Name Delta Water Processing | | Roll-off BOx# _____ | |
| Address: 18511 Beaumont Hwy, Houston, TX 77049 | | TRANSPORTER/Carrier Name | |
| Phone#: (281) 404-4424 | | Specialty Energy Services | |
| DISPOSAL BILL TO: | | TRANSPORTER EPA #: <u>TKR000083608</u> | |
| All Invoices must have a PO#: <u>35-2023-402</u> | | Sign 3 copies (Shipper/Generator, Transporter, & Consignee) | |
| Invoice: E3 OMI P.O.Box 1300 Clinton, MS 39060 | | Freight Charge Terms (Freight charges are prepaid unless marked otherwise): | |
| email: admin@e3omi.com; cc: siokhong@e3omi.com | | Prepaid <input type="checkbox"/> Collect <input type="checkbox"/> 3rd Party <input type="checkbox"/> | |
| Special Notes/Instructions: Scheduled Date: 5/24, 2 loads | | <input type="checkbox"/> Master bill of lading with attached underlying bills of lading. | |

CUSTOMER ORDER INFORMATION

| Material/Waste Streams: | # of Packages | Weight | Pallet/Slip (circle one) | | Additional Shipper Information |
|------------------------------------|---------------|--------|--------------------------|---|--------------------------------|
| Oily Water recycling <u>4800 G</u> | 1 | TT | Y | N | |
| | | | Y | N | |
| | | | Y | N | |
| | | | Y | N | |

CARRIER INFORMATION

| Handling Unit | | Package | | Weight | | HM (X) | | Commodity Description/Material | LTL Only | |
|---------------|------|---------|------|--------|--|--------|--|--|----------|-------|
| Qty | Type | Qty | Type | | | | | | NMFC No. | Class |
| | | | | | | | | Commodities requiring special or additional care or attention in handling or stowing must be so marked and packaged as to ensure safe transportation with ordinary care. See Section 2(e) of NMFC item 360 | | |
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Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property as follows: "The agreed or declared value of the property is specifically stated by the shipper to be not exceeding _____ per _____."

COD Amount: _____

Fee terms: Collect ☐ Prepaid ☐ Customer check acceptable ☐

Note: Liability limitation for loss or damage in this shipment may be applicable. See 49 USC § 14706(c)(1)(A) and (B).

Received, subject to individually determined rates or contracts that have been agreed upon in writing between the carrier and shipper, if applicable, otherwise to the rates, classifications, and rules that have been established by the carrier and are available to the shipper, on request, and to all applicable state and federal regulations.

Transporter Driver Print Name, Signature:

[Signature]

Shipper/Generator Signature/Date

[Signature] 5/24/23
This is to certify that the above named materials are properly classified, packaged, marked, and labeled, and are in proper condition for transportation according to the applicable regulations of the DOT.

Trailer Loaded:

☐ By shipper
☐ By driver

Freight Counted:

☐ By shipper
☐ By driver/pallets said to contain
☐ By driver/pieces

TRANSPORTER PICK UP Date:

Carrier acknowledges receipt of packages and required placards. Carrier certifies emergency response information was made available and/or carrier has the DOT emergency response guidebook or equivalent documentation in the vehicle. Property described above is received in good order, except as noted.

Received By Facility(Consignee): Sean Lowert Print Name

Signature: *[Signature]*

DATE Received: 5-24-23

BILL OF LADING – SHORT FORM – NOT NEGOTIABLE

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|---|--|--|--|
| SHIP FROM (Shipper/Generator) | | Bill of Lading(BOL# =E3OMI JOB- For Multiple loads, add -01.02..) | |
| Address: Union Pacific Rail Road 4910 Liberty Road, Houston, TX 77026 | | Phone#: _____ BOL#: 035-23-0015-06 | |
| Receiving Facility/Consignee Name: Delta Water Processing | | Trailer number: <u>1016</u> Serial number(s): _____ | |
| Address: 18511 Beaumont Hwy, Houston, TX 77049 | | Phone#: (281) 404-4424 Roll-off BOx# _____ | |
| DISPOSAL BILL TO: | | TRANSPORTER/Carrier Name | |
| All Invoices must have a PO#: 35-2023-402 Invoice: E3 OMI P.O.Box 1300 Clinton, MS 39060 email: admin@e3omi.com; cc: siokhong@e3omi.com | | E3OMI Specialty Envoy Service TRANSPORTER EPA #: TX0981055163 TXRL000083006 Sign 3 copies (Shipper/Generator, Transporter, & Consignee) | |
| Special Notes/Instructions: Scheduled Date: 5/24, 2 loads <i>Profile# E3OMI0559P</i> | | Freight Charge Terms (Freight charges are prepaid unless marked otherwise): Prepaid <input type="checkbox"/> Collect <input type="checkbox"/> 3rd Party <input type="checkbox"/> <input type="checkbox"/> Master bill of lading with attached underlying bills of lading. | |

CUSTOMER ORDER INFORMATION

| Material/Waste Streams: | # of Packages | Weight | Pallet/Slip (circle one) | | Additional Shipper Information |
|-------------------------|---------------|--------|--------------------------|---|--------------------------------|
| Oily Water recycling | 1 | TT | Y | N | |
| | | | Y | N | |
| | | | Y | N | |
| | | | Y | N | |

CARRIER INFORMATION

| Handling Unit | | Package | | | | | LTL Only | |
|---------------|------|---------|------|--------|--------|--|----------|-------|
| Qty | Type | Qty | Type | Weight | HM (X) | Commodity Description/Material | NMFC No. | Class |
| 3500 | | | | | | Commodities requiring special or additional care or attention in handling or stowing must be so marked and packaged as to ensure safe transportation with ordinary care. See Section 2(e) of NMFC item 360 | | |
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COD Amount: _____

Fee terms: Collect ☐ Prepaid ☐ Customer check acceptable ☐

Note: Liability limitation for loss or damage in this shipment may be applicable. See 49 USC § 14706(c)(1)(A) and (B).

Received, subject to individually determined rates or contracts that have been agreed upon in writing between the carrier and shipper, if applicable, otherwise to the rates, classifications, and rules that have been established by the carrier and are available to the shipper, on request, and to all applicable state and federal regulations.

Transporter Driver Print Name, Signature:

[Signature]

Shipper/Generator Signature/Date
[Signature] 5/24/23
This is to certify that the above named materials are properly classified, packaged, marked, and labeled, and are in proper condition for transportation according to the applicable regulations of the DOT.

Trailer Loaded:
☐ By shipper
☐ By driver

Freight Counted:
☐ By shipper
☐ By driver/pallets said to contain
☐ By driver/pieces

TRANSPORTER PICK UP Date:

Carrier acknowledges receipt of packages and required placards. Carrier certifies emergency response information was made available and/or carrier has the DOT emergency response guidebook or equivalent documentation in the vehicle. Property described above is received in good order, except as noted:

Received By Facility(Consignee): *[Signature]* **Signature:** *[Signature]*

DATE Received: 5/24/23