



January 12, 2024

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 December 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 December 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 8, 14, and 14 inches from tops of the manhole, respectively, during the inspection on December 6, 2023 (Photo No.17-19). During the December 13, 2023 inspection, Sump 1, Sump 2, and Sump 3 were measured at 5, 10, and 9.5 inches from the top of the manhole, respectively (Photo No. 32, 27 and 41). On December 20, 2023, Sump 1, Sump 2, and Sump 3 were measured at 9, 10, and 5 inches from the top of the manhole, respectively (Photo No. 61-63). During the December 27, 2023 inspection, Sump 1, Sump 2, and Sump 3 had 6, 13, and 11 inches of freeboard measured, respectively (Photo No. 83-85). During the December 2023 inspections, the water in Sump 1 was observed to be light brown in color and the water in Sumps 2 and 3 was observed to be clear. No sheen was observed in the sumps during the December inspections. No odors were reported during the November inspections.
- The NAPL Collection System 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

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December 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 December 2023 weekly inspections. 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). The inflow protector was monitored for NAPL accumulation, and no accumulation was observed through December 2023.

- No new tar-like material seeps were observed along the concrete joint between the NAPL Collection System and the existing concrete at Stall B107 during the December 2023 inspections (Photo Nos. 16, 33, 60, 82).
- For areas outside the NAPL Collection System, no new tar-like material was observed on the concrete or asphalt surface during the December 2023 weekly inspections. As has been observed in previous years as the ambient weather cools, the number of tar-like material seeps observed and total volume of material recovered during the month of December was less than during the November inspections. No tar-like material was observed during the weekly inspection events in December 2023.
- Since the pressure washing event on August 18, 2023, no new brown staining/residue or seep water was observed during the October, November or December 2023 weekly inspections. UPRR will continue to have a remediation contractor pressure wash and/or collect the water in the areas where the brown staining and seeps are observed.
- 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 continued through the warmer months (through September 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 December 2023 inspections, no NAPL seeps were observed at the seven test pit locations (stalls A010, A021, A098, B013, B057, B096 and B108).
- 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 and test pit evaluation will be provided in the Interim Measures Response Action Completion Report after the activities detailed in the Interim Measure Work Plan (discussed below) are completed.
- 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 TCEQ issued a comment letter dated July 5, 2023 on the Work Plan. UPRR submitted responses to the TCEQ comments and a Revised Work Plan on October 20, 2023.

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.



Catherine Mear
Consultant, Environmental Scientist



Eric C. Matzner, P.G.
Vice President - Director, Hydrogeologist

CC: Kevin Peterburs, UPRR – Milwaukee, WI
Karina Rocha, Waste Section Manager, TCEQ Region 12, Houston

Attachment Table 1 – NAPL Measurements – NAPL Collection System
Attachment A – Weekly Inspection Photolog

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	

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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
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	
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	

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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
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	
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	

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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
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	
5/10/2023	0	1.5	0	Not measurable	Sheen visible in B107/B108 sump
5/17/2023	0	2	0	Not measurable	Sheen visible in B107/B108 sump
5/24/2023	2	14	13	Not measurable	Pumpdown and boom swap.
5/31/2023	28	50	49	Not measurable	B099/B100 water color brown. B103/B104 and B107/B108 water color light brown.
6/7/2023	3	38	37	Not measurable	Sheen visible in all Sumps. B099/B0100 water color brown and, light brown on both B103/B104 and B107/B108.
6/14/2023	4	38	37	Not measurable	Sheen Visible in B099/B100 & B107/B108. water color brown on B099/B100 & light brown in all other sumps.
6/21/2023	3	36	37	Not measurable	Sheen Visible in B107/B108. water color brown on B099/B100 & light brown in all other sumps.
6/28/2023	3	31	31	Not measurable	Sheen Visible in B099/B100 & B107/B108. water color dark brown on B099/B100 & B107/B108, light brown in B103/B104.
7/12/2023	3	20	19	Not measurable	Sheen Visible in B099/B100 and B107/B108. Water color brown on B099/B100, light brown in B103/B104.
7/19/2023	3	19	19	Not measurable	Sheen Visible on B099/B100 and B107/B108. Water color brown on B099/B100 and clear on B103/B104 and B107/B108.
7/26/2023	3	21	20	Not measurable	Sheen Visible on B099/B100 and B107/B108. Water color brown on B099/B100, light brown on B103/B104, and clear on B107/B108.
8/2/2023	0	16.5	15.5	Not measurable	Sheen Visible on B107/B108. Water color dark brown on B099/B100, light brown on B103/B104, and clear on B107/B108.
8/9/2023	42	47	47	Not measurable	Sheen Visible on B099/B100 and B107/B108. Water color brown on B099/B100, light brown on B103/B104, and clear on B107/B108.
8/16/2023	38.5	47	47	Not measurable	Sheen Visible on B099/B100 and B107/B108. Water color brown on B099/B100 and light brown on B103/B104 and B107/B108.
8/23/2023	33	46	46	Not measurable	Sheen visible in all Sumps. B099/B0100 water color dark brown and, light brown on both B103/B104 and B107/B108.
8/30/2023	33	46	44	Not measurable	Sheen visible in all Sumps. B099/B0100 water color dark brown and, light brown on both B103/B104 and B107/B108.
9/6/2023	1	38	38	Not measurable	Sheen visible in all Sumps. B099/B0100 water color light brown, amd clear on both B103/B104 and B107/B108.
9/13/2023	0	33	33	Not measurable	Sheen Visible on B099/B100 and B107/B108. Water color brown on B099/B100 and clear on B103/B104 and B107/B108. Pumpdown conducted on 9/15/2023.
9/20/2023	14	14	40	Not measurable	Sheen Visible on B099/B100 and B107/B108. Water color brown on B099/B100 and light brown on B103/B104 and B107/B108.
9/27/2023	0.5	33	34	Not measurable	Sheen Visible on B099/B100 and B107/B108. Water color light brown on B099/B100 and clear on B103/B104 and B107/B108.

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
10/4/2023	0	0	0	Not measurable	No sheen visible in all sumps. Water color brown on B099/B100 and light brown on B103/B104 and B107/B108. Heavy rains all week filled up sumps.
10/11/2023	0	0	0	Not measurable	Sheen visible on B103/B104. B099/B100 water color light brown, clear on B103/B104 and B017/B108. Heavy rains in the week filled up sumps. Pumpdown conducted 10/13/2023.
10/18/2023	46	48	47	Not measurable	Sheen visible on B099/B100 and B107/B108. Water color brown on B099/B100. Water color clear on B103/B104. Water color light brown on B107/B108.
10/25/2023	39	44	43	Not measurable	Sheen visible on B099/B100 and B107/B108. Water color dark brown on B099/B100 and light brown on B103/B104 and B107/B108.
11/1/2023	6.5	33	33	Not measurable	Sheen visible on B099/B100 and B107/B108. Water color light brown on B099/B100 and clear on 103/B104 and B107/B108.
11/8/2023	12	34	33	Not measurable	Sheen visible on B099/B100. Water color light brown on B099/B100 and clear on 103/B104 and B107/B108.
11/15/2023	2	6	5.5	Not measurable	No sheen observed in any of the sumps. Water color light brown on B099/B100 and clear on 103/B104 and B107/B108.
11/22/2023	7	13	12	Not measurable	No sheen observed in any of the sumps. Water color light brown on B099/B100 and clear on 103/B104 and B107/B108.
11/29/2023	5.5	10	9.5	Not measurable	No sheen observed in any of the sumps. Water color light brown on B099/B100 and clear on 103/B104 and B107/B108.
12/6/2023	8	14	14	Not measurable	No sheen observed in any of the sumps. Water color light brown on B099/B100 and clear on 103/B104 and B107/B108.
12/13/2023	5	10	9.5	Not measurable	No sheen observed in any of the sumps. Water color light brown on B099/B100 and clear on 103/B104 and B107/B108.
12/20/2023	9	10	5	Not measurable	No sheen observed in any of the sumps. Water color light brown on B099/B100 and clear on 103/B104 and B107/B108.
12/27/2023	6	13	11	Not measurable	No sheen observed in any of the sumps. Water color light brown on B099/B100 and clear on 103/B104 and B107/B108.

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:

12/6/2023

Description:

Stall A010. No tar-like material observed at Test Pit A010.

Lat: 29.785517

Long: -95.31834



Photo No.

2

Inspection Date:

12/6/2023

Description:

Stall A011. No tar-like material observed at historical seep location along asphalt crack.

Lat: 29.785467

Long: -95.318341





PHOTOGRAPHIC LOG

Client Name:

Union Pacific Railroad

Site Location:

Englewood Intermodal Yard, Houston, Texas

Project No.

31406585.016

Photo No.

3

Inspection Date:

12/6/2023

Description:

Stall B013. No tar-like material seeps observed at Test Pit B013.

Lat: 29.78532

Long:-95.31833



Photo No.

4

Inspection Date:

12/6/2023

Description:

Stall B016. No tar-like material observed at historical seep location along asphalt crack.

Lat: 29.785271

Long:-95.31841





PHOTOGRAPHIC LOG

Client Name:
Union Pacific Railroad

Site Location:
Englewood Intermodal Yard, Houston, Texas

Project No.
31406585.016

Photo No.

5

Inspection Date:

12/6/2023

Description:

Stall A021. No tar-like material seeps observed at Test Pit A021.

Lat: 29.785387

Long: -95.318654



Photo No.

6

Inspection Date:

12/6/2023

Description:

Stall A022. No new tar-like material observed at historical seep location along asphalt crack.

Lat: 29.785378

Long: -95.318694





PHOTOGRAPHIC LOG

Client Name:

Union Pacific Railroad

Site Location:

Englewood Intermodal Yard, Houston, Texas

Project No.

31406585.016

Photo No.

7

Inspection Date:

12/6/2023

Description:

Stall B042. No new tar-like material observed at historical seep location along asphalt crack.

Lat: 29.784923

Long: -95.319124



Photo No.

8

Inspection Date:

12/6/2023




Description:

Stall B056. No new tar-like material observed at historical seep location along asphalt crack.

Lat: 29.784751

Long: -95.319532



		PHOTOGRAPHIC LOG	
Client Name: Union Pacific Railroad		Site Location: Englewood Intermodal Yard, Houston, Texas	Project No. 31406585.016
Photo No. 9	Inspection Date: 12/6/2023		
Description: Stall B057 (joint), no tar-like material observed at historical seep location at Test Pit B057. Lat: 29.784747 Long: -95.319549			
Photo No. 10	Inspection Date: 12/6/2023		
Description: Stalls A060 - A070. Looking southwest. No residual staining observed along cracks in asphalt. Lat: 29.784858 Long: -95.319733			



PHOTOGRAPHIC LOG

Client Name:

Union Pacific Railroad

Site Location:

Englewood Intermodal Yard, Houston, Texas

Project No.

31406585.016

Photo No.

11

Inspection Date:

12/6/2023

Description:

Stall B096, no new tar-like material observed at historical seep location along concrete joint at Test Pit B096.

Lat: 29.784276

Long: -95.320651



Photo No.

12

Inspection Date:

12/6/2023

Description:

Stall B100, no new tar-like material observed on concrete crack/hole in concrete.

Lat: 29.784236

Long: -95.320786





PHOTOGRAPHIC LOG

Client Name:
Union Pacific Railroad

Site Location:
Englewood Intermodal Yard, Houston, Texas

Project No.
31406585.016

Photo No.

13

Inspection Date:

12/6/2023

Description:

Stall B102 (center), no tar-like material observed at seep location along cracks in pavement.

Lat: 29.784233

Long: -95.320847



Photo No.

14

Inspection Date:

12/6/2023

Description:

Stall B102 (joint) no new tar-like material observed at historical seep site along concrete joint.

Lat: 29.784197

Long: -95.320821





PHOTOGRAPHIC LOG

Client Name:
Union Pacific Railroad

Site Location:
Englewood Intermodal Yard, Houston, Texas

Project No.
31406585.016

Photo No.
15

Inspection Date:
12/6/2023

Description:

Stall B105. No new tar-like material observed at historical seep location along asphalt crack.

Lat: 29.784209
Long: -95.320943



Photo No.
16




Inspection Date:
12/6/2023

Description:

Stall B107, no new tar-like material observed at seep location on concrete joint along the southern edge of the excavated area.

Lat: 29.784137
Long: -95.32096



		PHOTOGRAPHIC LOG	
Client Name: Union Pacific Railroad		Site Location: Englewood Intermodal Yard, Houston, Texas	Project No. 31406585.016
Photo No. 17	Inspection Date: 12/6/2023		
Description: Sump 1 (B099/B100), 8 inches of freeboard in sump, no odor noted, no sheen observed, water color noted as light brown. Lat: 29.7844000 Long: - 95.3205861			
Photo No. 18	Inspection Date: 12/6/2023		
Description: Sump 2 (B103/B104), 14 inches of freeboard in sump. No odor or sheen observed, color noted as clear. Lat: 29.7842861 Long: - 95.3208611			



PHOTOGRAPHIC LOG

Client Name:

Union Pacific Railroad

Site Location:

Englewood Intermodal Yard, Houston, Texas

Project No.

31406585.016

Photo No.

19

Inspection Date:

12/6/2023

Description:

Sump 3 (B107/B108), 14 inches of freeboard in sump, no sheen observed, water color noted as clear.

Lat: 29.7844000

Long: - 95.3205861



Photo No.

20

Inspection Date:

12/6/2023

Description:

RD-14 Seep location observed within the concrete road area north of Track 802 (east of existing Track 802 seep location). No new tar-like material observed along a concrete joint.


Lat: 29.785064

Long: -95.321219





PHOTOGRAPHIC LOG

Client Name: Union Pacific Railroad		Site Location: Englewood Intermodal Yard, Houston, Texas	Project No. 31406585.016
Photo No. 21	Inspection Date: 12/6/2023		
Description: North side of Track 802, no new tar-like material observed at seep location near the edge of the ballast. Lat: 29.784947 Long: -95.321214			
Photo No. 22	Inspection Date: 12/13/2023		
Description: Stall B056. No new tar-like material observed at historical seep location along asphalt crack. Lat: 29.7847472 Long: -95.3195417			



PHOTOGRAPHIC LOG

Client Name:

Union Pacific Railroad

Site Location:

Englewood Intermodal Yard, Houston, Texas

Project No.

31406585.016

Photo No.

23

Inspection Date:

12/13/2023

Description:

Stall B016. No new tar-like material observed at historical seep location along asphalt crack.

Lat: 29.785271

Long: -95.31841

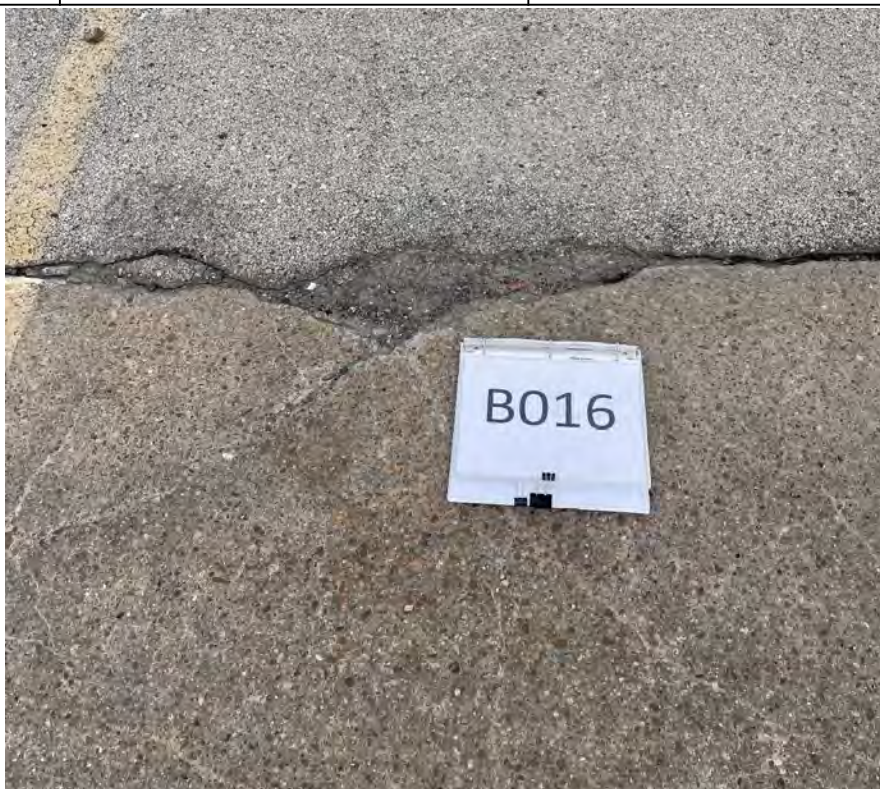


Photo No.

24

Inspection Date:

12/13/2023

Description:

Stall A022. No new tar-like material observed at historical seep location along asphalt crack.

Lat: 29.785378

Long: -95.318694





PHOTOGRAPHIC LOG

Client Name:

Union Pacific Railroad

Site Location:

Englewood Intermodal Yard, Houston, Texas

Project No.

31406585.016

Photo No.

25

Inspection Date:

12/13/2023

Description:

Stall B057, no new tar-like material observed along asphalt crack.

Lat: 29.784769

Long: -95.3195798



Photo No.

26

Inspection Date:

12/13/2023

Description:

Stall A011. No tar-like material observed at historical seep location along asphalt crack.

Lat: 29.785467

Long: -95.318341





PHOTOGRAPHIC LOG

Client Name:

Union Pacific Railroad

Site Location:

Englewood Intermodal Yard, Houston, Texas

Project No.

31406585.016

Photo No.

27

Inspection Date:

12/13/2023

Description:

Sump 2 (B103/B104), 10 inches of freeboard in sump. No odor or sheen observed, color noted as clear.

Lat: 29.7842861

Long: - 95.3208611



Photo No.

28

Inspection Date:

12/13/2023

Description:

Stall A010. No tar-like material observed at Test Pit A010 location.

Lat: 29.785517

Long: -95.31834





PHOTOGRAPHIC LOG

Client Name:

Union Pacific Railroad

Site Location:

Englewood Intermodal Yard, Houston, Texas

Project No.

31406585.016

Photo No.

29

Inspection Date:

12/13/2023

Description:

Stall B096, no new tar-like material observed at historical seep location along concrete joint.

Lat: 29.7842528

Long: -95.3206250



Photo No.

30

Inspection Date:

12/13/2023

Description:

Stall B100, no new tar-like material observed at seep location along asphalt crack/ hole in the asphalt.

Lat: 29.7842528

Long: - 95.3206250





PHOTOGRAPHIC LOG

Client Name:
Union Pacific Railroad

Site Location:
Englewood Intermodal Yard, Houston, Texas

Project No.
31406585.016

Photo No.

31

Inspection Date:

12/13/2023

Description:

Stall B105, no new tar-like material observed at the historical seep location along asphalt crack.

Lat: 29.784209

Long: -95.320943



Photo No.

32

Inspection Date:

12/13/2023

Description:

Sump 1 (B099/B100), 5 inches of freeboard in sump, no sheen observed, water color noted as light brown.

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.

33

Inspection Date:

12/13/2023

Description:

Stalls B107, no new tar-like material observed at seep location on concrete joint along the southern edge of the excavated area.

Lat: 29.784156

Long: -95.320953



Photo No.

34

Inspection Date:

12/13/2023

Description:

Stall B102 (center), no tar-like material observed at seep location where pavement is cracked.

Lat: 29.784769

Long: -95.3195798





PHOTOGRAPHIC LOG

Client Name:

Union Pacific Railroad

Site Location:

Englewood Intermodal Yard, Houston, Texas

Project No.

31406585.016

Photo No.

35

Inspection Date:

12/13/2023

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 new tar-like material observed along a concrete joint.

Lat: 29.785064

Long: -95.321219



Photo No.

36

Inspection Date:

12/13/2023

Description:

Stall B042. No new tar-like material observed at historical seep location along concrete crack.

Lat: 29.784923

Long: -95.319124





PHOTOGRAPHIC LOG

Client Name:

Union Pacific Railroad

Site Location:

Englewood Intermodal Yard, Houston, Texas

Project No.

31406585.016

Photo No.

37

Inspection Date:

12/13/2023

Description:

Stalls A060 - A070, some residual staining previously observed along cracks in pavement. No new water seeps observed. Viewing southwest.

Lat: 29.784858

Long: -95.319733



Photo No.

38

Inspection Date:

12/13/2023

Description:

Stall B102 Joint, no new tar-like material observed at seep location along stall joint.

Lat: 29.7842203

Long: - 95.320827





PHOTOGRAPHIC LOG

Client Name:
Union Pacific Railroad

Site Location:
Englewood Intermodal Yard, Houston, Texas

Project No.
31406585.016

Photo No.
39

Inspection Date:
12/13/2023

Description:

Stall A021. No seeps noted at Test Pit A021.

Lat: 29.785387
Long: -95.318654



Photo No.
40

Inspection Date:
12/13/2023

Description:

Stall B013. No seeps noted at Test Pit B013.

Lat: 29.78532
Long: -95.31833





PHOTOGRAPHIC LOG

Client Name:
Union Pacific Railroad

Site Location:
Englewood Intermodal Yard, Houston, Texas

Project No.
31406585.016

Photo No.
41

Inspection Date:
12/13/2023

Description:

Sump 3 (B107/B108), 9.5 inches of freeboard in sump, no sheen observed, water color noted as clear.

Lat: 29.7844000
Long: - 95.3205861



Photo No.
42




Inspection Date:
12/13/2023

Description:

North side of Track 802, no new tar-like material observed at seep location near the edge of the ballast.

Lat: 29.784947
Long: -95.321214



		PHOTOGRAPHIC LOG	
Client Name: Union Pacific Railroad		Site Location: Englewood Intermodal Yard, Houston, Texas	Project No. 31406585.016
Photo No. 43	Inspection Date: 12/20/2023		
Description: RD-14 Seep location observed within the concrete road area north of Track 802 (east of existing Track 802 seep location), no new tar-like material observed along a concrete joint. Lat: 29.785064 Long: - 95.321219			
Photo No. 44	Inspection Date: 12/20/2023		
Description: Stall A010. No seeps noted at Test Pit A010. Lat: 29.785517 Long: -95.31834			



PHOTOGRAPHIC LOG

Client Name:
Union Pacific Railroad

Site Location:
Englewood Intermodal Yard, Houston, Texas

Project No.
31406585.016

Photo No.
45

Inspection Date:
12/20/2023

Description:

Stall A011. No tar-like material observed at historical seep location along asphalt crack.

Lat: 29.785467
Long: -95.318341



Photo No.
46

Inspection Date:
12/20/2023

Description:

Stall A021. No seeps noted at Test Pit A021.

Lat: 29.785387
Long: -95.318654





PHOTOGRAPHIC LOG

Client Name:

Union Pacific Railroad

Site Location:

Englewood Intermodal Yard, Houston, Texas

Project No.

31406585.016

Photo No.

47

Inspection Date:

12/20/2023

Description:

Stall A022, no new tar-like material observed at the seep location along the edge.

Lat: 29.78537

Long: - 95.31869



Photo No.

48

Inspection Date:

12/20/2023

Description:




Stall B013. No seeps noted at Test Pit B013.




Lat: 29.78532

Long:-95.31833



		PHOTOGRAPHIC LOG	
Client Name: Union Pacific Railroad		Site Location: Englewood Intermodal Yard, Houston, Texas	Project No. 31406585.016
Photo No. 49	Inspection Date: 12/20/2023	 <p> PW Inspection 10:31 AM 29.785271 -95.31841 St. Houston, TX 77020A </p>	
Description: Stall B016. No tar-like material observed at historical seep location along asphalt crack. Lat: 29.785271 Long: -95.31841			
Photo No. 50	Inspection Date: 12/20/2023	 <p> 77020A </p>	
Description: Stall B042. No new tar-like material observed at historical seep location along asphalt crack. Lat: 29.784923 Long: -95.319124			

		PHOTOGRAPHIC LOG	
Client Name: Union Pacific Railroad		Site Location: Englewood Intermodal Yard, Houston, Texas	Project No. 31406585.016
Photo No. 51	Inspection Date: 12/20/2023		
Description: North side of Track 802, no new tar-like material observed at seep location near the edge of the ballast. Lat: 29.784947 Long: -95.321214			
Photo No. 52	Inspection Date: 12/20/2023		
Description: Stall B056. No new tar-like material observed at historical seep location along asphalt crack. Lat: 29.7847472 Long: -95.3195417			

		PHOTOGRAPHIC LOG	
Client Name: Union Pacific Railroad		Site Location: Englewood Intermodal Yard, Houston, Texas	Project No. 31406585.016
Photo No. 53	Inspection Date: 12/20/2023		
Description: Stall B057, no new tar-like material observed and removed at seep location along asphalt crack. Lat: 29.784769 Long: -95.3195798			
Photo No. 54	Inspection Date: 12/20/2023		
Description: Stalls A060 - A070, some residual staining previously observed along cracks in pavement. No new water seeps observed. Viewing southwest. Lat: 29.78484 Long: -95.31974			



PHOTOGRAPHIC LOG

Client Name:

Union Pacific Railroad

Site Location:

Englewood Intermodal Yard, Houston, Texas

Project No.

31406585.016

Photo No.

55

Inspection Date:

12/20/2023

Description:

Stall B096, no new tar-like material observed at historical seep location along concrete joint.

Lat: 29.7842528

Long: -95.3206250



Photo No.

56

Inspection Date:

12/20/2023


Description:




Stall B100, no new tar-like material observed at seep location along asphalt crack/ hole in the asphalt.

Lat: 29.7842528

Long: - 95.3206250



		PHOTOGRAPHIC LOG	
Client Name: Union Pacific Railroad		Site Location: Englewood Intermodal Yard, Houston, Texas	Project No. 31406585.016
Photo No. 57	Inspection Date: 12/20/2023		
Description: Stall B102 Joint, no new tar-like material observed at seep location along stall joint. Lat: 29.7842203 Long: - 95.320827			
Photo No. 58	Inspection Date: 12/20/2023		
Description: Stall B102 (center), no tar-like material observed at seep location where pavement is cracked. Lat: 29.784769 Long: -95.3195798			

		PHOTOGRAPHIC LOG	
Client Name: Union Pacific Railroad		Site Location: Englewood Intermodal Yard, Houston, Texas	Project No. 31406585.016
Photo No. 59	Inspection Date: 12/20/2023		
Description: Stall B105, no new tar-like material observed at the historical seep location along asphalt crack. Lat: 29.784209 Long: -95.320943			
Photo No. 60	Inspection Date: 12/20/2023		
Description: Stalls B107, no new tar-like material observed at seep location on concrete joint along the southern edge of the excavated area. Lat: 29.784156 Long: -95.320953			



PHOTOGRAPHIC LOG

Client Name:

Union Pacific Railroad

Site Location:

Englewood Intermodal Yard, Houston, Texas

Project No.

31406585.016

Photo No.

61

Inspection Date:

12/20/2023

Description:

Sump 1 (B099/B100), 9 inches of freeboard in sump, no sheen observed, water color noted as light brown.

Lat: 29.7844000

Long: - 95.3205861



Photo No.

62

Inspection Date:

12/20/2023

Description:




Sump 2 (B103/B104), 10 inches of freeboard in sump. No odor or sheen observed, color noted as clear.

Lat: 29.7842861

Long: - 95.3208611



WSP
12.20.23 HWPW Inspection
12.20.2023 11:27 AM
29.7842, -95.32087
2522 Solo St, Houston, TX 77020A

		PHOTOGRAPHIC LOG	
Client Name: Union Pacific Railroad		Site Location: Englewood Intermodal Yard, Houston, Texas	Project No. 31406585.016
Photo No. 63	Inspection Date: 12/20/2023	 <p>WSP 12.20.23 HWPW Inspection 12.20.2023 11:36 AM 29.78418, -95.32105 2508 Wipprecht St, Houston, TX 77020A</p>	
Description: Sump 3 (B107/B108), 5 inches of freeboard in sump, no sheen observed, water color noted as clear. Lat: 29.7844000 Long: - 95.3205861			
Photo No. 64	Inspection Date: 12/27/2023		
Description: Stall B057 (joint), no new tar-like material observed at historical seep location along concrete joint near Test Pit B057. Lat: 29.784747 Long: -95.319549			

		PHOTOGRAPHIC LOG	
Client Name: Union Pacific Railroad		Site Location: Englewood Intermodal Yard, Houston, Texas	Project No. 31406585.016
Photo No. 65	Inspection Date: 12/27/2023		
Description: North side of Track 802, no new tar-like material observed at seep location near the edge of the ballast. Lat: 29.784947 Long: -95.321214			
Photo No. 66	Inspection Date: 12/27/2023		
Description: Stall A010. No seeps noted at Test Pit A010. Lat: 29.785517 Long: -95.31834			

		PHOTOGRAPHIC LOG	
Client Name: Union Pacific Railroad		Site Location: Englewood Intermodal Yard, Houston, Texas	Project No. 31406585.016
Photo No. 67	Inspection Date: 12/27/2023		
Description: Stall A011. No new tar-like material observed at historical seep location along asphalt crack. Lat: 29.785467 Long: -95.318341			
Photo No. 68	Inspection Date: 12/27/2023		
Description: Stall B013. No seeps noted at Test Pit B013. Lat: 29.78532 Long: -95.31833			



PHOTOGRAPHIC LOG

Client Name:

Union Pacific Railroad

Site Location:

Englewood Intermodal Yard, Houston, Texas

Project No.

31406585.016

Photo No.

69

Inspection Date:

12/27/2023

Description:

Stall B016. No tar-like material observed at historical seep location along asphalt crack.

Lat: 29.785271

Long: -95.31841



Photo No.

70

Inspection Date:

12/27/2023

Description:

Stall A022, no new tar-like material observed at the seep location along the edge.

Lat: 29.785381

Long: - 95.318619





PHOTOGRAPHIC LOG

Client Name:

Union Pacific Railroad

Site Location:

Englewood Intermodal Yard, Houston, Texas

Project No.

31406585.016

Photo No.

71

Inspection Date:

12/27/2023

Description:

Stall A021. No seeps noted at Test Pit A021.

Lat: 29.785387

Long: -95.318654



Photo No.

72

Inspection Date:

12/27/2023

Description:

Stall B042. No new tar-like material observed at historical seep location along concrete joint.

Lat: 29.784923

Long: -95.319124





PHOTOGRAPHIC LOG

Client Name:

Union Pacific Railroad

Site Location:

Englewood Intermodal Yard, Houston, Texas

Project No.

31406585.016

Photo No.

73

Inspection Date:

12/27/2023

Description:

RD-14 Seep location observed within the concrete road area north of Track 802 (east of existing Track 802 seep location), no new tar-like material observed along a concrete joint.

Lat: 29.785064

Long: - 95.321219



Photo No.

74

Inspection Date:

12/27/2023




Description:

Stall B056. No new tar-like material observed at historical seep location along asphalt crack.

Lat: 29.7847472

Long: -95.3195417



		PHOTOGRAPHIC LOG	
Client Name: Union Pacific Railroad		Site Location: Englewood Intermodal Yard, Houston, Texas	Project No. 31406585.016
Photo No. 75	Inspection Date: 12/27/2023		
Description: Stall B057, no new tar-like material observed and removed at seep location along asphalt crack. Lat: 29.784769 Long: -95.3195798			
Photo No. 76	Inspection Date: 12/27/2023		
Description: Stalls A060 - A070, some residual staining previously observed along cracks in pavement. No new water seeps observed. Viewing southwest. Lat: 29.784858 Long: -95.319733			



PHOTOGRAPHIC LOG

Client Name:

Union Pacific Railroad

Site Location:

Englewood Intermodal Yard, Houston, Texas

Project No.

31406585.016

Photo No.

77

Inspection Date:

12/27/2023

Description:

Stall B096, no new tar-like material observed at historical seep location along concrete joint next to Test Pit B096.

Lat: 29.7842528

Long: -95.3206250



Photo No.

78

Inspection Date:

12/27/2023

Description:

Stall B100, no new tar-like material observed at seep location along asphalt crack/ hole in the asphalt.

Lat: 29.7842528

Long: - 95.3206250





PHOTOGRAPHIC LOG

Client Name:

Union Pacific Railroad

Site Location:

Englewood Intermodal Yard, Houston, Texas

Project No.

31406585.016

Photo No.

79

Inspection Date:

12/27/2023

Description:

Stall B102 Joint, no new tar-like material observed at seep location along stall joint.

Lat: 29.7842203

Long: - 95.320827



Photo No.

80

Inspection Date:

12/27/2023

Description:

Stall B102 (center), no seep observed.

Lat: 29.784769

Long: -95.3195798





PHOTOGRAPHIC LOG

Client Name:

Union Pacific Railroad

Site Location:

Englewood Intermodal Yard, Houston, Texas

Project No.

31406585.016

Photo No.

81

Inspection Date:

12/27/2023

Description:

Stall B105, no new tar-like material observed at the historical seep location along asphalt crack.

Lat: 29.784209

Long: -95.320943



Photo No.

82

Inspection Date:

12/27/2023

Description:

Stalls B107, no new tar-like material observed at seep location on concrete joint along the southern edge of the excavated area.

Lat: 29.784156

Long: -95.320953





PHOTOGRAPHIC LOG

Client Name:

Union Pacific Railroad

Site Location:

Englewood Intermodal Yard, Houston, Texas

Project No.

31406585.016

Photo No.

83

Inspection Date:

12/27/2023

Description:

Sump 1 (B099/B100), 6 inches of freeboard in sump, no sheen observed, water color noted as light brown.

Lat: 29.7844000

Long: - 95.3205861



Photo No.

84

Inspection Date:

12/27/2023



Description:

Sump 2 (B103/B104), 13 inches of freeboard in sump. No odor or sheen observed, color noted as clear.

Lat: 29.7842861

Long: - 95.3208611



		PHOTOGRAPHIC LOG	
Client Name: Union Pacific Railroad		Site Location: Englewood Intermodal Yard, Houston, Texas	Project No. 31406585.016
Photo No. 85	Inspection Date: 12/27/2023		
Description: Sump 3 (B107/B108), 11 inches of freeboard in sump, no sheen observed, water color noted as clear. Lat: 29.7844000 Long: - 95.3205861			
Photo No.	Inspection Date:		
Description:			