



October 17, 2022

Project No. 19119232

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:

Golder Associates USA Inc. (Golder), a member of WSP, on behalf of Union Pacific Railroad Company (UPRR), is pleased to provide this monthly status update for September 2022 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 September 2022 (photographs from the weekly inspections are provided in Attachment A):

- As noted in the August 2022 monthly update, water from NAPL Collection System Sump 1 (B099/B100 stalls), Sump 2 (B103/B104 stalls), and Sump 3 (B107/B108 stalls) was pumped down on August 31, 2022. UPRR remediation contractor OMI Environmental Solutions (OMI) removed approximately 10,000 gallons of water from the sumps for disposal at Delta Water Processing in Houston, TX. Immediately following the pump down event, freeboard levels in Sumps 1, 2, and 3 were measured at 52 inches, 52 inches and 48 inches respectively. By the September 7, 2022 inspection, the water level in Sump 1 had increased to 3 inches from the top of the sump (Photo No. 6) and the water level in Sumps 2 and 3 had increased to 37 inches (Photo Nos. 7 and 8). The water levels fluctuated but remained near those levels through the remainder of September, ending at 3 inches, 30 inches, and 31 inches, respectively, during the September 28, 2022 inspection (Photo Nos. 30 and 32). The final waste manifests from the August 31, 2022 pump down event is provided in Attachment B. The next pump down event is anticipated to occur in October 2022. The water in the sumps was

observed as being brown in color. A sheen was observed in Sump 1 on September 14, 2022 (Photo No. 14), Sump 3 on September 21, 2022 (Photo No. 24), and Sumps 1 and 3 on September 28, 2022. (Photo Nos. 30 and 32). No odors were reported during the September 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 September 2022. Even though no measurable DNAPL was noted, a dipper tool 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 observed or encountered using the dipper tool during the weekly inspections in September. 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.

An accumulation of NAPL on the bottom of the inflow protector in Sump 1 was observed during the inspection on September 14, 2022 (Photo No. 13). The material was removed, and the inflow protector was monitoring during subsequent inspections for additional NAPL accumulation. No additional accumulation was observed through September 28, 2022 (Photo No. 31).

- 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 all four inspections in September (Photo Nos. 5 and 21). This seep was first observed during the July 6, 2022 weekly inspection.
- 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 Nos. 9 and 33), and was observed during three of the four inspections in September (September 7th, 14th, and 28th). During the September 28, 2022 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. 34).
- 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 September 2022 weekly inspections:

Seep Observations Outside the NAPL Collection System Area	
Stall Number	Observation Date(s)
A011	September 7 th , 14 th , 21 st , and 28 th (Photo Nos. 1 and 17)
A022	September 7 th , 14 th , 21 st , and 28 th (Photo Nos. 2 and 18)
B056	September 7 th , 14 th , 21 st , and 28 th (Photo Nos. 10 and 25)
B057	September 7 th , 14 th , 21 st , and 28 th (Photo Nos. 11 and 26)
B096	September 28 th (Photo No. 27)
B101	September 7 th , 14 th , 21 st , and 28 th (Photo Nos. 3 and 19)

Seep Observations Outside the NAPL Collection System Area	
Stall Number	Observation Date(s)
B102 (Joint)	September 7 th , 14 th , 21 st , and 28 th (Photo Nos. 12 and 28)
B102 (Center of Stall)	September 28 th (Photo No. 29)
B105	September 7 th , 14 th , 21 st , and 28 th (Photo Nos. 4 and 20)
Track 802	September 7 th , 14 th , and 28 th (Photo Nos. 9 and 32)
RD-14 (road north of Track 802)	September 28 th (Photo No. 34)

- Tar-like material observed during the weekly inspection events was removed and recovered using a hand tool to scrape up the material. During September, the number of tar-like material seeps observed during the weekly inspections was similar to the August 2022 weekly inspections. However, the total amount of material removed from the concrete surface decreased. Approximately 1.5 gallons of tar-like material was recovered for the month and placed in a drum for disposal. The drum is staged at the Container Storage Area (CSA).

During September 2021, track marks from a container transport vehicle running over the seep in stall B102 were observed and barricades were set up surrounding the seep location to prevent further tracking. The barricades are checked and reset, as needed, during the weekly inspections. UPRR remediation contractor US Ecology pressure washed the tar-like material tracking in October 2021. No new track marks were observed around stall B102 during the September 2022 weekly inspections.

- After the pressure washing event conducted on June 28, 2022, no new brown staining/residue or seep water was observed during the weekly inspections through September 2022. 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, as needed.
- Golder, 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, near the historical seep location, along the concrete joint at the front of the stall (Photo No. 27). Through September 2022, 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 stalls B057 (Photo Nos. 11 and 26) during the September inspections 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 is in the process of preparing the requested Work Plan.

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,

Golder Associates USA Inc.



Sarah Balke, G.I.T
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 Disposal Manifests

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	
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	

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
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;
4/21/2021	0.5	9	8.5	Not measurable	Sheen visible in B103/104 and B107/B108 sumps
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	
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

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



ATTACHMENT A

Weekly Inspection Photolog

Client Name:
Union Pacific Railroad

Site Location:
Englewood Intermodal Yard, Houston, Texas

Project No.
19119232

Photo No.
1

Inspection Date:
9/07/2022

Description:

Stall A011, a small amount of tar-like material at a crack in the asphalt pavement, material was removed.

Lat: 29.785392,
Long: -95.318655



Photo No.
2

Inspection Date:
9/07/2022

Description:

Stall A022, a small amount of tar-like material at a crack in the asphalt pavement, material was removed.

Lat: 29.785392,
Long: -95.318655



Client Name:
Union Pacific Railroad

Site Location:
Englewood Intermodal Yard, Houston, Texas

Project No.
19119232

Photo No.
3

Inspection Date:
9/07/2022

Description:

Stall B101, very small amount of tar-like material at a crack in the asphalt pavement, material was removed.

Lat: 29.784275
Long: - 95.320813



Photo No.
4

Inspection Date:
9/07/2022

Description:

Stall B105, a small amount of tar-like material in pavement area, material was removed.

Lat: 29.784236,
Long: -95.320939



Client Name:
Union Pacific Railroad

Site Location:
Englewood Intermodal Yard, Houston, Texas

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Photo No.
5

Inspection Date:
9/07/2022

Description:

Stall B107, view of NAPL Collection System (Sump B107/B108), a small amount of tar-like material at concrete joint along the southern edge of the excavated area. Material was removed. Looking north.

Lat: 29.784156

Long: -95.320953



Photo No.
6

Inspection Date:
9/07/2022

Description:

Sump 1 (B099/B100), 3 inches of freeboard in sump, no odor or sheen noted.

Lat: 29.7844000

Long: - 95.3205861



Client Name:
Union Pacific Railroad

Site Location:
Englewood Intermodal Yard, Houston, Texas

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Photo No.
7

Inspection Date:
9/07/2022

Description:

Sump 2 (B103/B104), 37 inches of freeboard. No sheen or odor noted.

Lat: 29.7842861
Long: - 95.3208611



Photo No.
8

Inspection Date:
9/07/2022

Description:

Sump 3 (B107/B108), 37 inches of freeboard in sump. No sheen or odor noted.

Lat: 29.784172
Long: -95.320998



Client Name: Union Pacific Railroad	Site Location: Englewood Intermodal Yard, Houston, Texas	Project No. 19119232
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Photo No. 9	Inspection Date: 09/14/2022
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Description:

North side of Track 802 where medium amount of tar-like material seep observed near track. Material was removed.

Lat: 29.784947
Long: -95.321214





Photo No. 10	Inspection Date: 09/14/2022
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Description:

Stall B056, a small amount of tar-like material at a crack in the asphalt pavement, material was removed.

Lat: 29.7847472
Long: - 95.3195417



Client Name: Union Pacific Railroad		Site Location: Englewood Intermodal Yard, Houston, Texas	Project No. 19119232
Photo No. 11	Inspection Date: 09/14/2022		
Description: Stall B057, very small amount of tar-like material at historical seep location in asphalt cracks, no seeps observed where nearby test pit was conducted (July 2020), material was removed. Lat: 29.7847472 Long: - 95.3195417			
Photo No. 12	Inspection Date: 09/14/2022		
Description: Stall B102, small amount of tar-like material observed within concrete joint, residual staining on concrete surface noted. Lat: 29.7842203 Long: - 95.320827			

Client Name: Union Pacific Railroad	Site Location: Englewood Intermodal Yard, Houston, Texas	Project No. 19119232
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Photo No. 13	Inspection Date: 09/14/2022
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Description:

Sump 1 (B099/B100), NAPL accumulation noted on the bottom of the inflow protector, material was removed. No NAPL recovered from within sump.

Lat: 29.7844000
Long: - 95.3205861





Photo No. 14	Inspection Date: 09/14/2022
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Description:



Sump 1 (B099/B100), 1 inch of freeboard in sump. Sheen noted on the water surface. No odor noted.



Lat: 29.7844000
Long: - 95.3205861





Client Name: Union Pacific Railroad		Site Location: Englewood Intermodal Yard, Houston, Texas	Project No. 19119232
Photo No. 15	Inspection Date: 09/14/2022		
Description: Sump 2 (B103/B104), 34 inches of freeboard in sump. No sheen or odor noted. Lat: 29.7842861 Long: - 95.3208611			
Photo No. 16	Inspection Date: 09/14/2022		
Description: Sump 3 (B107/B108), 31 inches of freeboard in sump. No sheen or odor noted. Lat: 29.784172 Long: -95.320998			

Client Name: Union Pacific Railroad		Site Location: Englewood Intermodal Yard, Houston, Texas	Project No. 19119232
Photo No. 17	Inspection Date: 09/21/2022		
Description: Stall A011, a small amount of tar-like material at a crack in the asphalt pavement at the center of the stall (in front of the traffic cone), material was removed, looking south. Lat: 29.785392, Long: -95.318655			
Photo No. 18	Inspection Date: 09/21/2022		
Description: Stall A022, a small amount of tar-like material at a crack in the asphalt pavement, material was removed. Lat: 29.785392, Long: -95.318655			

Client Name: Union Pacific Railroad		Site Location: Englewood Intermodal Yard, Houston, Texas	Project No. 19119232
Photo No. 19	Inspection Date: 09/21/2022	<p>Description:</p> <p>Stall B101, very small amount of tar-like material at a crack in the asphalt pavement (center of the photo), material was removed, looking north.</p> <p>Lat: 29.784275 Long: - 95.320813</p>	
			
Photo No. 20	Inspection Date: 09/21/2022	<p>Description:</p> <p>Stall B105, a very small amount of tar-like material in pavement area, material was removed.</p> <p>Lat: 29.784236, Long: -95.320939</p>	
			

Client Name: Union Pacific Railroad		Site Location: Englewood Intermodal Yard, Houston, Texas	Project No. 19119232
Photo No. 21	Inspection Date: 09/21/2022		
Description: Stall B107, a small amount of tar-like material at concrete joint along the southern edge of the excavated area. Material was removed. Lat: 29.784156 Long: -95.320953			
Photo No. 22	Inspection Date: 09/21/2022		
Description: Sump 1 (B099/B100), 2.2 inches of freeboard in sump. No sheen or odor noted. Lat: 29.7844000 Long: - 95.3205861			

Client Name: Union Pacific Railroad		Site Location: Englewood Intermodal Yard, Houston, Texas	Project No. 19119232
Photo No. 23	Inspection Date: 09/21/2022		
Description: Stall B104, view of NAPL Collection System, Sump 2 (B103/B104), 25.5 inches of freeboard in sump. No sheen or odor noted. Lat: 29.7842861 Long: - 95.3208611			
Photo No. 24	Inspection Date: 09/21/2022		
Description: Sump 3 (B107/B108), 27.5 inches of freeboard in sump. Sheen noted on the water surface. No odor noted. Lat: 29.784172 Long: -95.320998			

Client Name:
Union Pacific Railroad

Site Location:
Englewood Intermodal Yard, Houston, Texas

Project No.
19119232

Photo No.
25

Inspection Date:
09/28/2022

Description:

Stall B056, a very small amount of tar-like material at a crack in the asphalt pavement, material was removed.

Lat: 29.7847472
Long: - 95.3195417



Photo No.
26

Inspection Date:
09/28/2022

Description:

Stall B057, very small amount of tar-like material at historical seep location in asphalt cracks along western stall boundary, no seeps observed where nearby test pit was conducted (July 2020), material was removed, looking northwest.

Lat: 29.7847472
Long: - 95.3195417



Client Name:
Union Pacific Railroad

Site Location:
Englewood Intermodal Yard, Houston, Texas

Project No.
19119232

Photo No.
27

Inspection Date:
09/28/2022

Description:

Stall B096, small amount of tar-like material observed near historical seep location along concrete joint adjacent to July 2020 test pit.

Lat: 29.7842528
Long: - 95.3206250



Photo No.
28



Inspection Date:
09/28/2022



Description:

Stall B102, small amount of tar-like material observed within joint, residual staining on concrete surface noted, material was removed, looking northwest.

Lat: 29.7842203
Long: - 95.320827



Client Name: Union Pacific Railroad		Site Location: Englewood Intermodal Yard, Houston, Texas	Project No. 19119232
Photo No. 29	Inspection Date: 09/28/2022		
Description: Stall B102, small amount of tar-like material observed asphalt crack near center of stall, material was removed. Lat: 29.7842203 Long: - 95.320827			
Photo No. 30	Inspection Date: 09/28/2022		
Description: Sump 1 (B099/B100), 3 inches of freeboard in sump. Sheen noted on the water surface. No odor noted. Lat: 29.7844000 Long: - 95.3205861			

Client Name: Union Pacific Railroad		Site Location: Englewood Intermodal Yard, Houston, Texas	Project No. 19119232
Photo No. 31	Inspection Date: 09/28/2022	<div> <p>Description:</p> <p>Sump 1 (B099/B100), no notable NAPL accumulation noted on the bottom of the inflow protector after the material was removed during the 9/14/2022 inspection.</p> <p>Lat: 29.7844000 Long: - 95.3205861</p> </div> 	
Photo No. 32	Inspection Date: 09/28/2022	<div> <p>Description:</p> <p>Sump 3 (B107/B108), 31 inches of freeboard in sump. Sheen noted on the water surface. No odor noted.</p> <p>Lat: 29.784172 Long: -95.320998</p> </div> 	

Client Name:
Union Pacific Railroad

Site Location:
Englewood Intermodal Yard, Houston, Texas

Project No.
19119232

Photo No.
33

Inspection Date:
09/28/2022

Description:

Right of way by Track 802. Small amount of tar-like material near track, material was removed.

Lat: 29.784947

Long: -95.321214



Photo No.
34

Inspection Date:
09/28/2022

Description:

New seep location observed within the concrete road area (RD-14) north of Track 802 (East of existing Track 802 seep location), moderate amount of tar-like material observed along a concrete joint, material was removed.

Lat: 29.78505

Long: -95.32124





ATTACHMENT B

Waste Disposal Manifests

GENERATOR	NON-HAZARDOUS WASTE MANIFEST		1. Generator ID Number TXD-000820266		2. Page 1 of 1		3. Emergency Response Phone 888-877-7267		4. Waste Tracking Number WR00BI22-8.31.22		
	5. Generator's Name and Mailing Address Union Pacific Railroad (UPRR) c/o GHD Services, Inc. 6520 Corporate Drive Indianapolis IN 46279					Generator's Site Address (If different than mailing address) UPRR 6500 Wallisville Rd Houston TX 77020					
	Generator's Phone: 409 983-5848										
	6. Transporter 1 Company Name Space City Services					U.S. EPA ID Number TXR-000084784					
TRANSPORTER	7. Transporter 2 Company Name					U.S. EPA ID Number					
	8. Designated Facility Name and Site Address Delta Water Processing LLC 18511 Beaumont Hwy. Houston TX 77049					U.S. EPA ID Number TX 97222					
	Facility's Phone: 281 404-4423										
	9. Waste Shipping Name and Description Non Regulated Non Hazardous Hydrocarbon Water					10. Containers No. Type 1 TT		11. Total Quantity 5000		12. Unit Wt./Vol. G	
DESIGNATED FACILITY	13. Special Handling Instructions and Additional Information Job# 221334 1) WR#008122 / LEGA0103F TD-AD2201130										
	14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.										
	Generator's/Offeror's Printed/Typed Name Stephanie Wood					Signature Stephanie Wood		Month Day Year 8/31/22			
	15. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S.					Port of entry/exit: Date leaving U.S.:					
DESIGNATED FACILITY	16. Transporter Acknowledgment of Receipt of Materials										
	Transporter 1 Printed/Typed Name Shirley Hays					Signature Shirley Hays		Month Day Year 8/31/22			
	Transporter 2 Printed/Typed Name					Signature		Month Day Year			
	17. Discrepancy										
DESIGNATED FACILITY	17a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection										
	Manifest Reference Number:										
	17b. Alternate Facility (or Generator)					U.S. EPA ID Number					
	Facility's Phone:										
DESIGNATED FACILITY	17c. Signature of Alternate Facility (or Generator)					Month Day Year					
DESIGNATED FACILITY	18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 7a										
	Printed/Typed Name Lambert A					Signature Lambert A		Month Day Year 8/31/22			

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number: TXD00082021ele

2. Page 1 of 1

3. Emergency Response Phone: 888-877-7287

4. Waste Tracking Number: WR008122-8.31.22

5. Generator's Name and Mailing Address: Union Pacific Railroad (UPRR) c/o GHD Services, Inc.
8620 Corporate Drive
Indianapolis IN 46278
Generator's Phone: 317-282-5845

Alt: Manifest Receiving
UPRR
5500 Wallisville Rd
Houston TX 77020

6. Transporter 1 Company Name: Space City Services

U.S. EPA ID Number: TXR000084784

7. Transporter 2 Company Name: _____

U.S. EPA ID Number: _____

8. Designated Facility Name and Site Address: Delta Water Processing LLC.
18511 Beaumont Hwy.
Houston TX 77049
Facility's Phone: 281-404-4423

U.S. EPA ID Number: TX07222

9. Waste Shipping Name and Description	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	
	No.	Type			
1. Non Regulated Non Hazardous Hydrocarbon Water	1	TT	5,000	G	NONE
2.					
3.					
4.					

13. Special Handling Instructions and Additional Information: Job# 221334
1) WR#008122 / LEGA0103P
TD - PLO# 2201130

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offor's Printed/Typed Name: Stephanie Wood

Signature: Stephanie Wood

Month: 8 Day: 31 Year: 22

15. International Shipments: ☐ Import to U.S. ☐ Export from U.S.

Port of entry/exit: _____

Date leaving U.S.: _____

Transporter Signature (for exports only): _____

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Julian Nieto

Signature: Julian Nieto

Month: 8 Day: 31 Year: 22

Transporter 2 Printed/Typed Name: _____

Signature: _____

Month: _____ Day: _____ Year: _____

17. Discrepancy

17a. Discrepancy Indication Space: ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number: _____

17b. Alternate Facility (or Generator): _____

U.S. EPA ID Number: _____

Facility's Phone: _____

17c. Signature of Alternate Facility (or Generator): _____

Month: _____ Day: _____ Year: _____

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name: Loren A

Signature: Loren A

Month: 8 Day: 31 Year: 22