



July 10, 2020

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, Inc. (Golder), on behalf of Union Pacific Railroad Company (UPRR), is pleased to provide this monthly status update for June 2020 for the implementation of the cap repairs identified in the Updated Post-Response Action Care Report (PRACR) dated January 16, 2018 for 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 brief description of the current status of the repairs is provided below:

The non-aqueous phase liquid (NAPL) Collection System was installed in the Englewood Intermodal Yard to address the tar-like substance seeps within parking slots 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 June (photographs of from the weekly inspections are provided in Attachment A):

- No significant amount of NAPL has been visually observed within NAPL collection Sump 1 (B099/B100 slots), Sump 2 (B103/B104 slots), or Sump 3 (B107/B108 slots). No dense NAPL (DNAPL) was recovered from any sump during the month of May.
- Water continues to accumulate in the NAPL collection sumps. To slow water accumulation from surface runoff, new manhole covers without holes were installed on the NAPL collection sumps and measurements have been taken to facilitate ordering of new inflow protectors. Water still tends to collect more rapidly in Sump 1 compared to Sumps 2 or 3 following pump down events. The last pump down of all three sumps occurred on February 20, 2020. Sump 1 was pumped down on May 22, 2020. The water level in the sump returned to near the surface by the May 27th weekly inspection

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and has remained between 0-1 inches from the top of the sump through June 25, 2020. Whereas water levels in Sumps 2 and 3 had been pumped down on February 20, 2020 and had not recovered to the top of the sumps until June 25, 2020. The three sumps were pumped down on June 30, 2020. The water in Sumps 1, 2, and 3 was observed as being brown in color but with no odor or sheen observed.

- No seeps were noted during the month of June 2020 around the NAPL Collection Systems. For areas outside the NAPL Collection System, very small amounts of tar-like material were noted on the concrete surface in stalls A010, A021, B096, B101, B102, and B105 where previous seeps have been observed. While the amount of tar-like material seeping on a weekly basis varied, the overall amount of material recovered during June 2020 was similar to May 2020. Less than 1 gallon of the tar-like material was recovered from these areas during June 2020.
- Beginning in May, brown staining and seep water was observed along asphalt joints and cracks throughout the B-Row (predominately in the B090 – B098 area) but was also observed within the A-Row. UPRR Contractor United States Environmental Services (USES) pressure washed the areas in May and collected the fluids, which were placed in a tote on site next to the frac tank used to temporarily store water pumped from the NAPL Collection sumps. A sample of the water in the tote was collected on June 11, 2020 for waste characterization. A copy of the analytical report will be provided in the July 2020 monthly update. Extensive staining and seep water were not observed during the month of June 2020 and USES was not called out to the Site. UPRR will continue to have USES pressure wash the areas where the brown staining and seeps are observed as needed.

Weekly site inspections of the NAPL Collection System and Englewood Intermodal Yard concrete pavement near the collection system will continue to be conducted. In response to the TCEQ letter dated August 9, 2019, a notation on the presence of NAPL in each sump and tabulation of depth and thickness of NAPL if detected, and a tabulation of total contaminant mass of NAPL recovered from each sump is provided. The requested information is provided on the enclosed Table 1. Through June 2020, no NAPL has been measurable in the sumps using the interface probe.

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 Inc.



Eric C. Matzner, P.G.
Principal / Program Leader



Eric Pastor, P.E.
Principal / Program Leader

ECM

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 Sumps
Weekly Inspection Photolog

[https://golderassociates.sharepoint.com/sites/116841/project files/6 deliverables/pracr/tceq comment letter/2020-06 june monthly update/houston, tx-wpw-sw-31547 - monthly status update - cap repairs 202006.docx](https://golderassociates.sharepoint.com/sites/116841/project%20files/6%20deliverables/pracr/tceq%20comment%20letter/2020-06%20june%20monthly%20update/houston,%20tx-wpw-sw-31547%20monthly%20status%20update%20cap%20repairs%20202006.docx)

TABLE

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 measureable	
8/21/2019	0	27.5	26.5	Not measureable	
8/28/2019	44.5	47.9	45	Not measureable	Water from sumps pumped out
9/4/2019	19	42	41.5	Not measureable	
9/13/2019	0	39.5	38	Not measureable	
9/20/2019	0	3	2.5	Not measureable	
9/25/2019	0	42	42.5	Not measureable	Water from sumps pumped out
10/2/2019	2.5	42.5	42	Not measureable	Sheen visible in B107/B108 sump, less than 0.1 gal od DNAPL recovered
10/9/2019	3	42	41.5	Not measureable	Sheen visible in B107/B108 sump, less than 0.1 gal od DNAPL recovered
10/16/2019	0	39.5	39	Not measureable	Less than 0.1 gal of DNAPL recovered from B107/B108 Sump
10/24/2019	3	35	25	Not measureable	Less than 0.1 gal of DNAPL recovered from B107/B108 Sump
10/29/2019	0	24	23	Not measureable	Water from sumps pumped out
10/30/2019	0	40	39	Not measureable	Slight sheen visible in B107/B108 sump
11/6/2019	9	39	38.5	Not measureable	
11/13/2019	7	30	29	Not measureable	Less than 0.1 gal of DNAPL recovered from B107/B108 Sump
11/19/2019	4	26	25.5	Not measureable	
11/27/2019	0	25	23	Not measureable	
12/3/2019	2	25.5	25	Not measureable	Less than 0.1 gal of DNAPL recovered from B107/B108 Sump
12/11/2019	1.5	17	16.54	Not measureable	Less than 0.1 gal of DNAPL recovered from B107/B108 Sump
12/17/2019	5	19.5	17.5	Not measureable	
12/23/2019	10	21	20.5	Not measureable	
1/7/2020	9	13	12.5	Not measureable	
1/8/2020	9	13	12.5	Not measureable	Water from sumps pumped out
1/17/2020	0	32	31.5	Not measureable	
1/21/2020	2.5	26.5	26	Not measureable	
1/28/2020	0	0	0	Not measureable	
2/4/2020	2	11	10.5	Not measureable	
2/12/2020	0	0	0	Not measureable	
2/18/2020	1.5	11.5	10.25	Not measureable	Water from sumps pumped out on 2/20/2020
2/27/2020	2	42	36	Not measureable	
3/6/2020	1	36	36	Not measureable	
3/11/2020	2	36	35.5	Not measureable	
3/18/2020	0	35.5	35	Not measureable	
3/27/2020	0	29	28	Not measureable	
4/3/2020	1.5	29	28.5	Not measureable	
4/8/2020	0	23	22	Not measureable	
4/15/2020	0.5	23	22	Not measureable	
4/21/2020	0	21	21	Not measureable	
4/28/2020	0	23	22	Not measureable	
5/4/2020	-	-	-	Not Measured	Measurements were not taken; the inspector was unable to open the sumps
5/12/2020	0	20	19	Not measureable	
5/19/2020	0	15.75	14.25	Not measureable	Sump 1 pumped down (May 22nd)
5/27/2020	0	14	13	Not measureable	
6/1/2020	0	7	5	Not measureable	
6/10/2020	0	10	9	Not measureable	
6/17/2020	1	12	11	Not measureable	
6/25/2020	0	0	0	Not measureable	
6/30/2020	0	0	0	Not Measured	Sumps 1, 2, & 3 pumped down

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 Houston, Texas	Project No.: 19119232
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Photo No. 1	Date: 06/01/2020
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Description:

Slot A021, no tar-like material seeps observed, water on pavement from recent rain event, looking south.

Lat: 29.785392,
Long: -95.318655



Photo No. 2	Date: 06/01/2020
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Description:

Slot B013, no tar-like material seeps observed, looking north.

Lat: 29.785217
Long: - 95.318261





PHOTOGRAPHIC LOG

Client Name: Union Pacific Railroad	Site Location: Englewood Houston, Texas	Project No.: 19119232
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Photo No. 3	Date: 06/01/2020
Description: Slot B096, very small amount of tar-like material seeping at joint, material was removed. Lat: 29.7842528 Long: - 95.3206250	



Photo No. 4	Date: 06/01/2020
Description: Slot B101, very small amount of tar-like material seeping at asphalt crack, material was removed. Lat: 29.784275 Long: - 95.320813	





PHOTOGRAPHIC LOG

Client Name:
Union Pacific Railroad

Site Location:
Englewood Houston, Texas

Project No.
19119232

Photo No.
5

Date:
06/01/2020

Description:

Slot B108, view of NAPL Collection System (Sump 107/108 in background). No tar-like material seeps observed, looking north.

Lat: 29.784125
Long: - 95.320989



Photo No.
6

Date:
06/01/2020

Description:

Slot B100, view of NAPL Collection System (Sump 099/100) and overview of surrounding slots, minimal brown staining observed along asphalt cracks, water from recent rain event on pavement.

Lat: 29.784275
Long: - 95.320813





PHOTOGRAPHIC LOG

Client Name: Union Pacific Railroad	Site Location: Englewood Houston, Texas	Project No. 19119232
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Photo No. 7	Date: 06/10/2020
Description: Slot A010, very small amount of tar-like material seeping at joint, material was removed. Lat: 29.7855833, Long: -95.318375	





Photo No. 8	Date: 06/10/2020
Description: Slot B057, no tar-like material seeps observed. Lat: 29.7847472 Long: - 95.3195417	





PHOTOGRAPHIC LOG

Client Name: Union Pacific Railroad		Site Location: Englewood Houston, Texas	Project No.: 19119232
Photo No.: 9	Date: 06/10/2020		
Description: Slot B104, view of NAPL Collection System (Sump 103/104 in foreground). No tar-like material seeps observed, looking north. Lat: 29.7841639 Long: - 95.3208694			
Photo No.: 10	Date: 06/10/2020		
Description: Sump B103/B104, 10 inches of freeboard in sump, no sheen or odors noted. Lat: 29.7842861 Long: - 95.3208611			



PHOTOGRAPHIC LOG

Client Name: Union Pacific Railroad	Site Location: Englewood Houston, Texas	Project No.: 19119232
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Photo No.: 11	Date: 06/10/2020
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Description:

Slot A021, small amount of tar-like material seeping at joint, material was removed.

Lat: 29.785392,
Long: -95.318655

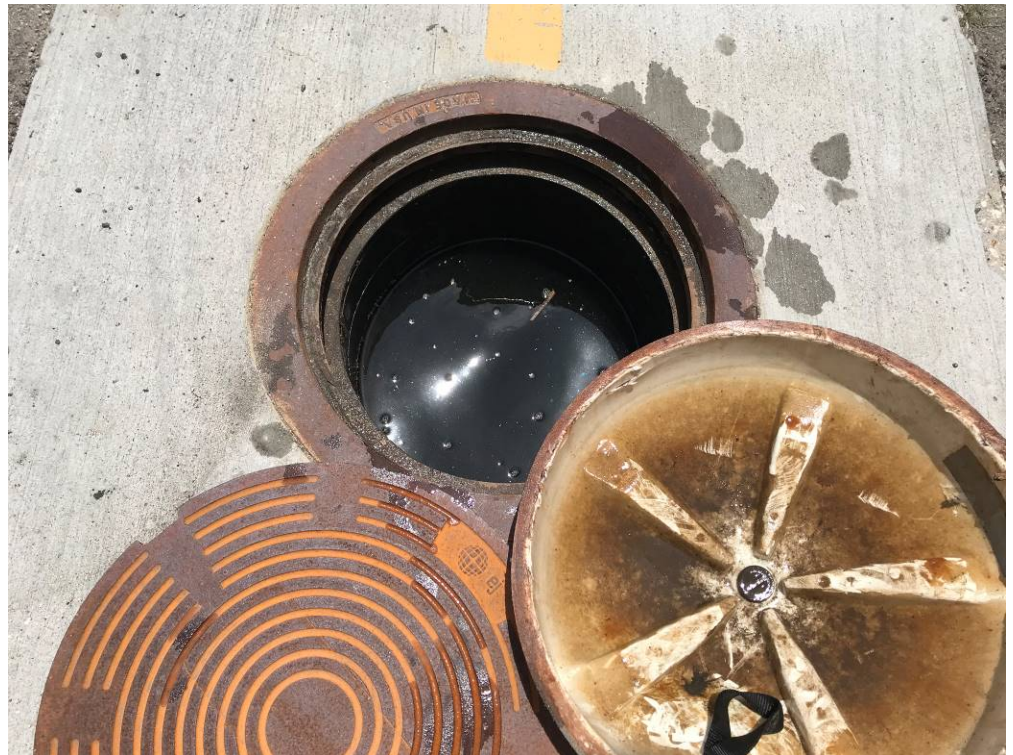


Photo No.: 12	Date: 06/10/2020
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Description:

Sump B107/B108, 9 inches of freeboard in sump, no sheen or odors noted. No tar-like material noted.

Lat: 29.7842861
Long: - 95.3208611





PHOTOGRAPHIC LOG

Client Name: Union Pacific Railroad	Site Location: Englewood Houston, Texas	Project No.: 19119232
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Photo No. 13	Date: 06/10/2020
Description: Slot B097, residual brown staining observed along the crack in the asphalt, looking north. Lat: 29.784402 Long: -95.320520	



Photo No. 14	Date: 06/10/2020
Description: Slot B105, small amount tar-like material seeping at asphalt crack, material was removed. Lat: 29.7841472 Long: - 95.3208777	





Client Name:
Union Pacific Railroad

Site Location:
Englewood Houston, Texas

Project No.
19119232

Photo No.
15

Date:
06/17/2020

Description:

Slot A010, very small amount of tar-like material seeping at joint, material was removed.

Lat: 29.7855833,
Long: -95.318375



Photo No.
16

Date:
06/17/2020

Description:

Slot A022, no tar-like material seeps observed, looking south.

Lat: 29.785382
Long: -95.318678





PHOTOGRAPHIC LOG

Client Name:
Union Pacific Railroad

Site Location:
Englewood Houston, Texas

Project No.
19119232

Photo No.
17

Date:
06/17/2020

Description:

Slot B013, no tar-like material seeps observed, looking north.

Lat: 29.785217
Long: - 95.318261



Photo No.
18

Date:
06/17/2020

Description:

Slot B096, small amount of tar-like material seeping at joint, material was removed.

Lat: 29.7842528
Long: - 95.3206250





PHOTOGRAPHIC LOG

Client Name: Union Pacific Railroad	Site Location: Englewood Houston, Texas	Project No.: 19119232
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Photo No. 19	Date: 06/17/2020
Description: Slot B098, residual brown staining observed along the crack in the asphalt, looking north. Lat: 29.784236 Long: -95.320642	



Photo No. 20	Date: 06/25/2020
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Description: Sump B099/B100, 0 inches of freeboard in sump, no sheen or odors noted, water from recent rain event on pavement. Sump was pumped down by USES on 5/22. Lat: 29.7844000 Long: - 95.3205861	
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PHOTOGRAPHIC LOG

Client Name:
Union Pacific Railroad

Site Location:
Englewood Houston, Texas

Project No.
19119232

Photo No.
21

Date:
06/25/2020

Description:

Slot B057, no tar-like material seeps observed, water from recent rain event on pavement, looking north.

Lat: 29.7847472
Long: - 95.3195417



Photo No.
22

Date:
06/25/2020

Description:

Slot B096, small amount of tar-like material seeping at joint, material was removed, water from recent rain event on pavement.

Lat: 29.7842528
Long: - 95.3206250





PHOTOGRAPHIC LOG

Client Name:
Union Pacific Railroad

Site Location:
Englewood Houston, Texas

Project No.
19119232

Photo No.
23

Date:
06/25/2020

Description

Slot B100, view of NAPL Collection System (Sump 099/100 in background). No tar-like material seeps observed, water from rain event on pavement, looking north.

Lat: 29.7842472
Long: - 95.3206944



Photo No.
24

Date:
06/25/2020

Description:

Slot B102, small amount of tar-like material seeping at joint, material was removed, water from recent rain event in joint.

Lat: 29.7842203
Long: - 95.320827





PHOTOGRAPHIC LOG

Client Name:
Union Pacific Railroad

Site Location:
Englewood Houston, Texas

Project No.
19119232

Photo No.
25

Date:
06/25/2020

Description:

Slot B108, view of NAPL Collection System (Sump 107/108 in background). No tar-like material seeps observed, water from recent rain event on pavement, looking north.

Lat: 29.784125
Long: - 95.320989



Photo No.
26

Date:
06/25/2020

Description:

Frac tank for storage of pumped down water from NAPL Collection Sumps (in Slot B110) and tote for storage of recovered pressure wash water/brown water, water from recent rain event on pavement, looking northwest.

Lat: 29.7841028
Long: - 95.3209833

