



January 13, 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 December 2019 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 for December (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) or Sump 2 (B103/B104 slots). A small amount of dense NAPL (DNAPL) appearing as a tar-like substance was recovered from Sump 3 (B107/B108 slots) on December 3 and 11, 2019. Less than 0.1 gallons were recovered.
- Water continues to collect in the NAPL collection sumps. Water tends to collect more rapidly in Sump 1 compared to Sumps 2 or 3 following pump down events. No pump downs of the sumps were conducted in December, however, a pump down is scheduled for early January 2020. The previous pump down was conducted on October 29, 2019.

- For areas outside the NAPL Collection System, very small amounts of tar-like material were noted near or within stalls B096 and B101 where previous seeps have been observed. The amount of the tar-like material seeping has significantly decreased over the past month. Less than 0.1 gallons of the tar-like material was recovered during December.
- There were no water seeps noted in the Englewood Intermodal Yard area during the weekly inspections in December, similar to the inspections since September 2019.

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 will be provided. The requested information is provided on the enclosed Table 1. Through December 2019, 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 me 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

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/2019-12 december monthly update/houston, tx-wpw-sw-31547 - monthly status update - cap repairs 201212.docx](https://golderassociates.sharepoint.com/sites/116841/project/files/6%20deliverables/pracr/tceq%20comment%20letter/2019-12%20december%20monthly%20update/houston,tx-wpw-sw-31547-monthly%20status%20update-cap%20repairs%20201212.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	

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

Photo No.
1

Date:
12/03/2019

Description:

Slot A010, no tar-like material seeps observed, looking south. Water on ground from recent rain event.

Lat: 29.7855833,
Long: -95.318375



Photo No.
2

Date:
12/03/2019

Description:



Slot A021, no tar-like material seeps observed, looking south.

Lat: 29.7855917
Long: -95.3187469





PHOTOGRAPHIC LOG

Client Name: Union Pacific Railroad		Site Location: Englewood Houston, Texas	Project No.: 19119232
Photo No.: 3	Date: 12/03/2019		
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: 12/03/2019		
Description: Slot B057, no tar-like material seeps observed, looking north. Residual staining noted in foreground of photo. Lat: 29.7847472 Long: - 95.3195417			



PHOTOGRAPHIC LOG

Client Name: Union Pacific Railroad	Site Location: Englewood Houston, Texas	Project No.: 19119232
---	---	---------------------------------

Photo No. 5	Date: 12/03/2019
Description: Slot B102, no tar-like material seeps observed, looking north. Lat: 29.7841806 Long: - 95.3208083	

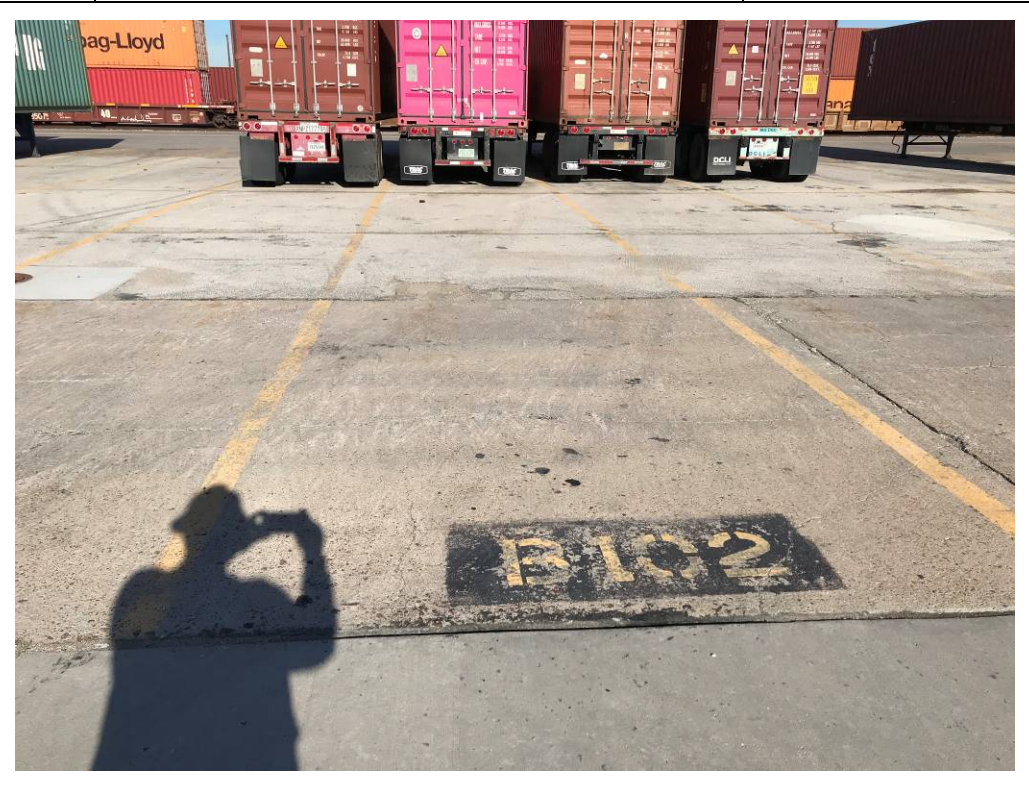
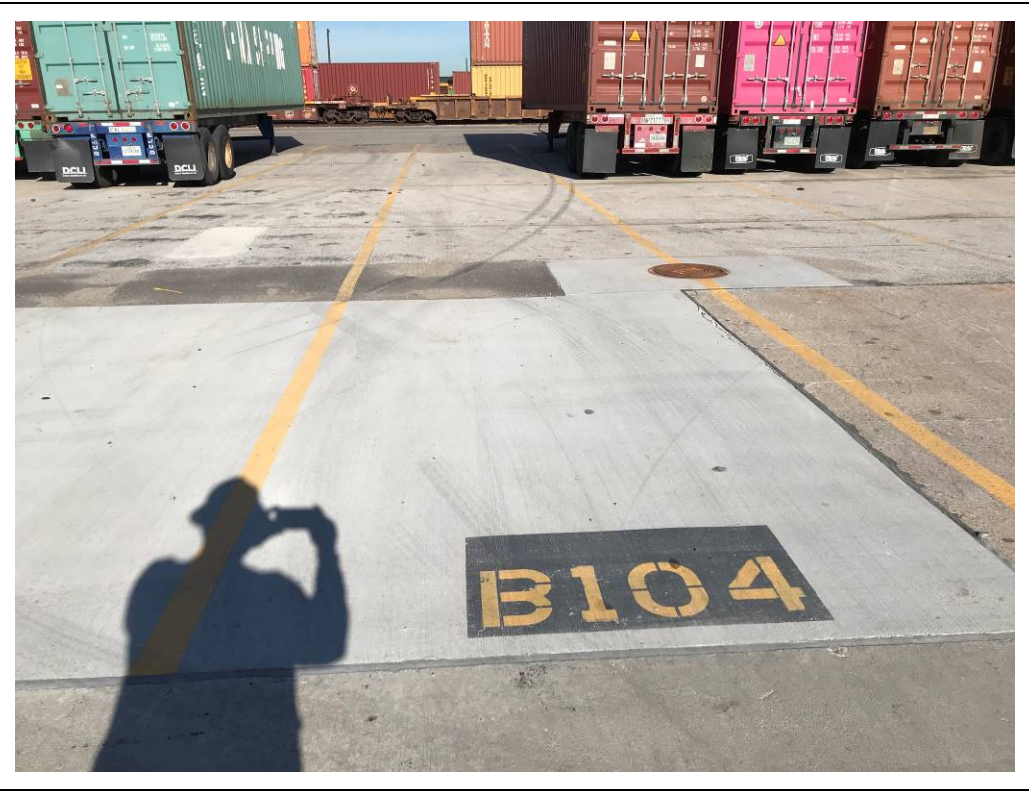


Photo No. 6	Date: 12/03/2019
Description: Slot B104, view of NAPL Collection System (Sump 103/104 in foreground). No tar-like material seeps observed, looking north. Lat: 29.7841639 Long: - 95.3208694	





PHOTOGRAPHIC LOG

Client Name:
Union Pacific Railroad

Site Location:
Englewood Houston, Texas

Project No.
19119232

Photo No.
7

Date:
12/03/2019

Description:

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

Lat: 29.7841167
Long: - 95.3209833



Photo No.
8

Date:
12/03/2019

Description:



Frac tank for storage of pumped down water from NAPL Collection Sumps (in Slot B110), some stormwater noted in secondary containment, looking west.

Lat: 29.7841028
Long: - 95.3209833





PHOTOGRAPHIC LOG

Client Name: Union Pacific Railroad		Site Location: Englewood Houston, Texas	Project No.: 19119232
Photo No.: 9	Date: 12/11/2019		
Description: Slot B013, no tar-like material seeps observed, looking north. Lat: 29.785217 Long: - 95.318261			
Photo No.: 10	Date: 12/11/2019		
Description: Slot B101, looking east. Residual staining along joint running east-west. No seep water noted (residual water from recent rain event). Lat: 29.784211 Long: - 95.320769			



PHOTOGRAPHIC LOG

Client Name: Union Pacific Railroad	Site Location: Englewood Houston, Texas	Project No.: 19119232
---	---	---------------------------------

Photo No. 11	Date: 12/11/2019
------------------------	----------------------------

Description:

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

Lat: 29.784253
Long: - 95.320625



Photo No. 12	Date: 12/11/2019
------------------------	----------------------------

Description:

Slot B098, no tar-like material seeps observed, looking north.

Lat: 29.784231
Long: - 95.320694





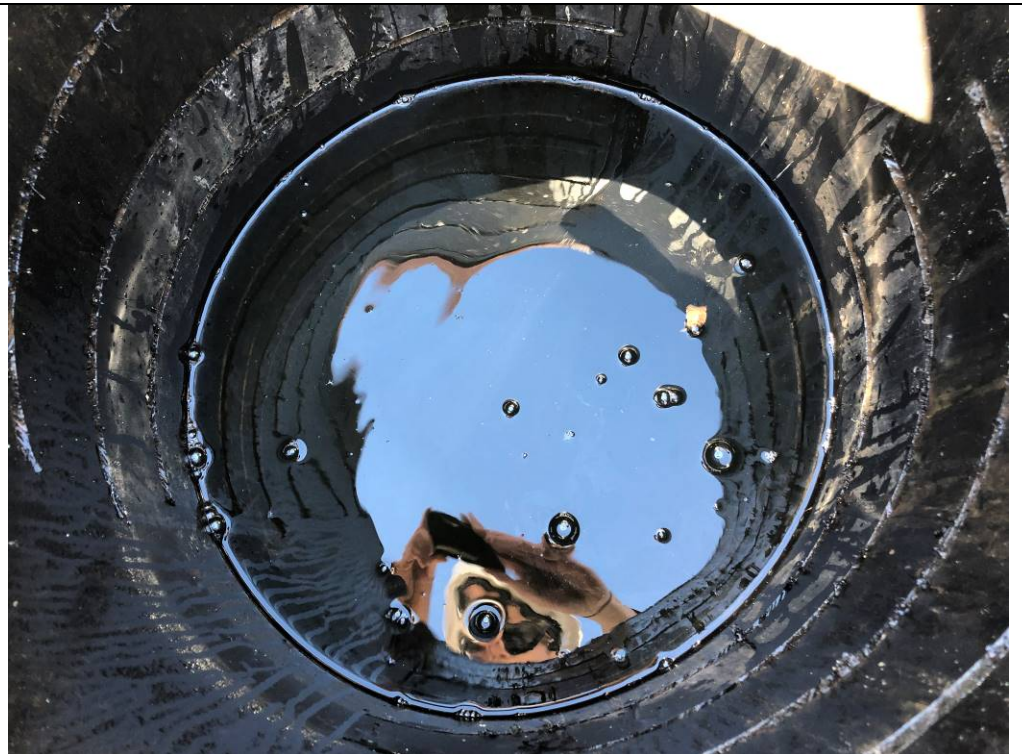
PHOTOGRAPHIC LOG

Client Name: Union Pacific Railroad	Site Location: Englewood Houston, Texas	Project No. 19119232
--	---	--------------------------------

Photo No. 13	Date: 12/11/2019
Description: Sump B099/B100, approx. 1.5 inches of freeboard in sump, no sheen or odors noted. Lat: 29.7844000 Long: - 95.3205861	



Photo No. 14	Date: 12/11/2019
Description: Sump B107/B108, approx. 16.5 inches of freeboard in sump, no sheen or odors noted. However, small amount of tar-like material removed from bottom of sump. Lat: 29.7842861 Long: - 95.3208611	





PHOTOGRAPHIC LOG

Client Name:
Union Pacific Railroad

Site Location:
Englewood Houston, Texas

Project No.
19119232

Photo No.
15

Date:
12/17/2019

Description:

Slot B105, no tar-like material seeps observed, looking north.

Lat: 29.7841472
Long: - 95.3208777



Photo No.
16

Date:
12/17/2019

Description:

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

Lat: 29.7842722
Long: - 95.3206472





PHOTOGRAPHIC LOG

Client Name: Union Pacific Railroad	Site Location: Englewood Houston, Texas	Project No. 19119232
--	---	--------------------------------

Photo No. 17	Date: 12/17/2019
Description: Slot B057, no tar-like material seeps observed, looking north. Lat: 29.7847166 Long: - 95.3195417	



Photo No. 18	Date: 12/17/2019
-------------------------------	----------------------------

Description: Slot B099, view of NAPL Collection System (Sump 099/100 in foreground). No tar-like material seeps observed, looking north. Lat: 29.7842472 Long: - 95.3206944	
---	--





PHOTOGRAPHIC LOG

Client Name: Union Pacific Railroad	Site Location: Englewood Houston, Texas	Project No. 19119232
--	---	--------------------------------

Photo No. 19	Date: 12/17/2019
Description: Sump B099/B100, approx. 5 inches of freeboard in sump, no sheen or odors noted Lat: 29.7844000 Long: - 95.3205861	



Photo No. 20	Date: 12/17/2019
Description: Sump B103/B104, approx. 19.5 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
---	---	---------------------------------

Photo No. 21	Date: 12/23/2019
Description Slot B106, no tar-like material seeps observed, looking north. Lat: 29.7841194 Long: - 95.3209306	



Photo No. 22	Date: 12/23/2019
Description: Slot B107, view of NAPL Collection System (Sump 107/108 in foreground). No tar-like material seeps observed, looking north. Lat: 29.7841028 Long: - 95.3209611	





PHOTOGRAPHIC LOG

Client Name:
Union Pacific Railroad

Site Location:
Englewood Houston, Texas

Project No.
19119232

Photo No.
23

Date:
12/23/2019

Description:

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

Lat: 29.7840917
Long: - 95.3209833



Photo No.
24

Date:
12/23/2019

Description:

Slot B109, no tar-like material seeps observed, looking north.

Lat: 29.7840889
Long: - 95.3210306

