



October 15, 2021

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), a member of WSP, on behalf of Union Pacific Railroad Company (UPRR), is pleased to provide this monthly status update for September 2021 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 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 September 2021 (photographs from the weekly inspections are provided in Attachment A):

- The water levels in Sump 1 (B099/B100 slots), Sump 2 (B103/B104 slots), and Sump 3 (B107/B108 slots) were at or near the top of the sumps on September 15, 2021. The sumps were pumped down on September 17, 2021. Approximately 10,000 gallons were removed from the sumps during the pump down event. The water level in Sump 1 recovered to the top of the sump by September 29, 2021. The water levels in Sumps 2 and 3 recovered to 29 inches and 30.75 inches from the top of the sumps, respectively, by the September 29th inspection. Water level data for the sumps are available in Table 1. The water in the sumps was observed as being brown in color. A sheen was observed on the water in Sump 3 on September 22, 2021 (Photo No. 30) and in Sumps 2 and 3 on September 29, 2021 (Photo Nos. 34 and 35). No odors were reported during the September 2021 inspections.
- The NAPL collection sumps have continued to be checked weekly for DNAPL using an interface probe. Even though no measurable DNAPL has been 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

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weekly inspections. No DNAPL was observed or encountered using the dipper tool during the weekly inspections in September. No DNAPL was observed during the pump down event on September 17th.

- A very small tar-like NAPL surface seep was observed in an asphalt crack approximately one foot outside of the edge of the NAPL Collection System in stall B105 during two of the five inspections in September (September 1st and 22nd) (Photo Nos. 6 and 29). For areas outside the NAPL Collection System, small amounts of tar-like material were observed on the concrete surface in the following locations during September:

Seep Observations Outside the NAPL Collection System Area	
Stall Number	Observation Date(s)
A011	September 15 th
A022	September 1 st and 22 nd
B057	September 1 st , 15 th , and 29 th
B101	September 1 st , 15 th , and 22 nd
B102	September 1 st , 8 th , 15 th , and 22 nd

Tar-like material observed during the inspection events was recovered using a hand tool to scrape up the material. During the September 8th inspection, track marks from a container transport vehicle running over the seep in stall B102 were observed (Photo No. 11). The tracking was observed to run northeast to southwest and extended from Stall B090-B118. Barricades were set up surrounding the B102 seep location to prevent further tracking on September 10th (Photo No. 12). During September, the number of tar-like material seeps observed during inspections and the total amount of material removed from the concrete surface increased compared to the August inspections. A total of approximately 7 gallons of tar-like material was recovered for the month and placed in a drum for disposal. Approximately 5.5 gallons of the 7 total that were recovered came from the seep in stall B102. The drum is staged at the Container Storage Area (CSA).

- No widespread brown water seeping or staining was observed during September. During the September 1st and 15th weekly inspections, brown stained water had collected within the damaged concrete area at the July 2020 test pit location in B096 slot (Photo Nos. 3 and 15). Sheen was also observed on standing water in a depression in the asphalt (not the July 2020 test pit location) in stall A010 during the September 15th inspection. After the September 1st inspection, the remediation contractor was called to mobilize to the Site and pressure wash the area; however, Golder personnel arrived on September 8th and no standing water or staining was present. As a result, there was no need to pressure wash the area and no water was recovered. UPRR will continue to have a remediation contractor pressure wash 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. During the weekly inspections through September 2021, no NAPL seeps

have been observed at the seven test pit locations (slots A010, A021, A098, B013, B057, B096, and B108). The seep observed in slot B057 during the inspection on September 1st, 15th, and 29th is located at an asphalt crack near the western edge of the slot (Photo Nos. 2, 14, and 32) and not at the test pit location. 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 September 2021. During the June 30, 2021 inspection, concrete patches covering test pits in slots B013 and B096 were observed to be damaged. During the July 7, 2021 inspection, concrete patches in slots A010 and B057 were observed to be damaged. The A021 concrete patch was observed to be damaged on July 29, 2021. UPRR is scheduling repairs to the test pit concrete patches and it is anticipated that those repairs will be conducted in October.

- 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.
- Weekly site inspections of the NAPL Collection System and Englewood Intermodal Yard concrete pavement near the collection system will continue to be conducted. 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. No measurable NAPL has been detected in the sumps using the interface probe through September 2021.

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

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

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

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 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	

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
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	
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



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: 9/1/2021		
Description: Slot A022, small amount of tar-like material seeping at asphalt crack, material was removed. Lat: 29.785392, Long: -95.318655			
Photo No. 2	Date: 9/1/2021		
Description: Slot B057, small amount of tar-like material seeping at asphalt crack (not at July 2020 test pit location), material was removed. Lat: 29.7847472 Long: - 95.3195417			





PHOTOGRAPHIC LOG

Client Name: Union Pacific Railroad		Site Location: Englewood Houston, Texas	Project No. 19119232
Photo No. 3	Date: 9/1/2021		
Description: Slot B096, no tar-like material seeps observed where test pit conducted (July 2020), brown stained water observed in damaged test pit pavement, looking northwest. Lat: 29.7842528 Long: - 95.3206250			
Photo No. 4	Date: 9/1/2021		
Description: Slot B101, 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: 9/1/2021		
Description: Slot B102, small amount of tar-like material seeping at pavement joint, material was removed. Lat: 29.7842203 Long: - 95.320827			
Photo No. 6	Date: 9/1/2021		
Description: Slot B105, very small amount of tar-like material observed seeping observed at asphalt crack, material was removed. Lat: 29.7841472 Long: - 95.3208777			



PHOTOGRAPHIC LOG

Client Name: Union Pacific Railroad		Site Location: Englewood Houston, Texas	Project No. 19119232
Photo No. 7	Date: 9/8/2021		
Description: Slots A010 and A011, no tar-like material observed, A010 test pit pavement damaged, looking southeast. Lat: 29.785392, Long: -95.318655			
Photo No. 8	Date: 9/8/2021		
Description: Slot A021, no tar-like material seeps observed where test pit conducted (July 2020), test pit pavement damaged. Lat: 29.785392, Long: -95.318655			



Client Name: Union Pacific Railroad		Site Location: Englewood Houston, Texas	Project No. 19119232
Photo No. 9	Date: 9/8/2021		
Description: Slot B013, no tar-like material seeps observed where test pit conducted (July 2020), test pit pavement damaged. Lat: 29.785217 Long: - 95.318261			
Photo No. 10	Date: 9/8/2021		
Description: Slot B102, tar-like material seeping at pavement joint, material was removed. Lat: 29.7842203 Long: - 95.320827			



Client Name:
Union Pacific Railroad

Site Location:
Englewood Houston, Texas

Project No.
19119232

Photo No.
11

Date:
9/8/2021

Description:

View of slots B111-B090, NAPL collection system visible in background, tar-like material tracking from the B102 seep observed, looking northeast.

Lat: 29.784358
Long: -95.320611



Photo No.
12

Date:
9/10/2021

Description:

Slot B102, barricades placed around seep location to prevent material from tracking.

Lat: 29.7842203
Long: - 95.320827





Client Name:
Union Pacific Railroad

Site Location:
Englewood Houston, Texas

Project No.
19119232

Photo No.
13

Date:
9/15/2021

Description:

Slot A010, no tar-like material seeps observed where test pit conducted (July 2020), sheen observed on standing water from recent rain event in asphalt depression (not the test pit).

Lat: 29.7855833,
Long: -95.318375



Photo No.
14

Date:
9/15/2021

Description:

Slot B057, small amount of tar-like material seeping at asphalt crack (not at July 2020 test pit location), material was removed.

Lat: 29.7847472
Long: - 95.3195417





Client Name:
Union Pacific Railroad

Site Location:
Englewood Houston, Texas

Project No.
19119232

Photo No.
15

Date:
9/15/2021

Description:

Slot B096, no tar-like material seeps observed where test pit conducted (July 2020), brown stained water from recent rain event observed in damaged test pit pavement.

Lat: 29.7842528
Long: - 95.3206250



Photo No.
16

Date:
9/15/2021

Description:



Slot B101, small amount of tar-like material seeping at asphalt crack, water on pavement from recent rain event, 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. 17	Date: 9/15/2021		
Description: Slots B104-B098, barricades placed around B102 seep location to prevent material from tracking were blown down, material tracking observed, pavement wet from recent rain event, looking east. Lat: 29.7842861 Long: - 95.3208611			
Photo No. 18	Date: 9/15/2021		
Description: Slot B102, tar-like material seeping at pavement joint, barricades set back up to prevent material tracking, pavement wet from recent rain event, material was removed. Lat: 29.7842203 Long: - 95.320827			



Client Name:
Union Pacific Railroad

Site Location:
Englewood Houston, Texas

Project No.
19119232

Photo No.
19

Date:
9/15/2021

Description:

Sump 1 (B099/B100), 0 inches of freeboard in sump, no sheen or odor noted, water on pavement from recent rain event.

Lat: 29.7844000
Long: - 95.3205861



Photo No.
20

Date:
9/15/2021

Description:

Sump 2 (B103/B104), 3 inches of freeboard in sump, no sheen or odor noted, water on pavement from recent rain event.

Lat: 29.7842861
Long: - 95.3208611





Client Name:
Union Pacific Railroad

Site Location:
Englewood Houston, Texas

Project No.
19119232

Photo No.
21

Date:
9/15/2021

Description:

Sump 3 (B107/B108), 4 inches of freeboard in sump no sheen or odor noted. No tar-like material recovered.

Lat: 29.784172
Long: -95.320998



Photo No.
22

Date:
9/17/2021

Description:



Sump 1 (B099/B100), emptied during pump down event, no sheen, odor, or tar-like material noted.

Lat: 29.7844000
Long: - 95.3205861







PHOTOGRAPHIC LOG

Client Name: Union Pacific Railroad		Site Location: Englewood Houston, Texas	Project No. 19119232
Photo No. 23	Date: 9/17/2021		
Description: Sump 2 (B103/B104), during pump down event, no sheen, odor, or tar-like material noted. Lat: 29.7842861 Long: - 95.3208611			
Photo No. 24	Date: 9/17/2021		
Description: Sump 3 (B107/B108), during pump down event, no sheen, odor, or tar-like material noted. Lat: 29.784172 Long: -95.320998			





PHOTOGRAPHIC LOG

Client Name: Union Pacific Railroad		Site Location: Englewood Houston, Texas	Project No. 19119232
Photo No. 25	Date: 9/22/2021		
Description: Slot A011, small amount of tar-like material seeping at asphalt crack, material was removed. Lat: 29.785467 Long: -95.318347			
Photo No. 26	Date: 9/22/2021		
Description: Slot A022, very small amount of tar-like material seeping at asphalt crack, material was removed. Lat: 29.785392, Long: -95.318655			



PHOTOGRAPHIC LOG

Client Name: Union Pacific Railroad		Site Location: Englewood Houston, Texas	Project No. 19119232
Photo No. 27	Date: 9/22/2021		
Description Slot B101, small amount of tar-like material seeping at asphalt crack, material was removed. Lat: 29.784275 Long: - 95.320813			
Photo No. 28	Date: 9/22/2021		
Description: Slot B102, tar-like material seeping at pavement joint, material was removed. Lat: 29.7842203 Long: - 95.320827			





PHOTOGRAPHIC LOG

Client Name: Union Pacific Railroad		Site Location: Englewood Houston, Texas	Project No. 19119232
Photo No. 29	Date: 9/22/2021		
Description: Slot B105, very small amount of tar-like material observed seeping observed at asphalt crack, material was removed. Lat: 29.7841472 Long: - 95.3208777			
Photo No. 30	Date: 9/22/2021		
Description: Sump 3 (B107/B108), 46 inches of freeboard in sump. Sheen was observed on the water in the sump. No odors noted. No tar-like material recovered. Lat: 29.784172 Long: -95.320998			





PHOTOGRAPHIC LOG

Client Name: Union Pacific Railroad		Site Location: Englewood Houston, Texas	Project No. 19119232
Photo No. 31	Date: 9/29/2021		
Description: Slots A010-A022, no tar-like material seeps observed test pit pavement damaged, standing water from recent rain event, no sheen or discoloration observed, looking southeast. Lat: 29.7855833, Long: -95.318375			
Photo No. 32	Date: 9/29/2021		
Description: Slot B057, small amount of tarlike material seeping at asphalt crack (not at July 2020 test pit location), material was removed. Lat: 29.7847472 Long: - 95.3195417			





PHOTOGRAPHIC LOG

Client Name: Union Pacific Railroad		Site Location: Englewood Houston, Texas	Project No. 19119232
Photo No. 33	Date: 9/29/2021		
Description: Sump 1 (B099/B100), 0 inches of freeboard in sump, no sheen or odor noted, water on pavement from recent rain event. Lat: 29.7844000 Long: - 95.3205861			
Photo No. 34	Date: 9/29/2021		
Description: Sump 2 (B103/B104), 29 inches of freeboard in sump. Sheen was observed on water in sump. No 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. 35	Date: 9/29/2021		
Description: Sump 3 (B107/B108), 30.75 inches of freeboard in sump. Sheen was observed on the water in the sump. No odors noted. No tar-like material recovered. Lat: 29.784172 Long: -95.320998			
Photo No. 36	Date: 9/29/2021		
Description: View of slots B097-B109, NAPL collection system visible in background, barricades set up at B102 seep, standing water on pavement from recent rain event, looking northwest. Lat: 29.784300 Long: -95.320711			