

August 13, 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 July 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.

The 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 July 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 the top of the sumps during the July 7<sup>th</sup> and July 14<sup>th</sup> weekly inspections. The sumps were pumped down on July 15, 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 July 21, 2021. The water levels in Sumps 2 and 3 recovered to 37 inches and 35.5 inches from the top of the sumps, respectively, by July 29, 2021. Water level data for the sumps are available in Table 1. The water in the sumps was observed as being brown in color. No sheens or odors were reported during the July 2021 inspections or pump down.
- 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 weekly inspections. However, no DNAPL was observed or encountered using the dipper tool during

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the weekly inspection during July. In addition, no DNAPL was visually observed or recovered from Sump 1, 2, or 3 during the July pump down event.

- A very small tar-like NAPL surface seep was observed near the NAPL Collection System area in stall B105 during two of the four inspections in July (July 7<sup>th</sup> and 29<sup>th</sup>) (Photo Nos. 7 and 37). For areas outside the NAPL Collection System, small amounts of tar-like material were observed on the concrete surface in stalls A022 and B102 during each inspection event in July. Tar-like material observed during the inspection events was recovered using a hand tool to scrape up the material. During July, the number of tar-like material seeps observed during inspections and the total amount of material removed from the concrete surface decreased compared to the June inspections. A total of approximately 1.2 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).
- No widespread brown water seeping or staining was observed during the July inspections. 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 July 2021, no NAPL seeps have been observed at the seven test pit locations (slots A010, A021, A098, B013, B057, B096, and B108). 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 will coordinate with a subcontractor to repair the concrete patches.
- 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 July 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,

CC:

Golder Associates Inc.

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

Eric Pastor, P.E. Principal / Program Leader

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

TABLE

# TABLE 1NAPL Measurements - NAPL Collection System - Englewood Intermodal YardUPRR Houston, tx - Wood Preserving Works

Measured	Sump 1 (B099/B100)	Sump 2 (B103/B104)	Sump 3 (B107/B108)	Depth to DNAPL	
Date	Freeboard (in)	Freeboard (in)	Freeboard (in)	(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
					Sheen visible in B107/B108 sump, less than 0.1 gal of
10/2/2019	2.5	42.5	42	Not measurable	DNAPL recovered
					Sheen visible in B107/B108 sump, less than 0.1 gal of
10/9/2019	3	42	41.5	Not measurable	DNAPL recovered
					Less than 0.1 gal of DNAPL recovered from B107/B108
10/16/2019	0	39.5	39	Not measurable	Sump
					Less than 0.1 gal of DNAPL recovered from B107/B108
10/24/2019		35	25	Not measurable	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	
					Less than 0.1 gal of DNAPL recovered from B107/B108
11/13/2019		30	29	Not measurable	Sump
11/19/2019	4	26	25.5	Not measurable	
11/27/2019	0	25	23	Not measurable	
					Less than 0.1 gal of DNAPL recovered from B107/B108
12/3/2019	2	25.5	25	Not measurable	Sump
					Less than 0.1 gal of DNAPL recovered from B107/B108
12/11/2019		17	16.54	Not measurable	Sump
12/17/2019	5	19.5	17.5	Not measurable	
12/23/2019		21	20.5	Not measurable	
1/7/2020		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		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 23	21	Not measurable	
4/28/2020	0	23	22	Not measurable	Massuraments were not taken the increator was
E /4/2020	-			Not Measured	Measurements were not taken; the inspector was
5/4/2020 5/12/2020	- 0	20	- 19	Not measurable	unable to open the sumps
5/12/2020	0	15.75	19	Not measurable	Sump 1 pumped down (May 22nd)
5/27/2020	0	15.75	14.25	Not measurable	Sump i pumpeu down (iviay zznu)
6/1/2020	0	7	5	Not measurable	
6/10/2020	0	10	9	Not measurable	
6/17/2020	1	10	<u>9</u> 11	Not measurable	
6/25/2020	0	0	0	Not measurable	
6/30/2020		0	0	Not measured	
7/1/2020	48	46	47	Not measurable	Sumps 1, 2, & 3 pumped down
., _, _, 2020					Less than 0.1 gal of DNAPL recovered from B107/B108
7/8/2020	34	24.5	24	Not measurable	Sump
,,5,2020	<u>J</u>	2-7.5	<u> </u>	not measurable	
					Sheen visible in B99/B100 sump & B107/B108 sump,
7/15/2020	32	29.5	29	Not measurable	less than 0.1 gal of DNAPL recovered B107/B108 sump
,,15,2020	52	23.5		Not measurable	Less than 0.1 gal of DNAPL recovered 5107/5108 sump
7/23/2020	0	23	22.5	Not measured	Sump
7/31/2020		11	10	Not measurable	P
,,51,2020	5		10	not measurable	1

## TABLE 1NAPL Measurements - NAPL Collection System - Englewood Intermodal YardUPRR Houston, tx - Wood Preserving Works

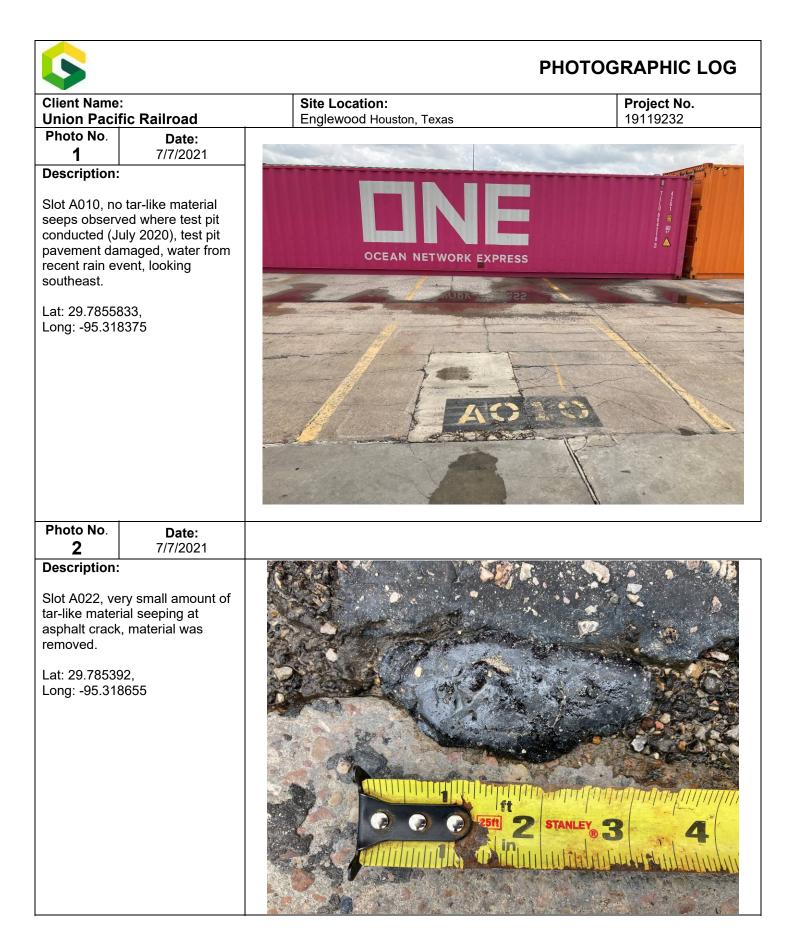
	Sump 1	Sump 2	Sump 3		
Measured	(B099/B100)	(B103/B104)	(B107/B108)	Depth to DNAPL	Common to
Date	Freeboard (in)	Freeboard (in)	Freeboard (in)	(in)	Comments
8/5/2020	0	7	5	Not measurable	
8/13/2020	1	11 7	10	Not measurable	
8/19/2020	0	10	6 9	Not measurable	
8/26/2020	0	10	9	Not measurable	Sumps 1, 2, & 3 pumped down (September 1); Sheen
0/2/2020	12	37	20	Not measurable	visible in B99/B100 sump & B107/B108 sump
9/2/2020 9/9/2020	43 28	37	38 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	10	11.5	Not measurable	
10/0/2020		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	10.5	10	Not measurable	
10/28/2020	9	13	10	Not measurable	
11/11/2020	0.5	12	11	Not measurable	
11/11/2020	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	
					Less than 0.1 gal of DNAPL recovered B107/B108 sump;
4/14/2021	0	6.5	6	Not measurable	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	
L	0	37	35.5	Not measurable	

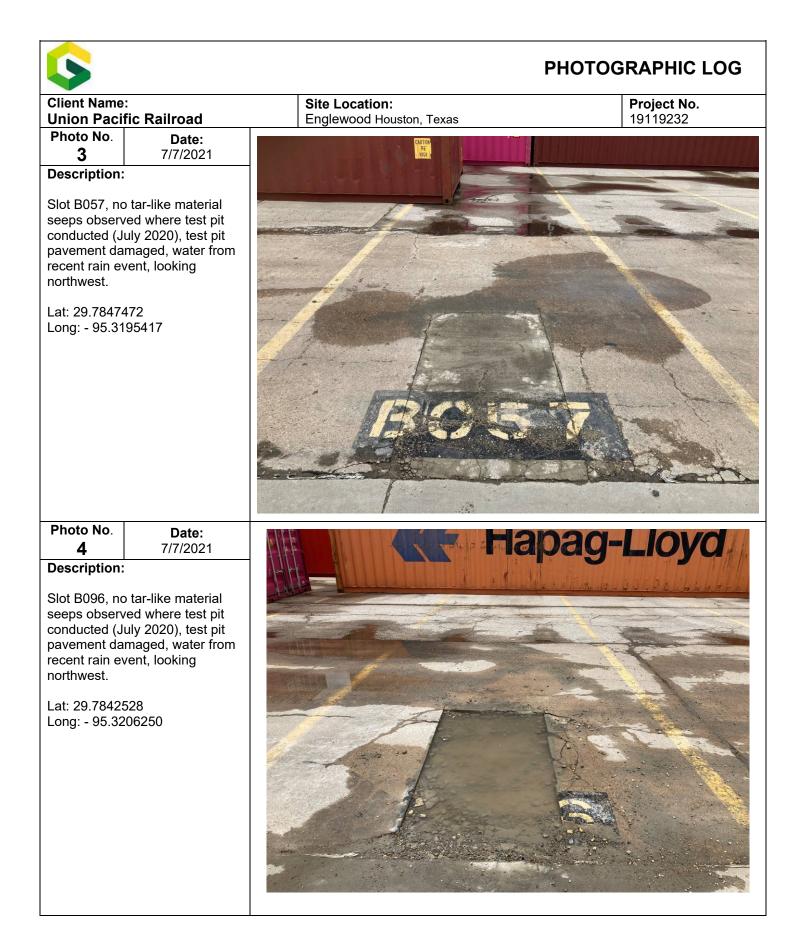
Note:

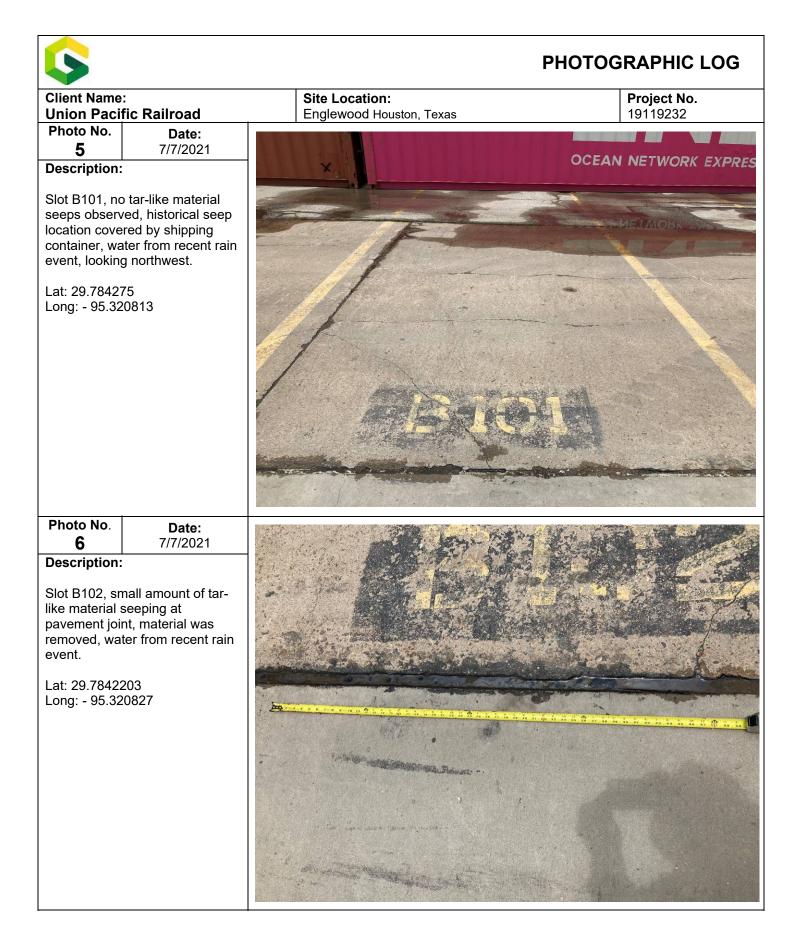
Freeboard in sumps is measured as depth to water from top rim of sump, measured in inches

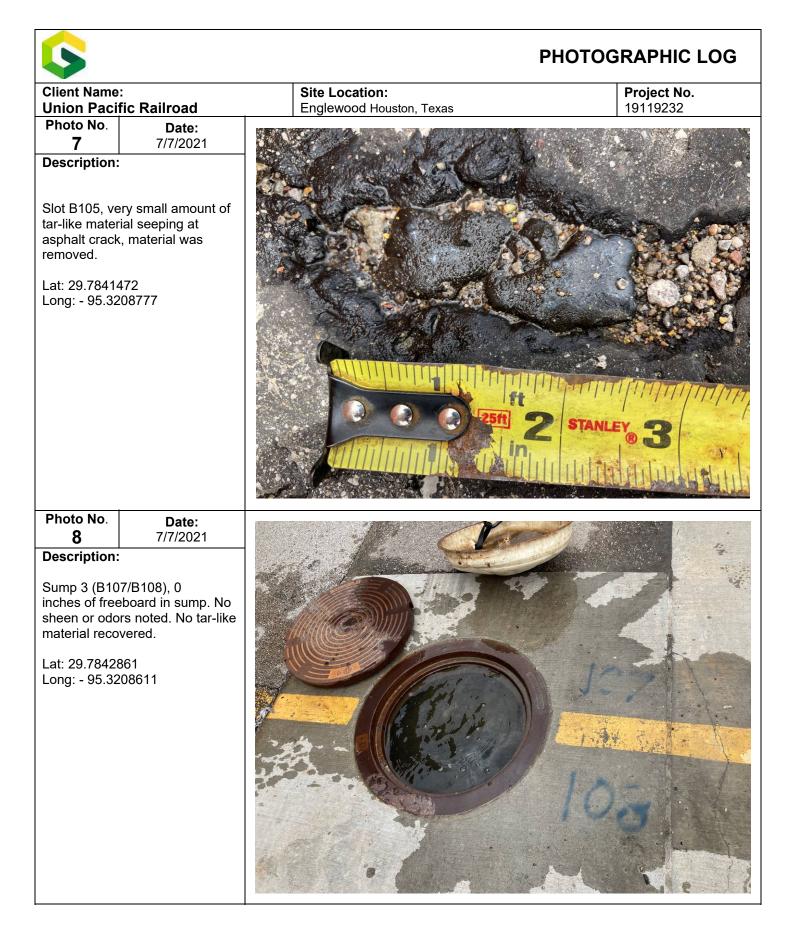
ATTACHMENT A

Weekly Inspection Photolog



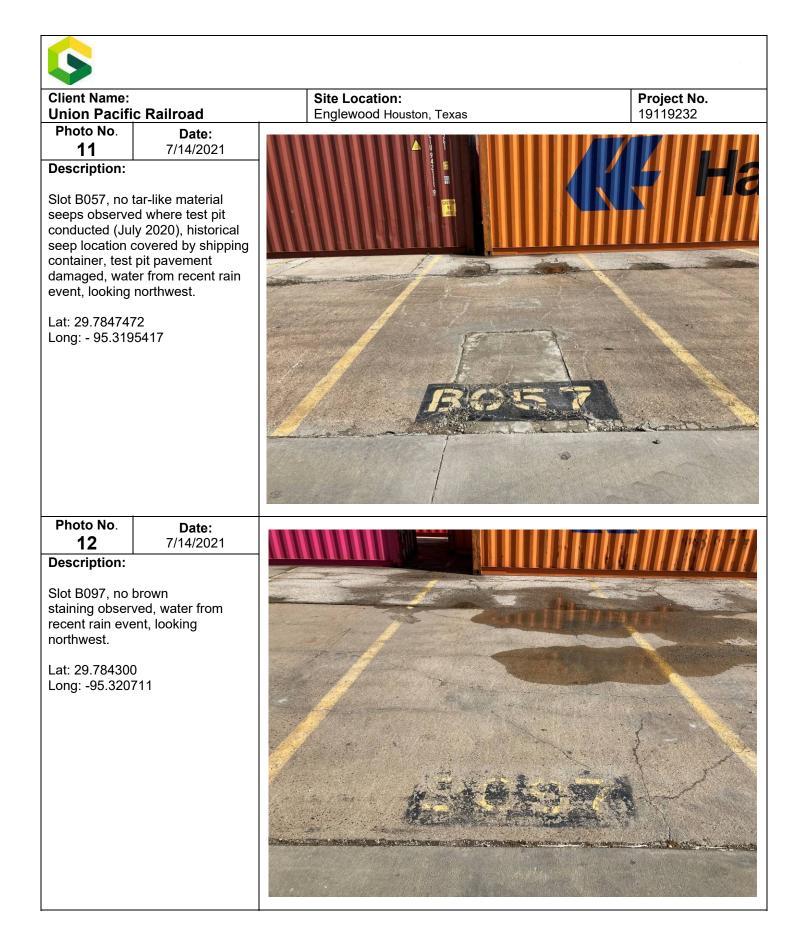


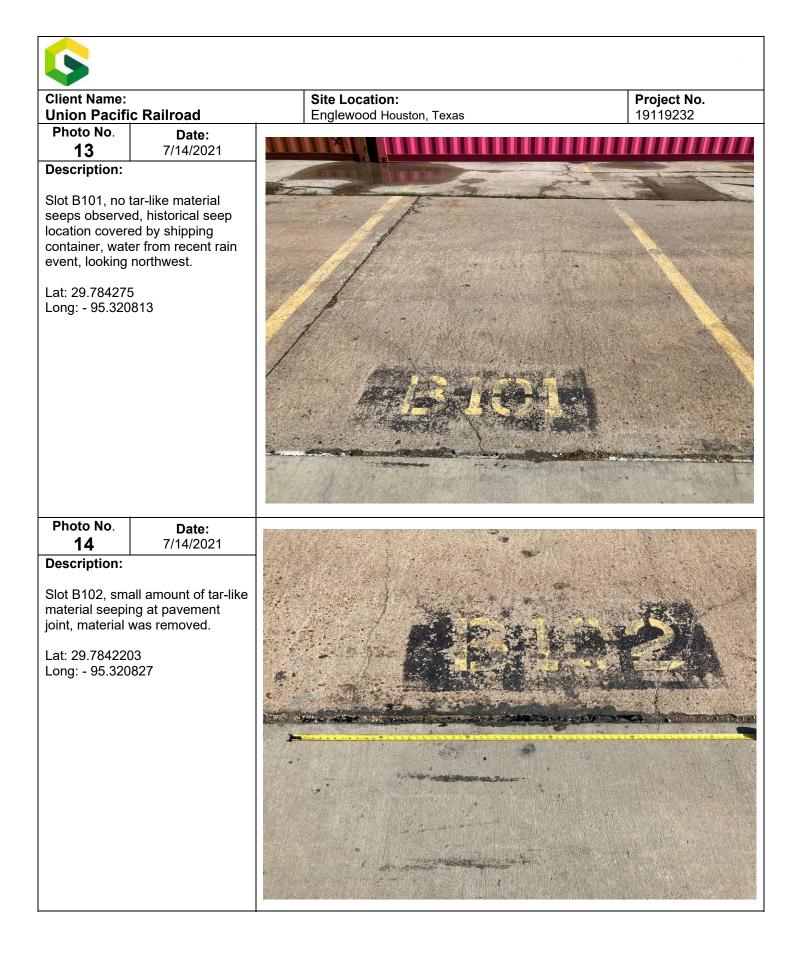


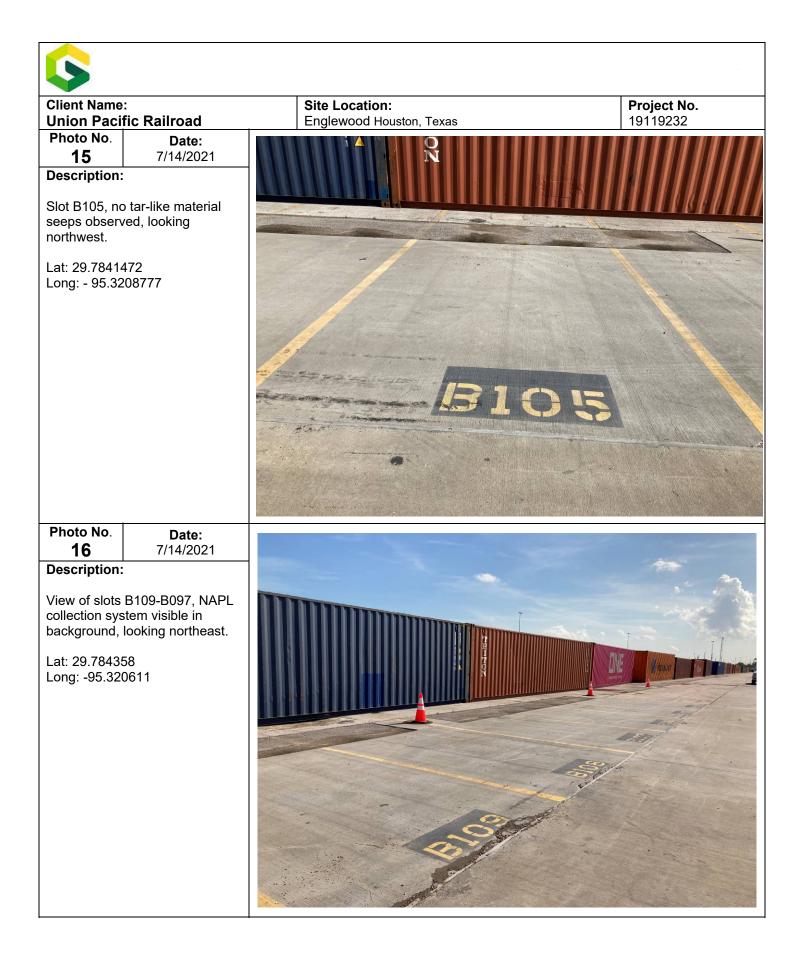


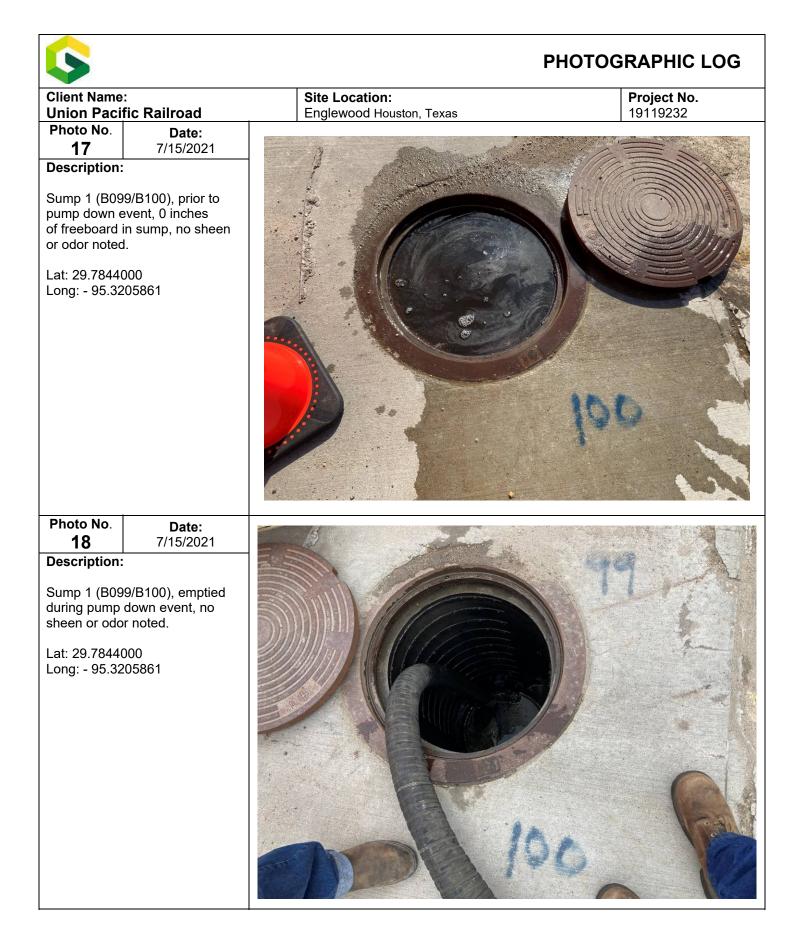


Client Name: Union Pacific Railroad		Site Location: Englewood Houston, Texas	<b>Project No.</b> 19119232
Photo No.	Date:		
9	7/14/2021		the second
Description: Slot A022, very small amount of tar-like material seeping at asphalt crack, material was removed. Lat: 29.785392, Long: -95.318655		tt th th th th th th th th th	
seeps observe	Date: 7/14/2021 ar-like material d where test pit		WHERA HAR
conducted (July 2020), test pit pavement damaged, water from recent rain event, looking northwest. Lat: 29.785217			
Long: - 95.318	201		

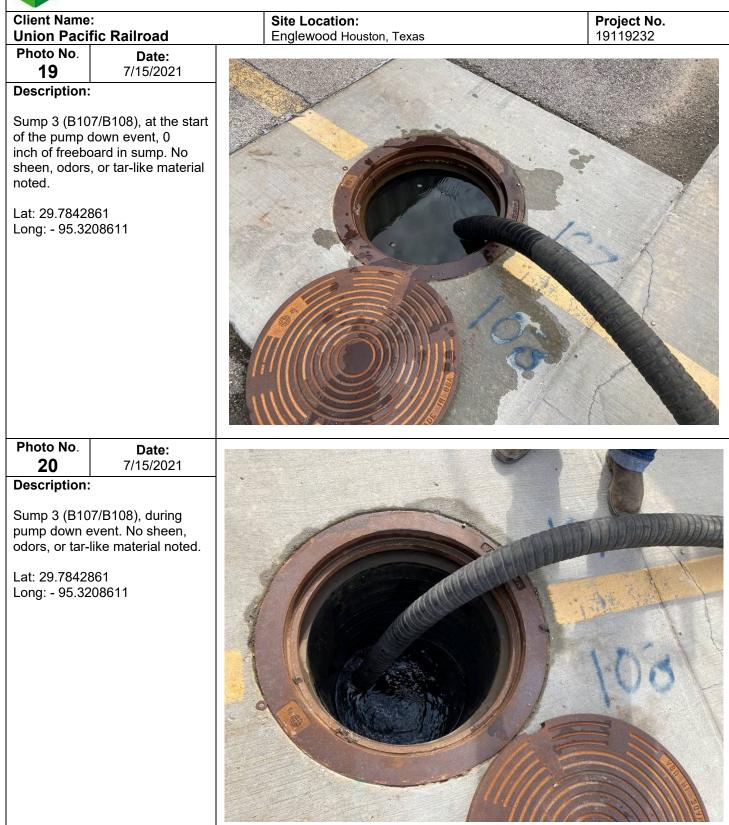


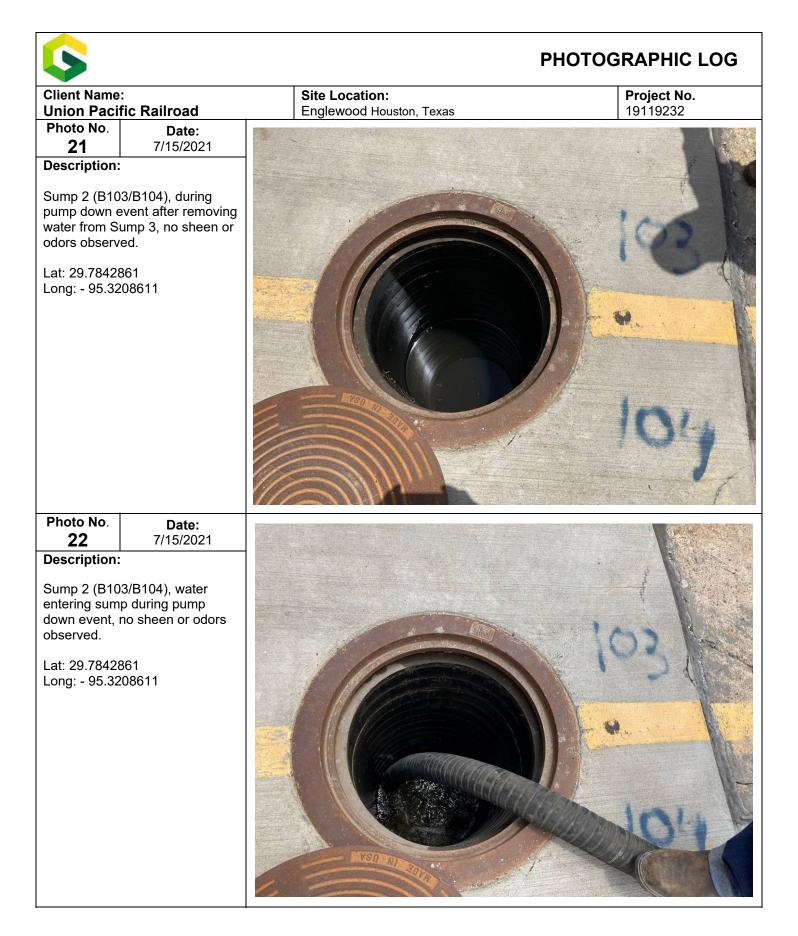












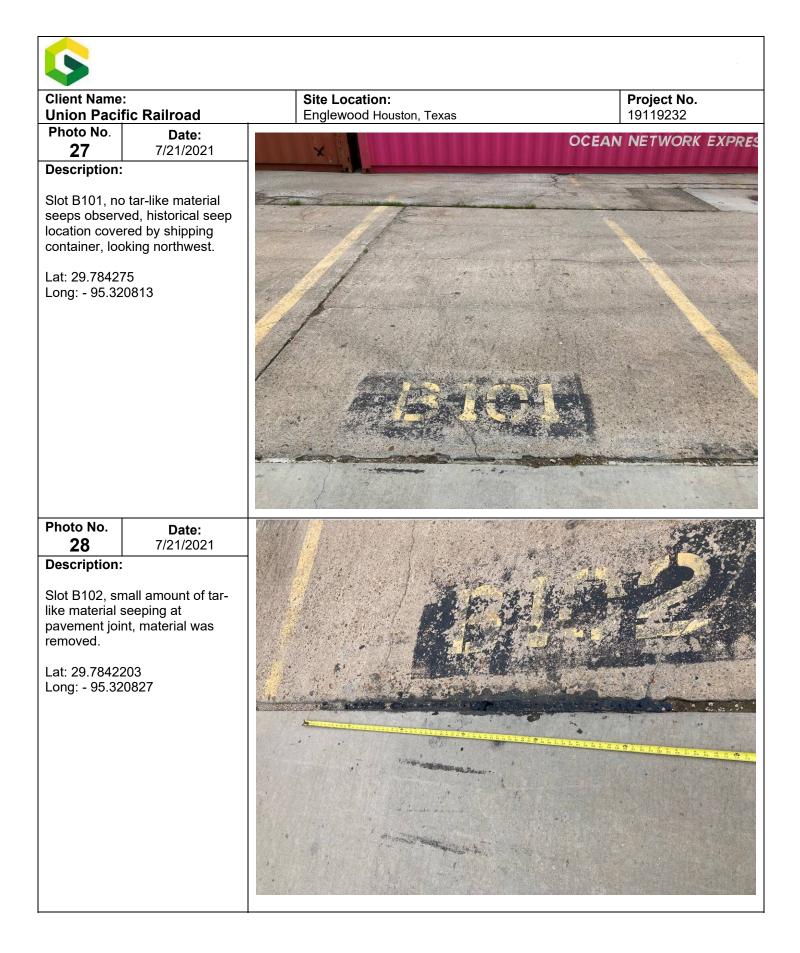


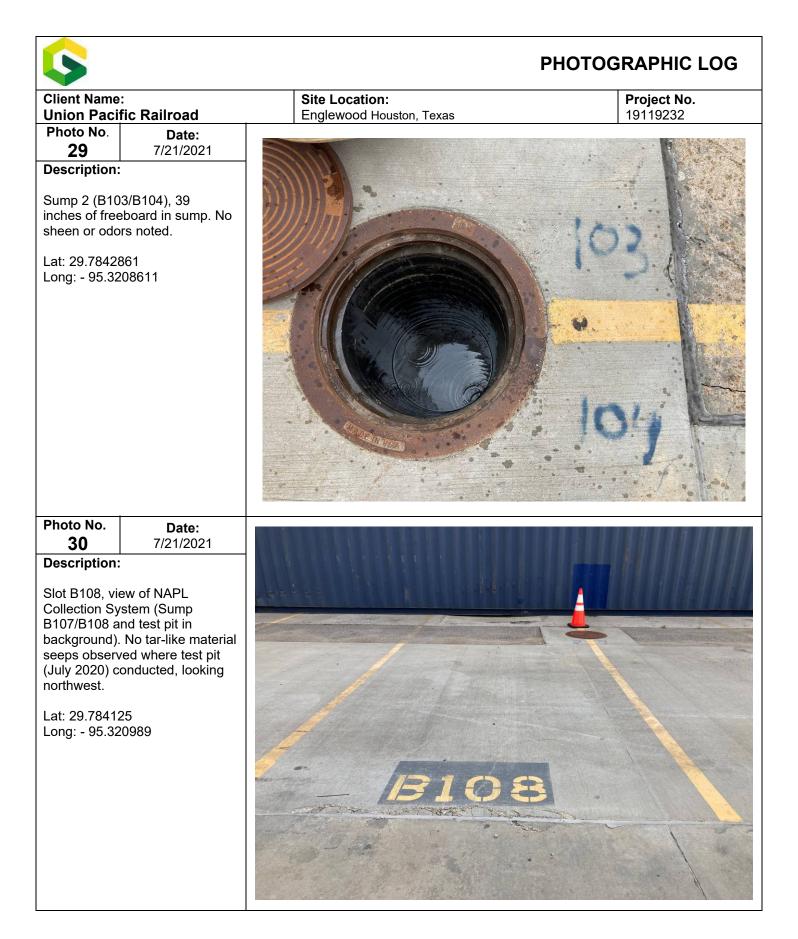
### PHOTOGRAPHIC LOG

Client Name: Union Pacific	c Railroad	Site Location: Englewood Houston, Texas	<b>Project No.</b> 19119232
Photo No.	Date:		13113232
23	7/21/2021		the second second
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	ar-like material		
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conducted (Jul	y 2020), test pit	and the second second	
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Client Name: Union Pacific Railroad		Site Location: Englewood Houston, Texas	<b>Project No.</b> 19119232
Photo No. 25	<b>Date:</b> 7/21/2021		
Description:		and the second se	
Slot B057, no tar-like material seeps observed where test pit conducted (July 2020), historical seep location covered by shipping container, test pit pavement damaged, looking northwest. Lat: 29.7847472 Long: - 95.3195417			
Photo No. 26	<b>Date:</b> 7/21/2021		
Description:			
Sump 1 (B099/B100), 0 inches of freeboard in sump, no sheen or odor noted.			
Lat: 29.7844000 Long: - 95.3205861			

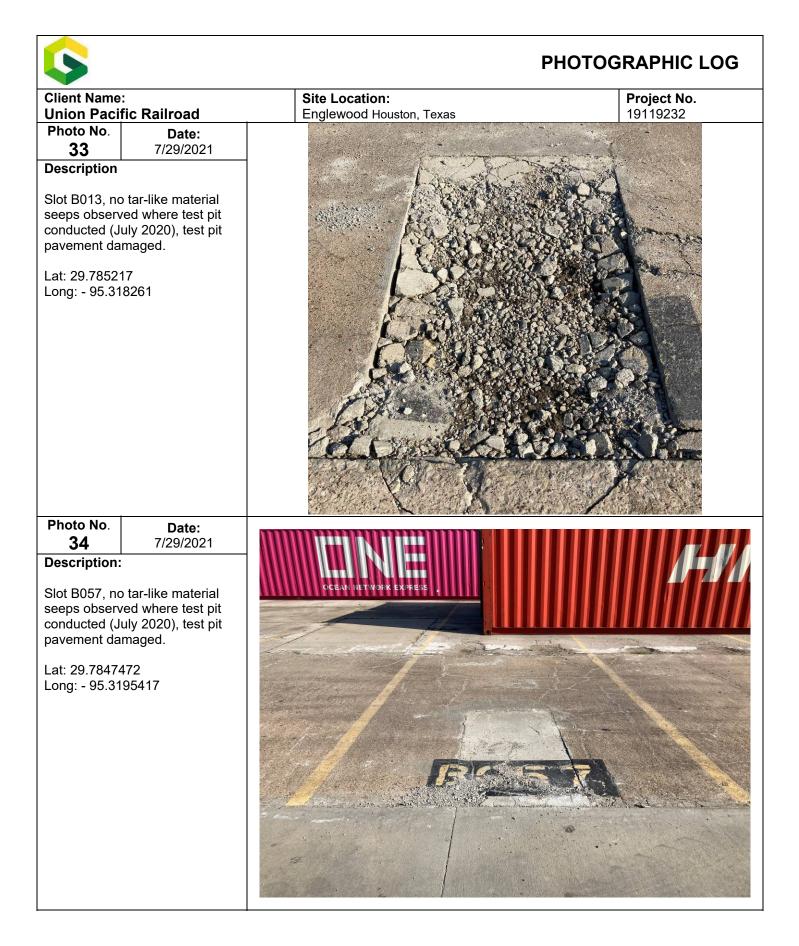






### PHOTOGRAPHIC LOG

Client Name Union Pacif		Site Location: Englewood Houston, Texas	Project No. 19119232
seeps observ	o tar-like material red where test pit uly 2020), test pit maged. 02,		
tar-like mater	ery small amount of ial seeping at , material was		





#### PHOTOGRAPHIC LOG

Client Name: Union Pacific Railroad		Site Location: Englewood Houston, Texas	<b>Project No.</b> 19119232
Photo No. 35	<b>Date:</b> 7/29/2021	and the second s	
Description:			
seeps observ	tar-like material ed where test pit Jy 2020), test pit maged.		
Lat: 29.7842528 Long: - 95.3206250			
Photo No. 36	<b>Date:</b> 7/29/2021		Strain and a state of the
Description: Slot B102, sn like material s	nall amount of tar- seeping at nt, material was		

