



October 1, 2019

Project No. 30401358

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 September 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 August (photographs of from the weekly inspections are provided in Attachment A):

- No significant amount of NAPL has been visually observed within the three NAPL collection sumps (Sump 1 (B099/B100 slots), Sump 2 (B103/B104 slots), and Sump 3 (B107/B108 slots)). A small amount of dense NAPL (DNAPL) appearing as a tar-like substance was recovered from the B107/B108 Sump on September 20, 2019. Less than 0.25 gallon was recovered. However, as discussed in the April 2019 update, water has collected within the NAPL collection sumps. The water in Sump 1 was observed as being dark brown in color (no odor or observable characteristics of petroleum hydrocarbons were observed). The water in the sumps was first pumped down in May (May 9 and May 24, 2019) where some NAPL was recovered and transferred to a frac tank during the May 24th pump down. Based on the presence of NAPL in the recovered fluids, the recovered fluids were considered recyclable and transported to the Intergulf Corp. Facility in Pasadena, TX for

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recycling. Another pump down of the sumps was conducted on July 25, 2019. The frac tank was removed from the Site following the July 2019 pump down. Copies of the bill of lading for recycling of the recovered fluids from the May and July pump down were provided in the August 2019 Monthly Update.

Another frac tank was set up near Slot B109 on August 21, 2019 to allow more frequent pump downs of the sumps. A pump down of the sumps was conducted on August 27, 2019. Approximately 6,500 gallons of fluids were pumped from the three sumps and stored in the on-site frac tank. Another pump down of the sumps was conducted on September 25, 2019. Approximately 12,000 gallons of fluid were pumped from the sumps and stored in the on-site frac tank. A sample of the frac tank water was collected on September 30, 2019 to characterize the liquids for disposal.

- A small amount of tar-like material was noted adjacent to the NAPL Collection System at Slot B103 during the August 14th inspection (Photograph 24). No other seeps were noted around the NAPL Collection Systems, including the area on the south end of stall B106 along the concrete joint with the NAPL Collection System where the tar-like material had been previously noted.
- For areas outside the NAPL Collection System, very small amounts of tar-like material were noted near or within stalls A010, A021, B013, B057, B096, B101, B102, B103, B105, and B108 where previous seeps have been observed. The small amount of observed tar-like material was scrapped up and placed on a drum on site. Approximately 1.3 gallons of the tar-like material was recovered during September.
- As discussed in the June 2019 update, areas of brown stains on the concrete pavement and evidence of seeps of a dark brown to black oily looking water were observed along cracks in the pavement and low-lying areas. The staining and seeps were observed throughout the B-Row (predominately in the B090 – B098 area) but were also observed within the A-Row and C-Row. Beginning in late May, UPRR contractor United States Environmental Services (USES) was called to the Site to pressure wash the areas and collect the fluids, which were placed in a tote on site. USES returned to the site about weekly or every other week through July 2, 2019, when most of the water seeps had dried up or were too small to be recovered with a vacuum truck. During the weekly inspections, small amounts of the black oily looking water was noted in some cracks in the pavement and concrete with a few puddles observed near Slots A091 and A101. However, the amount of water had decreased compared to areas observed in May and June. Similar to the August 2019 Monthly Update, little to no water was observed during the September weekly inspections except after rain events.

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. No NAPL has been detected in the sumps using the interface probe, with nothing other than a sheen has been measured in the three sumps except for the small amount of tar-like material recovered from Sump B107/B108 on September 20, 2019.

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 Weekly Inspection Photolog

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ATTACHMENT A

Weekly Inspection Photolog



Client Name:
Union Pacific Railroad

Site Location:
Englewood Intermodal Yard/Houston Wood Preserving
Works, 4910 Liberty Road, Houston, Texas

Project No.
19119232

Photo No.
1

Date:
09/04/19

Description:

NAPL Collection Sump at B108:

View of B107/B108
NAPL Collection Sump,
looking north.



Photo No.
2

Date:
09/04/19

Description:

Slot A022:

View of slot A022
looking southeast, very
little tar-like material
observed in asphalt
crack.





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Project No.
19119232

Photo No.
3

Date:
09/04/19

Description:

Slot B057:

View of slot B057, very little tar-like material observed in cracks in the asphalt.



Photo No.
4

Date:
09/04/19

Description:

Slots B085-B110:

View of Slots B086 through B110, looking west, some brown staining along asphalt cracks, no standing water observed.





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Project No.
19119232

Photo No.
5

Date:
09/04/19

Description:

Slot B094:
View of Slot B094,
looking north, brown
staining along cracks in
the asphalt, no standing
water observed.



Photo No.
6

Date:
09/04/19

Description:

Slot B101:
View of slot B101
looking southwest, tar-
like material observed
in cracks in the asphalt.





Client Name:
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Site Location:
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Project No.
 19119232

Photo No.
7

Date:
 09/04/19

Description:

Slot B105:

View of slot B105 looking north, tar-like material observed in asphalt crack.



Photo No.
8

Date:
 09/04/19

Description:

Slot B108:

View of slot B108, little tar-like material observed in asphalt cracks.





Client Name:
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Site Location:
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Project No.
19119232

Photo No.
9

Date:
09/04/19

Description:

B099 NAPL Collection

Sump:

View of B099 Sump note brown stained water in the sump, slight sheen noted.



Photo No.
10

Date:
09/04/19

Description:

Slot A101:

View of slot A101 (north of B101), looking north, brown staining along cracks in the asphalt, no standing water observed.





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Project No.
19119232

Photo No.
11

Date:
09/13/19

Description:

Slot A021:
View of slot A021 looking south, tar-like material observed in joint.



Photo No.
12

Date:
09/13/19

Description:

Slot B013:
View of slot B013 looking north, standing water from rainfall observed in asphalt crack, no tar-like material or sheen observed.





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Site Location:
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Project No.
 19119232

Photo No.
13

Date:
 09/13/19

Description:

Slot B096:

View of slot B096, brown staining along asphalt cracks, standing water from rainfall was observed without sheen or discoloration.



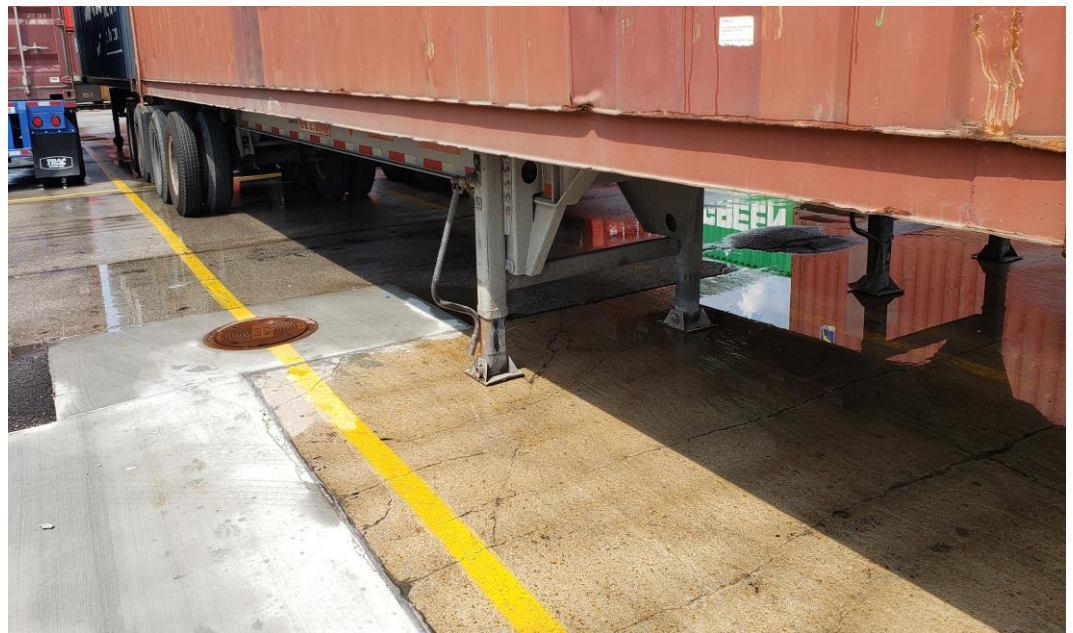
Photo No.
14

Date:
 09/13/19

Description:

NAPL Collection Sump at B103:

View of B103/B104 NAPL Collection Sump area, looking north. Standing water from rainfall observed without sheen or discoloration.





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Project No.
 19119232

Photo No.
15

Date:
 09/13/19

Description:

Slot B096:

View of slot B096, little amount of tar-like material observed in asphalt joint. Standing water from rainfall observed without sheen or discoloration.



Photo No.
16

Date:
 09/13/19

Description:

Slot B108:

View of slot B108 looking north, standing water from rainfall observed in asphalt crack, no tar-like material or sheen observed.





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Project No.
 19119232

Photo No.
17

Date:
 09/13/19

Description:

Slot B102:

View of slot B102, tar-like material observed in asphalt joint. Standing water from rainfall observed without sheen or discoloration.



Photo No.
18

Date:
 09/13/19

Description:

B103/B104 NAPL Collection Sump:

View of B103/B104 Sump, no sheen or odor noted in the water collected in the sump.





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Project No.
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Photo No.
19

Date:
 09/13/19

Description:

Slot B105:

View of slot B105, tar-like material seep from crack in asphalt. Standing water from rainfall observed without sheen or discoloration.



Photo No.
20

Date:
 09/13/19

Description:

Slot B103:

View of slot B103, tar-like material along seam near NAPL collection system excavation. Standing water from rainfall observed without sheen or discoloration.





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Project No.
19119232

Photo No.
21

Date:
09/20/19

Description:

Slot B096:

View of slot B096, tar-like material observed in asphalt joint.



Photo No.
22

Date:
09/20/19

Description:

B099/B100 NAPL Collection Sump:

View of B099/B100 Sump, dark brown water, no sheen or odor noted in the water collected in the sump.





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Project No.
 19119232

Photo No.
23

Date:
 09/20/19

Description:

Slot B097:

View of slot B097, looking north, some brown staining along asphalt cracks, standing water observed without sheen or discoloration.



Photo No.
24

Date:
 09/20/19

Description:

Slot B102:

View of slot B102, tar-like material observed in asphalt joint.





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Site Location:
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Project No.
 19119232

Photo No.
25

Date:
 09/20/19

Description:

Slot B108:

View of slot B108, very little amount of tar-like material observed in asphalt cracks.



Photo No.
26

Date:
 09/20/19

Description:

B107/B108 NAPL Collection Sump:

View of B107/B108 NAPL Collection Sump, note tar-like material removed from the sump, no odor or sheen noted in the water collected in the sump.





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Project No.
19119232

Photo No.
27

Date:
09/25/19

Description:

Slot B096:

View of slot B096, tar-like material observed in asphalt joint.



Photo No.
28

Date:
09/25/19

Description:

Slot B105:

View of slot B105, tar-like material observed in asphalt cracks.





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Site Location:
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Project No.
 19119232

Photo No.
29

Date:
 09/25/19

Description:

Slot B101:

View of slot B101, very little tar-like material in asphalt cracks.



Photo No.
30

Date:
 09/25/19

Description:

B103/B104 NAPL Collection Sump:

View of the B103/B104 NAPL Collection Sump during a pumpdown event.





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Project No.
 19119232

Photo No.
31

Date:
 09/25/19

Description:

**B099/B100 NAPL
 Collection Sump:**

View of the B099/B100
 NAPL Collection Sump
 water recharge the day
 after a pumpdown
 event, dark brown
 water with sheen and
 no odor noted. No
 NAPL noted in sump.



Photo No.
32

Date:
 08/28/19

Description:

**B103/B104 NAPL
 Collection Sump:**

View of the B103/B104
 NAPL Collection Sump
 prior to pumpdown, no
 odor or sheen noted on
 water collected in the
 sump

