



March 17, 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), on behalf of Union Pacific Railroad Company (UPRR), is pleased to provide this monthly status update for February 2021 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.

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 February 2021 (photographs from the weekly inspections are provided in Attachment A):

- No NAPL was visually observed or recovered from Sump 1 (B099/B100 slots), Sump 2 (B103/B104 slots), or Sump 3 (B107/B108 slots) during the month of February. Water continues to accumulate in the NAPL collection sumps. The water appears to be related to rainfall where some of the water enters from the surface through the covers for the sumps. As indicated in the January 2021 monthly update, UPRR proposed to cease the pump down events as there has been no increase in the amount of DNAPL recovered in the sumps since the pump downs were initiated in 2019.
- After the final pump down in January 2020, the water level in Sump 1 returned to the surface by the January 22nd weekly inspection and has remained near the top of the sump through February 24, 2021. Water levels in Sumps 2 and 3 had recovered to the surface by February 17, 2021 following precipitation events and then receded to 10 and 9.5 inches from the top of the sumps, respectively, by

February 24, 2021. The water in Sumps 1, 2, and 3 was observed as being brown in color. A sheen was reported on the water in Sump 1 during the weekly inspection on February 4th. No odor was reported during the inspections in the month of February. Prior to the frac tank removal on January 29, 2021, the stored water was pumped out by UPRR Contractor National Response Corporation (NRC) on January 14, 2021 and transported for disposal at Liquid Environmental Solutions using the waste profile created in February 2020. The final waste manifests for the disposal of the fluid are provided in Attachment B.

- No tar-like NAPL seeps were observed within the NAPL Collection System area during the month of February. For areas outside the NAPL Collection System, a very small amount of tar-like material was observed on the concrete surface in stall B057 during the February 10, 2021 inspection and stalls A022, B057, and B101 during the February 24, 2021 inspection. The tar-like material observed in stall B057 was not at the location of the July 2020 test pit. The overall amount of tar-like material removed from the concrete surface during February 2021 was less than 0.1 gallons.
- No widespread seep water was observed in the paved areas during the February 2021 inspections. UPRR will continue to have USES pressure wash the areas where the brown staining and seeps are observed as needed.
- During the week of July 13, 2020, Golder, on behalf of UPRR, coordinated with USES to excavate seven test pits in areas where historical NAPL seeps (Slots A010, A021, A098, B013, B057, B096, and B108) had been observed in the Englewood Intermodal (IM) Yard. During the February 2021 weekly inspections, no NAPL seeps have been observed at the test pit locations. The seep observed in stall B057 during the February 10th and February 24th inspections is located at an asphalt crack near the western edge of the stall, and not at the test pit location. The test pit locations will continue to be inspected on a weekly basis, and Golder, on behalf of UPRR, will prepare the Englewood IM Yard Test Pit Evaluation Report of the test pit findings including weekly inspections for submittal to the TCEQ following the pilot test period as specified in the Initial Draft Permit.
- As indicated in the December 2020 monthly status update, a camera survey was performed on the storm sewer pipes in the Intermodal Yard as part of the Englewood IM Yard Test Pit Evaluation on December 8, 2020. The camera was unable to advance the full length of several drainpipes due to build-up of sediments and deposits (e.g., mud) within the drainpipes. Golder, on behalf of UPRR, coordinated with USES to remove the obstructions within sections of the storm system on December 21 and 22, 2020 using a power wash and vacuum system to contain and recover the water. Water and material from the obstruction removal effort were placed in two vacuum boxes and stored onsite in stalls C129 and C131 (Photo No. 9). The waste generated during the December obstruction removal effort was characterized, profiled, and transported and disposed of on February 12, 2021. Another camera survey was performed on January 8, 2021. The camera was able to advance the full length and/or further than previously in some drainpipes. However, some of the drainpipes still had mud buildup that prevented the camera from advancing the full length of the pipes. Another obstruction removal and camera survey event was conducted on February 24 through 26, 2021. Details on the camera and obstruction removal activities will be provided in the Englewood IM Yard Test Pit Evaluation Report indicated above.
- During the last week of January, a frac tank was staged at parking slot B109 (Photo 10) and a vacuum box was staged near stalls C129 and C131 (Photo 9) containing waste from UPRR activities not related to the Site. These wastes will be disposed of in accordance with state and federal regulations.

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 February 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 Table 1 – NAPL Measurements – NAPL Collection System Sumps
Weekly Inspection Photolog
Waste Disposal Manifests

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

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
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	
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

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: 2/4/2021
Description: Slot A010, no tar-like material seeps observed where test pit conducted (July 2020), looking southwest. Lat: 29.7855833, Long: -95.318375	



Photo No. 2	Date: 2/4/2021
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Description: Slot A021, no tar-like material seeps observed where test pit conducted (July 2020), looking south. Lat: 29.785392, Long: -95.318655	
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PHOTOGRAPHIC LOG

Client Name: Union Pacific Railroad		Site Location: Englewood Houston, Texas	Project No.: 19119232
Photo No.: 3	Date: 2/4/2021		
Description: Slot B057, no tar-like material seeps observed where test pit conducted (July 2020), looking northeast. Lat: 29.7847472 Long: - 95.3195417			
Photo No.: 4	Date: 2/4/2021		
Description: Sump 1 (B099/B100), 4 inches of freeboard in sump. Slight sheen noted on water in sump. No odor or tar-like material observed. Lat: 29.7844000 Long: - 95.3205861			



PHOTOGRAPHIC LOG

Client Name: Union Pacific Railroad	Site Location: Englewood Houston, Texas	Project No. 19119232
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Photo No. 5	Date: 2/4/2021
Description: Slot B102, no tar-like material seeps observed. Lat: 29.7842203 Long: - 95.320827	



Photo No. 6	Date: 2/4/2021
Description: Slot B105, no tar-like material seeps observed, looking northeast. Lat: 29.7841472 Long: - 95.3208777	





PHOTOGRAPHIC LOG

Client Name: Union Pacific Railroad	Site Location: Englewood Houston, Texas	Project No.: 19119232
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Photo No. 7	Date: 2/4/2021
Description: Slot B107, view of NAPL Collection System (Sump B107/B108 and test pit in background). No tar-like material seeps observed, looking northeast. Lat: 29.784139 Long: -95.320964	



Photo No. 8	Date: 2/4/2021
Description: Slots B108-B097, NAPL collection system visible in background, looking northeast. Lat: 29.784116 Long: -95.321022	





PHOTOGRAPHIC LOG

Client Name: Union Pacific Railroad	Site Location: Englewood Houston, Texas	Project No. 19119232
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Photo No. 9	Date: 2/4/2021
Description: Slots C127-C131, the two red vacuum boxes containing water from storm sewer obstruction removal activities, looking southwest. The green vacuum box contains waste not related to site activities (other UPRR activities). Lat: 29.783922 Long: -95.321122	



Photo No. 10	Date: 2/4/2021
Description: Slot B108, view of NAPL Collection System (Sump B107/B108 and test pit in background). No tar-like material seeps observed where test pit (July 2020) conducted, looking north. Frac tank staged in slot B109 for other UPRR activities and not related to Site activities. Lat: 29.784125 Long: - 95.320989	





Client Name:
Union Pacific Railroad

Site Location:
Englewood Houston, Texas

Project No.
19119232

Photo No.
11

Date:
2/10/2021

Description:

Slot B013, no tar-like material seeps observed where test pit (July 2020) conducted, pavement wet from rain, looking north.

Lat: 29.785217
Long: - 95.318261



Photo No.
12

Date:
2/10/2021

Description:

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

Lat: 29.7847472
Long: - 95.3195417





PHOTOGRAPHIC LOG

Client Name: Union Pacific Railroad	Site Location: Englewood Houston, Texas	Project No. 19119232
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Photo No. 13	Date: 2/10/2021
Description: Slot B096, no tar-like material seeps observed where test pit conducted (July 2020), pavement wet from rain, looking north. Lat: 29.7842528 Long: - 95.3206250	



Photo No. 14	Date: 2/10/2021
Description: Slot B101, no tar-like material seeps observed, pavement wet from rain, looking north. Lat: 29.784275 Long: - 95.320813	





PHOTOGRAPHIC LOG

Client Name:
Union Pacific Railroad

Site Location:
Englewood Houston, Texas

Project No.
19119232

Photo No.
15

Date:
2/10/2021

Description:

Slot B103, view of NAPL Collection System (Sump 103/104 on left). No tar-like material seeps observed, pavement wet from rain, looking north.

Lat: 29.7841639
Long: - 95.3208694



Photo No.
16

Date:
2/10/2021

Description:

Sump 2 (B103/B104), 27 inches of freeboard in sump, no sheen or odors noted, pavement wet from rain.

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. 17	Date: 2/10/2021
Description: Slot B108, view of NAPL Collection System (Sump B107/B108 and test pit in background). No tar-like material seeps observed where test pit conducted (July 2020), pavement wet from rain, looking north. Lat: 29.784125 Long: - 95.320989	



Photo No. 18	Date: 2/10/2021
Description: Frac tank staged in slot B109 for other UPRR activities and not related to Site activities. Pavement wet from rain. Frac tank that was staged in slot B110 for storage of pumped down water from NAPL Collection Sumps was taken offsite on 1/29/2021. Lat: 29.7841028 Long: - 95.3209833	





Client Name:
Union Pacific Railroad

Site Location:
Englewood Houston, Texas

Project No.
19119232

Photo No.
19

Date:
2/17/2021

Description:

Slot A010, no tar-like material seeps observed where test pit conducted (July 2020), pavement wet from rain.

Lat: 29.7855833,
Long: -95.318375



Photo No.
20

Date:
2/17/2021

Description:

Slot A021, no tar-like material seeps observed where test pit conducted (July 2020), pavement wet from rain.

Lat: 29.785392,
Long: -95.318655





Client Name:
Union Pacific Railroad

Site Location:
Englewood Houston, Texas

Project No.
19119232

Photo No.
21

Date:
2/17/2021

Description:

Slot B013, no tar-like material seeps observed where test pit conducted (July 2020), pavement wet from rain.

Lat: 29.785217
Long: - 95.318261



Photo No.
22

Date:
2/17/2021

Description:

Slot B057, no tar-like material seeps observed where test pit conducted (July 2020), pavement wet from rain.

Lat: 29.7847472
Long: - 95.3195417





PHOTOGRAPHIC LOG

Client Name: Union Pacific Railroad	Site Location: Englewood Houston, Texas	Project No. 19119232
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Photo No. 23	Date: 2/17/2021
Description: Slot B096, no tar-like material seeps observed where test pit conducted (July 2020), pavement wet from rain. Lat: 29.7842528 Long: - 95.3206250	





Photo No. 24	Date: 2/17/2021
Description: Slot B099, view of NAPL Collection System (Sump 099/100 in background). No tar-like material seeps observed, standing water on pavement from rain (note ponding over cover for sump), 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.: 25	Date: 2/17/2021		
Description: Sump 1 (B099/B100), 0 inches of freeboard in sump, no sheen or odor noted. Pavement wet from rain. Lat: 29.7844000 Long: - 95.3205861			
Photo No.: 26	Date: 2/17/2021		
Description: Sump 3 (B107/B108), 0 inches of freeboard in sump. No sheen, odor or tar-like material observed. Pavement wet from rain. 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. 27	Date: 2/24/2021
Description Slot A022, very small amount of tar-like material seeping at asphalt crack, material was removed. Lat: 29.785392, Long: -95.318655	



Photo No. 28	Date: 2/24/2021
Description: Slot B057, very small amount of tar-like material seeping at asphalt crack (not near where July 2020 test pit conducted), 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.
29

Date:
2/24/2021

Description:

Slot B098, no tar-like material seeps observed, residual brown staining along asphalt cracks, looking north.

Lat: 29.7842587
Long: - 95.3206699



Photo No.
30

Date:
2/24/2021

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.
31

Date:
2/24/2021

Description:

Slot B102, no tar-like material seeps observed, looking north.

Lat: 29.7842203
Long: - 95.320827



Photo No.
32

Date:
2/24/2021

Description:

Sump 2 (B103/B104), 10 inches of freeboard in sump. No sheen or odor observed.

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. 33	Date: 2/24/2021
Description: Slot B105, no tar-like material seeps observed, looking northeast. Lat: 29.7841472 Long: - 95.3208777	



Photo No. 34	Date: 2/24/2021
Description: Slot B108, view of NAPL Collection System (Sump B107/B108 and test pit in background). No tar-like material seeps observed where test pit (July 2020) conducted, looking northeast. Lat: 29.784125 Long: - 95.320989	



ATTACHMENT B

Waste Disposal Manifests

Please print or type.

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number	2. Page 1 of 1	3. Emergency Response Phone 888-877-7267	4. Manifest Tracking Number 022128306 JJK			
5. Generator's Name and Mailing Address Union Pacific Co 6520 Cap Dr. Wichita, KS 67201 Generator's Phone: 316-267-4104				Generator's Site Address (if different than mailing address) Union Pacific Co 4910 Lincoln Rd Wichita, KS 67201				
6. Transporter 1 Company Name NICE Environmental Services Inc.				U.S. EPA ID Number 12098161320				
7. Transporter 2 Company Name				U.S. EPA ID Number				
8. Designated Facility Name and Site Address Liquid Environmental 250 Columbia Dr. Wichita, KS 67201 Facility's Phone: 316-671-4800				U.S. EPA ID Number TKLW57000				
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))		10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
	1.	Other Waste with hydrocarbons		No.	Type	4,500 G		
	2.							
	3.							
	4.							
14. Special Handling Instructions and Additional Information Profile # 0196036								
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.								
Generator's/Offoror's Printed/Typed Name John Lane				Signature 		Month Day Year 1 14 21		
INT'L	16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____							
	17. Transporter Acknowledgment of Receipt of Materials							
TRANSPORTER	Transporter 1 Printed/Typed Name Tina L. Davis				Signature 		Month Day Year 1 14 21	
	Transporter 2 Printed/Typed Name				Signature		Month Day Year	
DESIGNATED FACILITY	18. Discrepancy							
	18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection							
	Manifest Reference Number:							
	18b. Alternate Facility (or Generator)				U.S. EPA ID Number			
	Facility's Phone:							
18c. Signature of Alternate Facility (or Generator)						Month Day Year		
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)								
1.		2.		3.		4.		
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a								
Printed/Typed Name Muel				Signature 		Month Day Year 1 14 21		

HM-5954

Please print or type.

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number	2. Page 1 of 1	3. Emergency Response Phone 888-877-7267	4. Manifest Tracking Number 022128304 JJK		
5. Generator's Name and Mailing Address Union Pacific, c/o BAO 650 Corporate Dr. Indianapolis, IN 46278 Generator's Phone: 414-207-4104				Generator's Site Address (if different than mailing address) Union Pacific Railroad 4110 Liberty Rd Houston, TN 37026			
6. Transporter 1 Company Name NKE Environmental Services Inc.					U.S. EPA ID Number TND9810 11320		
7. Transporter 2 Company Name					U.S. EPA ID Number		
8. Designated Facility Name and Site Address United Environmental 350 Gannon Dr. Houston, TX 77057 Facility's Phone: 281-671-4500					U.S. EPA ID Number TKLW05700		
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit WL/Vol.	13. Waste Codes	
		No.	Type				
1.	Shrapnel Water	1	TP	4,500	G		
2.							
3.							
4.							
14. Special Handling Instructions and Additional Information WR # 003137 Profile # 0427044							
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.							
Generator's/Offoror's Printed/Typed Name John Ray				Signature 		Month Day Year 1 14 21	
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____							
17. Transporter Acknowledgment of Receipt of Materials							
Transporter 1 Printed/Typed Name Timothy Garcia				Signature 		Month Day Year 1 14 21	
Transporter 2 Printed/Typed Name				Signature		Month Day Year	
18. Discrepancy							
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection							
18b. Alternate Facility (or Generator) Manifest Reference Number: _____ U.S. EPA ID Number _____							
18c. Signature of Alternate Facility (or Generator) Month Day Year							
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)							
1. H135		2.		3.		4.	
20. Designated Facility Owner or Operator Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a							
Printed/Typed Name A. [Signature]				Signature 		Month Day Year 1 14 21	

GENERATOR

TRANSPORTER INT'L

DESIGNATED FACILITY

Handwritten: #10-5954