

Part 3: Reduction Achievement for the Report Year

Waste minimization typically applies to operating facilities. The only wastes generated at this Union Pacific Railroad Houston Wood Preserving Works Facility are environmental media as a result of the specific investigation or post-closure care activities (investigative-derived wastes (IDW)) directed by the Texas Commission on Environmental Quality (TCEQ) under the Permit and Compliance Plan. These IDW are related to the scope of the RCRA Facility Investigation (RFI) activities, as approved and required by the TCEQ under the Permit and Compliance Plan.

However, UPRR has implemented procedures at the Facility to reduce the amount of IDW generated during these activities. Investigative techniques such as low-flow ground water sampling and direct-push or sonic drilling technologies are utilized when possible during installation and sampling of soil borings, monitor wells and piezometers in order to reduce the volume of soil cuttings and purge water generated for off-site disposal. Since the waste is generated on an intermittent basis depending on required actions dictated by the RFI activities and the TCEQ, specific measureable reduction goals are difficult to quantify and year-to-year reductions are not applicable given the uncertainty in IDW generated one year compared to another.

As previously stated, the only hazardous waste generated at the Facility is from IDW associated with periodic groundwater monitoring, site investigations as required to complete the RFIs, and interim remedial activities. There are no wastes generated as part of any industrial processes at the Facility. Based on a review of the Notice of Registration (NOR) for the Facility and waste generation activities for the facility, the following hazardous waste codes and quantities were generated as part of the RFI/Affected Property Assessment at the Facility during 2015 compared to 2014:

<i>TCEQ Waste Code</i>	<i>NOR Waste Description</i>	<i>Annual Quantity Generated in 2014 (pounds)</i>	<i>Annual Quantity Generated in 2015 (pounds)</i>
0909101H	Aqueous waste with low solvents, includes groundwater generated from drilling activities for investigative purposes.	0	250
0914101H	Aqueous waste with low solvents, includes groundwater generated from purging of various monitor wells for investigative purposes. Produced on an intermittent basis.	975	330
0915301H	Soil contaminated with organics, includes soil derived from the boring of monitoring wells for investigative purposes, produced on an intermittent basis	0	900

<i>TCEQ Waste Code</i>	<i>NOR Waste Description</i>	<i>Annual Quantity Generated in 2014 (pounds)</i>	<i>Annual Quantity Generated in 2015 (pounds)</i>
0917406H	Empty fiber or plastic containers, includes plastic and used Personal Protective Equipment generated as a result of monitor well and/or soil sampling.	0	0
0918219H	Recovered creosote non-aqueous phase liquids from groundwater monitoring/recovery wells, may be mixed/emulsion with groundwater, generated as part of corrective action work performed at the site. Generated on intermittent basis.	750	550

The amount of waste generated in 2014 and 2015 was approximately 1,725 pounds and 2,030 pounds, respectively.

The environmental media wastes listed above are generated on an intermittent basis. Currently, the only waste generated on a regular basis is “Aqueous waste with low solvents” (TCEQ Waste Code 0914101H) associated with groundwater monitoring activities at the RCRA Unit No. 1 (SWMU No. 1) and site-wide groundwater monitoring activities. UPRR is currently conducting a two-year remediation pilot study for recovery of creosote non-aqueous phase liquids (NAPL) (TCEQ Waste Code 0918219H) where creosote NAPL is pumped from groundwater wells on a monthly basis. Depending on the results of the pilot study, generation of this waste may extend beyond the pilot study period.