Mcpherson, Benjamin J (DEC)

From: john.black@inventumeng.com
Sent: Thursday, May 12, 2022 9:14 AM
To: Mcpherson, Benjamin J (DEC)
Cc: 'jyensan'; 'Rich Galloway'; 'Dan Flanigan'; bmikolin@gesonline.com; 'Peter Zaffram'; 'Glaza, Edward'; Tom.Abrams@parsons.com; Martin, Angela L (HEALTH)
Subject: RE: Site 108 Tar Pipe Leak Memo.pdf

Categories: Review

Ben,

We have a call in to RSI to see if this can go under the previous pipe residual profile.

John

From: Mcpherson, Benjamin J (DEC) <benjamin.mcpherson@dec.ny.gov>
Sent: Wednesday, May 11, 2022 11:40 AM
To: john.black@inventumeng.com
Cc: 'jyensan' <jyensan@oscinc.com>; Rich Galloway <Rich.Galloway@Honeywell.com>; 'Dan Flanigan' <dflanigan@oscinc.com>; bmikolin@gesonline.com; Peter Zaffram <peter.zaffram@InventumEng.com>; Glaza, Edward <Edward.Glaza@parsons.com>; Tom.Abrams@parsons.com; Martin, Angela L (HEALTH) <Angela.Martin@health.ny.gov>
Subject: RE: Site 108 Tar Pipe Leak Memo.pdf

John,

Thank you for the summary memo. I do have one question, why has a waste characterization sample not been collected? Based on previous tar results at Site 108 I suspect that it may be characteristically hazardous for benzene, and delaying sampling could affect those results.

Other than that I do not have any issues with the response actions taken at the site.

Please let me know about the waste characterization sampling.

Thanks you,
Ben

Benjamin McPherson, P.E.
(he/him/his)
Professional Engineer 1 (Environmental), Division of Environmental Remediation

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From: john.black@inventumeng.com <john.black@inventumeng.com>
Sent: Wednesday, May 11, 2022 9:05 AM
To: Mcpherson, Benjamin J (DEC) <benjamin.mcpherson@dec.ny.gov>; Martin, Angela L (HEALTH) <Angela.Martin@health.ny.gov>
Cc: 'jyensan' <jyensan@oscinc.com>; Rich Galloway <Rich.Galloway@Honeywell.com>; 'Dan Flanigan' <dflanigan@oscinc.com>; bmikolin@gesonline.com; Peter Zaffram <peter.zaffram@InventumEng.com>; Glaza, Edward <Edward.Glaza@parsons.com>; Tom.Abrams@parsons.com
Subject: Site 108 Tar Pipe Leak Memo.pdf

Ben and Angie,

A summary memo of the work done at the Site 108 pumphouse in response to the pipe leak is attached. Please let us know if you need any additional information.

John

John P. Black, P.E.
Inventum Engineering, P.C.
Note - New Home Office Address:
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Suite C
Herndon, Virginia 20170
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INVENTUM ENGINEERING

May 9, 2022

To: Benjamin McPherson, Angela Martin

From: John Black

CC: John Yensan, Rich Galloway

Re: Pumphouse Pipe Leak
3800 River Road
Town of Tonawanda, New York.

In the late afternoon of May 5, 2022 a tar leak was observed during routine inspection in the former pump house on 3800 River Road (a/k/a Site 108, Listed as #915055). The pump house was a former Tonawanda Coke Corporation structure used to pump tar to and from three tanks that had been previously removed from the property. On May 6, 2022, Inventum Engineering, PC (Inventum) and Ontario Specialty Contracting (OSC) mobilized to conduct a small scale cleanup operation. Inventum, along with OSC established an action plan to address the source of the leak and contain the tar that had seeped from the pump house structure (See attached photographs).

Pre-inspection

During initial inspection of the pump house prior to any cleanup efforts, a tar seep was observed coming from the north side of the structure. Tar could be seen on the concrete floor of the structure and outside the doorway. The materials on the surface suggested that the tar had flowed a short distance (less than 4 feet) in a northwest direction. Inside the pump house, the tar covered the floor approximately 17 feet wide, by 13 feet long and 0.25 inches deep. Outside the northwest corner of the structure, the tar had apparently migrated from open doorway to a low spot approximately 4 feet wide by 6 feet long and 0.25 inches deep. On further inspection, an ongoing tar leak was observed coming from a small drip leg section of piping on the south side of the pump house. The structure has several areas of staining inside the building. A one-inch diameter pipe located along the south wall, behind a large piece of pump equipment was identified as the source of the tar. The pipe contains a gate valve about 6 inches from the end of the pipe. The gate valve was not fully closed. The valve was tightened and secured. The pipe was observed over several days and the seep has stopped. The pipe will be inspected daily to ensure the valve is secure and no further leakage occurs.

Removal

OSC utilized a mini excavator with a grading bucket to allow access through the doorway to remove as much tar as possible from the concrete slab. OSC scraped a section of floor inside the building approximately 6 feet wide by 6 feet long. The tar was removed from the pump house, mixed with coke breeze to stabilize the viscous liquid, and then loaded into a cubic yard box. Surrounding breeze was scraped and mixed with the tar outside the northwest corner of the pump house and loaded into the boxes. Approximately 3 inches of breeze was scraped away from the northwest corner of the pump house. Based on visual observations, the tar did not penetrate below the ground surface. Approximately one

shovel full of tar was removed on the south side of the pumphouse, beneath the small drip leg pipe. Mixing of the breeze and surficial tar took place to allow the tar to be loaded into cubic yard boxes. Two (2) cubic yard boxes were used to containerize the breeze and stabilized tar from inside and outside the pump house.

Post-Inspection

Upon completion, Peter Zaffram of Inventum Engineering, and Brandon Mikolin of GES, conducted a post cleanup inspection of the pump house and surrounding pipe rack. All obvious signs of mobile tar outside the pumphouse had been identified and removed. Some minor staining is still present on the concrete step. Inside the pump house all tar was unable to be removed, it will be monitored to ensure it does not seep from the structure and will be addressed during future Site 108 IRM work. The drip leg on the south side of the pumphouse was wrapped in 6-mil poly sheeting and secured with heavy duty tape to prevent any future leakage.

The entire pipe rack and conveyor to the north were inspected for any additional tar leaks. One minor leak was observed on the south side of the conveyor approximately 250 feet east (toward River Road) of the main conveyor structure. The leak was wrapped in 6 mil polyethylene sheeting and both ends of the sheeting were secured with heavy duty tape. The leak was minor, approximately one shovel full of breeze and tar was removed from the area. No evidence of tar seepage below the ground surface was observed.

Backfill

Upon completion of the inspection the area for visible tar, the area was backfilled. Crushed stone from the surface of the surrounding parking area was used to fill the 3-inch excavated area on the northwest corner of the pump house. A clay berm was installed across the doorway of the pumphouse to prevent any additional migration of tar outside the pump house.

The area will be inspected daily to ensure tar is not seeping from the structure. Both cubic yard boxes were placed in a small out-building to the west of the pump house. The small shed structure will keep the boxes protected from weather and deterioration. The boxes were labeled Non-hazardous Pending Analysis and dated. Disposal sampling and options are being discussed and will be addressed as the information becomes available.

Client Name: RITC	**Location of Cleanup: Site 108 Pump house**	**Project:** Tonawanda
Photo No. 1 **Direction Photo Taken: South**		
Description: Former pumphouse on site 108. Tar was observed inside and outside the doorway of the structure. Note the tar in the building and the base of the step.		
Client Name: RITC	**Location of Cleanup: Site 108 Pump house**	**Project:** Tonawanda
Photo No. 2 **Direction Photo Taken: Southwest**		
Description: Tar on floor and outside pumphouse on Site 108.		

Client Name: RITC	**Location of Cleanup: Site 108 Pump house**	**Project:** Tonawanda
Photo No. 3 **Direction Photo Taken: West**		
Description: Inside pumphouse looking west. Note, tar is limited to the west side of the Pumphouse.		
Client Name: RITC	**Location of Cleanup: Site 108 Pump house**	**Project:** Tonawanda
Photo No. 4 **Direction Photo Taken: East**		
Description: Source of tar leak. An open ended one inch pipe with a gate valve was the identified as the source of the leak. The valve was slightly open, when tightened, the leak stopped.		

Client Name: RITC	**Location of Cleanup: Site 108 Pump house**	**Project:** Tonawanda
Photo No. 5 **Direction Photo Taken: Southeast** **Description: OSC begins scraping tar from inside the pump house.**		
Client Name: RITC	**Location of Cleanup: Site 108 Pump house**	**Project:** Tonawanda
Photo No. 6 **Direction Photo Taken: East** **Description: OSC mixing tar with breeze to load into cubic yard boxes.**		

Client Name: RITC	Location of Cleanup: Site 108 Pump house	Project: Tonawanda
Photo No. 7 **Direction Photo Taken: Southeast**		
Description: OSC loading stabilized tar into cubic yard boxes.		

Client Name: RITC	Location of Cleanup: Site 108 Pump house	Project: Tonawanda
Photo No. 8 **Direction Photo Taken: East**		
Description: Tar has been removed, area was backfilled with clean stone from the parking lot.		

Client Name: RITC	**Location of Cleanup: Site 108 Pump house**	**Project:** Tonawanda
Photo No. 9 **Direction Photo Taken: West** **Description: Backfilling area with clean Stone.**		
Client Name: RITC	**Location of Cleanup: Site 108 Pump house**	**Project:** Tonawanda
Photo No. 10 **Direction Photo Taken: South-southwest** **Description: Completion with clean Stone and berm across doorway.**