Detterman, Mark, Env. Health

From: Weston, Robert, Env. Health
Sent: Monday, March 12, 2012 3:17 PM
To: 'Sharma, Pawan K.'
Cc: Detterman, Mark, Env. Health
Subject: RE: SW 1450 Sherwin: former UST closure - sample results

Pawan,
It is our understanding that the Sherwin Williams site remediation is currently overseen by DTSC. As such we will defer to DTSC for guidance on clean up of materials formerly stored in the UST.

Please let us know if you have questions.

Robert Weston
Sr. Hazardous Materials Specialist
ICC 5238670-UI
Alameda County Department of Environmental Health
510 567-6781

From: Sharma, Pawan K. [mailto:SharmaPK@cdmsmith.com]
Sent: Monday, March 12, 2012 1:14 PM
To: 'Juanita Bacey'; Weston, Robert, Env. Health
Cc: 'Larry R. Mencin'; 'Jeff Rankin'
Subject: SW 1450 Sherwin: former UST closure - sample results

Nina, Robert,

The attached pdf presents a DRAFT summary of the soil and groundwater results from the former UST closure (abandonment in place). The attached includes two pages.

Page one presents the arsenic results for soil samples from this subject excavation sidewalls, along with other site sidewall samples from “hot spot” excavations, and the calculated 95UCL of the dataset. The arsenic results for soil from the former UST excavation appear consistent with the previous hot spot sidewall sample results; with 95UCL being less than the numerical cleanup objective for arsenic in vadose zone soil (24 mg/kg).

Page two presents the other soil results (lead and organics) and the all groundwater results; highlighting concentrations above associated cleanup goals.

We look forward to discussing these findings with you. Please let us know when you would be available this week.

Thank you.
Pawan

From: Sharma, Pawan K.
Sent: Friday, February 24, 2012 5:50 PM
To: Weston, Robert, Env. Health; Juanita Bacey

Cc: Larry R. Mencin; Jeff Rankin
Subject: RE: SW 1450 Sherwin: former UST closure plan

Nina, Robert –

Per discussion with Nina this morning, we took 4 additional sidewall soil samples this morning. TPH results from these four samples will be combined with those from the first 4 samples. The 95UCLs of the dataset (one each for gasoline, diesel, and motor oil) will be evaluated against the cleanup goals. Once all the results from the samples, including groundwater, are in and validated, we will provide the results ahead of the closure report.

Around noon today we started filling the former UST with neat cement. Robert was onsite to observe this. We pumped approximately 12 cubic yards of neat cement into the tank, which is consistent with the dimensions of the tank. During filling of the tank, we did not observe any lighter material coming to the surface, indicating the crew did a good job cleaning the tank.

After filling the tank, we continued with backfilling the excavation around the tank, leaving the top of the tank exposed at the end. We will observe for any lowering of the neat cement in Monday morning. At the end of today, the level had come down less than one inch.

Thank you.
Pawan

From: Sharma, Pawan K.
Sent: Thursday, February 23, 2012 5:04 PM
To: 'Weston, Robert, Env. Health'; Juanita Bacey
Cc: Larry R. Mencin; Jeff Rankin
Subject: RE: SW 1450 Sherwin: former UST closure plan

Thank you for the quick reply, Robert. After further cleaning, the grey material along the length of the tank bottom is observed to be solid, and also appears to be concrete. This was visible in the previous photograph I sent. You observations on the lighter material coming to the surface is consistent with Jeff's. We will be prepared to remove and contain such material.

We have confirmed delivery with the cement vendor and will start filling the tank around noon tomorrow. We look forward to seeing you at the site to observe its transformation from tank to a metal lined concrete block.

Nina, I hope you can be here to observe this also.

Thank you.
Pawan

From: Weston, Robert, Env. Health [mailto:robert.weston@acgov.org]
Sent: Thursday, February 23, 2012 4:15 PM
To: Sharma, Pawan K.; Juanita Bacey
Cc: Larry R. Mencin; Jeff Rankin
Subject: RE: SW 1450 Sherwin: former UST closure plan

Pawan,
As you stated the heel is non-earthen material and should at this point be considered part of the tank construction. You should endeavor to remove all other materials as possible. In my experience the lighter than concrete materials will come to the surface as the concrete is introduced. It would be useful to have a vac truck or other equipment available during filling to remove those materials so to avoid having spillage as we fill to tank top with concrete.

Please let me know the time to be on-site. Give me 30 minutes travel time from Alameda.

Robert Weston
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From: Sharma, Pawan K. [mailto:SharmaPK@cdmsmith.com]
Sent: Thursday, February 23, 2012 3:37 PM
To: Weston, Robert, Env. Health; Juanita Bacey
Cc: Larry R. Mencin; Jeff Rankin
Subject: RE: SW 1450 Sherwin: former UST closure plan

Robert, Nina –

We collected our groundwater sample this morning, while Robert was onsite. The sample has been submitted to the lab for the analyses we have previously agreed to with Nina and presented in the permit application / plan.

We started cleaning the tank interior this morning and have so far used about 3,000 gallons of water. We have removed the vast majority of the contents of the tank, but the water being pumped out continues to be light grey in color. Some larger rocks / hard solids remain in the tank and may be too difficult to extract. At the north end of the tank (under transformer), we have found what appears to be a concrete heel. The heel is at an approximate 45 degree angle to the tank end wall. Based on its orientation, it could have been part of the original tank construction. It would be difficult to form concrete in this manner with the tank's current location. Please see attached picture of tank interior and heel.

Nonetheless, it is not feasible to get this heel out. Nor do we anticipate it to be necessary to close the tank in place. Please let us know your thoughts on this. We will be prepared to start filling the tank with neat cement tomorrow around noon (pending delivery from vendor).

Thank you.
Pawan

From: Sharma, Pawan K.
Sent: Wednesday, February 22, 2012 5:54 PM
To: 'Weston, Robert, Env. Health'; Juanita Bacey
Cc: Larry R. Mencin; Jeff Rankin
Subject: RE: SW 1450 Sherwin: former UST closure plan

Robert, Nina –

We have excavated around the tank as best we can given constraints of transformer pad and pipes within excavation. We have removed soils to El. 10 ft within the pit. We collected our sidewall samples, as planned.

We have created a sump about 3 feet deep (to El. 7 ft) on downgradient side of tank. We will use this sump to collect a groundwater sample tomorrow morning. Also in the morning, an outside crew will be onsite to clean the tank interior. Robert, please let us know what time you can be onsite to observe us sample, preferably before 10 AM.

After cleaning, we will backfill around the tank and within the pit. This will be necessary prior to filling tank with cement as we discovered a hole on the eastern side of the tank and need backfill above this elevation. We are currently planning to fill the tank on Friday; time to be determined tomorrow afternoon.

Thank you.
Pawan

From: Weston, Robert, Env. Health [mailto:robert.weston@acgov.org]
Sent: Wednesday, February 22, 2012 2:08 PM
To: Sharma, Pawan K.; Juanita Bacey
Cc: Larry R. Mencin; Jeff Rankin
Subject: RE: SW 1450 Sherwin: former UST closure plan

Pawan,
I will want to be onsite during the filling of the tank with cement. Can the water sample be taken during the abandonment so that we can witness that activity as well? Thanks for the updates.

Robert Weston
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Alameda County Department of Environmental Health
510 567-6781

From: Sharma, Pawan K. [mailto:SharmaPK@cdmsmith.com]
Sent: Wednesday, February 22, 2012 12:08 PM
To: Juanita Bacey; Weston, Robert, Env. Health
Cc: Larry R. Mencin; Jeff Rankin
Subject: SW 1450 Sherwin: former UST closure plan

Robert, Nina –

Thank you for visiting the site this morning and helping us develop a closure plan for the former UST. The following summarizes our discussion:

- We will close the former UST by abandoning it in place. Specifically, we will rinse the interior to remove sludge and clean interior walls. Then we will fill the tank with neat cement or equivalent. We will contact Robert to visit the site when this has been completed to observe/document.

- We will excavate around the former UST to El. 10 ft (design groundwater table for project): north along the transformer pad, east toward the building to remove impacted soil (keeping safe distance from building), south to remove impacted soil toward the existing excavation for the arsenic “hot spot”, and west toward existing excavation for railroad and storm sewer demolition.

- We will collect four side wall samples: two along the longer western excavation extent, one along northern extent near transformer pad, and one at eastern extent between former UST and building. A sample along southern extent is not needed as previously sampled for arsenic "hot spot" excavation.

- We will collect one groundwater sample on western, downgradient side of the former UST.

- We will then backfill the excavation. No additional excavation will be performed based on the sample results. Results will be documented in the completion report and OMM plan for the project.

Let us know if the above needs clarification.

I will provide you an update on the progress we have made at the end of the day.

Thank you.

Pawan K. Sharma, P.E. | CDM Smith
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