

TA 21

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**Young, John, NMENV**

**From:** Barbara Hoditschek [bhodits@lanl.gov]  
**To:** Young, John, NMENV  
**Cc:** Dhawan, Neelam, NMENV  
**Subject:** Observations Made While Storm Water Sampling "sheen" on water below SWMUs  
**Attachments:**

**Sent:** Fri 9/2/2005 7:52 AM

John,

The following observations were made at LANL while collecting storm water samples at sampling locations below two SWMUs using Environmental Liquid Samplers (ELS-single-stage). These sampling locations are NPDES FFCA site-specific storm water sampling locations which are being monitored at LANL by the DOE-OB this summer. The DOE-OB sampling locations are co-located with LANL sampling locations.

At DP-SMA-0.9, the LANL storm water sampling site designation below SWMUs 21-016 (a,b,c):

On August 25, after the ELS sample collection jar was removed from the ground in order to collect a sample, an oily sheen was observed in the water leaching through the sand at the bottom of the excavated hole (approximately 16-18" deep) which held the collection jar. The sheen floated on the water as it filled the hole.

On August 25 our rain gauge located at this site held 1.0" of rain. Previous to this 3.0" of rain was collected by the rain gauge on 8/15 and 0.9" on 8/23.

Although we collected storm water samples on both 8/15 and 8/23, no sheen was observed because no water was observed leaking into the hole left by the sampling jar.

The same observation was made at M-SMA-7 located below SWMUs 35-016(g,h), on August 23 ( rain gauge reading was 0.5") and on August 25 (rain gauge reading was 1.5").

Previous to this 2.4" rain was collected by the rain gauge at this site on 8/15.

No sheen was observed on 8/15 because the storm water sampling bottle held no sample and therefore was not removed from the hole.

No sheen was observed in any of the storm water samples that we collected at DP-SMA-0.9 and no storm water samples have yet been successfully collected at M-SMA-7.

We are not analyzing our storm water samples for organics, but LANL is also sampling storm water at these sites and may be analyzing their samples for organics.

I have made arrangements with Kevin Buckley to secure the GPS readings and maps associated with these locations and will forward the information to you when it arrives.

Since our samples are located within 15-30 ft. of LANL's sampling locations, we will be using the same GPS readings for our sites.

The DP-SMA 0.9 sampling location has been abandoned because we have collected our quota of samples but the hole is marked and has been left open. The M-SMA-7 site currently contains an ELS sampling set-up. This site is also marked.

If you would like to visit either of these two sites please let me know.

I have also informed Steve Veenis the group leader for the FFCA strom water monitoring activities of these observations.

LANL TA-21 [21-016(a,b,c) and TA-35 (35-016(g,h))]



Feel free to call me if you have further questions.

Location Name   Synonym   Northing (ft)   Easting (ft)

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DP-SMA-0.9	SS0388	1774759.71	1632912.702
M-SMA-7	SS1992	1770016.43	1625991.065