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Mayflower Pipeline Incident Response

Mayflower, Arkansas

Sheen Monitoring Report #32

Period: 05/26/2014 through 06/01/2014

Monitoring Days: 05/30/2014*

*Weekly sheen monitoring started on 03/11/2014.

Summary of Rainfall: A qualifying storm is defined as at least 0.25-inch rainfall in 3 hours and at least 72 hours since the previous qualifying storm.

Date	Maximum 3-hr Precipitation	Qualifying Storm
05/26/2014	0.00 inches	No
05/27/2014	0.00 inches	No
05/28/2014	0.16 inches	No
05/29/2014	0.30 inches	Yes**
05/30/2014	0.42 inches	Yes**
05/31/2014	0.21 inches	No
06/01/2014	0.46 inches	Yes***

**The post-rainfall monitoring and removal event for the qualifying storm was conducted on 05/30/2014 along with the weekly monitoring.

***The post-rainfall monitoring and removal event for the qualifying storm will be addressed in next sheen monitoring report.

Mitigation: Suspected petrogenic sheens were removed using absorbent materials.

Observations in Cove Inlet Channel:

- No sheens observed.

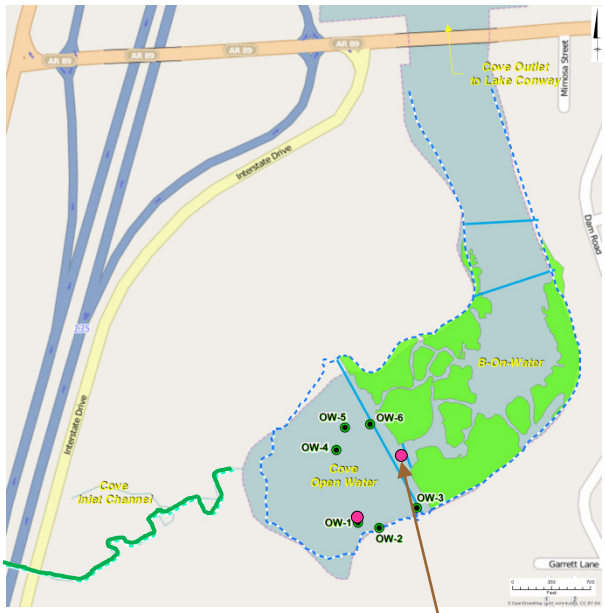
Observations in Cove:

- One patch/streamer and one streamer of silver gray sheen observed. Sheens did not break when disturbed ("non-brittle")[1].

Path Forward for 06/02/2014 to 06/08/2014 :

- Conduct sheen monitoring in Cove.

Legend:
Green Line – No Sheen
Aqua Circle – Brittle Sheen Location
Pink Circle – Non-Brittle Sheen Location
OW-1 – Shoreline Observation Location



Cove (Summary of Observations from 05/26/2014 through 06/01/2014)

Silver Gray Sheen Patch/Streamer Observation on 05/30/2014

Notes:

1. Non-brittle sheens are often related to anthropogenic sources, including petrogenic sources (e.g., petroleum hydrocarbons).
2. Laboratory testing is required to distinguish sheen sources (e.g., crude oil, roadway runoff, natural biologic activity).
3. Sheen color (dark/metallic/rainbow/silver gray) and structure (patches/streamers/cover) terminology reference: NOAA 2007. NOAA Open Water Oil Identification Job Aid.