

Sheen Monitoring Report #39

Period: 07/14/2014 through 07/20/2014

Monitoring Days: 07/17/2014*

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

<u>Summary of Rainfall:</u> 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
07/14/2014	0.21 inches	No
07/15/2014	0.00 inches	No
07/16/2014	0.00 inches	No
07/17/2014	0.22 inches	No**
07/18/2014	0.19 inches	No
07/19/2014	0.00 inches	No
07/20/2014	0.00 inches	No

^{**}Weekly sheen monitoring and removal event was conducted on 07/17/2014.

<u>Mitigation:</u> Suspected petrogenic sheens were removed using absorbent materials.

Observations in Cove Inlet Channel:

No sheen observed.

Observations in Cove:

- Two patches, one patch/streamer, and one streamer of silver gray sheen; and two patches/streamers of rainbow sheen observed. Sheens did not break when disturbed ("nonbrittle")¹.
- One patch of silver gray sheen observed. Sheen broke apart when disturbed ("brittle")².

Path Forward for 07/21/2014 through 07/27/2014:

· Conduct sheen monitoring in Cove.

Notes:

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

Mayflower Pipeline Incident Response

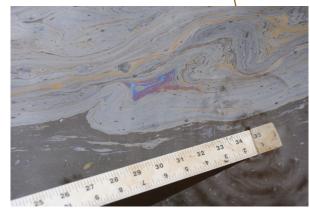
Mayflower, Arkansas

Leaend:

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 07/14/2014 through 07/20/2014)



Rainbow Sheen Patch/Streamer
Observation on 07/17/2014