MS Canyon 252 Incident
Work Plan for Obtaining Near Shore Spatial Extent of On-Water Oil Samples

This plan outlines the steps that will be employed to collect on-water oil samples to document the presence of oil from the incident in *near shore areas*. Sampling personnel will consist of Trustee personnel and/or contractors and, as requested, RP personnel and/or contractors.

OBJECTIVE

The objective of this plan is to obtain initial samples of *on-water* oil believed to be from the MS Canyon 252 event for PAH characterization and PAH fingerprinting. Samples will be collected opportunistically from areas identified by the SCAT teams or other information sources as having appreciable oil accumulations on water in near shore areas. For the purposes of this plan, near shore areas are defined as waters less than half-mile away from shorelines. On-water oil samples will be collected from locations where sensitive resources or shorelines exist and appreciable quantities of oil pose a significant threat to natural resources and services (i.e., injuries potentially will occur). Fingerprinting results from this initial oil sampling effort will not be extrapolated beyond the immediate sampling location but may be used to validate fate and transport model inputs, particularly concentrations of selected PAHs at or near sampling locations generated by models.

The fate of discharged oil from the incident is dependent on many factors and the situation is changing daily. Therefore, a rigid set of criteria for identifying areas for sampling cannot be provided. However, it is estimated that the Trustees would need to collect less than 150 samples over the next several weeks for the purposes of this study. If the incident is ongoing for many weeks and months from the date this plan is signed, then the Trustees reserve the right to collect more samples from affected areas, as appropriate. At this time, the sampling will take place on the waters of Louisiana. As conditions warrant, sampling may increase to include other states.

MATERIALS LIST

Appropriate PPE

- Personnel Flotation Devices
- Modified Level D (Tinted safety glasses + steel toe shoes)
- Nitrile Gloves
- Sunscreen

- Insect Repellant

Sample Materials

- Sample containers as required
- Sample container labels and clear tape for affixing to containers
- Waterproof Sharpie pen
- Evidence tape
- Custody seals
- Ice chests with sufficient ice to keep samples at approximately 4 degrees Celsius for 10 to 12 hours. These ice chests shall contain bags for the ice to help reduce movement of samples during transit. They shall be staged at the Port, where source oil samples shall be repacked into ice chests after being transported to shore at ambient temperature
- Chain-of-Custody documents for each laboratory for each ice chest
- Dry cleaning cloth or towel
- Stand-by Fire Extinguisher(s)
- Handheld GPS device
    1. For each sampling location, record the following information on a field data sheet:
    2. Record GPS location information
    3. Note any difficulty in taking the sample
    4. Take an overview photo of the area and record the photo number.
    5. Note the approximate distance the sample is collected from the nearest shoreline

SAMPLE COLLECTION PROCEDURE

1) Properly trained sampling personnel will perform the sample collection. Trustee and/or RP representatives shall document the sampling, fill out the sample labels, log book, chain of custody forms, sample location and photo-document the sampling.
2) Appropriate PPE is to be donned during the sampling event.
3) Sample Containers: 4oz. straight side amber glass containers, pre-cleaned and certified with certificate of analysis and bar coded with Teflon lids required.
4) Procedures for taking samples from the surface of the water will vary with the sheen size and thickness, on-scene weather and sea state, the type of petroleum product, and all necessary safety precautions.

5) Collect the on-water oil by lowering the sample jar into the water and skim the oil layer or globules from the water surface into the sample jar. Continue the process until the sample container is approximately full, making an effort to limit head space. Decant if necessary, repeat until oil collection is complete. If the RP requests, split or duplicate samples will be collected.

6) Place the lid firmly and securely on each jar. Wipe any excess oil and water from outside of sample jar using dry cloth or towel. Properly dispose of dry cloth or towels.

7) Collect GPS (latitude and longitude) information for each sample.

8) Wrap Teflon tape tightly around edge and top of lid to seal the lid onto the jar. Place a custody seal on each bottle. Completely fill out with a Sharpie the sample labels. Samples should be labeled following standard NOAA sampling conventions (i.e., LAAP33-A0523-09901; first six characters are location code, second five characters are date code (where A=2010), "0" is for matrix (oil), 99 is sampling team, 01, 02, 03 is sample number. Place sample jars into original packing boxes.

9) Wrap each sample jar in bubble wrap to minimize the chance for breakage and place in coolers on ice to reduce the temperature to 4 degrees C.

10) Document sampling date(s), times(s), conditions, volumes, quantities, etc. on Chain of Custody forms. Transfer samples (on ice) to the Houma, LA Command Center for shipment to lab under the supervision of appropriate Trustees and following NRDA sample shipping instructions.

11) Unless instructed otherwise, Alpha Laboratories will be the receiving laboratory for analytical samples. If RP representatives collect split or duplicate samples, samples will be shipped under separate chain-of-custody to a lab of their choice and the RP will inform the Trustees of the selected lab. Distribution of all samples will be recorded in a central record in addition to the individual chain-of-custody records.

CHEMICAL ANALYSIS

Samples will be analyzed for PAHs (including the alkylated homologs)/fingerprinting or archived for future fingerprinting.

LOGISTICS

1) Sampling personnel will travel from Houma to the appropriate sampling vessel and will execute the sampling event, then return to Houma.

2) Sampling personnel will transfer the samples and documentation to the Houma Command Center.

3) Sampling personnel will prepare the final shipping packages and associated paperwork, and arrange shipping to the sample recipients.

BUDGET

The budget for sampling assumes a two-stage deployment. Costs are estimated exclusive of potential additional RP labor costs. First, a five-day term of ramp-up sampling (to allow for site orientation, verification of feasibility of sampling protocol, and training) will be conducted using three sampling personnel) using one vessel. The second stage of deployment will consist of two sampling personnel each on two boats. Ramp-up sampling for five days, including labor costs for three sampling personnel, one boat captain, vessel rental, and transport and shipment of collected samples is estimated at $17,500. If additional ramp-up days are necessary, daily sampling costs are estimated at $3,500. Stage two deployment costs, including labor costs for four sampling personnel, two boat captains, two vessel rentals, and transport and shipment of collected samples is estimated at $5,200 per day.

HEALTH AND SAFETY

Sampling team will follow the NOAA Health and Safety Plan including for this incident. Sampling team will notify Houma NRDA office for location and safety status 3 times a day (beginning of day, middle of day, after return from field).

ANALYTICAL LABORATORY

All oil samples will be sent to Alpha Laboratories in Mansfield, MA.

DISTRIBUTION OF LABORATORY RESULTS

Each laboratory shall simultaneously deliver raw data, including all necessary metadata, generated as part of this work plan as a Laboratory Analytical Data Package (LADP) to the trustee Data Management Team (DMT), the Louisiana Oil Spill Coordinator's Office (LOSCO) on behalf of the State of Louisiana and to ENTRIX (on behalf of BP). The electronic data deliverable (EDD) spreadsheet with pre-validated analytical results, which is a component of the complete LADP, will also be delivered to the secure FTP drop box maintained by the trustees' Data Management Team (DMT). Any preliminary data distributed to the DMT shall also be distributed to LOSCO and to ENTRIX. Thereafter, the DMT will validate and perform quality assurance/quality control (QA/QC) procedures on the LADP consistent with the authorized Quality Assurance Project Plan, after which time the validated/QA/QC'd data shall be made available to all trustees and ENTRIX. Any questions raised on the validated/QA/QC results shall be handled per the procedures in the Quality Assurance Project Plan and the issue and results shall be distributed to all parties. In the interest of maintaining one consistent data set for use by all parties, only the validated/QA/QC'd data set released by the DMT shall be considered the consensus data set. The LADP shall not be released by the DMT, LOSCO, BP or ENTRIX prior to validation/QA/QC absent a showing of critical operational need. Should any party show a critical operational need for data prior to validation/QA/QC, any released data will be clearly marked "preliminary/unvalidated" and will be made available equally to all trustees and ENTRIX.

CONTACTS

NOAA: Laurie Sullivan, [redacted]

RP (ENTRIX): John Dimitry, [redacted]

MC252 Incident:

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Approval of this work plan is for the purposes of obtaining data for the Natural Resources Damage Assessment. Parties each reserve its right to produce its own independent interpretation and analysis of any data collected pursuant to this work plan.

APPROVED:

June 5, 2010

BP Representative: Date

6/5/10

NOAA/Trustee Representative: Date

FOR ROLAND GUIDRY 8/16/2010

State ~~Trustee~~ Representative: Date