



River Quest 2017

May 15-18, 2017

“Maritime Oil Spill Response”

USCG MSU Duluth

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MN Science Standard 7.4.4.1.2
Human Interactions with
Living Systems

Next Generation (WI) Standard
MS-ETSI-2
Engineering Design

Learning Question

What does oil look like on the water and how do you recover the oil when it is spilled?

Objectives

- 1) Identify different types of oil and describe how they look in water.
- 2) Using various recovery methods, demonstrate and describe the advantages and disadvantages of each.
- 3) Identify of different types of oil will react with different types of shorelines.

Vocabulary

The following are vocabulary words which will be used in the demonstration:

Absorbent	Bioremediation	Oil
Adsorbent	Boom	Sheen
Biodegradation	Dispersant	Skimmer

Implementation

The Coast Guard and Coast Guard Auxiliary will staff a learning station featuring hands on demonstrations of the different recovery methods of discharged oil. Students also will learn the effects of oil in the environment and gain a better understanding of different types of oil and what they look like in the environment.

References

Federal Water Pollution Control Act Section 311 (FWPCA): 33 U.S.C. §1321 (c)

Oil Pollution Act of 1990 (OPA-90): 33 U.S.C. §§2701-2762

National Contingency Plan (NCP): 40 CFR Part 300