



# River Quest 2019

May 13-16, 2019

## “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-ETS1-2  
Engineering Design

### Learning Question

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

### Objectives

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- 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 what happens to oil in the water column when a dispersant agent is used.
- 4) Identify what happens to oil when it is washed up on a beach.

### Vocabulary

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

Absorbent	Bioremediation	Oil
Adsorbent	Boom	Sheen
Biodegradation	Dispersant	Skimmer

### Implementation

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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

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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