

Date: 1700 EDT August 2, 2007  
To: NOAA SSC Ed Levine



FROM: NOAA/NOS Office of Response and Restoration  
Emergency Response Division  
Seattle, WA 98115

SUBJECT: Sunken F/V Rough Seas, Little Egg Inlet, NJ

FOR ADDITIONAL INFORMATION, PLEASE CONTACT CJ Beegle-Krause  
MODELING AND SIMULATION STUDIES, NOAA, SEATTLE, WA 98115.  
PHONE (206) 526-4911.

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We have looked at the issue of a potential spill from a sunken vessel. These notes are based on the following information:

On July 31<sup>st</sup> the 59 foot F/V Rough Seas was reported sunken and breaking up approx 1600 EDT at 39 deg 29.1'N, 074 deg 17.5'W. The vessel was carrying est. 1500 gallons diesel, and sheen was visible on an overflight in the area this morning, but no position information was available.

Salvage operations are expected to begin as early at tomorrow (Friday) morning with a crane on a barge arriving to remove the fuel tanks and other larger pieces of the vessel.

If any of this initial information is incorrect, please let us know ASAP as it would affect any trajectory implications.

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1) 48-hour Wind Forecast

Thursday night: winds from the SE at 10-15 knots

Friday: winds from the South at 10-15 knots

Saturday: winds from the South at 10-15 knots, switching late to be from the NW at 5-10.

2) Trajectory

The winds are predicted to have a southerly component tonight through tomorrow. If a release occurs during these winds, the oil would be moved with a northerly component, but the exact location of possible beach contact depends on the phase of the tide at the time of release. On a **flooding tide**, the south facing beaches south of Holgate, the southern beaches near Cupola and the Steven Islands could potentially be contacted by some of the diesel. On an **ebbing tide**, the south facing beaches south of Holgate may be contact by the diesel.

If salvage operations are delayed until Saturday, when NE winds are forecast, please contact your SSC for an updated trajectory as soon as possible.

4) Weathering and Fate

ADIOS weathering predictions are included for 15 knot and 10 knot wind conditions

Oil Name = DIESEL FUEL OIL (SOUTHERN USA 1997)

API = 37.6

Pour Point = 7 deg F

Wind Speed = constant at **15 knots**

Wave Height = computed from winds

Water Temperature = 75 deg F

Time of Initial Release = August 2, 1300 hours

Total Amount of Oil Released = 1,500 bbl

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Hours Into Spill	Released bbl		Evaporated percent		Dispersed percent		Remaining percent
1	1,500	-	3	-	1	-	97
2	1,500		6		2		92
3	1,500	-	9	-	5	-	85
4	1,500		13		11		76
5	1,500	-	16	-	18	-	65
6	1,500		19		27		53
7	1,500	-	22	-	37	-	41
8	1,500		24		46		30
9	1,500	-	25	-	54	-	20
10	1,500		26		60		13
11	1,500	-	27	-	65	-	9

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Hours Into Spill	Released gal		Evaporated percent		Dispersed percent		Remaining percent
1	1,500	-	11	-	3	-	87
2	1,500		21		9		70
3	1,500	-	28	-	18	-	55
4	1,500		31		25		43
5	1,500	-	34	-	32	-	35
6	1,500		35		37		28
7	1,500	-	36	-	41	-	23
8	1,500		36		44		19
9	1,500	-	37	-	47	-	16
10	1,500		37		50		13
11	1,500	-	38	-	51	-	11
12	1,500		38		53		9