

**Deepwater Horizon (MC252)**  
**ESF8 Situation Report 5**  
**For period August 1-18, 2010**

**Current Situation**

- Air: Most Recent Data Available from DEP – No Significant Issues
  - DEP began monitoring for VOCs on May 18 in Ft. Walton Beach and Apalachicola (Eastpoint). The most recent monitoring results show values of VOCs well below levels of concern for public health.
  - EPA air monitoring on August 18 has found Florida levels of ozone and particulates were “good”. Volatile Organic Compounds (VOC) were either not detected or well below levels of concern.
- Water: As of August 18, 2010, the data submitted on the 88 samples collected during this reporting period do not reflect detections of petroleum constituents related to the Deepwater Horizon oil spill above laboratory reporting limits. The few positive detects of analytes of interest were several orders of magnitude below the draft EPA Human Health Benchmarks.
- Sediment: The Florida Department of Environmental Protection conducted an assessment of visibly clean sand and sediment on beaches that were previously oiled in Escambia, Okaloosa, and Walton Counties. Samples of visibly clean sand and sediment immediately above the visible oil layer were free of detectable polycyclic aromatic hydrocarbons (PAHs). The Beach Study authored by FDEP is attached to this report. One sediment sample was also collected off the coast of Okaloosa County by CTEH. Results indicate a detection of vanadium several orders of magnitude below the draft EPA Human Health Benchmarks and non-detect for the other analytes of concern.
- Beaches: Oil Impact Notices have been rescinded for all of Okaloosa and Walton and portions of Escambia. Areas near Perdido Key, Johnson Beach and the Gulf Island National Seashore remain under the existing oil impact notice do to continued presense of significant tar balls.l
- Health Surveillance: One report of respiratory related illness was identified through ESSENCE ED review and recorded as being associated with oil spill clean up activities based on review of the chief complaint.
  - Six reports noted adverse clinical effects related to exposure to crude oil or crude oil dispersants.
  - Two reports indicated only GI related illness and one report recorded only respiratory related illness. One report listed only rash/dermal related illness and one report noted rash/dermal illness in conjunction with GI related illness. Clinical effects were noted as “Other” in the final report.
  - Four reports were from Escambia and one was from Okaloosa County. One report was recorded from Orange County associated with panhandle oil spill clean up activities.
  - Four reports indicated inhalational exposure; one noted dermal exposure and one listed ingestion/dermal exposure.
  - Reported adverse health effects included cough/choke, pain (not dermal/GI/ocular), rash, pruritis, skin redness/flushing, throat irritation, nausea, vomiting, dizziness/vertigo, shortness of breath, headache and related “other” clinical effects.
  - The age range for those who experienced adverse clinical effects was eight years in age to 54. Ages were not listed in all reports.
  - Cluster Alert: On 8/9/2010, one call was received by a partner poison information center (non-Florida) to report three persons in Escambia County with adverse clinical effects related to inhalational exposure to crude oil pollutants. Adverse clinical effects included nausea, vomiting, throat irritation, headache, confusion and pain (not

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dermal/GI/ocular). FPICN will conduct a follow-up. [No update is available at this time regarding the cluster reported for Week 31.]

The Department of Health Deepwater Horizon intranet site provides links to a variety of information sources. <http://dohiws/Divisions/DEMO/DeepWater/sampling.html>

<b>Florida Coastline Impacted</b>	31 miles of Florida coastline (half of previous mileage)
<b>Impacted Counties</b>	Escambia, Santa Rosa, Okaloosa, Walton, Bay
<b>Local States of Emergency</b>	6 counties; three county EOCs were at level 2 on 8/18
<b>Florida Fish and Oyster Harvest Closures</b>	The Florida Fish and Wildlife Conservation Commission (FWC) reopened state waters offshore of Escambia County to the harvest of shrimp at 12:01 a.m. on Aug. 17 per Executive Order. The FWC had temporarily closed this area to the harvest of fish, shrimp and crabs on June 14 as a precautionary measure due to possible effects of oil from the BP Deepwater Horizon spill in the Gulf of Mexico. The FWC reopened the area to the harvest of fish on July 31. Oysters, clams and mussels were not included in the closure and have always remained open to harvest. However, the area will remain closed to the harvest of crabs pending additional testing.

<b>County</b>	<b>State of Emergency Expiration Date</b>	<b>Staging Areas &amp; Medical Stations</b>	<b>Oil Impact Notice Posted</b>	<b>Environmental Sampling &amp; Monitoring Occurring</b>
Escambia	Expired	Pensacola (type S, T)	Perdido Key	Air, water, sediment, worker safety
Santa Rosa	August 20	Choctaw (type T)	No Postings	Air, water, sediment, worker safety
Okaloosa	Concurrent with Governor		No postings	Air, water, sediment, worker safety
Walton	Expired	Destin (type D)	No Postings	Air, water, sediment, worker safety
Bay	August 19	Panama City (type D)	No Postings	Air, water, sediment, worker safety

<b>Public Information</b>	<b>Escambia</b>	<b>Santa Rosa</b>	<b>Okaloosa</b>	<b>Walton</b>	<b>Bay</b>
Florida Poison Information Center Network (FPICN) <b>Statewide</b> calls	5 Information Request calls 9 Exposure calls, 7 from Florida residents				
FPICN Calls by County this period	6	1	1	0	0

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Florida Oil Spill Line Calls	Calls related to Deepwater Horizon incident May: 1,773 June: 4,639 July: 2,003 August 1-17: 162
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**Responders in Panhandle Counties as of 8/18/2010:**

Branch Clean Up Teams:

- Branch 1 (Escambia, Santa Rosa) – 920
- Branch 2 (Okaloosa, Walton - 283
- Branch 3 (Bay) –153
- Branch 4 (Gulf, Franklin, Wakulla, Jefferson, Madison) - 0

**Worker Incidents Reported to Unified Command (August 8-17)**

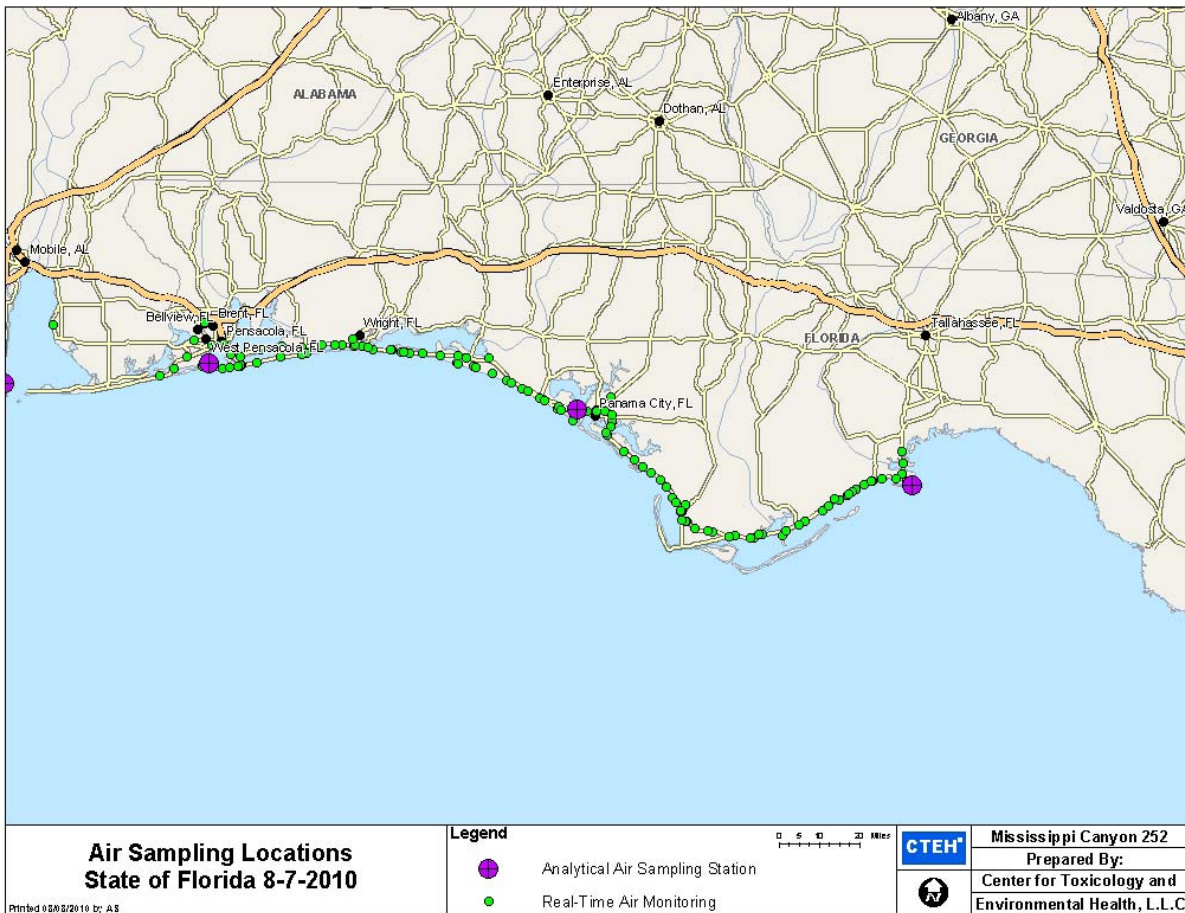
- Escambia – 50
- Santa Rosa – none reported
- Okaloosa – 3
- Walton – None Reported
- Bay – 18
- Gulf – 10
- Franklin - 1

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**Air Sampling & Monitoring:**

EPA air monitoring on August 18 has found Florida levels of ozone and particulates were “good”. Volatile Organic Compounds (VOC) were either not detected or well below levels of concern.

<b>Air</b>	<b>CTEH Monitoring</b>	<b>EPA Monitoring</b>	<b>EPA Samples</b>	<b>EPA AQI</b>
Analyses/Date		<b>126 8/1/10-8/5/10 7 sites</b>	<b>240 8/1/10-8/11/10 2 sites</b>	<b>18 sites in FL daily (6 in Panhandle)</b>
Analytes Measured	<b>VOCs, PM2.5, H2S, SO2, benzene</b>	<b>H2S, PM10, VOCs</b>	<b>VOCs, SVOCs, PAH, metals</b>	<b>PM2.5, ozone</b>

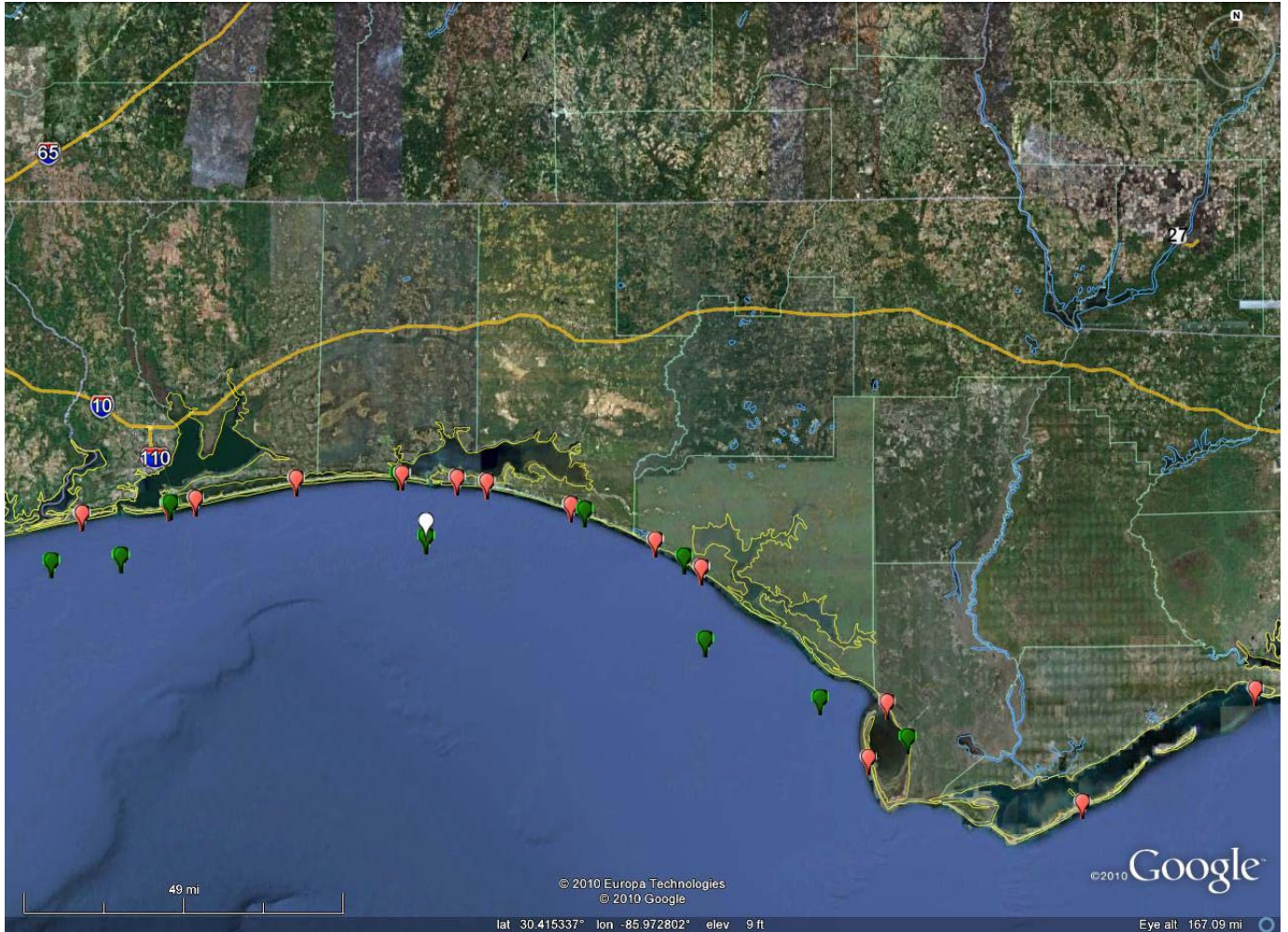


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**Water Sampling**

**Florida Water and Sediment Sample Locations, 8/1/2010 to 8/18/2010**

Sampling Conducted by: Department of Environmental Protection and CTEH (BP Contractor)



**Key:** Red Icon: FDEP water sample locations; Green Icon: CTEH water sample locations; White Icon: CTEH sediment sample location

**Florida Water Sample Results Reported 8/1 to 8/18/2010**

Data reported in SCRIBE does not indicate that petroleum constituents related to the DWH oil spill were detected at levels near the EPA Human Health Benchmarks.

**Number of results by County:**

<b>Escambia</b>	<b>29</b>
<b>Santa Rosa</b>	<b>1</b>
<b>Okaloosa</b>	<b>17</b>
<b>Walton</b>	<b>11</b>
<b>Bay</b>	<b>25</b>
<b>Gulf</b>	<b>3</b>
<b>Franklin</b>	<b>2</b>
<b>Total</b>	<b>88</b>

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**Sediment Sampling**

- FDEP conducted a pilot study to determine if the white beach sands that appeared to be clean were in fact free of detectable limits of petroleum constituents related to the DWH event. From July 7<sup>th</sup> to August 5<sup>th</sup>, 47 beach sand samples were collected in Escambia, Okaloosa and Walton Counties. The samples were analyzed for selected Polycyclic Aromatic Hydrocarbons (PAHs), and metals (nickel and vanadium for 8/5/2010 sampling event). Analytical results appear to indicate that visibly clean white sands and sediment immediately above the visible oil layer were free of detectable PAHs. The pilot study authored by FDEP is attached to this report.
- On 8/2/2010, CTEH collected one sediment sample off the coast of Okaloosa County. The analytical results indicated that vanadium was detected at 0.45 mg/Kg, however, the other analytes of concern were reported as non-detect. The sample location is indicated on the map on page 5.

**Water and Sediment Sample Results with Detects of the Analytes of Concern  
Compared to the Draft EPA Human Health Benchmark Levels**

<b>Reporting Period:</b>	<b>8/1 – 8/18</b>
<b>Number of Water Sample Results in Scribe:</b>	<b>88</b>
<b>Number of Water Sample Results with Detects of Benchmark Analytes:</b>	<b>5</b>
<b>Number of Sediment Sample Results in Scribe:</b>	<b>1</b>
<b>Number of Sediment Sample Results with Detects of Benchmark Analytes:</b>	<b>1</b>

<b>County</b>	<b>Sample Date</b>	<b>Matrix</b>	<b>Sample ID</b>	<b>Analyte</b>	<b>Result (µg/L)</b>	<b>Comparison (µg/L)</b>	<b>Reporting Group</b>
<b>Bay</b>	<b>8/1/2010</b>	<b>Water</b>	<b>19136</b>	<b>2-Methylnaphthalene</b>	<b>1.24</b>	<b>170</b>	<b>CTEH</b>
				<b>Naphthalene</b>	<b>5.08</b>	<b>1800</b>	<b>CTEH</b>
<b>Bay</b>	<b>8/2/2010</b>	<b>Water</b>	<b>19296</b>	<b>2-Methylnaphthalene</b>	<b>0.506</b>	<b>170</b>	<b>CTEH</b>
				<b>Naphthalene</b>	<b>1.34</b>	<b>1800</b>	<b>CTEH</b>
<b>Bay</b>	<b>8/3/2010</b>	<b>Water</b>	<b>19560</b>	<b>2-Methylnaphthalene</b>	<b>0.235</b>	<b>170</b>	<b>CTEH</b>
<b>Franklin</b>	<b>8/31/2010</b>	<b>Water</b>	<b>21074</b>	<b>Naphthalene</b>	<b>0.055</b>	<b>1800</b>	<b>FDEP</b>
<b>Walton</b>	<b>8/3/2010</b>	<b>Water</b>	<b>19557</b>	<b>2-Methylnaphthalene</b>	<b>0.274</b>	<b>170</b>	<b>CTEH</b>
<b>Okaloosa</b>	<b>8/2/2010</b>	<b>Sediment</b>	<b>19340</b>	<b>Vanadium</b>	<b>0.45 mg/Kg</b>	<b>1200 mg/Kg</b>	<b>CTEH</b>

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**Claims Filed with BP  
As of August 18, 2010**

**BP Claims Florida:**

<b>County Gov't</b>	<b>**Requested</b>	<b>\$ Approved</b>	<b>\$ Paid</b>
Escambia	\$5,544,845.00	\$2,133,989.76	\$2,133,989.76
Santa Rosa	\$2,480,941.00	\$299,260.00	\$299,260.00
Okaloosa	\$3,046,182.00	\$1,132,796.22	\$1,132,796.22
Walton	\$1,949,577.00	\$1,752,509.24	\$1,752,509.24
Bay	\$5,319,421.00	\$3,465,309.40	\$3,465,309.40
Gulf	\$9,467,453.00	\$183,588.45	\$183,588.45
Franklin	\$17,015,047.00	\$247,798.80	\$247,798.80
Charlotte	\$21,160.00	\$21,160.00	\$21,160.00
NWFWMD	\$7,260,000.00	\$60,829.47	\$60,829.47
<b>County Total</b>	<b>52,104,626.00</b>	<b>9,297,241.34</b>	<b>9,297,241.34</b>
<b>Civilian Total</b>	<b>38,724</b>	<b>\$74,055,667.37</b>	
The above chart represents only cash payments. Once a county enters a claim, Unified Command Mobile may task resources to meet a county's needs in addition to or in lieu of a cash payment.			
**May not include all requests due to request processes			
BP assumed direct financial responsibility for approx \$9 mil of Boom Contracts for Florida counties.			

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**Data Resources**

**The DOH intranet website has links to many information sources.** <http://dohiws/Divisions/DEMO/DeepWater/sampling.html>

Subject	Website
Air Monitoring Report (EPA)	<a href="http://www.epa.gov/BPSpill/air.html">http://www.epa.gov/BPSpill/air.html</a>
Air Monitoring Summary Report (CTEH)	DOH Intranet <a href="http://dohiws/Divisions/DEMO/DeepWater/sampling.html">http://dohiws/Divisions/DEMO/DeepWater/sampling.html</a>
Air Monitoring Summary Report (DEP) - Daily	<a href="http://www.dep.state.fl.us/deepwaterhorizon/air.htm">http://www.dep.state.fl.us/deepwaterhorizon/air.htm</a>
Air, Water, Sediment Sampling (BP)	<a href="http://www.bp.com/sectiongenericarticle.do?categoryId=9033821&amp;contentId=7062498">http://www.bp.com/sectiongenericarticle.do?categoryId=9033821&amp;contentId=7062498</a>
Air, Water, Sediment Sampling on Google Earth (EPA)	Open the data (.kmz format) in your Google Earth browser. <a href="http://www.epa.gov/BPSpill/">http://www.epa.gov/BPSpill/</a>
Beaches	<a href="http://www.doh.state.fl.us/environment/beachnames.html">http://www.doh.state.fl.us/environment/beachnames.html</a>
Fisheries	<a href="http://www.dep.state.fl.us/deepwaterhorizon/closures.htm">http://www.dep.state.fl.us/deepwaterhorizon/closures.htm</a>
Florida Environmental Monitoring (CTEH)	DOH Intranet <a href="http://dohiws/Divisions/DEMO/DeepWater/sampling.html">http://dohiws/Divisions/DEMO/DeepWater/sampling.html</a>
News Releases	<a href="http://www.dep.state.fl.us/deepwaterhorizon/news.htm">http://www.dep.state.fl.us/deepwaterhorizon/news.htm</a>
NIOSH Worker Safety Monitoring	<a href="http://www.cdc.gov/niosh/topics/oilspillresponse/data.html">http://www.cdc.gov/niosh/topics/oilspillresponse/data.html</a>
Sediment Data (EPA)	<a href="http://www.epa.gov/BPSpill/sediment.html">http://www.epa.gov/BPSpill/sediment.html</a>
Surveillance Report – Weekly	DOH Intranet <a href="http://dohiws/Divisions/DEMO/DeepWater/human.html">http://dohiws/Divisions/DEMO/DeepWater/human.html</a>
UC Safety Incident Report - Daily	DOH Intranet <a href="http://dohiws/Divisions/DEMO/DeepWater/human.html">http://dohiws/Divisions/DEMO/DeepWater/human.html</a>
Water Sampling Data (EPA)	<a href="http://www.epa.gov/BPSpill/water.html">http://www.epa.gov/BPSpill/water.html</a>
Water Sampling Location & Data by County (DEP)	<a href="http://www.dep.state.fl.us/deepwaterhorizon/water.htm">http://www.dep.state.fl.us/deepwaterhorizon/water.htm</a>