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“OIL SPILL EATER II”

HYDROCARBON REDUCTION TEST

FOR
GAF INDUSTRIES

SUMMARY

GAF Industries in Savannah, Georgia has a site contaminated with Venezuelan crude, #6 fuel oil and diesel fuel. The site has been contaminated for approximately 10 years. Sky Blue Chems designed a lab test that would mimic the actual cleanup plan. The contaminated site had approximately 85% aliphatic (heavy end) hydrocarbons, 6% aromatics (light ends) and 9% asphaltenes (weathered crude).

The initial hydrocarbon count was 100,000 mg/L. Oil Spill Eater II was mixed 50 to 1 with Savannah river water and applied at a 1 to 1 ratio to the hydrocarbons. In 96 hours all the aromatics and all the aliphatics were reduced to CO₂ and water. The weathered asphaltenes were the hardest to breakdown and consumed most of the testing time.

GAF asked us to demonstrate that we could mitigate their hydrocarbon contamination to less than 100 ppm so they could meet their NPDES discharge permit needs. This was a rigorous test for Oil Spill Eater II that proves the product is effective on light ends, heavy ends and weathered asphaltenes.

Steven R. Pedigo
Chairman

LOG NO: SO-06430

Received: 24 MAY 90

CC: Pedigo/Franklin

REPORT OF RESULTS

Page 1

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	SAMPLED BY
06430-1	GAF Waste Comp. Initial Test 6/1/90	Savannah Laboratories
PARAMETER	06430-1	
Petroleum Hydrocarbons (418.1), mg/kg	100000	
Percent Solids, %	56%	

CC: Pedigo/Franklin

REPORT OF RESULTS

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LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	SAMPLED BY
06430-2	GAF Waste Composite Second Test 6/8/90	Savannah Laboratories
06430-3	GAF Waste Composite Third Test 6/11/90	
06430-4	GAF Waste Composite Fourth Test 6/15/90	
PARAMETER	06430-2	06430-3 06430-4
Petroleum Hydrocarbons (418.1), mg/l	6800	5400 5000

Laboratory locations in Savannah, GA • Mobile, AL • Tallahassee, FL • Deerfield Beach, FL

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REPORT OF RESULTS

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LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES					SAMPLED BY
06430-5	GAF Waste Composite Fifth Test 6/22/90					Savannah Laboratories
06430-6	GAF Waste Composite Sixth Test 6/26/90					
06430-7	GAF Waste Composite Seventh Test 6/29/90					
06430-8	GAF Waste Composite Eighth Test 7/3/90					
06430-9	GAF Waste Composite Ninth Test 7/6/90					
PARAMETER	06430-5	06430-6	06430-7	06430-8	06430-9	
Petroleum Hydrocarbons (418.1), mg/l	2800	990	1500	1500	1100	

Methods: 1) EPA SW-846.

2) Sky Blue Chem Procedure "Testing Proposal OSE Bioremediation of Hydrocarbons."

Note: Extraction protocol described in Method 2 followed. Verbal instructions received on 6/22/90 to maintain volume by replacing each 100 ml aliquot removed for analysis with 100 ml of river water. A total volume of 500 ml OSE was added in seven applications.

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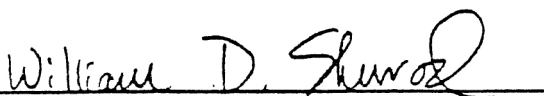
REPORT OF RESULTS

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LOG NO	SAMPLE DESCRIPTION . LIQUID SAMPLES	SAMPLED BY
06430-10	GAF Waste Composite Tenth Test 7/10/90	Savannah Laboratories
06430-11	GAF Waste Composite Eleventh Test 7/13/90	
06430-12	GAF Waste Composite Twelfth Test 7/17/90	
06430-13	GAF Waste Composite Thirteenth Test 7/20/90	

PARAMETER	06430-10	06430-11	06430-12	06430-13
Petroleum Hydrocarbons (418.1), mg/l	700	350	360	41

Methods: 1) EPA SW-846.
 2) Sky Blue Chem Procedure "Testing Proposal OSE Bioremediation of Hydrocarbons."
 Note: Extraction protocol described in Method 2 followed. Verbal instructions received on 6/22/90 to maintain volume by replacing each 100 ml aliquot removed for analysis with 100 ml of river water. A total volume of 500 ml OSE was added in seven applications.



William D. Sherrod

