



Analytical Report

Report Summary

Client: Williford Resources, LLC

Chain Of Custody Number: 17824

Samples Received: 9/25/2014 9:35:00AM

Job Number: 14057-0001

Work Order: P409108

Project Name/Location: Dye Hard #1

Entire Report Reviewed By:

A handwritten signature in black ink, appearing to read 'Tim Cain'.

Date: 10/7/14

Tim Cain, Laboratory Manager

The results in this report apply to the samples submitted to Envirotech's Analytical Laboratory and were analyzed in accordance with the chain of custody document supplied by you, the client, and as such are for your exclusive use only. The results in this report are based on the sample as received unless otherwise noted. Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc. If you have any questions regarding this analytical report, please don't hesitate to contact Envirotech's Laboratory Staff.

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Williford Resources, LLC 6506 S. Lewis Ave. Ste. 102 Tulsa OK, 74136	Project Name: Dye Hard #1 Project Number: 14057-0001 Project Manager: Glenn Stevens	Reported: 07-Oct-14 10:24
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Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Dye Hard #1	P409108-01A	Soil	09/25/14	09/25/14	Glass Jar, 4 oz.
	P409108-01B	Soil	09/25/14	09/25/14	Glass Jar, 4 oz.

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Williford Resources, LLC	Project Name:	Dye Hard #1	Reported:
6506 S. Lewis Ave. Ste. 102	Project Number:	14057-0001	07-Oct-14 10:24
Tulsa OK, 74136	Project Manager:	Glenn Stevens	

Dye Hard #1
P409108-01 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.10	mg/kg	1	1439031	09/26/14	10/02/14	EPA 8021B	
Toluene	ND	0.10	mg/kg	1	1439031	09/26/14	10/02/14	EPA 8021B	
Ethylbenzene	ND	0.10	mg/kg	1	1439031	09/26/14	10/02/14	EPA 8021B	
p,m-Xylene	ND	0.20	mg/kg	1	1439031	09/26/14	10/02/14	EPA 8021B	
o-Xylene	ND	0.10	mg/kg	1	1439031	09/26/14	10/02/14	EPA 8021B	
Total Xylenes	ND	0.10	mg/kg	1	1439031	09/26/14	10/02/14	EPA 8021B	
Total BTEX	ND	0.10	mg/kg	1	1439031	09/26/14	10/02/14	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-FID		101 %		50-150	1439031	09/26/14	10/02/14	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	9.99	mg/kg	1	1439031	10/02/14	10/02/14	EPA 8015D	
Diesel Range Organics (C10-C28)	386	24.9	mg/kg	1	1439030	09/26/14	09/30/14	EPA 8015D	
Surrogate: o-Terphenyl		94.8 %		50-200	1439030	09/26/14	09/30/14	EPA 8015D	
Surrogate: 4-Bromochlorobenzene-FID		92.2 %		50-150	1439031	10/02/14	10/02/14	EPA 8015D	
Total Metals by 6010									
Arsenic	ND	0.97	mg/kg	1	1440001	09/30/14	09/30/14	EPA 6010C	
Barium	388	4.86	mg/kg	1	1440001	09/30/14	09/30/14	EPA 6010C	
Cadmium	1.60	0.97	mg/kg	1	1440001	09/30/14	09/30/14	EPA 6010C	
Chromium	19.4	0.97	mg/kg	1	1440001	09/30/14	09/30/14	EPA 6010C	
Copper	26.7	0.97	mg/kg	1	1440001	09/30/14	09/30/14	EPA 6010C	
Lead	18.7	0.97	mg/kg	1	1440001	09/30/14	09/30/14	EPA 6010C	
Mercury	2.16	0.97	mg/kg	1	1440001	09/30/14	09/30/14	EPA 6010C	
Nickel	14.0	0.97	mg/kg	1	1440001	09/30/14	09/30/14	EPA 6010C	
Selenium	6.41	0.97	mg/kg	1	1440001	09/30/14	09/30/14	EPA 6010C	
Silver	4.89	0.97	mg/kg	1	1440001	09/30/14	09/30/14	EPA 6010C	
Zinc	44.1	0.97	mg/kg	1	1440001	09/30/14	09/30/14	EPA 6010C	

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Tulsa OK, 74136	Project Manager:	Glenn Stevens	

Dye Hard #1
F409108-01 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Cation/Anion Analysis									
pH @21.1°C	8.57		pH Units	1	1439039	09/26/14	09/26/14	EPA 9045D	
Electrical Conductivity	101		umhos/cm	1	1439039	09/26/14	09/26/14	EPA 120.1	
Sodium Absorption Ratio	0.409		N/A	1	1440005	09/29/14	09/29/14	[CALC]	
Calcium	5.36	0.01	mg/L	1	1439034	09/26/14	09/29/14	EPA 6010C	
Magnesium	1.23	0.01	mg/L	1	1439034	09/26/14	09/29/14	EPA 6010C	
Sodium	4.04	0.01	mg/L	1	1439034	09/26/14	09/29/14	EPA 6010C	
Boron-Hot Water Soluble by EPA 6010									
Boron	ND	0.50	mg/L	1	1440010	09/30/14	09/30/14	EPA 6010C	

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