

GW - 384

INSPECTION

(Drain-lines, Sump, BGT, Site, etc.)

Lowe, Leonard, EMNRD

From: Team Smith [aandt613@yahoo.com]
Sent: Tuesday, September 08, 2009 11:39 AM
To: Lowe, Leonard, EMNRD
Cc: jhughes1@leaco.net
Subject: Soil Sample
Attachments: OCD Soil Sample Diagram.pdf; Cardinal Labs Report 2009.pdf

Good morning. Please find copies of the report on the soil sample taken from Capitan Chemical's yard as well as a diagram showing where the sample was taken from. Let me know if there is anything else we can do to help.

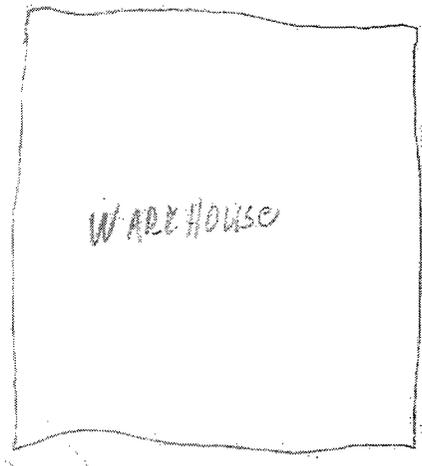
Thank you.

Erin Smith
Capitan Chemical, LLC

This inbound email has been scanned by the MessageLabs Email Security System.

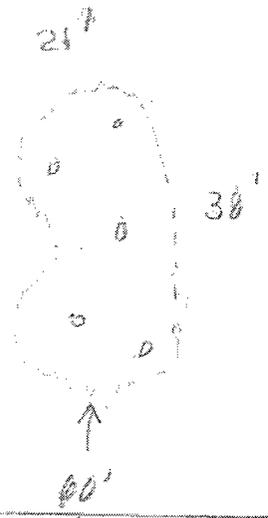


office



WAREHOUSE

SAMPLE
Area →



CAPITAM CHEMICAL
3206 Enterprise Drive



**ARDINAL
LABORATORIES**

PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

August 30, 2009

Joe Hughes
Capitan Chemical
P.O. Box 4120
Hobbs, NM 88241

Re: Yard/Discharge Plan

Enclosed are the results of analyses for sample number H17962, received by the laboratory on 08/11/09 at 10:30 am.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method SW-846 8260	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method TX 1005	Total Petroleum Hydrocarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.2	Regulated VOCs (V2, V3)

Accreditation applies to public drinking water matrices.

Total Number of Pages of Report: 8 (includes Chain of Custody)

Sincerely,

Celey D. Keene
Laboratory Director

This report conforms with NELAP requirements.



ARDINAL LABORATORIES

PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
CAPITAN CHEMICAL
ATTN: JOE HUGHES
P.O. BOX 4120
HOBBS, NM 88241
FAX TO: (575) 392-3689

Receiving Date: 08/11/09
Reporting Date: 08/27/09
Project Owner: NOT GIVEN
Project Name: YARD/DISCHARGE PLAN
Project Location: HOBBS YARD

Sampling Date: 08/11/09
Sample Type: SOIL
Sample Condition: COOL & INTACT @ 6°C
Sample Received By: AB
Analyzed By: KJ

LAB NUMBER	SAMPLE ID	TOTAL CYANIDE (mg/kg)
ANALYSIS DATE:		08/21/09
H17962-1	YARD SAMPLE	<0.005
Quality Control		0.049
True Value QC		0.050
% Recovery		98.0
Relative Percent Difference		<0.1
METHOD: EPA 600/4-79-020		335.4

Analyses subcontracted to Green Analytical Laboratories, a subsidiary of Cardinal Laboratories.



Chemist



Date

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ANALYTICAL RESULTS FOR
 CAPITAN CHEMICAL
 ATTN: JOE HUGHES
 P.O. BOX 4120
 HOBBS, NM 88241
 FAX TO: (575) 392-3689

 Receiving Date: 08/11/09
 Reporting Date: 08/27/09
 Project Number: NOT GIVEN
 Project Name: YARD/DISCHARGE PLAN
 Project Location: HOBBS YARD
 Lab Number: H17962-1
 Sample ID: YARD SAMPLE

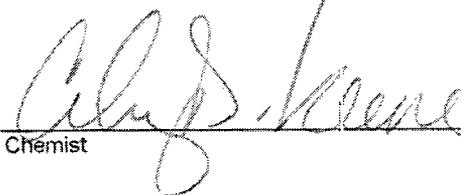
 Analysis Date: 08/12/09
 Sampling Date: 08/11/09
 Sample Type: SOIL
 Sample Condition: COOL & INTACT @ 6°C
 Sample Received By: AB
 Analyzed By: ZL

VOLATILES - 8260 (mg/kg)	Sample Result H17265-1	Method Blank	QC	%Recov.	True Value QC
1 Vinyl chloride	<0.050	<0.001	0.021	103	0.020
2 1,1-Dichloroethene (1,1-DCE)	<0.050	<0.001	0.017	83.6	0.020
3 Methylene chloride	<0.050	<0.001	0.021	104	0.020
4 Chloroform	<0.050	<0.001	0.021	107	0.020
5 Carbon tetrachloride	<0.050	<0.001	0.019	96.3	0.020
6 Benzene	<0.050	<0.001	0.023	117	0.020
7 1,2-Dichloroethane (EDC)	<0.050	<0.001	0.022	110	0.020
8 1,1-Dichloroethane	<0.050	<0.001	0.021	105	0.020
9 Ethylene Dibromide (EDB)	<0.050	<0.001	0.020	100	0.020
10 Toluene	<0.050	<0.001	0.018	88.6	0.020
11 1,1,1-Trichloroethane	<0.050	<0.001	0.019	94.9	0.020
12 1,1,2-Trichloroethane (TCE)	<0.050	<0.001	NR	NR	NR
13 1,1,2-Trichloroethane	<0.050	<0.001	0.019	97.5	0.020
14 Ethylbenzene	<0.050	<0.001	0.020	98.9	0.020
15 Total Xylenes	<0.150	<0.001	0.057	94.6	0.060
16 1,1,2,2-Tetrachloroethane (PCE)	<0.050	<0.001	NR	NR	NR
17 1,1,2,2-Tetrachloroethane	<0.050	<0.001	0.019	94.3	0.020

NR = Not Reported

Surrogates	% Recovery
Dibromodifluoromethane	101
Toluene-d8	97.0
4-Bromofluorobenzene	108

METHODS: EPA SW-846-8260


 Cheryl Keene
 Chemist


 08/30/09
 Date

ANALYTICAL RESULTS FOR
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ATTN: JOE HUGHES
P.O. BOX 4120
HOBBS, NM 88241
FAX TO: (575) 392-3689

Receiving Date: 08/11/09
Reporting Date: 08/27/09
Project Number: NOT GIVEN
Project Name: YARD/DISCHARGE PLAN
Project Location: HOBBS YARD
Lab Number: H17962-1
Sample ID: YARD SAMPLE

Analysis Date: 08/20/09
Sampling Date: 08/11/09
Sample Type: SOIL
Sample Condition: COOL & INTACT @ 6°C
Sample Received By: AB
Analyzed By: CK

PAH

SEMIVOLATILES - 8270 (mg/kg)	Sample Result H17962-1	Method Blank	True Value		
			QC	% Recov.	QC
1 Naphthalene	<0.200	<0.200	0.048	95.6	0.050
2 2-Methylnaphthalene	<0.200	<0.200	0.051	103	0.050
3 1-Methylnaphthalene	<0.200	<0.200	NR	NR	NR
4 Acenaphthylene	<0.200	<0.200	0.027	53.0	0.050
5 Acenaphthene	<0.200	<0.200	0.047	94.2	0.050
6 Fluorene	<0.200	<0.200	0.046	91.5	0.050
7 Phenanthrene	<0.200	<0.200	0.051	102	0.050
8 Anthracene	<0.200	<0.200	0.050	100	0.050
9 Carbazole	<0.200	<0.200	0.060	121	0.050
10 Fluoranthene	<0.200	<0.200	0.070	140	0.050
11 Pyrene	<0.200	<0.200	0.069	138	0.050
12 Benzo[a]anthracene	<0.200	<0.200	0.057	115	0.050
13 Chrysene	<0.200	<0.200	0.042	83.1	0.050
14 Benzo [b] fluoranthene	<0.200	<0.200	0.036	71.7	0.050
15 Benzo [k] fluoranthene	<0.200	<0.200	0.038	75.7	0.050
16 Benzo [a] pyrene	<0.200	<0.200	0.035	70.4	0.050
17 Indeno [1,2,3-cd] pyrene	<0.200	<0.200	0.049	98.3	0.050
18 Dibenz [a,h] anthracene	<0.200	<0.200	0.050	100	0.050
19 Benzo[g,h,i]perylene	<0.200	<0.200	0.050	99.4	0.050

NR = Not Reported

% Recovery

20 Nitrobenzene-d5	126
21 2-Fluorobiphenyl	110
22 Terphenyl-d14	181*

METHODS: EPA SW 846-8270

*Recovery outside historical limits due to matrix interference.


Chemist


Date



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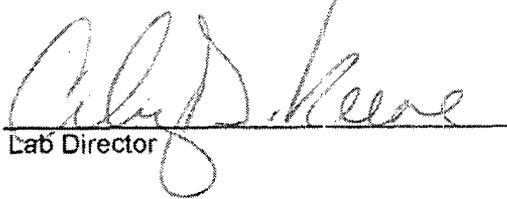
Receiving Date: 08/11/09
Reporting Date: 08/14/09
Project Owner: NOT GIVEN
Project Name: YARD/DISCHARGE PLAN
Project Location: HOBBS YARD

Sampling Date: 08/11/09
Sample Type: SOIL
Sample Condition: COOL & INTACT @ 6°C
Sample Received By: AB
Analyzed By: AB/HM

LAB NUMBER	SAMPLE ID	GRO (C ₅ -C ₁₀) (mg/kg)	DRO (>C ₁₀ -C ₂₈) (mg/kg)	*Cl ⁻ (mg/kg)
ANALYSIS DATE		08/12/09	08/12/09	08/11/09
H17962-1	YARD SAMPLE	<10.0	<10.0	16
Quality Control		518	581	490
True Value QC		500	500	500
% Recovery		104	116	98.0
Relative Percent Difference		1.6	0.5	2.0

METHODS: TPH GRO & DRO: EPA SW-846 8015 M; Cl⁻: Standard Methods 4500-Cl-B.

*Note: Analysis performed on a 1:4 w:v aqueous extract. Reported on wet weight.


Lab Director


Date

H17962 TCL CAPITAN

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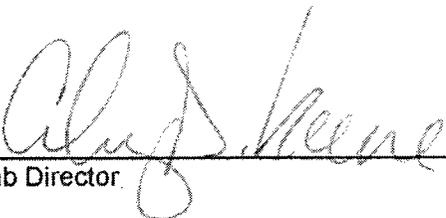
Receiving Date: 08/11/09
 Reporting Date: 08/27/09
 Project Number: NOT GIVEN
 Project Name: YARD/DISCHARGE PLAN
 Project Location: HOBBS YARD
 Lab Number: H17962-1
 Sample ID: YARD SAMPLE

Analysis Date: 08/20/09
 Sampling Date: 08/11/09
 Sample Type: SOIL
 Sample Condition: COOL & INTACT @ 6°C
 Sample Received By: AB
 Analyzed By: JS

AROCLORS (PCB's) (µg/kg)	Sample Result	Method Blank	True Value		
			QC	QC	%IA
	H17962-1				
PCB 1016	<10	<10	100	100	100
PCB 1221	<10	<10	NR	NR	NR
PCB 1232	<10	<10	NR	NR	NR
PCB 1242	<10	<10	NR	NR	NR
PCB 1248	<10	<10	NR	NR	NR
PCB 1254	<10	<10	NR	NR	NR
PCB 1260	<10	<10	94.8	100	94.8

Surrogate	% Recovery
Tetrachloro-meta-xylene	76.6

METHOD: SW-846 8082
 Subcontracted to SunStar Laboratories.



 Lab Director.



 Date

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