



E.S.BABCOCK & Sons, Inc.

Environmental Laboratories

6100 Quail Valley Ct.
Riverside, CA 92507
Ph:951.653.3351
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Results for A9H1427-01

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Sample Analysis

01

Hi-Desert Water District
55439 29 Palms Hwy
Yucca Valley,
CA 92284-2503

Project: Hi-Desert WD-DW NOcc
Project Number: S.W.P. Title 22/Recharge Site
Project #3
Manager: Steve Schwab

Reported:
9/1/2009 11:06:49
AM

Recharge Water Site #3
A9H1427-01 (Water)
E.S. Babcock & Sons, Inc.

Heterotrophic Plate Count - SM 9215 B

Analyte	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Analysis Notes
Heterotrophic Plate Count	260	1.0	CFU/mL	9H14023	08/13/09	08/13/09	SM 9215B

MMOMUG - Presence/Absence - SM 9223 B

Analyte	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Analysis Notes
Total Coliform	**PRESENT**	1.1	---	9H14023	08/13/09	08/13/09	SM 9223B
E. coli	Absent	1.1	"	"	"	"	"



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Hi-Desert Water
 District
 55439 29 Palms Hwy
 Yucca Valley,
 CA 92284-2503

Project: Hi-Desert WD-DWcc
 Project Number: Recharge Water Title 22 Site
 Project 3
 Manager: Steve Schwab

Reported:
 9/1/2009 10:56:08
 AM

**Recharge Water Site #3
 A9H2199-01 (Water)
 E.S. Babcock & Sons, Inc.**

General Physical

Analyte	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Analysis	Notes
Color	15	3.0	Color Units	9H20038	08/20/09	08/20/09	SM 2120B	
Odor	ND	1.0	T.O.N.*	"	"	"	SM 2150	
Turbidity	3.2	0.20	NTU	"	"	"	SM 2130 B	



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Results for A9H1578-01

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Hi-Desert Water District
 55439 29 Palms Hwy
 Yucca Valley,
 CA 92284-2503

Project: Hi-Desert WD-DW NOcc
 Project Number: SWP Title 22 Recharge Site
 Project #3
 Manager: Steve Schwab

Reported:
 9/1/2009 10:57:28 AM

**Recharge Water Site #3
 A9H1578-01 (Water)
 E.S. Babcock & Sons, Inc.**

Cations

Analyte	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Analysis	Notes
Calcium	14	1.0	mg/L	9H24023	08/24/09	08/24/09	EPA 200.7	
Total Hardness	64	3.0	"	"	"	"	SM 3120B	
Potassium	1.9	1.0	"	"	"	"	EPA 200.7	
Magnesium	6.8	1.0	"	"	"	"	"	
Sodium	27	1.0	"	"	"	"	"	
Total Cations	2.5	0.05	me/L	"	"	"	Calculation	

Anions

Analyte	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Analysis	Notes
Total Alkalinity	60	3.0	mg/L	9H20029	08/20/09	08/20/09	SM 2320B	
Hydroxide	ND	3.0	"	"	"	"	"	
Carbonate	ND	3.0	"	"	"	"	"	

Bicarbonate	73	3.0	"	"	"	"	"
Chloride	39	1.0	"	9H14047	08/14/09	08/15/09	EPA 300.0
Fluoride	ND	0.1	"	9H20017	08/20/09	08/20/09	SM 4500F C
Nitrate	1.1	1.0	"	9H14047	08/14/09	08/15/09	EPA 300.0
Sulfate	16	0.50	"	"	"	"	"
Total Anions	2.65	0.05 me/L		9H17058	08/17/09	08/17/09	Calculation

Aggregate Properties

Analyte	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Analysis Notes
Specific Conductance	300	1.0	umhos/cm	9H14045	08/14/09	08/14/09	SM 2510 B
pH	8.2	1.0	pH Units	"	"	"	SM 4500H+ B

Solids

Analyte	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Analysis Notes
Total Dissolved Solids	150	20	mg/L	9H19005	08/19/09	08/19/09	SM 2540C

Surfactants

Analyte	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Analysis Notes
MBAS	0.05	0.05	mg/L	9H14046	08/14/09	08/14/09	SM 5540C

General Inorganics

Analyte	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Analysis Notes
Cyanide	ND	100	ug/L	9H19044	08/19/09	08/19/09	SM 4500CN E
Perchlorate	ND	4.0	"	9H20003	08/20/09	08/20/09	EPA 314.0

Nutrients

Analyte	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Analysis	Notes
Nitrite as N	ND	100 ug/L		9H14033	08/14/09	08/14/09	SM 4500NO2 B	

Metals and Metalloids

Analyte	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Analysis	Notes
Silver	ND	10 ug/L		9H24008	08/24/09	08/25/09	EPA 200.8	
Aluminum	150	50 "		9H24023	"	08/24/09	EPA 200.7	
Arsenic	2.5	2.0 "		9H24008	"	08/25/09	EPA 200.8	
Barium	ND	100 "		"	"	"	"	
Beryllium	ND	2.5 "		"	"	08/26/09	"	<u>NLOh</u>
Cadmium	ND	1.0 "		"	"	08/25/09	"	
Total Chromium	ND	1.0 "		9H19057	08/20/09	08/20/09	"	
Copper	ND	50 "		9H24008	08/24/09	08/25/09	"	
Iron	180	100 "		9H24023	"	08/24/09	EPA 200.7	
Mercury	ND	1.0 "		9H24008	"	08/25/09	EPA 200.8	
Manganese	20	20 "		"	"	"	"	
Nickel	ND	10 "		"	"	"	"	
Lead	ND	5.0 "		"	"	"	"	
Antimony	ND	6.0 "		"	"	"	"	
Selenium	ND	5.0 "		"	"	"	"	
Thallium	ND	1.0 "		"	"	"	"	
Zinc	ND	50 "		"	"	"	"	



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Results for A9H1493-01

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Sample Analysis

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Hi-Desert Water District
55439 29 Palms Hwy
Yucca Valley,
CA 92284-2503

Project: Hi-Desert WD-DW NOcc
Project Number: SWP Title 22 Recharge Site #3
Project Manager: Steve Schwab

Reported:
9/1/2009 10:58:34 AM

**Recharge Water Site #3
A9H1493-01 (Water)
E.S. Babcock & Sons, Inc.**

EDB and DBCP by EPA 504

Analyte	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Analysis Notes
Ethylene dibromide	ND	0.020	ug/L	9H14043	08/17/09	08/17/09	EPA 504.1
Dibromochloropropane	ND	0.010	"	"	"	"	"

Nitrogen-Phosphorus Pesticides by EPA 507

Analyte	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Analysis Notes
Alachlor	ND	1.0	ug/L	9H18012	08/18/09	08/19/09	EPA 507
Atrazine	ND	0.50	"	"	"	"	"
Simazine	ND	1.0	"	"	"	"	"
1,3-Dimethyl-2-Nitrobenzene [surr]	96.0%	(70 - 130)		"	"	"	"

Organochlorine Pesticides and PCBs by EPA 508

Analyte	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Analysis Notes
Aldrin	ND	0.075	ug/L	9H18013	08/18/09	08/26/09	EPA 508

Chlordane	ND	0.10	"	"	"	"	"
Dieldrin	ND	0.020	"	"	"	"	"
Endrin	ND	0.10	"	"	"	"	"
Heptachlor	ND	0.010	"	"	"	"	"
Heptachlor Epoxide	ND	0.010	"	"	"	"	"
Hexachlorobenzene	ND	0.50	"	"	"	"	"
Hexachlorocyclopentadiene	ND	1.0	"	"	"	"	"
Lindane	ND	0.20	"	"	"	"	"
Methoxychlor	ND	10	"	"	"	"	"
Polychlorinated Biphenyls (Total PCB's)	ND	0.50	"	"	"	"	"
Propachlor	ND	0.50	"	"	"	"	"
Toxaphene	ND	1.0	"	"	"	"	"

Decachlorobiphenyl [surr] 73.7% (70 - 130) " " " "

Chlorinated Herbicides by EPA 515.3

Analyte	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Analysis Notes
Bentazon	ND	2.0	ug/L	9H18010	08/18/09	08/25/09	EPA 515.3
2,4-D	ND	10	"	"	"	"	"
Dalapon	ND	10	"	"	"	"	"
Dicamba	ND	1.5	"	"	"	"	"
Dinoseb	ND	2.0	"	"	"	"	"
Pentachlorophenol	ND	0.20	"	"	"	"	"
Picloram	ND	1.0	"	"	"	"	"
2,4,5-TP Silvex	ND	1.0	"	"	"	"	"
<i>DCAA [surr]</i>	101%	(70 - 130)		"	"	"	"

Volatile Organic Compounds by EPA 524.2

Analyte	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Analysis Notes
1,1,1,2-Tetrachloroethane	ND	0.50	ug/L	9H21025	08/21/09	08/21/09	EPA 524.2
1,1,1-Trichloroethane	ND	0.50	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	0.50	"	"	"	"	"
1,1,2-Trichloroethane	ND	0.50	"	"	"	"	"
1,1-Dichloroethane	ND	0.50	"	"	"	"	"
1,1-Dichloroethene	ND	0.50	"	"	"	"	"
1,1-Dichloropropene	ND	0.50	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	0.50	"	"	"	"	"

1,2,4-Trichlorobenzene	ND	0.50	"	"	"	"	"
1,2,4-Trimethylbenzene	ND	0.50	"	"	"	"	"
1,2-Dichlorobenzene	ND	0.50	"	"	"	"	"
1,2-Dichloroethane	ND	0.50	"	"	"	"	"
1,2-Dichloropropane	ND	0.50	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	0.50	"	"	"	"	"
1,3-Dichlorobenzene	ND	0.50	"	"	"	"	"
1,3-Dichloropropane	ND	0.50	"	"	"	"	"
1,4-Dichlorobenzene	ND	0.50	"	"	"	"	"
2,2-Dichloropropane	ND	0.50	"	"	"	"	"
2-Butanone(MEK-EPA 8260)	ND	5.0	"	"	"	"	"
2-Chlorotoluene	ND	0.50	"	"	"	"	"
4-Chlorotoluene	ND	0.50	"	"	"	"	"
4-Methyl-2-Pentanone (MIBK)	ND	5.0	"	"	"	"	"
Benzene	ND	0.50	"	"	"	"	"
Bis(2-chloroethyl)ether (Non-NELAP)	ND	5.0	"	"	"	"	"
Bromobenzene	ND	0.50	"	"	"	"	"
Bromochloromethane	ND	0.50	"	"	"	"	"
Bromodichloromethane	ND	0.50	"	"	"	"	"
Bromoform	ND	0.50	"	"	"	"	"
Bromomethane	ND	0.50	"	"	"	"	"
Carbon Tetrachloride	ND	0.50	"	"	"	"	"
Chlorobenzene	ND	0.50	"	"	"	"	"
Chloroethane	ND	0.50	"	"	"	"	"
Chloroform	ND	0.50	"	"	"	"	"
Chloromethane	ND	0.50	"	"	"	"	"
cis-1,2-Dichloroethene	ND	0.50	"	"	"	"	"
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"
Dibromochloromethane	ND	0.50	"	"	"	"	"
Dibromomethane	ND	0.50	"	"	"	"	"
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"
Ethylbenzene	ND	0.50	"	"	"	"	"
Hexachlorobutadiene	ND	0.50	"	"	"	"	"
Isopropylbenzene	ND	0.50	"	"	"	"	"
Methyl tert butyl Ether	ND	3.0	"	"	"	"	"
Methylene Chloride	ND	0.50	"	"	"	"	"
n-Butylbenzene	ND	0.50	"	"	"	"	"
n-Propylbenzene	ND	0.50	"	"	"	"	"
Naphthalene	ND	0.50	"	"	"	"	"
p-Isopropyltoluene	ND	0.50	"	"	"	"	"
sec-Butylbenzene	ND	0.50	"	"	"	"	"
Styrene	ND	0.50	"	"	"	"	"

tert-Butylbenzene	ND	0.50	"	"	"	"	"
Tetrachloroethene	ND	0.50	"	"	"	"	"
Toluene	ND	0.50	"	"	"	"	"
trans-1,2-Dichloroethene	ND	0.50	"	"	"	"	"
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"
Trichloroethene	ND	0.50	"	"	"	"	"
Trichlorofluoromethane	ND	5.0	"	"	"	"	"
Trichlorotrifluoroethane	ND	10	"	"	"	"	"
Vinyl Chloride	ND	0.50	"	"	"	"	"
Xylenes (m+p)	ND	0.50	"	"	"	"	"
Xylenes (ortho)	ND	0.50	"	"	"	"	"
Xylenes (Total)	ND	0.50	"	"	"	"	"
<hr/>							
<i>1,2-Dichloroethane-d4 [surr]</i>	106%	(50 - 150)	"	"	"	"	"
<i>Bromofluorobenzene [surr]</i>	106%	(50 - 150)	"	"	"	"	"
<i>Toluene-d8 [surr]</i>	98.9%	(50 - 150)	"	"	"	"	"

Endothall by EPA 548.1

Analyte	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Analysis	Notes
Endothall	ND	45	ug/L	9H13017	08/13/09	08/14/09	EPA 548.1	



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Results for A9H1493-01RE1

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Hi-Desert Water
 District
 55439 29 Palms Hwy
 Yucca Valley,
 CA 92284-2503

Project: Hi-Desert WD-DW NOcc
 Project Number: SWP Title 22 Recharge Site
 Project #3
 Manager: Steve Schwab

Reported:
 9/1/2009 10:58:52
 AM

**Recharge Water Site #3
 A9H1493-01RE1 (Water)
 E.S. Babcock & Sons, Inc.**

Semivolatile Organic Compounds by EPA 525.2

Analyte	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Analysis Notes
Benzo(a)pyrene	ND	0.10	ug/L	9H19045	08/19/09	08/21/09	EPA 525.2
DEH-Adipate	ND	5.0	"	"	"	"	"
DEH-Phthalate	ND	3.0	"	"	"	"	"
4-Terphenyl-d14 [surr]	117%	(70 - 130)		"	"	"	"
Molinate	ND	2.0	"	"	"	"	"
Thiobencarb	ND	1.0	"	"	"	"	"



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Sample Analysis

01

Hi-Desert Water
District
55439 29 Palms Hwy
Yucca Valley,
CA 92284-2503

Project: Hi-Desert WD-DWcc
Project Number: SWP Title 22 Recharge Site
Project #3
Manager: Steve Schwab

Reported:
9/1/2009 11:11:06
AM

**Recharge Site #3
A9H1790-01 (Water)
E.S. Babcock & Sons, Inc.**

No results are currently available. Results are not available for viewing until the status is set to Reviewed or Reported.

1) ASBESTOS
2) RADIO CHEM. ALPHA

DUE
9-11-2009

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RADIOACTIVITY ANALYSIS (9/99)

Date of Report: 09/08/28

Sample ID No.985031 / A9H1790-01

Laboratory

Signature Lab

Name: TRUESDAIL LABS

Director: 

Name of Sampler: Steve Schwab

Employed By: Hi Desert WD

Date/Time Sample

Date/Time Sample

Date Analyses

Collected: 09/08/13/1015

Received @ Lab: 09/08/21/1200

Completed: 09/08/25

System

System

Name: HI DESERT WD

Number: 3610073

Name or Number of Sample Source: Recharge Site #3

* User ID: TAN

Station Number: *

* Date/Time of Sample: |09|08|13|1015|

Laboratory Code: 9469 *

* YY MM DD TTTT

YY MM DD *

*

Date Analysis completed: |09|08|25| *

* Submitted by: _____

Phone #: _____ *

MCL REPORT UNITS	CHEMICAL	STORET CODE	ANALYSES RESULTS	DLR
pCi/L	TITLE 22 CALIFORNIA CODE OF REGULATIONS			
pCi/L	SECTION 64442 (22 CCR 64442)			
15 pCi/L	Gross Alpha	01501	1.00	3.0
pCi/L	Gross Alpha Counting Error	01502	0.77	
pCi/L	Gross Alpha MDA95 *	A-072		
20 pCi/L	Uranium	28012		1.0
pCi/L	Uranium Counting Error	A-028		
pCi/L	Uranium MDA95	A-073		
pCi/L	Radium 226	09501		1.0
pCi/L	Radium 226 Counting Error	09502		
pCi/L	Radium 226 MDA95	A-074		
pCi/L	Radium 228	11501		1.0
pCi/L	Radium 228 Counting Error	11502		
pCi/L	Radium 228 MDA95	A-075		
5 pCi/L	Ra 226 + Ra 228, Combined	11503		
pCi/L	Ra 226 + Ra 228 Counting Error, Combined	11504		
pCi/L	Ra 226 + Ra 229 MDA95, Combined	A-076		
pCi/L	TITLE 22 CALIFORNIA CODE OF REGULATIONS			
pCi/L	SECTION 64443 (22 CCR 64443)			
50 pCi/L	Gross Beta	03501		4.0
pCi/L	Gross Beta Counting Error	03502		
pCi/L	Gross Beta MDA95	A-077		
4 pCi/L	Gross Beta, Calculated Dose Equivalent *	A-071		
8 pCi/L	Strontium 90	13501		2.0
pCi/L	Strontium 90 Counting Error	13502		

pCi/L Strontium 90 MDA95	A-078		
20000 pCi/L Tritium	07000		1000
pCi/L Tritium Counting Error	07001		
pCi/L Tritium MDA95	A-079		
pCi/L			
	RADON		
pCi/L Radon 222	82303		100.0
pCi/L Radon 222 Counting Error	82302		
pCi/L			
pCi/L *MDA95 is Minimum Detectable Activity at			
pCi/L the 95% confidence level, per			
pCi/L 22 CCR 64442 and 64443.			
pCi/L			
pCi/L **Gross Beta, Calculated Total Body or			
pCi/L Organ Dose Equivalent, Per 22 CCR 64443			
pCi/L			

TRUESDAIL LABORATORIES, INC.

EXCELLENCE IN INDEPENDENT TESTING



Established 1931

ELAP Certificate No.: 1237

REPORT

14201 FRANKLIN AVENUE
TUSTIN, CALIFORNIA 92780-7008
(714) 730-6239 · FAX (714) 730-6462
www.truesdail.com

Client: **E.S. Babcock & Sons, Inc.**

6100 Quail Valley Court

Riverside, CA 92507

Attention: Lorenzo Rodriguez

Report Date: August 28, 2009

Date Received: August 21, 2009

Laboratory No: **985031**

Sample: Water

Project No: **A9H1790**

Investigation: **Gross Alpha Activity**

Analytical Results

Sample ID	Analysis	Method	Activity pCi/L	Two Sigma Error	MDA	Date Analyzed
A9H1790-01	Alpha	SM7110C	1.00	+/- 0.77	1.53	08/25/09

Gross Alpha results are based on a Uranium calibration curve.

QC Results

Batch ID	Analysis	Method	Activity pCi/L	Two Sigma Error	True Value	Recovery %
09C-08-K	Alpha	SM7110C	27.6	+/- 3.02	29.2	95



Respectfully submitted,
TRUESDAIL LABORATORIES, INC.

Rossina Tomova, Project Manager
Radiochemistry Group

This report applies only to the sample, or samples, investigated and is not necessarily indicative of the quality or condition of apparently identical or similar products. As a mutual protection to clients, the public, and these laboratories, this report is submitted and accepted for the exclusive use of the client to whom it is addressed and upon the condition that it is not to be used, in whole or in part, in any advertising or publicity matter without prior written authorization from Truesdail Laboratories.

131858

SUBCONTRACT ORDER

E.S. Babcock & Sons, Inc.

A9H1790

SENDING LABORATORY:

E.S. Babcock & Sons, Inc.
P.O. Box 432
Pasadena, CA 92502-0432
Phone: (951) 653-3351
Fax: (951) 653-1662
Project Manager: Lorenzo (Z) Rodriguez

RECEIVING LABORATORY:

EMS Laboratories
117 W. Bellevue Drive
Pasadena, CA 91105
Phone: (626) 568-4065
Fax: (626) 796-5282

NOTE FORM - ~~EDT~~ Exception

System Name: Hi-Desert Water District
Sampler: Steve Schwab
Sampler Employed By: Hi-Desert Water District

Analysis	Due	Expires Regulatory Days Past Date Sampled	Laboratory ID	Comments
Sample ID: A9H1790-01	Water	Sampled: 08/13/09 10:15	Recharge Site #3	Proj. No.: Recharge Site #
Containers	09/11/09 17:00	02/09/10 10:15		
Containers Supplied: Start Poly - Unpres (B)				

All Containers Intact: Yes ___ No ___ Samples Preserved Properly: Yes ___ No ___

Samples Received at WOC Sample Labels / COC Agree: Yes ___ No ___ Custody Seals Present: Yes ___ No ___

Knowledge of sample receipt is requested. Please reply to sl6zon@babcocklabs.com or Fax to 951-653-1662. Thank You.

Sent By: Lorenzo Rodriguez Date: 8-19-09
 Received By: Margaret Quigg Date: 8/20/09 10:15

Sent By _____ Date _____ Received By _____ Date _____

DATE: August 28, 2009
CUSTOMER: EDWARD S. BABCOCK & SONS, INC.
P.O. BOX 432
RIVERSIDE, CA 92502-0432
ATTENTION: Lorenzo Z Rodriguez
REFERENCE: A9H1790
REPORT NO: 131858
SUBJECT: ANALYSIS OF WATER SAMPLE FOR ASBESTOS BY TEM
ACCREDITED: California Department of Health Services (ELAP-1119)

The water was UV ozone treated to remove any microbial contamination as prescribed by the method since the sample arrived after the 48-hour holding time.

The date and time of collection, receipt, ozonation, filtration, and analysis are as follows:

SAMPLE NO: A9H1790-01
COLLECTED: 8/13/09 at 1015
RECEIVED: 8/20/09 at 1215
OZONATED: 8/20/09 at 1230-1530
FILTERED: 8/20/09 at 1518
ANALYZED: 8/26/09

The sample was analyzed for fibers $>10 \mu\text{m}$ in length to conform with the drinking water document, EPA 600/94/134, 100.2. This regulation calls for an MCL (maximum contaminant level) of 7 MFL and an analytical sensitivity level of 0.2 MFL.

Nine additional grid openings were analyzed to reach the analytical sensitivity of 0.2 MFL.

The results of the analysis and the detection limit are summarized on the following pages.

Respectfully submitted,
EMS LABORATORIES, INC.


B. M. Kolk
Laboratory Director

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NOTE: The results of the analysis are based upon the samples submitted to the laboratory. No representation is made regarding the sampling area other than that implied by the analytical results for the immediate vicinity of the samples analyzed as calculated from the data presented with those samples.

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Any deviation or exclusion from the test method is noted in this cover letter.

Unless otherwise noted in this cover letter, the samples were received properly packaged, clearly identified and intact.