



P.O. BOX 248, 1186 LOWER RIVER ROAD, NW
CHARLESTON, TN. 37310-0248

VIA: E-MAIL and US MAIL

July 6, 2005

Mr. David Athey, PE
California Regional Water Quality Control Board
Central Coast Region
895 Aerovista Place, Suite 101
San Luis Obispo, California 93401-5411

**Subject: Domestic Ion Exchange System Effectiveness
Morgan Hill, California**

Dear Mr. Athey:

Attached are the perchlorate analytical results from the domestic ion exchange (IX) systems recently installed on four domestic wells in the Morgan Hill/San Martin area. Groundwater, lead tank treatment, and lag tank treatment samples were obtained from the IX systems to determine the system's effectiveness in removing perchlorate from groundwater.

In all cases, the IX systems removed perchlorate to ND from water provided to the well owner and/or user. The results are summarized below:

IX System	Well ID	Sample Date	Groundwater	IX Lead Treatment	IX Lag Treatment	Units
U Save	09S03E34C003	6/9/2005	84	ND	ND	ug/L
U Save	09S03E34C003	6/17/2005	90	ND	ND	ug/L
G	09S03E34C002	6/9/2005	76	ND	ND	ug/L
G	09S03E34C002	6/17/2005	72	ND	ND	ug/L
M	09S03E34R007	6/9/2005	6.1	ND	ND	ug/L
M	09S03E34R007	6/17/2005	6.7	ND	ND	ug/L
U	09S03E34G001	6/9/2005	49	5.2/6.4	ND	ug/L
U	09S03E34G001	6/17/2005	47	8.4/10	ND	ug/L

Sequoia Analytical utilized EPA analytical method 314.0 for perchlorate analysis, which has a practical quantitation limit of 4 ppb. Non-detect (ND) indicate that no perchlorate was detected at or above 2.0 ppb.

A resin exchange has been requested for the IX system on well 09S03E34G001. Olin continues to provide bottled water for drinking and cooking use for each well.

Mr. David Athey
Domestic Ion Exchange System Effectiveness
July 6, 2005

If there are any questions, please do not hesitate to call.

Sincerely,

OLIN CORPORATION



Richard W. McClure, P.G., REM
Environmental Remediation Group

/ATTACHMENT

/cc (via e-mail):

Mr. Doug Gillen, US Filter
Mr. Eric Gobler, Central Coast RWQCB
Ms. Sylvia Hamilton, PCAG Chair
Mr. Thomas Mohr, Santa Clara Valley Water District
Mr. Curt Richards, Olin
Mr. Donald Smallbeck, MACTEC
Ms. Beverly Vessa, Olin/Standard Fusee Repository



**Sequoia
Analytical**

885 Jarvis Drive
Morgan Hill, CA 95037
(408) 776-9600
FAX (408) 782-6308
www.sequoialabs.com

27 June, 2005

Don Smallbeck
MACTEC Engineering & Consulting
200 Citadel Dr.
Los Angeles, CA 90040

RE: Olin
Work Order: MOF0306

Enclosed are the results of analyses for samples received by the laboratory on 06/09/05 17:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Lisa Race
Senior Project Manager

CA ELAP Certificate #1210

Page 1 of 5

Olin/Daniels
015915



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Morgan Hill, CA 95037
(408) 776-9600
FAX (408) 782-6308
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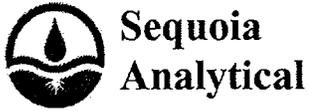
MACTEC Engineering & Consulting
200 Citadel Dr.
Los Angeles CA, 90040

Project: Olin
Project Number: USAVE
Project Manager: Don Smallbeck

MOF0306
Reported:
06/27/05 17:18

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
USA VE INFLUENT	MOF0306-01	Water	06/09/05 15:15	06/09/05 17:00
USA VE LEAD EFFLUENT	MOF0306-02	Water	06/09/05 15:17	06/09/05 17:00
USA VE LAG EFFLUENT	MOF0306-03	Water	06/09/05 15:19	06/09/05 17:00



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 Morgan Hill, CA 95037
 (408) 776-9600
 FAX (408) 782-6308
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MACTEC Engineering & Consulting 200 Citadel Dr. Los Angeles CA, 90040	Project: Olin Project Number: USAVE Project Manager: Don Smallbeck	MOF0306 Reported: 06/27/05 17:18
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Perchlorate by EPA 314.0
Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
USAVE INFLUENT (MOF0306-01) Water Sampled: 06/09/05 15:15 Received: 06/09/05 17:00									
Perchlorate	84	16	ug/l	4	5F13003	06/10/05	06/10/05	EPA 314.0	
USAVE LEAD EFFLUENT (MOF0306-02) Water Sampled: 06/09/05 15:17 Received: 06/09/05 17:00									
Perchlorate	ND	4.0	ug/l	1	5F13003	06/10/05	06/10/05	EPA 314.0	
USAVE LAG EFFLUENT (MOF0306-03) Water Sampled: 06/09/05 15:19 Received: 06/09/05 17:00									
Perchlorate	ND	4.0	ug/l	1	5F13003	06/10/05	06/10/05	EPA 314.0	



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 200 Citadel Dr.
 Los Angeles CA, 90040

Project: Olin
 Project Number: USAVE
 Project Manager: Don Smallbeck

MOF0306
 Reported:
 06/27/05 17:18

**Perchlorate by EPA 314.0 - Quality Control
 Sequoia Analytical - Morgan Hill**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5F13003 - General Preparation										
Blank (5F13003-BLK1)										
Perchlorate	ND	4.0	ug/l							Prepared & Analyzed: 06/10/05
Laboratory Control Sample (5F13003-BS1)										
Perchlorate	24.0	4.0	ug/l	25.0		96	85-115			Prepared & Analyzed: 06/10/05
Matrix Spike (5F13003-MS1)										
Perchlorate	116	16	ug/l	25.0	84	128	80-120			Prepared & Analyzed: 06/10/05 QM01
Matrix Spike Dup (5F13003-MSD1)										
Perchlorate	107	16	ug/l	25.0	84	92	80-120	8	15	Prepared & Analyzed: 06/10/05



MACTEC Engineering & Consulting
200 Citadel Dr.
Los Angeles CA, 90040

Project: Olin
Project Number: USAVE
Project Manager: Don Smallbeck

MOF0306
Reported:
06/27/05 17:18

Notes and Definitions

- QM01 The spike recovery was above control limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above 1/2 the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference
- MDL The statistically derived MDL (minimum detection limit) for Perchlorate is 1.4 ug/l in water and 2.0 ug/kg in soil.
- PQL Practical Quantitation Limit, regulatory based terminology often cited in defining data quality objectives. The PQL is the same as the Reporting Limit for the analysis.



SEQUOIA ANALYTICAL CHAIN OF CUSTODY

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 404 N. Wiget Lane • Walnut Creek, CA 94598 • (925) 988-9600 • FAX (925) 988-9673

Company Name: MACTEC ENGINEERING & CONSULTING
 Mailing Address: 5341 OLD REDWOOD HIGH
 City: PETALUMA State: CA Zip Code: 94954
 Telephone: (707) 793-3800 Fax #: (707) 793-3800
 Report To: ~~BITTNER~~ ~~BYRNE~~ ~~BYRNE~~ E-mail Address: P.O. #: 6300050012-01
 Sampler: A. M/G Date / Time Results Required: QC Data: Level II (standard) Level III Level IV
 Project: CHINISTANDARD USEE ~~QUILITATION~~ ~~CONFIDENTIAL~~
 Billing Address (if different): Sequoia's Work Order # 1105-0506

Turnaround 10-15 Working Days 72 Hours
 Time: (Standard TAT) 48 Hours
 7 Working Days 24 Hours
 5 Working Days 2-8 Hours
 MANDATORY: SDWA (Drinking Water)
 CWA (Waste Water)
 RCRA (Hazardous Waste)
 Other

Client Sample I.D.	Date / Time Sampled	Matrix Desc.	# of Cont.	Container Type	Sequoia's Sample #	Comments/Temp. (if required)
1. INFLUENT	6/9/05 1515	H ₂ O	1	500ml Poly	✓	PERCHLORATE (314) ANALYSES REQUESTED (Please provide method)
2. EFFLUENT	6/9/05 1517				✓	
3. EFFLUENT	6/9/05 1519				✓	
4.						
5.						
6.						
7.						
8.						
9.						
10.						

Relinquished by / Co.: ~~MACTEC~~ Received by / Co.: ~~AWP~~ Date / Time / Temp.: 6/9/05 9:15 AM
 Relinquished by / Co.: _____ Received by / Co.: _____ Date / Time / Temp.: _____
 Relinquished by / Co.: _____ Received by / Co.: _____ Date / Time / Temp.: _____
 Were Samples Received in Good Condition? Yes No Samples on Ice? Yes No Method of Shipment: CLIENT Page ___ of ___

SEQUOIA ANALYTICAL SAMPLE RECEIPT LOG

CLIENT NAME: MCTEC
 REC. BY (PRINT): EB
 WORKORDER: _____

DATE RECD AT LAB: 4-9-05
 TIME RECD AT LAB: 1730
 DATE LOGGED IN: _____

For Regulatory Purposes?
 DRINKING WATER YES/NO
 WASTE WATER YES/NO

(For clients requiring preservation checks at receipt, document here ↓)

CIRCLE THE APPROPRIATE RESPONSE

LAB SAMPLE #	DASH #	CLIENT ID	CONTAINER DESCRIPTION	PRESERVATIVE	pH	SAMPLE MATRIX	DATE SAMPLED	REMARKS: CONDITION (ETC.)
		NSAIVE 2110	1/2 poly	L	-	L	4-9-05	
		USA D 54	L	L	-	L		
		Log 2/4						
 9-9-05 10/24 								

1. Custody Seal(s) Present / Absent
 Intact / Broken*
2. Chain-of-Custody Present / Absent*
3. Traffic Reports or Packing List: Present / Absent
 Airbill / Sticker
 Present / Absent
4. Airbill: Present / Absent
5. Airbill #: _____
6. Sample Labels: Present / Absent
 Listed / Not Listed
 on Chain-of-Custody
7. Sample IDs: Intact / Broken* / Leaking*
8. Sample Condition: Intact / Broken* / Leaking*
9. Does information on chain-of-custody, traffic reports and sample labels agree? Yes / No*
10. Sample received within hold time? Yes / No*
11. Adequate sample volume received? Yes / No*
12. Proper Preservatives used? Yes / No*
13. Trip Blank / Temp Blank Received? Yes / No*
(circle which, if yes)
14. Temp Rec. at Lab: 4/-/1
 Is temp 4 +/- 2°C? Yes / No*

(Acceptance ranges for samples requiring thermal pres.)
 **Exception (if any): METALS / DEPNONICE
 or Problem COC.

*IF CIRCLED, CONTACT PROJECT MANAGER AND ATTACH RECORD OF RESOLUTION



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Analytical**

885 Jarvis Drive
Morgan Hill, CA 95037
(408) 776-9600
FAX (408) 782-6308
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27 June, 2005

Don Smallbeck
MACTEC Engineering & Consulting
200 Citadel Dr.
Los Angeles, CA 90040

RE: Olin
Work Order: MOF0307

Enclosed are the results of analyses for samples received by the laboratory on 06/09/05 17:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

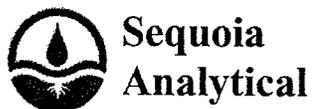
Lisa Race
Senior Project Manager

CA ELAP Certificate #1210

Page 1 of 5

Olin/Daniels
015922

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Morgan Hill, CA 95037
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FAX (408) 782-6308
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MACTEC Engineering & Consulting
200 Citadel Dr.
Los Angeles CA, 90040

Project: Olin
Project Number: G O
Project Manager: Don Smallbeck

MOF0307
Reported:
06/27/05 17:19

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
G O INFLUENT	MOF0307-01	Water	06/09/05 15:30	06/09/05 17:00
G O LEAD EFFLUENT	MOF0307-02	Water	06/09/05 15:32	06/09/05 17:00
G O LAG EFFLUENT	MOF0307-03	Water	06/09/05 15:34	06/09/05 17:00



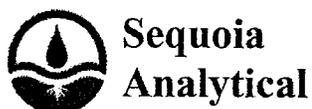
MACTEC Engineering & Consulting
200 Citadel Dr.
Los Angeles CA, 90040

Project: Olin
Project Number: G O
Project Manager: Don Smallbeck

MOF0307
Reported:
06/27/05 17:19

Perchlorate by EPA 314.0
Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
G O INFLUENT (MOF0307-01) Water Sampled: 06/09/05 15:30 Received: 06/09/05 17:00									
Perchlorate	76	8.0	ug/l	2	5F13003	06/10/05	06/10/05	EPA 314.0	
G O LEAD EFFLUENT (MOF0307-02) Water Sampled: 06/09/05 15:32 Received: 06/09/05 17:00									
Perchlorate	ND	4.0	ug/l	1	5F13003	06/10/05	06/10/05	EPA 314.0	
G O LAG EFFLUENT (MOF0307-03) Water Sampled: 06/09/05 15:34 Received: 06/09/05 17:00									
Perchlorate	ND	4.0	ug/l	1	5F13003	06/10/05	06/10/05	EPA 314.0	



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MACTEC Engineering & Consulting 200 Citadel Dr. Los Angeles CA, 90040	Project: Olin Project Number: G O Project Manager: Don Smallbeck	MOF0307 Reported: 06/27/05 17:19
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**Perchlorate by EPA 314.0 - Quality Control
 Sequoia Analytical - Morgan Hill**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5F13003 - General Preparation										
Blank (5F13003-BLK1)				Prepared & Analyzed: 06/10/05						
Perchlorate	ND	4.0	ug/l							
Laboratory Control Sample (5F13003-BS1)				Prepared & Analyzed: 06/10/05						
Perchlorate	24.0	4.0	ug/l	25.0		96	85-115			
Matrix Spike (5F13003-MS1)				Source: MOF0306-01 Prepared & Analyzed: 06/10/05						
Perchlorate	116	16	ug/l	25.0	84	128	80-120			QM01
Matrix Spike Dup (5F13003-MSD1)				Source: MOF0306-01 Prepared & Analyzed: 06/10/05						
Perchlorate	107	16	ug/l	25.0	84	92	80-120	8	15	



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MACTEC Engineering & Consulting
200 Citadel Dr.
Los Angeles CA, 90040

Project: Olin
Project Number: G O
Project Manager: Don Smallbeck

MOF0307
Reported:
06/27/05 17:19

Notes and Definitions

- QM01 The spike recovery was above control limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above 1/2 the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference
- MDL The statistically derived MDL (minimum detection limit) for Perchlorate is 1.4 ug/l in water and 2.0 ug/kg in soil.
- PQL Practical Quantitation Limit, regulatory based terminology often cited in defining data quality objectives. The PQL is the same as the Reporting Limit for the analysis.



**SEQUOIA ANALYTICAL
CHAIN OF CUSTODY**

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- 819 Striker Ave., Suite 8 • Sacramento, CA 95834 • (916) 921-9600 • FAX (916) 921-0100
- 404 N. Wiget Lane • Walnut Creek, CA 94598 • (925) 988-9600 • FAX (925) 988-9673

Company Name: MACTEC ENGINEERING & CONSULTING
 Mailing Address: 5341 OLD REDWOOD HIGH
 City: PETALUMA State: CA Zip Code: 94954
 Telephone: (707) 793-3800 Fax #: (707) 793-3800
 Report To: ~~Bill Gerrits~~ **SWANBERG** E-mail Address:
 Sampler: **A. AUG** Date / Time Results Required:
 Project: **OLIN/STANBARD FUGEE** **OWN LITIGATION SUPPORT/CONFIDENTIAL**
 Billing Address (if different):

Turnaround 10-15 Working Days 72 Hours
 Time: Standard (TAT) 48 Hours
 7 Working Days 24 Hours
 5 Working Days 2-8 Hours
 MANDATORY: SDWA (Drinking Water) CWA (Waste Water) RCRA (Hazardous Waste) Other
 ANALYSES REQUESTED (Please provide method):
 P.O. # **630005012-01**
 QC Data: Level II (standard) Level III Level IV
 Sequoia's Work Order # **112 F0309**

Client Sample I.D.	Date / Time Sampled	Matrix Desc.	# of Cont.	Container Type	Sequoia's Sample #	Perchlorate (3/4)	Analyses Requested (Please provide method)	Comment/Temp. (if required)
1. WFLUBERT	6/9/05 1530	H ₂ O	1	500ml Poly				
2. WFLUBERT	6/9/05 1532							
3. WFLUBERT	6/9/05 1534							
4.								
5.								
6.								
7.								
8.								
9.								
10.								

Relinquished by / Co.: *Michael H. Moore* Received by / Co.: *SWANBERG* Date / Time / Temp.: *6/9/05 1531*
 Relinquished by / Co.: _____ Received by / Co.: _____ Date / Time / Temp.: _____
 Relinquished by / Co.: _____ Received by / Co.: _____ Date / Time / Temp.: _____
 Relinquished by / Co.: _____ Received by / Co.: _____ Date / Time / Temp.: _____

Were Samples Received in Good Condition? Yes No Samples on Ice? Yes No Method of Shipment: CLIENT Page ____ of ____

REDACTED

SEQUOIA ANALYTICAL SAMPLE RECEIPT LOG

CLIENT NAME: MCTEC
REC. BY (PRINT): EB
WORKORDER: _____

DATE RECD AT LAB: 6-9-05
TIME RECD AT LAB: 1700
DATE LOGGED IN: _____

For Regulatory Purposes?
DRINKING WATER YES/NO
WASTE WATER YES/NO

(For clients requiring preservation checks at receipt, document here ↓)

CIRCLE THE APPROPRIATE RESPONSE	LAB SAMPLE #	DASH #	CLIENT ID	CONTAINER DESCRIPTION	PRESERV ACTIVE	pH	SAMPLE MATRIX	DATE SAMPLED	REMARKS: CONDITION (ETC.)
1. Custody Seal(s) Present / Absent Intact / Broken*			<u>6-9-05</u>	<u>1/2 poly</u>	<u>L</u>	<u>-</u>	<u>L</u>	<u>6-9-05</u>	
2. Chain-of-Custody Present / Absent*			<u>Lab Eff</u>		<u>L</u>		<u>L</u>		
3. Traffic Reports or Packing List: Present / Absent			<u>Lab Eff</u>		<u>L</u>		<u>L</u>		
4. Airbill: Airbill / Sticker Present / Absent									
5. Airbill #:									
6. Sample Labels: Present / Absent Listed / Not Listed on Chain-of-Custody									
7. Sample IDs:									
8. Sample Condition: Intact / Broken* / Leaking*									
9. Does information on chain-of-custody, traffic reports and sample labels agree? Yes / No*									
10. Sample received within hold time? Yes / No*									
11. Adequate sample volume received? Yes / No*									
12. Proper Preservatives used? Yes / No*									
13. Trip Blank / Temp Blank Received? (Circle which, if yes) Yes / No*									
14. Temp Rec. at Lab: Is temp 4 +/- 2°C? Yes / No*									

**Exception (if any): METALS / BEYOND ICE
or Problem COC.

IF CIRCLED, CONTACT PROJECT MANAGER AND ATTACH RECORD OF RESOLUTION.



**Sequoia
Analytical**

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27 June, 2005

Don Smallbeck
MACTEC Engineering & Consulting
200 Citadel Dr.
Los Angeles, CA 90040

RE: Olin
Work Order: MOF0308

Enclosed are the results of analyses for samples received by the laboratory on 06/09/05 17:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Lisa Race
Senior Project Manager

CA ELAP Certificate #1210

Page 1 of 5

Olin/Daniels
015929



MACTEC Engineering & Consulting
200 Citadel Dr.
Los Angeles CA, 90040

Project: Olin
Project Number: M A
Project Manager: Don Smallbeck

MOF0308
Reported:
06/27/05 17:21

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
N A INFLUENT	MOF0308-01	Water	06/09/05 16:10	06/09/05 17:00
M A LEAD EFFLUENT	MOF0308-02	Water	06/09/05 16:12	06/09/05 17:00
M A LAG EFFLUENT	MOF0308-03	Water	06/09/05 16:14	06/09/05 17:00



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 www.sequoialabs.com

MACTEC Engineering & Consulting 200 Citadel Dr. Los Angeles CA, 90040	Project: Olin Project Number: M A Project Manager: Don Smallbeck	MOF0308 Reported: 06/27/05 17:21
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Perchlorate by EPA 314.0
Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
M... A INFLUENT (MOF0308-01) Water Sampled: 06/09/05 16:10 Received: 06/09/05 17:00									
Perchlorate	6.1	4.0	ug/l	1	5F13003	06/10/05	06/10/05	EPA 314.0	
M... A LEAD EFFLUENT (MOF0308-02) Water Sampled: 06/09/05 16:12 Received: 06/09/05 17:00									
Perchlorate	ND	4.0	ug/l	1	5F13003	06/10/05	06/10/05	EPA 314.0	
M... A LAG EFFLUENT (MOF0308-03) Water Sampled: 06/09/05 16:14 Received: 06/09/05 17:00									
Perchlorate	ND	4.0	ug/l	1	5F13003	06/10/05	06/10/05	EPA 314.0	



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 Morgan Hill, CA 95037
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MACTEC Engineering & Consulting 200 Citadel Dr. Los Angeles CA, 90040	Project: Olin Project Number: M A Project Manager: Don Smallbeck	MOF0308 Reported: 06/27/05 17:21
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**Perchlorate by EPA 314.0 - Quality Control
 Sequoia Analytical - Morgan Hill**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5F13003 - General Preparation										
Blank (5F13003-BLK1)				Prepared & Analyzed: 06/10/05						
Perchlorate	ND	4.0	ug/l							
Laboratory Control Sample (5F13003-BS1)				Prepared & Analyzed: 06/10/05						
Perchlorate	24.0	4.0	ug/l	25.0		96	85-115			
Matrix Spike (5F13003-MS1)				Source: MOF0306-01 Prepared & Analyzed: 06/10/05						
Perchlorate	116	16	ug/l	25.0	84	128	80-120			QM01
Matrix Spike Dup (5F13003-MSD1)				Source: MOF0306-01 Prepared & Analyzed: 06/10/05						
Perchlorate	107	16	ug/l	25.0	84	92	80-120	8	15	



MACTEC Engineering & Consulting
200 Citadel Dr.
Los Angeles CA, 90040

Project: Olin
Project Number: M 3A
Project Manager: Don Smallbeck

MOF0308
Reported:
06/27/05 17:21

Notes and Definitions

- QM01 The spike recovery was above control limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above 1/2 the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference
- MDL The statistically derived MDL (minimum detection limit) for Perchlorate is 1.4 ug/l in water and 2.0 ug/kg in soil.
- PQL Practical Quantitation Limit, regulatory based terminology often cited in defining data quality objectives. The PQL is the same as the Reporting Limit for the analysis.

REDACTED



SEQUOIA ANALYTICAL
CHAIN OF CUSTODY

- 885 Jarvis Drive • Morgan Hill, CA 95037 • (408) 776-9600 • FAX (408) 782-6308
- 1455 N. McDowell Blvd, Suite D • Petaluma, CA 94954 • (707) 792-1865 • FAX (707) 792-0342
- 819 Striker Ave., Suite 8 • Sacramento, CA 95834 • (916) 921-9600 • FAX (916) 921-0100
- 404 N. Wiget Lane • Walnut Creek, CA 94598 • (925) 988-9600 • FAX (925) 988-9673

Company Name: MACTEC ENGINEERING & CONSULTING
 Mailing Address: 5341 OLD REDWOOD HIGH
 City: PETALUMA State: CA Zip Code: 94954
 Telephone: (707) 793-3800 Fax #: (707) 793-3800
 Report To: ~~BILL BRATIS~~ ^{MS} ~~MS~~ E-mail Address: P.O. #: ~~5500090814~~ ^{MS} ~~6300050012-01~~
 Sampler: A. AUG Date / Time Results Required: NOV 03 28 Sequoia's Work Order # NOV 03 28
 Turnaround 10-15 Working Days 72 Hours 48 Hours 24 Hours 2-8 Hours
 Time: Standard TAT 7 Working Days 2-8 Hours
 M&S 5 Working Days Other

MANDATORY: SDWA (Drinking Water) CWA (Waste Water) RCRA (Hazardous Waste) Other
 ANALYSES REQUESTED (Please provide method)
 PERCHLORATE (3/4)

Client Sample I.D.	Date / Time Sampled	Matrix Desc.	# of Cont.	Container Type	Sequoia's Sample #	Comments / Temp. (if required)
1. WATER	6/9/05 1612	H ₂ O	1	500ml Poly		
2. A LEAD	6/9/05 1612					
3. EFFLUENT	6/9/05 1614					
4.						
5.						
6.						
7.						
8.						
9.						
10.						

Relinquished by / Co.: Alfred A. Mactec Received by / Co.: MS Date / Time / Temp.: 6/9/05 @ 1400
 Relinquished by / Co.: _____ Received by / Co.: _____ Date / Time / Temp.: _____
 Relinquished by / Co.: _____ Received by / Co.: _____ Date / Time / Temp.: _____

Were Samples Received In Good Condition? Yes No Samples on Ice? Yes No Method of Shipment: CLIENT Page ___ of ___

REDACTED

SEQUOIA ANALYTICAL SAMPLE RECEIPT LOG

CLIENT NAME: Mktc
REC. BY (PRINT): EB
WORKORDER: _____

DATE REC'D AT LAB: 6-9-05
TIME REC'D AT LAB: 1700
DATE LOGGED IN: _____

(For clients requiring preservation checks at receipt, document here ↓)

For Regulatory Purposes?
DRINKING WATER YES/NO
WASTE WATER YES/NO

CIRCLE THE APPROPRIATE RESPONSE	LAB SAMPLE #	DASH #	CLIENT ID	CONTAINER DESCRIPTION	PRESERVATIVE	pH	SAMPLE MATRIX	DATE SAMPLED	REMARKS: CONDITION (ETC.)
1. Custody Seal(s) <u>Present / Absent</u> Intact / Broken*			<u>M-1111111</u>	<u>1/2 gal</u>	<u>2</u>	<u>-</u>	<u>2</u>	<u>6-9-05</u>	
2. Chain-of-Custody <u>Present / Absent*</u>			<u>M-1111111</u>						
3. Traffic Reports or Packing List: <u>Present / Absent</u>									
4. Airbill: <u>Airbill / Sticker</u> <u>Present / Absent</u>									
5. Airbill #:									
6. Sample Labels: <u>Present / Absent</u> <u>Listed / Not Listed</u> on Chain-of-Custody									
7. Sample IDs:									
8. Sample Condition: <u>Intact / Broken* /</u> <u>Leaking*</u>									
9. Does information on chain-of-custody, traffic reports and sample labels agree? <u>Yes / No*</u>									
10. Sample received within hold time? <u>Yes / No*</u>									
11. Adequate sample volume received? <u>Yes / No*</u>									
12. Proper Preservatives used? <u>Yes / No*</u>									
13. Trip Blank / Temp Blank Received? (circle which, if yes) <u>Yes / No*</u>									
14. Temp Req. at Lab: Is temp 4 +/- 2°C? <u>Yes / No*</u>									

*IF CIRCLED, CONTACT PROJECT MANAGER AND ATTACH RECORD OF RESOLUTION



**Sequoia
Analytical**

885 Jarvis Drive
Morgan Hill, CA 95037
(408) 776-9600
FAX (408) 782-6308
www.sequoialabs.com

27 June, 2005

Don Smallbeck
MACTEC Engineering & Consulting
200 Citadel Dr.
Los Angeles, CA 90040

RE: Olin
Work Order: MOF0309

Enclosed are the results of analyses for samples received by the laboratory on 06/09/05 17:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Lisa Race
Senior Project Manager

CA ELAP Certificate #1210

Page 1 of 5

Olin/Daniels
015936



MACTEC Engineering & Consulting
200 Citadel Dr.
Los Angeles CA, 90040

Project: Olin
Project Number: U-1
Project Manager: Don Smallbeck

MOF0309
Reported:
06/27/05 17:22

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
U-1 INFLUENT 1	MOF0309-01	Water	06/09/05 15:48	06/09/05 17:00
U-1 LAG EFFLUENT COMBINED	MOF0309-02	Water	06/09/05 15:54	06/09/05 17:00
U-1 LEAD EFFLUENT 1	MOF0309-03	Water	06/09/05 15:50	06/09/05 17:00
U-1 LEAD EFFLUENT 2	MOF0309-04	Water	06/09/05 15:52	06/09/05 17:00



REDACTED

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 FAX (408) 782-6308
 www.sequoialabs.com

MACTEC Engineering & Consulting 200 Citadel Dr. Los Angeles CA, 90040	Project: Olin Project Number: U I Project Manager: Don Smallbeck	MOF0309 Reported: 06/27/05 17:22
---	--	--

Perchlorate by EPA 314.0
Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
U I INFLUENT 1 (MOF0309-01) Water Sampled: 06/09/05 15:48 Received: 06/09/05 17:00									
Perchlorate	49	4.0	ug/l	1	5F13003	06/10/05	06/10/05	EPA 314.0	
U I LAG EFFLUENT COMBINED (MOF0309-02) Water Sampled: 06/09/05 15:54 Received: 06/09/05 17:00									
Perchlorate	ND	4.0	ug/l	1	5F13003	06/10/05	06/10/05	EPA 314.0	
U I LEAD EFFLUENT 1 (MOF0309-03) Water Sampled: 06/09/05 15:50 Received: 06/09/05 17:00									
Perchlorate	5.2	4.0	ug/l	1	5F13003	06/10/05	06/10/05	EPA 314.0	
U I LEAD EFFLUENT 2 (MOF0309-04) Water Sampled: 06/09/05 15:52 Received: 06/09/05 17:00									
Perchlorate	6.4	4.0	ug/l	1	5F13003	06/10/05	06/10/05	EPA 314.0	



REDACTED

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 www.sequoialabs.com

MACTEC Engineering & Consulting 200 Citadel Dr. Los Angeles CA, 90040	Project: Olin Project Number: U I Project Manager: Don Smallbeck	MOF0309 Reported: 06/27/05 17:22
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**Perchlorate by EPA 314.0 - Quality Control
 Sequoia Analytical - Morgan Hill**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5F13003 - General Preparation										
Blank (5F13003-BLK1)				Prepared & Analyzed: 06/10/05						
Perchlorate	ND	4.0	ug/l							
Laboratory Control Sample (5F13003-BS1)				Prepared & Analyzed: 06/10/05						
Perchlorate	24.0	4.0	ug/l	25.0		96	85-115			
Matrix Spike (5F13003-MS1)				Source: MOF0306-01 Prepared & Analyzed: 06/10/05						
Perchlorate	116	16	ug/l	25.0	84	128	80-120			QM01
Matrix Spike Dup (5F13003-MSD1)				Source: MOF0306-01 Prepared & Analyzed: 06/10/05						
Perchlorate	107	16	ug/l	25.0	84	92	80-120	8	15	



MACTEC Engineering & Consulting
200 Citadel Dr.
Los Angeles CA, 90040

Project: Olin
Project Number: U I
Project Manager: Don Smallbeck

MOF0309
Reported:
06/27/05 17:22

Notes and Definitions

- QM01 The spike recovery was above control limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above 1/2 the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference
- MDL The statistically derived MDL (minimum detection limit) for Perchlorate is 1.4 ug/l in water and 2.0 ug/kg in soil.
- PQL Practical Quantitation Limit, regulatory based terminology often cited in defining data quality objectives. The PQL is the same as the Reporting Limit for the analysis.

REDACTED



SEQUOIA ANALYTICAL CHAIN OF CUSTODY

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 819 Shaker Ave, Suite 8 • Sacramento, CA 95834 • (916) 921-9500 • FAX (916) 921-50100
 409 N. Wigwag Lane • Walnut Creek, CA 94598 • (925) 988-9600 • FAX (925) 988-9675

Company Name: MAGTECH ENGINEERING & CONSULTING
 Billing Address (if different):
 Billing Address: 6341 Old Redwood High
 State: CA Zip Code: 94954
 Project: OBI/STANDARD/HOUSE #11, CIVIL DIVISION/STANISVASKI/STANISVASKI

City: PETALUMA
 Telephone: (707) 793-3800 Fax #: (707) 793-3800 P.O. #: 660009001644 • 6300050012 • 01
 Reporting Office: OBI/STANISVASKI/STANISVASKI Email Address: QC Data: Level I (Standard) Level III Level IV

Sampler: 1/1/02 Date/Time Results Required: 24 Hours 48 Hours 72 Hours
 Turnpoint: 10:15 Working Days 24 Hours 24 Hours
 Times: (Standard) (Working Days) (24 Hours)
 Missed: (Working Days) (24 Hours)

Mandatory: SDWA (Drinking Water) CWA (Waste Water) RCRA (Hazardous Waste) Other

MANDATORY: SDWA (Drinking Water) CWA (Waste Water) RCRA (Hazardous Waste) Other

ANALYSES REQUESTED (Please provide method):
 Sequoia's Work Order # 11010509

Client Sample ID	Date/Time Sampled	Matrix Desc.	# of Cont.	Container Type	Sequoia's Sample #	Comments (if required)
1	6/10/02 15:28	H ₂ O	1	600ml Poly		
2	6/10/02 15:54	H ₂ O	1	600ml Poly		
3	6/10/02 15:50	H ₂ O	1	600ml Poly		
4	6/10/02 15:52	H ₂ O	1	600ml Poly		
5	6/10/02 15:52	H ₂ O	1	600ml Poly		
6						
7						
8						
9						
10						

Received by: [Signature] Date/Time/Temp: 6/10/02 15:52
 Received by: [Signature] Date/Time/Temp: 6/10/02 15:52

Were Samples Received in Good Condition? Yes No Samples on Ice? Yes No Method of Shipment: CLIENT
 White: Sequoia Yellow: Sequoia Pink: Client



SEQUOIA ANALYTICAL CHAIN OF CUSTODY

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- 819 Striker Ave., Suite 8 • Sacramento, CA 95834 • (916) 921-9600 • FAX (916) 921-0100
- 404 N. Wiget Lane • Walnut Creek, CA 94598 • (925) 988-9600 • FAX (925) 988-9673

REDACTED

Company Name: MACTEC ENGINEERING & CONSULTING
 Mailing Address: 5341 OLD REDWOOD HIGH
 Project: ~~ELNORTHAMBARDFUSEE~~ *OLYMPIC LITHIUM SUPPORT/ANALYSIS*

City: PETALUMA State: CA Zip Code: 94954
 Billing Address (if different):
 Telephone: (707) 793-3800 Fax #: (707) 793-3800
 P.O. #: ~~6300050012-01~~ *MS4*

Report To: ~~BILL BRATTON~~ *D. SIMURK* E-mail Address:
 QC Data: Level II (standard) Level III Level IV
 Sampler: *AAWG* Date / Time Results Required:
 Sequoia's Work Order # *1210309*

Turnaround 10-15 Working Days 72 Hours
 Time: (Standard TAT) 48 Hours
 7 Working Days 24 Hours
 5 Working Days 2-8 Hours
 MANDATORY: SDWA (Drinking Water) CWA (Waste Water) RCRA (Hazardous Waste) Other

Client Sample I.D.	Date / Time Sampled	Matrix Desc.	# of Cont.	Container Type	Sequoia's Sample #	Comments / Temp. (if required)
<i>1 LAGS</i>	<i>6/9/05 15:48</i>	<i>H₂O</i>	<i>1</i>	<i>500ml Poly</i>	<i>✓</i>	<i>PERCHLORATE (314)</i>
<i>2 APPURTAMENT</i>	<i>6/9/05 15:54</i>				<i>✓</i>	
<i>3 APPURTAMENT 1</i>	<i>6/9/05 15:50</i>				<i>✓</i>	
<i>4 APPURTAMENT 2</i>	<i>6/9/05 15:52</i>				<i>✓</i>	
5.						
6.						
7.						
8.						
9.						
10.						

Relinquished by / Co.: *MACTEC* Received by / Co.: *MS4* Date / Time / Temp.: *6/9/05 15:00*
 Relinquished by / Co.: *MACTEC* Received by / Co.: *MS4* Date / Time / Temp.:
 Relinquished by / Co.: Received by / Co.: Date / Time / Temp.:
 Relinquished by / Co.: Received by / Co.: Date / Time / Temp.:

Were Samples Received in Good Condition? Yes No Samples on Ice? Yes No Method of Shipment: CLIENT Page ___ of ___

REDACTED

SEQUOIA ANALYTICAL SAMPLE RECEIPT LOG

CLIENT NAME: MCCRE
REC. BY (PRINT): EP
WORKORDER: _____

DATE REC'D AT LAB: 4-9-05
TIME REC'D AT LAB: 12:00
DATE LOGGED IN: _____

(For clients requiring preservation checks at receipt, document here)

For Regulatory Purposes?
DRINKING WATER (YES) NO
WASTE WATER YES (NO)

CIRCLE THE APPROPRIATE RESPONSE	LAB SAMPLE #	DASH #	CLIENT ID	CONTAINER DESCRIPTION	PRESERV ACTIVE	PH	SAMPLE MATRIX	DATE SAMPLED	REMARKS: CONDITION (ETC.)
1. Custody Seal(s) Present / Absent Intact / Broken*									
2. Chain-of-Custody Present / Absent*									
3. Traffic Reports or Packing List: Present / Absent									
4. Airbill: Airbill / Sticker Present / Absent									
5. Airbill #:									
6. Sample Labels: Present / Absent Listed / Not Listed									
7. Sample IDs: Present / Absent									
8. Sample Condition: Intact / Broken* / Leaking*									
9. Does information on chain-of-custody, traffic reports and sample labels agree? Yes / No*									
10. Sample received within hold time? Yes / No*									
11. Adequate sample volume received? Yes / No*									
12. Proper Preservatives used? Yes / No*									
13. Trip Blank / Temp Blank Received? (Circle which, if yes) Yes / No*									
14. Temp Rec. at Lab: Is temp 4 +/- 2°C? (Acceptance range for samples requiring thermal pres.) **Exception (if any): METALS / DFF ON ICE or Problem COC									

*IF CIRCLED, CONTACT PROJECT MANAGER AND ATTACH RECORD OF RESOLUTION.



**Sequoia
Analytical**

885 Jarvis Drive
Morgan Hill, CA 95037
(408) 776-9600
FAX (408) 782-6308
www.sequoialabs.com

27 June, 2005

Don Smallbeck
MACTEC Engineering & Consulting
200 Citadel Dr.
Los Angeles, CA 90040

RE: Olin
Work Order: MOF0575

Enclosed are the results of analyses for samples received by the laboratory on 06/17/05 13:10. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Lisa Race
Senior Project Manager

CA ELAP Certificate #1210

Page 1 of 5

Olin/Daniels
015944



MACTEC Engineering & Consulting 200 Citadel Dr. Los Angeles CA, 90040	Project: Olin Project Number: USAVE Project Manager: Don Smallbeck	MOF0575 Reported: 06/27/05 17:23
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ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
USAVE INFLUENT	MOF0575-01	Water	06/17/05 08:30	06/17/05 13:10
USAVE LEAD EFFLUENT	MOF0575-02	Water	06/17/05 08:32	06/17/05 13:10
USAVE LAG EFFLUENT	MOF0575-03	Water	06/17/05 08:37	06/17/05 13:10



MACTEC Engineering & Consulting
200 Citadel Dr.
Los Angeles CA, 90040

Project: Olin
Project Number: USAVE
Project Manager: Don Smallbeck

MOF0575
Reported:
06/27/05 17:23

Perchlorate by EPA 314.0
Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
USAVE INFLUENT (MOF0575-01) Water Sampled: 06/17/05 08:30 Received: 06/17/05 13:10									
Perchlorate	90	16	ug/l	4	5F20032	06/20/05	06/20/05	EPA 314.0	
USAVE LEAD EFFLUENT (MOF0575-02) Water Sampled: 06/17/05 08:32 Received: 06/17/05 13:10									
Perchlorate	ND	4.0	ug/l	1	5F20032	06/20/05	06/20/05	EPA 314.0	
USAVE LAG EFFLUENT (MOF0575-03) Water Sampled: 06/17/05 08:37 Received: 06/17/05 13:10									
Perchlorate	ND	4.0	ug/l	1	5F20032	06/20/05	06/20/05	EPA 314.0	



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 www.sequoialabs.com

MACTEC Engineering & Consulting
 200 Citadel Dr.
 Los Angeles CA, 90040

Project: Olin
 Project Number: USAVE
 Project Manager: Don Smallbeck

MOF0575
 Reported:
 06/27/05 17:23

Perchlorate by EPA 314.0 - Quality Control
Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5F20032 - General Preparation										
Blank (5F20032-BLK1)				Prepared & Analyzed: 06/20/05						
Perchlorate	ND	4.0	ug/l							
Laboratory Control Sample (5F20032-BS1)				Prepared & Analyzed: 06/20/05						
Perchlorate	25.9	4.0	ug/l	25.0		104	85-115			
Matrix Spike (5F20032-MS1)				Source: MOF0575-02 Prepared & Analyzed: 06/20/05						
Perchlorate	23.0	4.0	ug/l	25.0	ND	92	80-120			
Matrix Spike Dup (5F20032-MSD1)				Source: MOF0575-02 Prepared & Analyzed: 06/20/05						
Perchlorate	22.7	4.0	ug/l	25.0	ND	91	80-120	1	15	



MACTEC Engineering & Consulting
200 Citadel Dr.
Los Angeles CA, 90040

Project: Olin
Project Number: USAVE
Project Manager: Don Smallbeck

MOF0575
Reported:
06/27/05 17:23

Notes and Definitions

- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above 1/2 the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference
- MDL The statistically derived MDL (minimum detection limit) for Perchlorate is 1.4 ug/l in water and 2.0 ug/kg in soil.
- PQL Practical Quantitation Limit, regulatory based terminology often cited in defining data quality objectives. The PQL is the same as the Reporting Limit for the analysis.



SEQUOIA ANALYTICAL CHAIN OF CUSTODY

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 404 N. Wiget Lane • Walnut Creek, CA 94598 • (925) 988-9600 • FAX (925) 988-9673

Company Name: **MACTEC ENGINEERING & CONSULTING**

Mailing Address: **5341 OLD REDWOOD HIGH**

Billing Address (if different):
6300050612-01
PERCHLORATE (314)

City: **PETALUMA** State: **CA** Zip Code: **94954**

Telephone: **(707) 793-3800** Fax #: **(707) 793-3800**

P.O. #: **0000090016-11-1458**

Report To: **Bill Oberatto, Suisun E-mail Address:**

QC Data: Level II (standard) Level III Level IV

Sampler: **4 inches / 1.83m** Date / Time Results Required:

Sequoia's Work Order # **11016575**

Turnaround 10-15 Working Days

24 Hours

MANDATORY:

ANALYSES REQUESTED (Please provide method)

Time: Standard (TAT)

48 Hours

SDWA (Drinking Water)

CWA (Waste Water)

7 Working Days

24 Hours

RCRA (Hazardous Waste)

Other

5 Working Days

2-8 Hours

Client Sample I.D.	Date / Time Sampled	Matrix Desc.	# of Cont.	Container Type	Sequoia's Sample #	Comments / Temp. (if required)
1. USAVE INFLUENT	6/17/05 830	H ₂ O	1	500ml Poly	01	
2. EFFLUENT	0832				02	
3. USAVE LAB EFFLUENT	0837				03	
4.						
5.						
6.						
7.						
8.						
9.						
10.						

Relinquished by / Co.: _____ Received by / Co.: **[Signature]** Date / Time / Temp.: **6/17/05 @ 13:10**
 Relinquished by / Co.: _____ Received by / Co.: _____ Date / Time / Temp.: _____
 Relinquished by / Co.: _____ Received by / Co.: _____ Date / Time / Temp.: _____

Were Samples Received in Good Condition? Yes No Samples on Ice? Yes No Method of Shipment: **CLIENT** Page **1** of **1**

White: Sequoia

Yellow: Sequoia

Pink: Client

SEQUOIA ANALYTICAL SAMPLE RECEIPT LOG

CLIENT NAME: Mater
 REC. BY (PRINT): L.P.
 WORKORDER: WOF 6535

DATE REC'D AT LAB: 6-17-05
 TIME REC'D AT LAB: 1310
 DATE LOGGED IN: 6-17-05

For Regulatory Purposes?
 DRINKING WATER YES / NO
 WASTE WATER YES / NO

(For clients requiring preservation checks at receipt, document here ↓)

CIRCLE THE APPROPRIATE RESPONSE	LAB SAMPLE #	DASH #	CLIENT ID	CONTAINER DESCRIPTION	PRESERVATIVE	PH	SAMPLE MATRIX	DATE SAMPLED	REMARKS: (ETC.)
1. Custody Seal(s) Present / Absent <input checked="" type="radio"/> Present / Absent Intact / Broken*									
2. Chain-of-Custody Present / Absent*									
3. Traffic Reports or Packing List: Present / Absent*									
4. Airbill: Airbill / Sticker Present / Absent*									
5. Airbill #:									
6. Sample Labels: Present / Absent <input checked="" type="radio"/> Present / Absent Listed? Not Listed									
7. Sample IDs: on Chain-of-Custody Intact / Broken* / Leaking*									
8. Sample Condition: Intact / Broken* / Leaking*									
9. Does information on chain-of-custody, traffic reports and sample labels agree? <input checked="" type="radio"/> Yes / No*									
10. Sample received within hold time? <input checked="" type="radio"/> Yes / No*									
11. Adequate sample volume received? <input checked="" type="radio"/> Yes / No*									
12. Proper Preservatives used? <input checked="" type="radio"/> Yes / No*									
13. Trip Blank / Temp Blank Received? (circle which, if yes) Yes / No* <input checked="" type="radio"/> Yes / No*									
14. Temp Rec. at Lab: Is temp 4 +/- 2°C? Yes / No* <input checked="" type="radio"/> Yes / No*									

*IF CIRCLED, CONTACT PROJECT MANAGER AND ATTACH RECORD OF RESOLUTION.



**Sequoia
Analytical**

885 Jarvis Drive
Morgan Hill, CA 95037
(408) 776-9600
FAX (408) 782-6308
www.sequoialabs.com

27 June, 2005

Don Smallbeck
MACTEC Engineering & Consulting
200 Citadel Dr.
Los Angeles, CA 90040

RE: Olin
Work Order: MOF0576

Enclosed are the results of analyses for samples received by the laboratory on 06/17/05 13:10. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Lisa Race
Senior Project Manager

CA ELAP Certificate #1210

Page 1 of 5

Olin/Daniels
015951



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(408) 776-9600
FAX (408) 782-6308
www.sequoialabs.com

MACTEC Engineering & Consulting
200 Citadel Dr.
Los Angeles CA, 90040

Project: Olin
Project Number: G O
Project Manager: Don Smallbeck

MOF0576
Reported:
06/27/05 17:24

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
G O INFLUENT	MOF0576-01	Water	06/17/05 08:45	06/17/05 13:10
G O LEAD EFFLUENT	MOF0576-02	Water	06/17/05 08:46	06/17/05 13:10
G O LAG EFFLUENT	MOF0576-03	Water	06/17/05 08:47	06/17/05 13:10



MACTEC Engineering & Consulting 200 Citadel Dr. Los Angeles CA, 90040	Project: Olin Project Number: G O Project Manager: Don Smallbeck	MOF0576 Reported: 06/27/05 17:24
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**Perchlorate by EPA 314.0
Sequoia Analytical - Morgan Hill**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
G O INFLUENT (MOF0576-01) Water Sampled: 06/17/05 08:45 Received: 06/17/05 13:10									
Perchlorate	72	8.0	ug/l	2	5F20032	06/20/05	06/20/05	EPA 314.0	
G O LEAD EFFLUENT (MOF0576-02) Water Sampled: 06/17/05 08:46 Received: 06/17/05 13:10									
Perchlorate	ND	4.0	ug/l	1	5F20032	06/20/05	06/20/05	EPA 314.0	
G O LAG EFFLUENT (MOF0576-03) Water Sampled: 06/17/05 08:47 Received: 06/17/05 13:10									
Perchlorate	ND	4.0	ug/l	1	5F20032	06/20/05	06/20/05	EPA 314.0	



MACTEC Engineering & Consulting
200 Citadel Dr.
Los Angeles CA, 90040

Project: Olin
Project Number: G .O
Project Manager: Don Smallbeck

MOF0576
Reported:
06/27/05 17:24

**Perchlorate by EPA 314.0 - Quality Control
Sequoia Analytical - Morgan Hill**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 5F20032 - General Preparation

Blank (5F20032-BLK1)

Prepared & Analyzed: 06/20/05

Perchlorate ND 4.0 ug/l

Laboratory Control Sample (5F20032-BS1)

Prepared & Analyzed: 06/20/05

Perchlorate 25.9 4.0 ug/l 25.0 104 85-115

Matrix Spike (5F20032-MS1)

Source: MOF0575-02

Prepared & Analyzed: 06/20/05

Perchlorate 23.0 4.0 ug/l 25.0 ND 92 80-120

Matrix Spike Dup (5F20032-MSD1)

Source: MOF0575-02

Prepared & Analyzed: 06/20/05

Perchlorate 22.7 4.0 ug/l 25.0 ND 91 80-120 1 15



MACTEC Engineering & Consulting
200 Citadel Dr.
Los Angeles CA, 90040

Project: Olin
Project Number: G O
Project Manager: Don Smallbeck

MOF0576
Reported:
06/27/05 17:24

Notes and Definitions

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above 1/2 the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

MDL The statistically derived MDL (minimum detection limit) for Perchlorate is 1.4 ug/l in water and 2.0 ug/kg in soil.

PQL Practical Quantitation Limit, regulatory based terminology often cited in defining data quality objectives. The PQL is the same as the Reporting Limit for the analysis.

REDACTED



SEQUOIA ANALYTICAL
CHAIN OF CUSTODY

885 Jarvis Drive • Morgan Hill, CA 95037 • (408) 776-9600 • FAX (408) 782-6308
1455 N. McDowell Blvd, Suite D. • Petaluma, CA 94954 • (707) 792-1865 • FAX (707) 792-0342
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404 N. Wiget Lane • Walnut Creek, CA 94598 • (925) 988-9600 • FAX (925) 988-9673

Company Name: MACTEC ENGINEERING & CONSULTING

Mailing Address: 5341 OLD REDWOOD HIGH

City: PETALUMA

Telephone: (707) 793-3800

Report To: ~~Bill Oberatts~~ *J. Jones* E-mail Address:

Sampler: *M. Barnes / J. Baca* Date / Time Results Required:

Turnaround Time: 10-15 Working Days
 Standard TAT
 7 Working Days
 5 Working Days

Date / Time Results Required: *6/17/05 8:45*

72 Hours
 48-Hours
 24 Hours
 2-8 Hours

MANDATORY:
 SDWA (Drinking Water)
 CWA (Waste Water)
 RCRA (Hazardous Waste)
 Other

Project: ~~OHNS-STANDARD~~ *EUSEE-KU2 OLIN CATTACATOR SAMPLER*

Billing Address (if different): *6300050012-01*

P.O. #: *6300030016-1-1-142*

QC Data: Level II (standard) Level III Level IV

Sequoia's Work Order # *11016 6576*

ANALYSES REQUESTED (Please provide method)

Client Sample I.D.	Date / Time Sampled	Matrix Desc.	# of Cont.	Container Type	Sequoia's Sample #	PERCHLORATE (314)	Comments/Temp. (if required)
1. <i>0 INFILTRANT</i>	<i>6/17/05 8:45</i>	H ₂ O	1	500ml Poly	<i>01</i>		
2. <i>0 INFILTRANT</i>	<i>0846</i>				<i>02</i>		
3. <i>0 INFILTRANT</i>	<i>0847</i>				<i>03</i>		
4.							
5.							
6.							
7.							
8.							
9.							
10.							

Relinquished by / Co.: *[Signature]* Received by / Co.: *[Signature]* Date / Time / Temp.: *6/17/05 @ 13:10*

Relinquished by / Co.: *[Signature]* Received by / Co.: *[Signature]* Date / Time / Temp.: *[Blank]*

Relinquished by / Co.: *[Signature]* Received by / Co.: *[Signature]* Date / Time / Temp.: *[Blank]*

Relinquished by / Co.: *[Signature]* Received by / Co.: *[Signature]* Date / Time / Temp.: *[Blank]*

Were Samples Received In Good Condition? Yes No Samples on Ice? Yes No Method of Shipment: CLIENT Page 2 of 1

White: Sequoia

Yellow: Sequoia

Pink: Client

Olin/Daniels

015956

SEQUOIA ANALYTICAL SAMPLE RECEIPT LOG

CLIENT NAME: Mactec
 REC. BY (PRINT): L.P.
 WORKORDER: 14056542

DATE RECD AT LAB: 6-17-05
 TIME RECD AT LAB: 1310
 DATE LOGGED IN: 6-17-05

For Regulatory Purposes?
 DRINKING WATER YES/NO
 WASTE WATER YES/NO

(For clients requiring preservation checks at receipt, document here ↓)

CIRCLE THE APPROPRIATE RESPONSE		LAB SAMPLE #	DASH #	CLIENT ID	CONTAINER DESCRIPTION	PRESERVATIVE	pH	SAMPLE MATRIX	DATE SAMPLED	REMARKS: CONDITION (ETC.)
1. Custody Seal(s)	Present / Absent <u>Absent</u>									
2. Chain-of-Custody	Intact / Broken* <u>Intact</u>									
3. Traffic Reports or Packing List:	Present / Absent <u>Absent</u>									
4. Airbill:	Airbill / Sticker Present / Absent <u>Absent</u>									
5. Airbill #:										
6. Sample Labels:	Present / Absent <u>Absent</u>									
7. Sample IDs:	Listed / Not Listed <u>Not Listed</u>									
8. Sample Condition:	on Chain-of-Custody Intact / Broken* / Leaking* <u>Intact</u>									
9. Does information on chain-of-custody, traffic reports and sample labels agree?	Yes / No* <u>Yes</u>									
10. Sample received within hold time?	Yes / No* <u>Yes</u>									
11. Adequate sample volume received?	Yes / No* <u>Yes</u>									
12. Proper Preservatives used?	Yes / No* <u>Yes</u>									
13. Trip Blank / Temp Blank Received? (circle which, if yes)	Yes / No* <u>No</u>									
14. Temp Rec. at Lab: Is temp 4 +/-2°C? (Acceptance range for samples requiring thermal pres.)	Yes / No* <u>No</u>									

*IF CIRCLED, CONTACT PROJECT MANAGER AND ATTACH RECORD OF RESOLUTION.



**Sequoia
Analytical**

885 Jarvis Drive
Morgan Hill, CA 95037
(408) 776-9600
FAX (408) 782-6308
www.sequoialabs.com

27 June, 2005

Don Smallbeck
MACTEC Engineering & Consulting
200 Citadel Dr.
Los Angeles, CA 90040

RE: Olin
Work Order: MOF0577

Enclosed are the results of analyses for samples received by the laboratory on 06/17/05 13:10. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Lisa Race
Senior Project Manager

CA ELAP Certificate #1210

Page 1 of 5

Olin/Daniels
015958



MACTEC Engineering & Consulting
200 Citadel Dr.
Los Angeles CA, 90040

Project: Olin
Project Number: U J
Project Manager: Don Smallbeck

MOF0577
Reported:
06/27/05 17:25

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
U I INFLUENT 1	MOF0577-01	Water	06/17/05 08:54	06/17/05 13:10
U I LEAD EFFLUENT 1	MOF0577-02	Water	06/17/05 08:55	06/17/05 13:10
U I LEAD EFFLUENT 2	MOF0577-03	Water	06/17/05 08:56	06/17/05 13:10
U I LAG EFFLUENT COMBINED	MOF0577-04	Water	06/17/05 08:57	06/17/05 13:10



MACTEC Engineering & Consulting
200 Citadel Dr.
Los Angeles CA, 90040

Project: Olin
Project Number: U I
Project Manager: Don Smallbeck

MOF0577
Reported:
06/27/05 17:25

**Perchlorate by EPA 314.0
Sequoia Analytical - Morgan Hill**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
U I INFLUENT 1 (MOF0577-01) Water Sampled: 06/17/05 08:54 Received: 06/17/05 13:10									
Perchlorate	47	8.0	ug/l	2	5F20032	06/20/05	06/20/05	EPA 314.0	
U I LEAD EFFLUENT 1 (MOF0577-02) Water Sampled: 06/17/05 08:55 Received: 06/17/05 13:10									
Perchlorate	8.4	4.0	ug/l	1	5F20032	06/20/05	06/20/05	EPA 314.0	
U I LEAD EFFLUENT 2 (MOF0577-03) Water Sampled: 06/17/05 08:56 Received: 06/17/05 13:10									
Perchlorate	10	4.0	ug/l	1	5F20032	06/20/05	06/20/05	EPA 314.0	
U I LAG EFFLUENT COMBINED (MOF0577-04) Water Sampled: 06/17/05 08:57 Received: 06/17/05 13:10									
Perchlorate	ND	4.0	ug/l	1	5F20032	06/20/05	06/20/05	EPA 314.0	



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MACTEC Engineering & Consulting 200 Citadel Dr. Los Angeles CA, 90040	Project: Olin Project Number: U I Project Manager: Don Smallbeck	MOF0577 Reported: 06/27/05 17:25
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**Perchlorate by EPA 314.0 - Quality Control
 Sequoia Analytical - Morgan Hill**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 5F20032 - General Preparation

Blank (5F20032-BLK1)		Prepared & Analyzed: 06/20/05								
Perchlorate	ND	4.0	ug/l							
Laboratory Control Sample (5F20032-BS1)		Prepared & Analyzed: 06/20/05								
Perchlorate	25.9	4.0	ug/l	25.0		104	85-115			
Matrix Spike (5F20032-MS1)		Source: MOF0575-02		Prepared & Analyzed: 06/20/05						
Perchlorate	23.0	4.0	ug/l	25.0	ND	92	80-120			
Matrix Spike Dup (5F20032-MSD1)		Source: MOF0575-02		Prepared & Analyzed: 06/20/05						
Perchlorate	22.7	4.0	ug/l	25.0	ND	91	80-120	1	15	



MACTEC Engineering & Consulting
200 Citadel Dr.
Los Angeles CA, 90040

Project: Olin
Project Number: U I
Project Manager: Don Smallbeck

MOF0577
Reported:
06/27/05 17:25

Notes and Definitions

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above 1/2 the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

MDL The statistically derived MDL (minimum detection limit) for Perchlorate is 1.4 ug/l in water and 2.0 ug/kg in soil.

PQL Practical Quantitation Limit, regulatory based terminology often cited in defining data quality objectives. The PQL is the same as the Reporting Limit for the analysis.

REDACTED



SEQUIOIA ANALYTICAL
CHAIN OF CUSTODY

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404 N. Wiget Lane • Walnut Creek, CA 94598 • (925) 988-9600 • FAX (925) 988-9673

Company Name: MACTEC ENGINEERING & CONSULTING
Mailing Address: 5341 OLD REDWOOD HIGH
City: PETALUMA State: CA Zip Code: 94954
Telephone: (707) 793-3800 Fax #: (707) 793-3800
P.O. #: 6300050012-01
Project: GENSTANDARD FUSEE - OCYR UTILIZATION SUPPORT
Billing Address (if different):

Report To: BILL O'BRIEN - ASSESSOR E-mail Address:
QC Data: Level II (standard) Level III Level IV
Sampler: M. BAYES / ST. BACA Date / Time Results Required: 1/17/05 0854
Sequoia's Work Order # 14076577

Turnaround 10-15 Working Days 72 Hours
Time: (Standard TAT) 48 Hours 24 Hours 28 Hours
 7 Working Days 5 Working Days
MANDATORY: SDWA (Drinking Water) CWA (Waste Water) RCRA (Hazardous Waste) Other

Client Sample I.D.	Date / Time Sampled	Matrix Desc.	# of Cont.	Container Type	Sequoia's Sample #	PERCHLORATE (3/4)	ANALYSES REQUESTED (Please provide method)	Comments/Temp. (if required)
1. 1. LEAD	6/17/05 0854	H ₂ O	1	500ml Poly	b1			
2. EFFLUENT 1	0855				b2			
3. EFFLUENT 2	0856				b3			
4. EFFLUENT DRAINAGE	0857				b4			
5.								
6.								
7.								
8.								
9.								
10.								

Received by / Co.: [Signature] Date / Time / Temp.: 6/17/05 0854
Received by / Co.: [Signature] Date / Time / Temp.:
Received by / Co.: [Signature] Date / Time / Temp.:
Received by / Co.: [Signature] Date / Time / Temp.:

Were Samples Received in Good Condition? Yes No Samples on Ice? Yes No Method of Shipment: CLIENT Page 1 of 1

SEQUOIA ANALYTICAL SAMPLE RECEIPT LOG

CLIENT NAME: Mater
 REC. BY (PRINT): L.P.
 WORKORDER: MOF6577

DATE REC'D AT LAB: 6-17-05
 TIME REC'D AT LAB: 1310
 DATE LOGGED IN: 6-17-05

(For clients requiring preservation checks at receipt, document here ↓)

For Regulatory Purposes?
 DRINKING WATER YES / NO
 WASTE WATER YES / NO

CIRCLE THE APPROPRIATE RESPONSE	LAB SAMPLE #	DASH #	CLIENT ID	CONTAINER DESCRIPTION	PRESERVATIVE	pH	SAMPLE MATRIX	DATE SAMPLED	REMARKS: CONDITION (ETC.)
1. Custody Seal(s) <input checked="" type="radio"/> Present / <input type="radio"/> Absent <small>Intact / Broken*</small>									
2. Chain-of-Custody <input checked="" type="radio"/> Present / <input type="radio"/> Absent*									
3. Traffic Reports or Packing List: <input checked="" type="radio"/> Present / <input type="radio"/> Absent									
4. Airbill: <input checked="" type="radio"/> Airbill / <input type="radio"/> Sticker <input checked="" type="radio"/> Present / <input type="radio"/> Absent									
5. Airbill #: <input checked="" type="radio"/> Present / <input type="radio"/> Absent									
6. Sample Labels: <input checked="" type="radio"/> Present / <input type="radio"/> Absent									
7. Sample IDs: <input checked="" type="radio"/> Listed / <input type="radio"/> Not Listed <input checked="" type="radio"/> on Chain-of-Custody									
8. Sample Condition: <input checked="" type="radio"/> Intact / <input type="radio"/> Broken* / <input type="radio"/> Leaking*									
9. Does information on chain-of-custody, traffic reports and sample labels agree? <input checked="" type="radio"/> Yes / <input type="radio"/> No*									
10. Sample received within hold time? <input checked="" type="radio"/> Yes / <input type="radio"/> No*									
11. Adequate sample volume received? <input checked="" type="radio"/> Yes / <input type="radio"/> No*									
12. Proper Preservatives used? <input checked="" type="radio"/> Yes / <input type="radio"/> No*									
13. Trip Blank / Temp Blank Received? <input checked="" type="radio"/> Yes / <input type="radio"/> No* <small>(circle which, if yes)</small>									
14. Temp Rec. at Lab: <input checked="" type="radio"/> Yes / <input type="radio"/> No* <small>Is temp 4 +/- 2°C?</small>									

*IF CIRCLED, CONTACT PROJECT MANAGER AND ATTACH RECORD OF RESOLUTION.



**Sequoia
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Morgan Hill, CA 95037
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FAX (408) 782-6308
www.sequoialabs.com

27 June, 2005

Don Smallbeck
MACTEC Engineering & Consulting
200 Citadel Dr.
Los Angeles, CA 90040

RE: Olin
Work Order: MOF0578

Enclosed are the results of analyses for samples received by the laboratory on 06/17/05 13:10. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Lisa Race
Senior Project Manager

CA ELAP Certificate #1210

Page 1 of 5

Olin/Daniels
015965



MACTEC Engineering & Consulting 200 Citadel Dr. Los Angeles CA, 90040	Project: Olin Project Number: M A Project Manager: Don Smallbeck	MOF0578 Reported: 06/27/05 17:26
---	--	---

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
M A INFLUENT	MOF0578-01	Water	06/17/05 09:12	06/17/05 13:10
M A LEAD EFFLUENT	MOF0578-02	Water	06/17/05 09:13	06/17/05 13:10
M A LAG EFFLUENT	MOF0578-03	Water	06/17/05 09:14	06/17/05 13:10



MACTEC Engineering & Consulting
200 Citadel Dr.
Los Angeles CA, 90040

Project: Olin
Project Number: M A
Project Manager: Don Smallbeck

MOF0578
Reported:
06/27/05 17:26

Perchlorate by EPA 314.0

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
M A INFLUENT (MOF0578-01) Water Sampled: 06/17/05 09:12 Received: 06/17/05 13:10									
Perchlorate	6.7	4.0	ug/l	1	5F20032	06/20/05	06/20/05	EPA 314.0	
M A LEAD EFFLUENT (MOF0578-02) Water Sampled: 06/17/05 09:13 Received: 06/17/05 13:10									
Perchlorate	ND	4.0	ug/l	1	5F20032	06/20/05	06/20/05	EPA 314.0	
M A LAG EFFLUENT (MOF0578-03) Water Sampled: 06/17/05 09:14 Received: 06/17/05 13:10									
Perchlorate	ND	4.0	ug/l	1	5F20032	06/20/05	06/20/05	EPA 314.0	



MACTEC Engineering & Consulting
200 Citadel Dr.
Los Angeles CA, 90040

Project: Olin
Project Number: M A
Project Manager: Don Smallbeck

MOF0578
Reported:
06/27/05 17:26

**Perchlorate by EPA 314.0 - Quality Control
Sequoia Analytical - Morgan Hill**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5F20032 - General Preparation										
Blank (5F20032-BLK1)										
Prepared & Analyzed: 06/20/05										
Perchlorate	ND	4.0	ug/l							
Laboratory Control Sample (5F20032-BS1)										
Prepared & Analyzed: 06/20/05										
Perchlorate	25.9	4.0	ug/l	25.0		104	85-115			
Matrix Spike (5F20032-MS1)										
Source: MOF0575-02 Prepared & Analyzed: 06/20/05										
Perchlorate	23.0	4.0	ug/l	25.0	ND	92	80-120			
Matrix Spike Dup (5F20032-MSD1)										
Source: MOF0575-02 Prepared & Analyzed: 06/20/05										
Perchlorate	22.7	4.0	ug/l	25.0	ND	91	80-120	1	15	



MACTEC Engineering & Consulting
200 Citadel Dr.
Los Angeles CA, 90040

Project: Olin
Project Number: M A
Project Manager: Don Smallbeck

MOF0578
Reported:
06/27/05 17:26

Notes and Definitions

- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above 1/2 the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference
- MDL The statistically derived MDL (minimum detection limit) for Perchlorate is 1.4 ug/l in water and 2.0 ug/kg in soil.
- PQL Practical Quantitation Limit, regulatory based terminology often cited in defining data quality objectives. The PQL is the same as the Reporting Limit for the analysis.



**SEQUOIA ANALYTICAL
CHAIN OF CUSTODY**

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 404 N. Wiget Lane • Walnut Creek, CA 94598 • (925) 988-9600 • FAX (925) 988-9673

REDACTED

Company Name: MACTEC ENGINEERING & CONSULTING
 Mailing Address: 5341 OLD REDWOOD HIGH
 State: CA Zip Code: 94954
 Project: CHIN/STANDARD-FUSEE-NSD OLIV LIT/6/ATTOR S/2004
 Billing Address (if different):

City: PETALUMA Telephone: (707) 793-3800 Fax #: (707) 793-3800
 P.O. #: 6300050012-01

Report To: BILL CIBRATIS, Environmental Services, E-mail Address:
 QC Date: Level II (standard) Level III Level IV
 Sequoia's Work Order # 1201 0578

Sampler: M. Reyes, S. Baca Date / Time Results Required:
 Turnaround 10-15 Working Days (Standard TAT) 72 Hours
 Time: 7 Working Days 24 Hours 2-8 Hours
 MANDATORY: SDWA (Drinking Water) CWA (Waste Water) RCRA (Hazardous Waste) Other
 ANALYSES REQUESTED (Please provide method)

Client Sample I.D.	Date / Time Sampled	Matrix Desc.	# of Cont.	Container Type	Sequoia's Sample #	Comments/Temp. (if required)
1. N. A INFLUENT	6/17/05 0912	H ₂ O	1	500ml Poly	01	
2. H. A LEACH EFFLUENT	0912				02	
3. H. A LAB EFFLUENT	0914				03	
4.						
5.						
6.						
7.						
8.						
9.						
10.						

Relinquished by / Co.: _____ Received by / Co.: _____ Date / Time / Temp.: 6/17/05 @ 1332D
 Relinquished by / Co.: _____ Received by / Co.: _____ Date / Time / Temp.: _____
 Relinquished by / Co.: _____ Received by / Co.: _____ Date / Time / Temp.: _____

Were Samples Received in Good Condition? Yes No Samples on Ice? Yes No Method of Shipment: CLIENT Page 1 of 1

SEQUOIA ANALYTICAL SAMPLE RECEIPT LOG

CLIENT NAME: Mastec
 REC. BY (PRINT) L.P.
 WORKORDER: MOF 6578

DATE REC'D AT LAB: 6-17-05
 TIME REC'D AT LAB: 1310
 DATE LOGGED IN: 6-17-05

For Regulatory Purposes?
 DRINKING WATER YES / NO
 WASTE WATER YES / NO

(For clients requiring preservation checks at receipt, document here ↓)

CIRCLE THE APPROPRIATE RESPONSE

1. Custody Seal(s) Present / Absent / Intact / Broken*
2. Chain-of-Custody Present / Absent*
3. Traffic Reports or Packing List: Present / Absent
4. Airbill: Airbill / Sticker Present / Absent
5. Airbill #: _____
6. Sample Labels: Present / Absent / Listed? / Not Listed
7. Sample IDs: In Chain-of-Custody / In Intact / Broken* / Leaking*
8. Sample Condition: Intact / Broken* / Leaking*
9. Does information on chain-of-custody, traffic reports and sample labels agree? Yes / No*
10. Sample received within hold time? Yes / No*
11. Adequate sample volume received? Yes / No*
12. Proper Preservatives used? Yes / No*
13. Trip Blank / Temp Blank Received? Yes / No* (circle which, if yes)
14. Temp Rec. at Lab: 21.8 Yes / No* (Acceptance range for samples requiring thermal pres.)

LAB SAMPLE #	DASH #	CLIENT ID	CONTAINER DESCRIPTION	PRESERVATIVE	pH	SAMPLE MATRIX	DATE SAMPLED	REMARKS: CONDITION (ETC.)
<div style="font-size: 2em; font-weight: bold; transform: rotate(-45deg); opacity: 0.5;"> No Sample Received </div>								

*IF CIRCLED, CONTACT PROJECT MANAGER AND ATTACH RECORD OF RESOLUTION.