Sequoia Analytical

1455 McDowell Blvd, North Ste D
Petaluma, CA 94954
(707) 792-1865
FAX (707) 792-0342
www.sequoialabs.com

19 August, 2003

Bruce Lewis
Environmental Resources Management
2525 Natomas Park Drive, Suite 350
Sacramento, CA 95833

RE: Aerojet RI/FS
Work Order: P307335

Enclosed are the results of analyses for samples received by the laboratory on 07/16/03 14:25. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Angelee Cari
Project Manager

CA ELAP Certificate #2374

Sequoia Analytical

1455 McDowell Blvd, North Ste D
Petaluma, CA 94954
(707) 792-1865
FAX (707) 792-0342
www.sequoialabs.com

Environmental Resources Management	Project:	Aerojet RI/FS	P307335
2525 Natomas Park Drive, Suite 350	Project Number:	RI-FS	**Reported:**
Sacramento CA, 95833	Project Manager:	Bruce Lewis	08/19/03 12:04

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
C15-SS07	P307335-01	Soil	07/15/03 11:20	07/16/03 14:25
C15-SS06	P307335-02	Soil	07/15/03 11:45	07/16/03 14:25
C15-SS05	P307335-03	Soil	07/15/03 12:00	07/16/03 14:25
C15-SS08	P307335-04	Soil	07/15/03 13:20	07/16/03 14:25
10D-SS10	P307335-05	Soil	07/15/03 13:45	07/16/03 14:25
10D-SS21	P307335-06	Soil	07/15/03 14:00	07/16/03 14:25
10D-SS22	P307335-07	Soil	07/15/03 14:05	07/16/03 14:25
C4-SNS01	P307335-08	Soil	07/16/03 06:50	07/16/03 14:25
C4-SNS02	P307335-09	Soil	07/16/03 07:10	07/16/03 14:25
A20-BML01	P307335-10	Soil	07/16/03 10:20	07/16/03 14:25
A20-BML02	P307335-11	Soil	07/16/03 11:00	07/16/03 14:25
A20-BML04	P307335-12	Soil	07/16/03 11:30	07/16/03 14:25
A20-BML03	P307335-13	Soil	07/16/03 12:00	07/16/03 14:25

The results in this report apply to the samples analyzed in accordance with the chain of custody document. Unless otherwise stated, results are reported on a wet weight basis. This analytical report must be reproduced in its entirety.

Sequoia Analytical

1455 McDowell Blvd, North Ste D
Petaluma, CA 94954
(707) 792-1865
FAX (707) 792-0342
www.sequoialabs.com

Environmental Resources Management	Project:	Aerojet RI/FS	P307335
2525 Natomas Park Drive, Suite 350	Project Number:	RI-FS	**Reported:**
Sacramento CA, 95833	Project Manager:	Bruce Lewis	08/19/03 12:04

Total Metals by EPA 6000/7000 Series Methods
Sequoia Analytical - Petaluma

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C15-SS07 (P307335-01) Soil Sampled: 07/15/03 11:20 Received: 07/16/03 14:25										
Silver	ND		0.60	mg/kg	1	3070440	07/24/03	07/28/03	EPA 6010B	
Aluminum	**29000**		43	"	"	"	"	"	"	
Arsenic	**7.5**	0.12	0.86	"	"	"	"	08/01/03	EPA 6020	
Boron	ND		8.6	"	"	"	"	07/28/03	EPA 6010B	
Barium	**250**		0.86	"	"	"	"	"	"	
Beryllium	**0.92**		0.086	"	"	"	"	"	"	
Calcium	**3300**		86	"	"	"	"	"	"	
Cadmium	**0.32**	0.22	0.86	"	"	"	"	"	"	J
Cobalt	**24**		0.60	"	"	"	"	"	"	
Chromium	**81**		0.86	"	"	"	"	"	"	
Hexavalent Chromium	ND		0.21	"	"	3070631	07/30/03	07/31/03	EPA 7196A	
Copper	**58**		1.7	"	"	3070440	07/24/03	07/28/03	EPA 6010B	
Iron	**41000**		43	"	"	"	"	07/29/03	"	
Mercury	**0.079**		0.019	"	"	3070398	07/28/03	07/29/03	EPA 7471A	
Potassium	**2800**		220	"	"	3070440	07/24/03	07/28/03	EPA 6010B	
Magnesium	**6800**		43	"	"	"	"	"	"	
Manganese	**1000**		0.86	"	"	"	"	07/29/03	"	
Molybdenum	ND		1.7	"	"	"	"	07/28/03	"	
Sodium	**180**		43	"	"	"	"	"	"	
Nickel	**60**		2.6	"	"	"	"	"	"	
Lead	**20**		0.43	"	"	"	"	07/30/03	EPA 6020	
Antimony	**0.43**		0.43	"	"	"	"	"	"	
Selenium	**0.30**	0.062	0.86	"	"	"	"	08/01/03	"	J
Titanium	**970**		1.7	"	"	"	"	07/29/03	EPA 6010B	
Thallium	**0.20**		0.17	"	"	"	"	07/30/03	EPA 6020	
Vanadium	**110**		0.86	"	"	"	"	07/28/03	EPA 6010B	
Zinc	**82**		1.7	"	"	"	"	"	"	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. Unless otherwise stated, results are reported on a wet weight basis. This analytical report must be reproduced in its entirety.

Sequoia Analytical

1455 McDowell Blvd, North Ste D
Petaluma, CA 94954
(707) 792-1865
FAX (707) 792-0342
www.sequoialabs.com

Environmental Resources Management	Project:	Aerojet RI/FS	P307335
2525 Natomas Park Drive, Suite 350	Project Number:	RI-FS	**Reported:**
Sacramento CA, 95833	Project Manager:	Bruce Lewis	08/19/03 12:04

Total Metals by EPA 6000/7000 Series Methods
Sequoia Analytical - Petaluma

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C15-SS06 (P307335-02) Soil Sampled: 07/15/03 11:45 Received: 07/16/03 14:25										
Silver	ND		0.60	mg/kg	1	3070440	07/24/03	07/28/03	EPA 6010B	
Aluminum	**26000**		43	"	"	"	"	"	"	
Arsenic	**6.0**	0.12	0.86	"	"	"	"	08/01/03	EPA 6020	
Boron	ND		8.6	"	"	"	"	07/28/03	EPA 6010B	
Barium	**270**		0.86	"	"	"	"	"	"	
Beryllium	**0.89**		0.086	"	"	"	"	"	"	
Calcium	**2800**		86	"	"	"	"	"	"	
Cadmium	**0.67**	0.22	0.86	"	"	"	"	"	"	J
Cobalt	**13**		0.60	"	"	"	"	"	"	
Chromium	**880**		0.86	"	"	"	"	"	"	
Hexavalent Chromium	ND		0.21	"	"	3070631	07/30/03	07/31/03	EPA 7196A	
Copper	**240**		1.7	"	"	3070440	07/24/03	07/28/03	EPA 6010B	
Iron	**40000**		220	"	5	"	"	07/29/03	"	
Mercury	**0.062**		0.020	"	1	3070398	07/28/03	07/29/03	EPA 7471A	
Potassium	**3200**		220	"	"	3070440	07/24/03	07/28/03	EPA 6010B	
Magnesium	**6100**		43	"	"	"	"	"	"	
Manganese	**450**		4.3	"	5	"	"	07/29/03	"	
Molybdenum	**2.4**		1.7	"	1	"	"	07/28/03	"	
Sodium	**190**		43	"	"	"	"	"	"	
Nickel	**53**		2.6	"	"	"	"	"	"	
Lead	**39**		0.43	"	"	"	"	07/30/03	EPA 6020	
Antimony	**0.66**		0.43	"	"	"	"	"	"	
Selenium	**0.49**	0.062	0.86	"	"	"	"	08/01/03	"	J
Titanium	**960**		8.6	"	5	"	"	07/29/03	EPA 6010B	
Thallium	**0.18**		0.17	"	1	"	"	07/30/03	EPA 6020	
Vanadium	**100**		0.86	"	"	"	"	07/28/03	EPA 6010B	
Zinc	**270**		1.7	"	"	"	"	"	"	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. Unless otherwise stated, results are reported on a wet weight basis. This analytical report must be reproduced in its entirety.

Sequoia Analytical

1455 McDowell Blvd, North Ste D
Petaluma, CA 94954
(707) 792-1865
FAX (707) 792-0342
www.sequoialabs.com

Environmental Resources Management	Project:	Aerojet RI/FS	P307335
2525 Natomas Park Drive, Suite 350	Project Number:	RI-FS	**Reported:**
Sacramento CA, 95833	Project Manager:	Bruce Lewis	08/19/03 12:04

Total Metals by EPA 6000/7000 Series Methods
Sequoia Analytical - Petaluma

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C15-SS05 (P307335-03) Soil Sampled: 07/15/03 12:00 Received: 07/16/03 14:25										
Silver	ND		0.65	mg/kg	1	3070440	07/24/03	07/28/03	EPA 6010B	
Aluminum	**25000**		46	"	"	"	"	"	"	
Arsenic	**5.9**	0.13	0.93	"	"	"	"	08/01/03	EPA 6020	
Boron	ND		9.3	"	"	"	"	07/28/03	EPA 6010B	
Barium	**250**		0.93	"	"	"	"	"	"	
Beryllium	**0.76**		0.093	"	"	"	"	"	"	
Calcium	**3900**		93	"	"	"	"	"	"	
Cadmium	**1.1**	0.24	0.93	"	"	"	"	"	"	
Cobalt	**18**		0.65	"	"	"	"	"	"	
Chromium	**100**		0.93	"	"	"	"	"	"	
Hexavalent Chromium	ND		1.0	"	5	3070631	07/30/03	07/31/03	EPA 7196A	R-01
Copper	**62**		1.9	"	1	3070440	07/24/03	07/28/03	EPA 6010B	
Iron	**38000**		230	"	5	"	"	07/29/03	"	
Mercury	**0.077**		0.018	"	1	3070398	07/28/03	07/29/03	EPA 7471A	
Potassium	**3400**		230	"	"	3070440	07/24/03	07/28/03	EPA 6010B	
Magnesium	**6100**		46	"	"	"	"	"	"	
Manganese	**770**		4.6	"	5	"	"	07/29/03	"	
Molybdenum	ND		1.9	"	1	"	"	07/28/03	"	
Sodium	**220**		46	"	"	"	"	"	"	
Nickel	**51**		2.8	"	"	"	"	"	"	
Lead	**41**		0.46	"	"	"	"	07/30/03	EPA 6020	
Antimony	ND		0.46	"	"	"	"	"	"	
Selenium	**0.072**	0.067	0.93	"	"	"	"	08/01/03	"	J
Titanium	**980**		9.3	"	5	"	"	07/29/03	EPA 6010B	
Thallium	ND		0.19	"	1	"	"	07/30/03	EPA 6020	
Vanadium	**88**		0.93	"	"	"	"	07/28/03	EPA 6010B	
Zinc	**240**		1.9	"	"	"	"	"	"	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. Unless otherwise stated, results are reported on a wet weight basis. This analytical report must be reproduced in its entirety.

Sequoia Analytical

1455 McDowell Blvd, North Ste D
Petaluma, CA 94954
(707) 792-1865
FAX (707) 792-0342
www.sequoialabs.com

Environmental Resources Management	Project:	Aerojet RI/FS	P307335
2525 Natomas Park Drive, Suite 350	Project Number:	RI-FS	**Reported:**
Sacramento CA, 95833	Project Manager:	Bruce Lewis	08/19/03 12:04

Total Metals by EPA 6000/7000 Series Methods
Sequoia Analytical - Petaluma

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C15-SS08 (P307335-04) Soil Sampled: 07/15/03 13:20 Received: 07/16/03 14:25										
Silver	ND		0.56	mg/kg	1	3070440	07/24/03	07/28/03	EPA 6010B	
Aluminum	**32000**		40	"	"	"	"	"	"	
Arsenic	**6.5**	0.11	0.79	"	"	"	"	08/01/03	EPA 6020	
Boron	ND		7.9	"	"	"	"	07/28/03	EPA 6010B	
Barium	**230**		0.79	"	"	"	"	"	"	
Beryllium	**0.99**		0.079	"	"	"	"	"	"	
Calcium	**3500**		79	"	"	"	"	"	"	
Cadmium	**0.72**	0.21	0.79	"	"	"	"	"	"	J
Cobalt	**24**		0.56	"	"	"	"	"	"	
Chromium	**78**		0.79	"	"	"	"	"	"	
Hexavalent Chromium	ND		0.21	"	"	3070631	07/30/03	07/31/03	EPA 7196A	
Copper	**57**		1.6	"	"	3070440	07/24/03	07/28/03	EPA 6010B	
Iron	**46000**		200	"	5	"	"	07/29/03	"	
Mercury	**0.088**		0.015	"	1	3070398	07/28/03	07/29/03	EPA 7471A	
Potassium	**3600**		200	"	"	3070440	07/24/03	07/28/03	EPA 6010B	
Magnesium	**6700**		40	"	"	"	"	"	"	
Manganese	**990**		4.0	"	5	"	"	07/29/03	"	
Molybdenum	**1.6**		1.6	"	1	"	"	07/28/03	"	
Sodium	**180**		40	"	"	"	"	"	"	
Nickel	**57**		2.4	"	"	"	"	"	"	
Lead	**26**		0.40	"	"	"	"	07/30/03	EPA 6020	
Antimony	**0.46**		0.40	"	"	"	"	"	"	
Selenium	**0.14**	0.057	0.79	"	"	"	"	08/01/03	"	J
Titanium	**950**		7.9	"	5	"	"	07/29/03	EPA 6010B	
Thallium	ND		0.16	"	1	"	"	07/30/03	EPA 6020	
Vanadium	**110**		0.79	"	"	"	"	07/28/03	EPA 6010B	
Zinc	**97**		1.6	"	"	"	"	"	"	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. Unless otherwise stated, results are reported on a wet weight basis. This analytical report must be reproduced in its entirety.

Sequoia Analytical

1455 McDowell Blvd, North Ste D
Petaluma, CA 94954
(707) 792-1865
FAX (707) 792-0342
www.sequoialabs.com

Environmental Resources Management	Project:	Aerojet RI/FS	P307335
2525 Natomas Park Drive, Suite 350	Project Number:	RI-FS	**Reported:**
Sacramento CA, 95833	Project Manager:	Bruce Lewis	08/19/03 12:04

Total Metals by EPA 6000/7000 Series Methods
Sequoia Analytical - Petaluma

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
10D-SS10 (P307335-05) Soil Sampled: 07/15/03 13:45 Received: 07/16/03 14:25										
Thallium	ND		0.18	mg/kg	1	3070440	07/24/03	07/30/03	EPA 6020	
10D-SS21 (P307335-06) Soil Sampled: 07/15/03 14:00 Received: 07/16/03 14:25										
Thallium	ND		0.20	mg/kg	1	3070440	07/24/03	07/31/03	EPA 6020	
10D-SS22 (P307335-07) Soil Sampled: 07/15/03 14:05 Received: 07/16/03 14:25										
Thallium	**0.19**		0.16	mg/kg	1	3070440	07/24/03	07/31/03	EPA 6020	
C4-SNS01 (P307335-08) Soil Sampled: 07/16/03 06:50 Received: 07/16/03 14:25										
Silver	ND		0.66	mg/kg	1	3070440	07/24/03	07/28/03	EPA 6010B	
Aluminum	**13000**		47	"	"	"	"	"	"	
Arsenic	**3.9**	0.13	0.94	"	"	"	"	08/01/03	EPA 6020	
Boron	ND		9.4	"	"	"	"	07/28/03	EPA 6010B	
Barium	**110**		0.94	"	"	"	"	"	"	
Beryllium	**0.32**		0.094	"	"	"	"	"	"	
Calcium	**3100**		94	"	"	"	"	"	"	
Cadmium	**2.7**	0.25	0.94	"	"	"	"	"	"	
Cobalt	**9.8**		0.66	"	"	"	"	"	"	
Chromium	**52**		0.94	"	"	"	"	"	"	
Hexavalent Chromium	**1.1**		0.21	"	"	3070631	07/30/03	07/31/03	EPA 7196A	
Copper	**40**		1.9	"	"	3070440	07/24/03	07/28/03	EPA 6010B	
Iron	**27000**		240	"	5	"	"	07/29/03	"	
Mercury	**0.021**		0.016	"	1	3070398	07/28/03	07/29/03	EPA 7471A	
Potassium	**2200**		240	"	"	3070440	07/24/03	07/28/03	EPA 6010B	
Magnesium	**4700**		47	"	"	"	"	"	"	
Manganese	**420**		4.7	"	5	"	"	07/29/03	"	
Molybdenum	ND		1.9	"	1	"	"	07/28/03	"	
Sodium	**290**		47	"	"	"	"	"	"	
Nickel	**52**		2.8	"	"	"	"	"	"	
Lead	**160**		0.47	"	"	"	"	07/31/03	EPA 6020	
Antimony	ND		0.47	"	"	"	"	"	"	
Selenium	ND	0.068	0.94	"	"	"	"	08/01/03	"	
Titanium	**920**		9.4	"	5	"	"	07/29/03	EPA 6010B	
Thallium	ND		0.19	"	1	"	"	07/31/03	EPA 6020	
Vanadium	**54**		0.94	"	"	"	"	07/28/03	EPA 6010B	
Zinc	**96**		1.9	"	"	"	"	"	"	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. Unless otherwise stated, results are reported on a wet weight basis. This analytical report must be reproduced in its entirety.

Sequoia Analytical

1455 McDowell Blvd, North Ste D
Petaluma, CA 94954
(707) 792-1865
FAX (707) 792-0342
www.sequoialabs.com

Environmental Resources Management	Project:	Aerojet RI/FS	P307335
2525 Natomas Park Drive, Suite 350	Project Number:	RI-FS	**Reported:**
Sacramento CA, 95833	Project Manager:	Bruce Lewis	08/19/03 12:04

Total Metals by EPA 6000/7000 Series Methods
Sequoia Analytical - Petaluma

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C4-SNS02 (P307335-09) Soil Sampled: 07/16/03 07:10 Received: 07/16/03 14:25										
Silver	ND		0.57	mg/kg	1	3070440	07/24/03	07/28/03	EPA 6010B	
Aluminum	**10000**		41	"	"	"	"	"	"	
Arsenic	**9.4**	0.12	0.82	"	"	"	"	08/01/03	EPA 6020	
Boron	ND		8.2	"	"	"	"	07/28/03	EPA 6010B	
Barium	**170**		0.82	"	"	"	"	"	"	
Beryllium	**0.28**		0.082	"	"	"	"	"	"	
Calcium	**4100**		82	"	"	"	"	"	"	
Cadmium	**4.9**	0.21	0.82	"	"	"	"	"	"	
Cobalt	**8.4**		0.57	"	"	"	"	"	"	
Chromium	**46**		0.82	"	"	"	"	"	"	
Hexavalent Chromium	ND		0.21	"	"	3070631	07/30/03	07/31/03	EPA 7196A	
Copper	**100**		1.6	"	"	3070440	07/24/03	07/28/03	EPA 6010B	
Iron	**70000**		200	"	5	"	"	07/29/03	"	
Mercury	**0.043**		0.017	"	1	3070398	07/28/03	07/29/03	EPA 7471A	
Potassium	**1800**		200	"	"	3070440	07/24/03	07/28/03	EPA 6010B	
Magnesium	**3600**		41	"	"	"	"	"	"	
Manganese	**760**		4.1	"	5	"	"	07/29/03	"	
Molybdenum	**3.0**		1.6	"	1	"	"	07/28/03	"	
Sodium	**320**		41	"	"	"	"	"	"	
Nickel	**37**		2.5	"	"	"	"	"	"	
Lead	**530**		0.41	"	"	"	"	07/31/03	EPA 6020	
Antimony	**1.7**		0.41	"	"	"	"	"	"	
Selenium	ND	0.059	0.82	"	"	"	"	08/01/03	"	
Titanium	**570**		8.2	"	5	"	"	07/29/03	EPA 6010B	
Thallium	ND		0.16	"	1	"	"	07/31/03	EPA 6020	
Vanadium	**41**		0.82	"	"	"	"	07/28/03	EPA 6010B	
Zinc	**1000**		1.6	"	"	"	"	"	"	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. Unless otherwise stated, results are reported on a wet weight basis. This analytical report must be reproduced in its entirety.

Sequoia Analytical

1455 McDowell Blvd, North Ste D
Petaluma, CA 94954
(707) 792-1865
FAX (707) 792-0342
www.sequoialabs.com

Environmental Resources Management	Project:	Aerojet RI/FS	P307335
2525 Natomas Park Drive, Suite 350	Project Number:	RI-FS	**Reported:**
Sacramento CA, 95833	Project Manager:	Bruce Lewis	08/19/03 12:04

Total Metals by EPA 6000/7000 Series Methods
Sequoia Analytical - Petaluma

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
A20-BML01 (P307335-10) Soil Sampled: 07/16/03 10:20 Received: 07/16/03 14:25										
Silver	ND		0.56	mg/kg	1	3070440	07/24/03	07/28/03	EPA 6010B	
Aluminum	**18000**		40	"	"	"	"	"	"	
Arsenic	**5.3**	0.11	0.81	"	"	"	"	08/01/03	EPA 6020	
Boron	ND		8.1	"	"	"	"	07/28/03	EPA 6010B	
Barium	**150**		0.81	"	"	"	"	"	"	
Beryllium	**0.46**		0.081	"	"	"	"	"	"	
Calcium	**3100**		81	"	"	"	"	"	"	
Cadmium	ND	0.21	0.81	"	"	"	"	"	"	
Cobalt	**13**		0.56	"	"	"	"	"	"	
Chromium	**46**		0.81	"	"	"	"	"	"	
Hexavalent Chromium	**0.27**		0.21	"	"	3070631	07/30/03	07/31/03	EPA 7196A	
Copper	**38**		1.6	"	"	3070440	07/24/03	07/28/03	EPA 6010B	
Iron	**29000**		200	"	5	"	"	07/29/03	"	
Mercury	**0.097**		0.016	"	1	3070398	07/28/03	07/29/03	EPA 7471A	
Potassium	**1500**		200	"	"	3070440	07/24/03	07/28/03	EPA 6010B	
Magnesium	**4700**		40	"	"	"	"	"	"	
Manganese	**550**		4.0	"	5	"	"	07/29/03	"	
Molybdenum	ND		1.6	"	1	"	"	07/28/03	"	
Sodium	**280**		40	"	"	"	"	"	"	
Nickel	**42**		2.4	"	"	"	"	"	"	
Lead	**5.9**		0.40	"	"	"	"	07/31/03	EPA 6020	
Antimony	ND		0.40	"	"	"	"	"	"	
Selenium	ND	0.058	0.81	"	"	"	"	08/01/03	"	
Titanium	**840**		8.1	"	5	"	"	07/29/03	EPA 6010B	
Thallium	ND		0.16	"	1	"	"	07/31/03	EPA 6020	
Vanadium	**73**		0.81	"	"	"	"	07/28/03	EPA 6010B	
Zinc	**51**		1.6	"	"	"	"	"	"	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. Unless otherwise stated, results are reported on a wet weight basis. This analytical report must be reproduced in its entirety.

Sequoia Analytical

1455 McDowell Blvd, North Ste D
Petaluma, CA 94954
(707) 792-1865
FAX (707) 792-0342
www.sequoialabs.com

Environmental Resources Management	Project:	Aerojet RI/FS	P307335
2525 Natomas Park Drive, Suite 350	Project Number:	RI-FS	**Reported:**
Sacramento CA, 95833	Project Manager:	Bruce Lewis	08/19/03 12:04

Total Metals by EPA 6000/7000 Series Methods
Sequoia Analytical - Petaluma

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
A20-BML02 (P307335-11) Soil Sampled: 07/16/03 11:00 Received: 07/16/03 14:25										
Silver	ND		0.61	mg/kg	1	3070440	07/24/03	07/28/03	EPA 6010B	
Aluminum	**20000**		44	"	"	"	"	"	"	
Arsenic	**9.1**	0.12	0.88	"	"	"	"	08/01/03	EPA 6020	
Boron	ND		8.8	"	"	"	"	07/28/03	EPA 6010B	
Barium	**180**		0.88	"	"	"	"	"	"	
Beryllium	**0.60**		0.088	"	"	"	"	"	"	
Calcium	**3300**		88	"	"	"	"	"	"	
Cadmium	**0.37**	0.23	0.88	"	"	"	"	"	"	J
Cobalt	**14**		0.61	"	"	"	"	"	"	
Chromium	**56**		0.88	"	"	"	"	"	"	
Hexavalent Chromium	ND		0.21	"	"	3070631	07/30/03	07/31/03	EPA 7196A	
Copper	**46**		1.8	"	"	3070440	07/24/03	07/28/03	EPA 6010B	
Iron	**34000**		220	"	5	"	"	07/29/03	"	
Mercury	**0.23**		0.017	"	1	3070398	07/28/03	07/29/03	EPA 7471A	
Potassium	**1700**		220	"	"	3070440	07/24/03	07/28/03	EPA 6010B	
Magnesium	**5200**		44	"	"	"	"	"	"	
Manganese	**590**		4.4	"	5	"	"	07/29/03	"	
Molybdenum	ND		1.8	"	1	"	"	07/28/03	"	
Sodium	**260**		44	"	"	"	"	"	"	
Nickel	**42**		2.6	"	"	"	"	"	"	
Lead	**8.3**		0.44	"	"	"	"	07/31/03	EPA 6020	
Antimony	ND		0.44	"	"	"	"	"	"	
Selenium	ND	0.063	0.88	"	"	"	"	08/01/03	"	
Titanium	**820**		8.8	"	5	"	"	07/29/03	EPA 6010B	
Thallium	**0.19**		0.18	"	1	"	"	07/31/03	EPA 6020	
Vanadium	**89**		0.88	"	"	"	"	07/28/03	EPA 6010B	
Zinc	**52**		1.8	"	"	"	"	"	"	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. Unless otherwise stated, results are reported on a wet weight basis. This analytical report must be reproduced in its entirety.

Sequoia Analytical

1455 McDowell Blvd, North Ste D
Petaluma, CA 94954
(707) 792-1865
FAX (707) 792-0342
www.sequoialabs.com

Environmental Resources Management	Project:	Aerojet RI/FS	P307335
2525 Natomas Park Drive, Suite 350	Project Number:	RI-FS	**Reported:**
Sacramento CA, 95833	Project Manager:	Bruce Lewis	08/19/03 12:04

Total Metals by EPA 6000/7000 Series Methods
Sequoia Analytical - Petaluma

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
A20-BML04 (P307335-12) Soil Sampled: 07/16/03 11:30 Received: 07/16/03 14:25										
Silver	ND		0.61	mg/kg	1	3070440	07/24/03	07/28/03	EPA 6010B	
Aluminum	**15000**		44	"	"	"	"	"	"	
Arsenic	**3.1**	0.12	0.88	"	"	"	"	08/01/03	EPA 6020	
Boron	ND		8.8	"	"	"	"	07/28/03	EPA 6010B	
Barium	**170**		0.88	"	"	"	"	"	"	
Beryllium	**0.47**		0.088	"	"	"	"	"	"	
Calcium	**2000**		88	"	"	"	"	"	"	
Cadmium	**0.23**	0.23	0.88	"	"	"	"	"	"	J
Cobalt	**12**		0.61	"	"	"	"	"	"	
Chromium	**41**		0.88	"	"	"	"	"	"	
Hexavalent Chromium	**0.23**		0.21	"	"	3070631	07/30/03	07/31/03	EPA 7196A	
Copper	**28**		1.8	"	"	3070440	07/24/03	07/28/03	EPA 6010B	
Iron	**27000**		220	"	5	"	"	07/29/03	"	
Mercury	**0.036**		0.019	"	1	3070398	07/28/03	07/29/03	EPA 7471A	
Potassium	**2200**		220	"	"	3070440	07/24/03	07/28/03	EPA 6010B	
Magnesium	**4100**		44	"	"	"	"	"	"	
Manganese	**650**		4.4	"	5	"	"	07/29/03	"	
Molybdenum	ND		1.8	"	1	"	"	07/28/03	"	
Sodium	**160**		44	"	"	"	"	"	"	
Nickel	**28**		2.6	"	"	"	"	"	"	
Lead	**7.7**		0.44	"	"	"	"	07/31/03	EPA 6020	
Antimony	ND		0.44	"	"	"	"	"	"	
Selenium	ND	0.063	0.88	"	"	"	"	08/01/03	"	
Titanium	**700**		8.8	"	5	"	"	07/29/03	EPA 6010B	
Thallium	ND		0.18	"	1	"	"	07/31/03	EPA 6020	
Vanadium	**61**		0.88	"	"	"	"	07/28/03	EPA 6010B	
Zinc	**52**		1.8	"	"	"	"	"	"	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. Unless otherwise stated, results are reported on a wet weight basis. This analytical report must be reproduced in its entirety.

Sequoia Analytical

1455 McDowell Blvd, North Ste D
Petaluma, CA 94954
(707) 792-1865
FAX (707) 792-0342
www.sequoialabs.com

Environmental Resources Management	Project:	Aerojet RI/FS	P307335
2525 Natomas Park Drive, Suite 350	Project Number:	RI-FS	**Reported:**
Sacramento CA, 95833	Project Manager:	Bruce Lewis	08/19/03 12:04

Total Metals by EPA 6000/7000 Series Methods
Sequoia Analytical - Petaluma

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
A20-BML03 (P307335-13) Soil Sampled: 07/16/03 12:00 Received: 07/16/03 14:25										
Silver	ND		0.61	mg/kg	1	3070440	07/24/03	07/28/03	EPA 6010B	
Aluminum	**17000**		44	"	"	"	"	"	"	
Arsenic	**3.1**	0.12	0.88	"	"	"	"	08/01/03	EPA 6020	
Boron	ND		8.8	"	"	"	"	07/28/03	EPA 6010B	
Barium	**130**		0.88	"	"	"	"	"	"	
Beryllium	**0.51**		0.088	"	"	"	"	"	"	
Calcium	**3000**		88	"	"	"	"	"	"	
Cadmium	**0.25**	0.23	0.88	"	"	"	"	"	"	J
Cobalt	**13**		0.61	"	"	"	"	"	"	
Chromium	**46**		0.88	"	"	"	"	"	"	
Hexavalent Chromium	**0.68**		0.52	"	2.5	3070631	07/30/03	07/31/03	EPA 7196A	
Copper	**29**		1.8	"	1	3070440	07/24/03	07/28/03	EPA 6010B	
Iron	**27000**		220	"	5	"	"	07/29/03	"	
Mercury	**0.045**		0.018	"	1	3070398	07/28/03	07/29/03	EPA 7471A	
Potassium	**1800**		220	"	"	3070440	07/24/03	07/28/03	EPA 6010B	
Magnesium	**4100**		44	"	"	"	"	"	"	
Manganese	**520**		4.4	"	5	"	"	07/29/03	"	
Molybdenum	ND		1.8	"	1	"	"	07/28/03	"	
Sodium	**170**		44	"	"	"	"	"	"	
Nickel	**37**		2.6	"	"	"	"	"	"	
Lead	**6.3**		0.44	"	"	"	"	07/31/03	EPA 6020	
Antimony	ND		0.44	"	"	"	"	"	"	
Selenium	ND	0.063	0.88	"	"	"	"	08/01/03	"	
Titanium	**880**		8.8	"	5	"	"	07/29/03	EPA 6010B	
Thallium	ND		0.18	"	1	"	"	07/31/03	EPA 6020	
Vanadium	**65**		0.88	"	"	"	"	07/28/03	EPA 6010B	
Zinc	**44**		1.8	"	"	"	"	"	"	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. Unless otherwise stated, results are reported on a wet weight basis. This analytical report must be reproduced in its entirety.

Sequoia Analytical

1455 McDowell Blvd, North Ste D
Petaluma, CA 94954
(707) 792-1865
FAX (707) 792-0342
www.sequoialabs.com

Environmental Resources Management	Project:	Aerojet RI/FS	P307335
2525 Natomas Park Drive, Suite 350	Project Number:	RI-FS	**Reported:**
Sacramento CA, 95833	Project Manager:	Bruce Lewis	08/19/03 12:04

STLC CAM Metals by EPA 6000/7000 Series Methods
Sequoia Analytical - Petaluma

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
A20-BML01 (P307335-10) Soil Sampled: 07/16/03 10:20 Received: 07/16/03 14:25										
Silver	ND		0.035	mg/l	1	3070448	07/30/03	07/30/03	EPA 6010B	
Aluminum	**37**		1.0	"	"	"	"	07/30/03	"	
Arsenic	ND		0.50	"	"	"	"	07/30/03	"	
Boron	ND		0.50	"	"	"	"	07/30/03	"	
Barium	**11**		0.050	"	"	"	"	"	"	
Beryllium	**0.0074**		0.0050	"	"	"	"	"	"	
Calcium	**200**		5.0	"	"	"	"	"	"	
Cadmium	ND		0.050	"	"	"	"	"	"	
Cobalt	**0.70**		0.035	"	"	"	"	"	"	
Chromium	**0.083**		0.050	"	"	"	"	"	"	
Copper	**0.59**		0.050	"	"	"	"	"	"	
Iron	**78**		1.5	"	"	"	"	"	"	
Mercury	ND		0.0020	"	"	3070429	07/30/03	07/30/03	EPA 7470A	
Potassium	ND		12	"	"	3070448	07/30/03	07/30/03	EPA 6010B	
Magnesium	**81**		2.5	"	"	"	"	"	"	
Manganese	**33**		0.050	"	"	"	"	"	"	
Molybdenum	ND		0.10	"	"	"	"	07/30/03	"	
Nickel	**0.42**		0.15	"	"	"	"	07/30/03	"	
Lead	ND		0.38	"	"	"	"	07/30/03	"	
Antimony	ND		0.30	"	"	"	"	"	"	
Selenium	ND		0.50	"	"	"	"	"	"	
Titanium	**1.0**		0.050	"	"	"	"	07/30/03	"	
Thallium	ND		0.50	"	"	"	"	07/30/03	"	
Vanadium	**0.90**		0.050	"	"	"	"	07/30/03	"	
Zinc	**0.28**		0.10	"	"	"	"	"	"	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. Unless otherwise stated, results are reported on a wet weight basis. This analytical report must be reproduced in its entirety.

Sequoia Analytical

1455 McDowell Blvd, North Ste D
Petaluma, CA 94954
(707) 792-1865
FAX (707) 792-0342
www.sequoialabs.com

Environmental Resources Management	Project:	Aerojet RI/FS	P307335
2525 Natomas Park Drive, Suite 350	Project Number:	RI-FS	**Reported:**
Sacramento CA, 95833	Project Manager:	Bruce Lewis	08/19/03 12:04

STLC CAM Metals by EPA 6000/7000 Series Methods
Sequoia Analytical - Petaluma

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
A20-BML02 (P307335-11) Soil Sampled: 07/16/03 11:00 Received: 07/16/03 14:25										
Silver	ND		0.035	mg/l	1	3070448	07/30/03	07/30/03	EPA 6010B	
Aluminum	**37**		1.0	"	"	"	"	"	"	
Arsenic	ND		0.50	"	"	"	"	"	"	
Boron	ND		0.50	"	"	"	"	"	"	
Barium	**11**		0.050	"	"	"	"	"	"	
Beryllium	**0.0078**		0.0050	"	"	"	"	"	"	
Calcium	**200**		5.0	"	"	"	"	"	"	
Cadmium	ND		0.050	"	"	"	"	"	"	
Cobalt	**0.70**		0.035	"	"	"	"	"	"	
Chromium	**0.098**		0.050	"	"	"	"	"	"	
Copper	**0.59**		0.050	"	"	"	"	"	"	
Iron	**78**		1.5	"	"	"	"	"	"	
Mercury	ND		0.0020	"	"	3070429	07/30/03	07/30/03	EPA 7470A	
Potassium	ND		12	"	"	3070448	07/30/03	07/30/03	EPA 6010B	
Magnesium	**82**		2.5	"	"	"	"	"	"	
Manganese	**33**		0.050	"	"	"	"	"	"	
Molybdenum	ND		0.10	"	"	"	"	"	"	
Nickel	**0.35**		0.15	"	"	"	"	"	"	
Lead	ND		0.38	"	"	"	"	"	"	
Antimony	ND		0.30	"	"	"	"	"	"	
Selenium	ND		0.50	"	"	"	"	"	"	
Titanium	**1.0**		0.050	"	"	"	"	"	"	
Thallium	ND		0.50	"	"	"	"	"	"	
Vanadium	**0.91**		0.050	"	"	"	"	"	"	
Zinc	**0.28**		0.10	"	"	"	"	"	"	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. Unless otherwise stated, results are reported on a wet weight basis. This analytical report must be reproduced in its entirety.

Sequoia Analytical

1455 McDowell Blvd, North Ste D
Petaluma, CA 94954
(707) 792-1865
FAX (707) 792-0342
www.sequoialabs.com

Environmental Resources Management	Project:	Aerojet RI/FS	P307335
2525 Natomas Park Drive, Suite 350	Project Number:	RI-FS	**Reported:**
Sacramento CA, 95833	Project Manager:	Bruce Lewis	08/19/03 12:04

STLC CAM Metals by EPA 6000/7000 Series Methods
Sequoia Analytical - Petaluma

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
A20-BML04 (P307335-12) Soil Sampled: 07/16/03 11:30 Received: 07/16/03 14:25										
Silver	ND		0.035	mg/l	1	3070448	07/30/03	07/30/03	EPA 6010B	
Aluminum	**19**		1.0	"	"	"	"	"	"	
Arsenic	ND		0.50	"	"	"	"	"	"	
Boron	ND		0.50	"	"	"	"	"	"	
Barium	**6.6**		0.050	"	"	"	"	"	"	
Beryllium	ND		0.0050	"	"	"	"	"	"	
Calcium	**170**		5.0	"	"	"	"	"	"	
Cadmium	ND		0.050	"	"	"	"	"	"	
Cobalt	**0.65**		0.035	"	"	"	"	"	"	
Chromium	**0.050**		0.050	"	"	"	"	"	"	
Copper	**0.23**		0.050	"	"	"	"	"	"	
Iron	**35**		1.5	"	"	"	"	"	"	
Mercury	ND		0.0020	"	"	3070429	07/30/03	07/30/03	EPA 7470A	
Potassium	ND		12	"	"	3070448	07/30/03	07/30/03	EPA 6010B	
Magnesium	**28**		2.5	"	"	"	"	"	"	
Manganese	**29**		0.050	"	"	"	"	"	"	
Molybdenum	ND		0.10	"	"	"	"	"	"	
Nickel	**0.40**		0.15	"	"	"	"	"	"	
Lead	ND		0.38	"	"	"	"	"	"	
Antimony	ND		0.30	"	"	"	"	"	"	
Selenium	ND		0.50	"	"	"	"	"	"	
Titanium	**0.75**		0.050	"	"	"	"	"	"	
Thallium	ND		0.50	"	"	"	"	"	"	
Vanadium	**0.53**		0.050	"	"	"	"	"	"	
Zinc	**0.21**		0.10	"	"	"	"	"	"	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. Unless otherwise stated, results are reported on a wet weight basis. This analytical report must be reproduced in its entirety.

Sequoia Analytical

1455 McDowell Blvd, North Ste D
Petaluma, CA 94954
(707) 792-1865
FAX (707) 792-0342
www.sequoialabs.com

Environmental Resources Management	Project:	Aerojet RI/FS	P307335
2525 Natomas Park Drive, Suite 350	Project Number:	RI-FS	**Reported:**
Sacramento CA, 95833	Project Manager:	Bruce Lewis	08/19/03 12:04

STLC CAM Metals by EPA 6000/7000 Series Methods
Sequoia Analytical - Petaluma

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
A20-BML03 (P307335-13) Soil Sampled: 07/16/03 12:00 Received: 07/16/03 14:25										
Silver	ND		0.035	mg/l	1	3070448	07/30/03	07/30/03	EPA 6010B	
Aluminum	**24**		1.0	"	"	"	"	"	"	
Arsenic	ND		0.50	"	"	"	"	"	"	
Boron	ND		0.50	"	"	"	"	"	"	
Barium	**8.0**		0.050	"	"	"	"	"	"	
Beryllium	ND		0.0050	"	"	"	"	"	"	
Calcium	**130**		5.0	"	"	"	"	"	"	
Cadmium	ND		0.050	"	"	"	"	"	"	
Cobalt	**0.53**		0.035	"	"	"	"	"	"	
Chromium	**0.063**		0.050	"	"	"	"	"	"	
Copper	**0.19**		0.050	"	"	"	"	"	"	
Iron	**56**		1.5	"	"	"	"	"	"	
Mercury	ND		0.0020	"	"	3070429	07/30/03	07/30/03	EPA 7470A	
Potassium	ND		12	"	"	3070448	07/30/03	07/30/03	EPA 6010B	
Magnesium	**35**		2.5	"	"	"	"	"	"	
Manganese	**35**		0.050	"	"	"	"	"	"	
Molybdenum	ND		0.10	"	"	"	"	"	"	
Nickel	**0.31**		0.15	"	"	"	"	"	"	
Lead	ND		0.38	"	"	"	"	"	"	
Antimony	ND		0.30	"	"	"	"	"	"	
Selenium	ND		0.50	"	"	"	"	"	"	
Titanium	**0.99**		0.050	"	"	"	"	"	"	
Thallium	ND		0.50	"	"	"	"	"	"	
Vanadium	**0.33**		0.050	"	"	"	"	"	"	
Zinc	**0.37**		0.10	"	"	"	"	"	"	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. Unless otherwise stated, results are reported on a wet weight basis. This analytical report must be reproduced in its entirety.

Sequoia Analytical

1455 McDowell Blvd, North Ste D
Petaluma, CA 94954
(707) 792-1865
FAX (707) 792-0342
www.sequoialabs.com

Environmental Resources Management	Project:	Aerojet RI/FS	P307335
2525 Natomas Park Drive, Suite 350	Project Number:	RI-FS	**Reported:**
Sacramento CA, 95833	Project Manager:	Bruce Lewis	08/19/03 12:04

DI STLC CAM Metals by EPA 6000/7000 Series Methods
Sequoia Analytical - Petaluma

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
A20-BML01 (P307335-10) Soil	**Sampled: 07/16/03 10:20**		**Received: 07/16/03 14:25**							
Hexavalent Chromium	ND		0.025	mg/l	5	3070608	07/31/03	07/31/03	EPA 7196	R-01
A20-BML02 (P307335-11) Soil	**Sampled: 07/16/03 11:00**		**Received: 07/16/03 14:25**							
Hexavalent Chromium	ND		0.025	mg/l	5	3070608	07/31/03	07/31/03	EPA 7196	R-01
A20-BML04 (P307335-12) Soil	**Sampled: 07/16/03 11:30**		**Received: 07/16/03 14:25**							
Hexavalent Chromium	ND		0.025	mg/l	5	3070608	07/31/03	07/31/03	EPA 7196	R-01
A20-BML03 (P307335-13) Soil	**Sampled: 07/16/03 12:00**		**Received: 07/16/03 14:25**							
Hexavalent Chromium	ND		0.025	mg/l	5	3070608	07/31/03	07/31/03	EPA 7196	R-01

The results in this report apply to the samples analyzed in accordance with the chain of custody document. Unless otherwise stated, results are reported on a wet weight basis. This analytical report must be reproduced in its entirety.

Sequoia Analytical

1455 McDowell Blvd, North Ste D
Petaluma, CA 94954
(707) 792-1865
FAX (707) 792-0342
www.sequoialabs.com

Environmental Resources Management	Project:	Aerojet RI/FS	P307335
2525 Natomas Park Drive, Suite 350	Project Number:	RI-FS	**Reported:**
Sacramento CA, 95833	Project Manager:	Bruce Lewis	08/19/03 12:04

Tentatively Identified Compounds by GC/MS
Sequoia Analytical - Petaluma

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C4-SNS01 (P307335-08) Soil Sampled: 07/16/03 06:50 Received: 07/16/03 14:25										
Ergost-5-en-3-ol, (3.beta.)-	**900**			ug/kg	1	3070476	07/24/03	07/25/03	EPA 8270C	
Sitosterol	**1000**			"	"	"	"	"	"	
Stigmast-4-en-3-one	**600**			"	"	"	"	"	"	
Unknown 1	**400**			"	"	"	"	"	"	
Unknown 2	**400**			"	"	"	"	"	"	
Unknown 3	**600**			"	"	"	"	"	"	
Unknown 4	**400**			"	"	"	"	"	"	
Unknown 5	**300**			"	"	"	"	"	"	
Unknown alkane (C24-C28 range)	**300**			"	"	"	"	"	"	
Unknown alkane (C30-C34 range)	**1000**			"	"	"	"	"	"	
C4-SNS02 (P307335-09) Soil Sampled: 07/16/03 07:10 Received: 07/16/03 14:25										
Diethyl phthalate	**300**			ug/kg	1	3070476	07/24/03	07/25/03	EPA 8270C	
Sulfur, mol. (S8)	**200**			"	"	"	"	"	"	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. Unless otherwise stated, results are reported on a wet weight basis. This analytical report must be reproduced in its entirety.

Sequoia Analytical

1455 McDowell Blvd, North Ste D
Petaluma, CA 94954
(707) 792-1865
FAX (707) 792-0342
www.sequoialabs.com

Environmental Resources Management	Project:	Aerojet RI/FS	P307335
2525 Natomas Park Drive, Suite 350	Project Number:	RI-FS	**Reported:**
Sacramento CA, 95833	Project Manager:	Bruce Lewis	08/19/03 12:04

Semivolatile Organic Compounds by EPA Method 8270C
Sequoia Analytical - Petaluma

C4-SNS01 (P307335-08) Soil Sampled: 07/16/03 06:50 Received: 07/16/03 14:25

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	8.7	330	ug/kg	1	3070476	07/24/03	07/25/03	EPA 8270C	
Acenaphthylene	ND	7.6	330	"	"	"	"	"	"	
Anthracene	ND	14	330	"	"	"	"	"	"	
Azobenzene	ND	20	330	"	"	"	"	"	"	
Benzidine	ND	1700	1700	"	"	"	"	"	"	
Benzoic acid	ND	2.7	1700	"	"	"	"	"	"	
Benzo (a) anthracene	ND	7.6	330	"	"	"	"	"	"	
Benzo (b+k) fluoranthene (total)	ND	13	330	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	8.8	330	"	"	"	"	"	"	
Benzo (a) pyrene	ND	10	330	"	"	"	"	"	"	
Benzyl alcohol	ND	11	660	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	9.1	330	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	15	330	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	16	330	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	9.3	330	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	13	330	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	11	330	"	"	"	"	"	"	
4-Chloroaniline	ND	58	660	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	11	660	"	"	"	"	"	"	
2-Chloronaphthalene	ND	9.9	330	"	"	"	"	"	"	
2-Chlorophenol	ND	16	330	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	13	330	"	"	"	"	"	"	
Chrysene	ND	11	330	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	18	330	"	"	"	"	"	"	
Dibenzofuran	ND	9.6	330	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	12	330	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	16	330	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	14	330	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	15	330	"	"	"	"	"	"	
3,3´-Dichlorobenzidine	ND	44	660	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	15	330	"	"	"	"	"	"	
Diethyl phthalate	ND	14	330	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	36	330	"	"	"	"	"	"	
Dimethyl phthalate	ND	11	330	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	17	1700	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	10	1700	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	20	330	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	13	330	"	"	"	"	"	"	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. Unless otherwise stated, results are reported on a wet weight basis. This analytical report must be reproduced in its entirety.

Sequoia Analytical

1455 McDowell Blvd, North Ste D
Petaluma, CA 94954
(707) 792-1865
FAX (707) 792-0342
www.sequoialabs.com

Environmental Resources Management	Project:	Aerojet RI/FS	P307335
2525 Natomas Park Drive, Suite 350	Project Number:	RI-FS	**Reported:**
Sacramento CA, 95833	Project Manager:	Bruce Lewis	08/19/03 12:04

Semivolatile Organic Compounds by EPA Method 8270C
Sequoia Analytical - Petaluma

C4-SNS01 (P307335-08) Soil Sampled: 07/16/03 06:50 Received: 07/16/03 14:25

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Di-n-octyl phthalate	ND	11	330	ug/kg	1	3070476	07/24/03	07/25/03	EPA 8270C	
Fluoranthene	ND	11	330	"	"	"	"	"	"	
Fluorene	ND	7.9	330	"	"	"	"	"	"	
Hexachlorobenzene	ND	15	330	"	"	"	"	"	"	
Hexachlorobutadiene	ND	17	330	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	10	330	"	"	"	"	"	"	
Hexachloroethane	ND	17	330	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	11	330	"	"	"	"	"	"	
Isophorone	ND	14	330	"	"	"	"	"	"	
2-Methylnaphthalene	ND	10	330	"	"	"	"	"	"	
2-Methylphenol	ND	16	330	"	"	"	"	"	"	
4-Methylphenol	ND	11	330	"	"	"	"	"	"	
Naphthalene	ND	13	330	"	"	"	"	"	"	
2-Nitroaniline	ND	17	1700	"	"	"	"	"	"	
3-Nitroaniline	ND	18	1700	"	"	"	"	"	"	
4-Nitroaniline	ND	22	1700	"	"	"	"	"	"	
Nitrobenzene	ND	16	330	"	"	"	"	"	"	
2-Nitrophenol	ND	14	330	"	"	"	"	"	"	
4-Nitrophenol	ND	23	1700	"	"	"	"	"	"	
N-Nitrosodimethylamine	ND	16	330	"	"	"	"	"	"	
N-Nitrosodiphenylamine	ND	17	330	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	15	330	"	"	"	"	"	"	
Pentachlorophenol	ND	12	1700	"	"	"	"	"	"	
Phenanthrene	ND	14	330	"	"	"	"	"	"	
Phenol	ND	12	330	"	"	"	"	"	"	
Pyrene	ND	12	330	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	15	330	"	"	"	"	"	"	
2,4,5-Trichlorophenol	ND	14	330	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	9.4	330	"	"	"	"	"	"	
Surrogate: 2-Fluorophenol		*58 %*	*11-120*			"	"	"	"	
Surrogate: Phenol-d6		*75 %*	*16-130*			"	"	"	"	
Surrogate: Nitrobenzene-d5		*69 %*	*16-126*			"	"	"	"	
Surrogate: 2-Fluorobiphenyl		*77 %*	*28-134*			"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		*83 %*	*51-144*			"	"	"	"	
Surrogate: Terphenyl-d14		*83 %*	*64-119*			"	"	"	"	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. Unless otherwise stated, results are reported on a wet weight basis. This analytical report must be reproduced in its entirety.

Sequoia Analytical

1455 McDowell Blvd, North Ste D
Petaluma, CA 94954
(707) 792-1865
FAX (707) 792-0342
www.sequoialabs.com

Environmental Resources Management	Project:	Aerojet RI/FS	P307335
2525 Natomas Park Drive, Suite 350	Project Number:	RI-FS	**Reported:**
Sacramento CA, 95833	Project Manager:	Bruce Lewis	08/19/03 12:04

Semivolatile Organic Compounds by EPA Method 8270C
Sequoia Analytical - Petaluma

C4-SNS02 (P307335-09) Soil Sampled: 07/16/03 07:10 Received: 07/16/03 14:25

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	8.7	330	ug/kg	1	3070476	07/24/03	07/25/03	EPA 8270C	
Acenaphthylene	ND	7.6	330	"	"	"	"	"	"	
Anthracene	ND	14	330	"	"	"	"	"	"	
Azobenzene	ND	20	330	"	"	"	"	"	"	
Benzidine	ND	1700	1700	"	"	"	"	"	"	
Benzoic acid	ND	2.7	1700	"	"	"	"	"	"	
Benzo (a) anthracene	ND	7.6	330	"	"	"	"	"	"	
Benzo (b+k) fluoranthene (total)	ND	13	330	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	8.8	330	"	"	"	"	"	"	
Benzo (a) pyrene	ND	10	330	"	"	"	"	"	"	
Benzyl alcohol	ND	11	660	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	9.1	330	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	15	330	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	16	330	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	9.3	330	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	13	330	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	11	330	"	"	"	"	"	"	
4-Chloroaniline	ND	58	660	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	11	660	"	"	"	"	"	"	
2-Chloronaphthalene	ND	9.9	330	"	"	"	"	"	"	
2-Chlorophenol	ND	16	330	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	13	330	"	"	"	"	"	"	
Chrysene	ND	11	330	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	18	330	"	"	"	"	"	"	
Dibenzofuran	ND	9.6	330	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	12	330	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	16	330	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	14	330	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	15	330	"	"	"	"	"	"	
3,3´-Dichlorobenzidine	ND	44	660	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	15	330	"	"	"	"	"	"	
Diethyl phthalate	ND	14	330	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	36	330	"	"	"	"	"	"	
Dimethyl phthalate	ND	11	330	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	17	1700	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	10	1700	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	20	330	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	13	330	"	"	"	"	"	"	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. Unless otherwise stated, results are reported on a wet weight basis. This analytical report must be reproduced in its entirety.

Sequoia Analytical

1455 McDowell Blvd, North Ste D
Petaluma, CA 94954
(707) 792-1865
FAX (707) 792-0342
www.sequoialabs.com

Environmental Resources Management	Project:	Aerojet RI/FS	P307335
2525 Natomas Park Drive, Suite 350	Project Number:	RI-FS	**Reported:**
Sacramento CA, 95833	Project Manager:	Bruce Lewis	08/19/03 12:04

Semivolatile Organic Compounds by EPA Method 8270C
Sequoia Analytical - Petaluma

C4-SNS02 (P307335-09) Soil Sampled: 07/16/03 07:10 Received: 07/16/03 14:25

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Di-n-octyl phthalate	ND	11	330	ug/kg	1	3070476	07/24/03	07/25/03	EPA 8270C	
Fluoranthene	ND	11	330	"	"	"	"	"	"	
Fluorene	ND	7.9	330	"	"	"	"	"	"	
Hexachlorobenzene	ND	15	330	"	"	"	"	"	"	
Hexachlorobutadiene	ND	17	330	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	10	330	"	"	"	"	"	"	
Hexachloroethane	ND	17	330	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	11	330	"	"	"	"	"	"	
Isophorone	ND	14	330	"	"	"	"	"	"	
2-Methylnaphthalene	ND	10	330	"	"	"	"	"	"	
2-Methylphenol	ND	16	330	"	"	"	"	"	"	
4-Methylphenol	ND	11	330	"	"	"	"	"	"	
Naphthalene	ND	13	330	"	"	"	"	"	"	
2-Nitroaniline	ND	17	1700	"	"	"	"	"	"	
3-Nitroaniline	ND	18	1700	"	"	"	"	"	"	
4-Nitroaniline	ND	22	1700	"	"	"	"	"	"	
Nitrobenzene	ND	16	330	"	"	"	"	"	"	
2-Nitrophenol	ND	14	330	"	"	"	"	"	"	
4-Nitrophenol	ND	23	1700	"	"	"	"	"	"	
N-Nitrosodimethylamine	ND	16	330	"	"	"	"	"	"	
N-Nitrosodiphenylamine	ND	17	330	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	15	330	"	"	"	"	"	"	
Pentachlorophenol	ND	12	1700	"	"	"	"	"	"	
Phenanthrene	ND	14	330	"	"	"	"	"	"	
Phenol	ND	12	330	"	"	"	"	"	"	
Pyrene	ND	12	330	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	15	330	"	"	"	"	"	"	
2,4,5-Trichlorophenol	ND	14	330	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	9.4	330	"	"	"	"	"	"	
Surrogate: 2-Fluorophenol		*59 %*	*11-120*			"	"	"	"	
Surrogate: Phenol-d6		*74 %*	*16-130*			"	"	"	"	
Surrogate: Nitrobenzene-d5		*66 %*	*16-126*			"	"	"	"	
Surrogate: 2-Fluorobiphenyl		*40 %*	*28-134*			"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		*78 %*	*51-144*			"	"	"	"	
Surrogate: Terphenyl-d14		*67 %*	*64-119*			"	"	"	"	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. Unless otherwise stated, results are reported on a wet weight basis. This analytical report must be reproduced in its entirety.

Sequoia Analytical

1455 McDowell Blvd, North Ste D
Petaluma, CA 94954
(707) 792-1865
FAX (707) 792-0342
www.sequoialabs.com

Environmental Resources Management	Project:	Aerojet RI/FS	P307335
2525 Natomas Park Drive, Suite 350	Project Number:	RI-FS	**Reported:**
Sacramento CA, 95833	Project Manager:	Bruce Lewis	08/19/03 12:04

Total Metals by EPA 6000/7000 Series Methods - Quality Control

Sequoia Analytical - Petaluma

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3070398 - EPA 7471A											
Blank (3070398-BLK1)					Prepared: 07/28/03	Analyzed: 07/29/03					
Mercury	ND		0.018	mg/kg							
Laboratory Control Sample (3070398-BS1)					Prepared: 07/28/03	Analyzed: 07/29/03					
Mercury	0.0954		0.018	mg/kg	0.117		82	80-120			
Duplicate (3070398-DUP1)		**Source: P307335-01**			Prepared: 07/28/03	Analyzed: 07/29/03					
Mercury	0.0901		0.096	mg/kg		0.079			13	10	QR-07
Matrix Spike (3070398-MS1)		**Source: P307335-01**			Prepared: 07/28/03	Analyzed: 07/29/03					
Mercury	0.173		0.020	mg/kg	0.131	0.079	72	80-120			QM-07
Matrix Spike Dup (3070398-MSD1)		**Source: P307335-01**			Prepared: 07/28/03	Analyzed: 07/29/03					
Mercury	0.171		0.017	mg/kg	0.113	0.079	81	80-120	1	20	
Post Spike (3070398-PS1)		**Source: P307335-01**			Prepared: 07/28/03	Analyzed: 07/29/03					
Mercury	0.277		0.019	mg/kg	0.128	0.079	155	80-120			QM-07
Batch 3070440 - EPA 3050B											
Blank (3070440-BLK1)					Prepared: 07/24/03	Analyzed: 07/28/03					
Aluminum	ND		50	mg/kg							
Antimony	ND		0.50	"							
Arsenic	0.268	0.14	1.0	"							J
Barium	ND		1.0	"							
Beryllium	ND		0.10	"							
Boron	ND		10	"							
Cadmium	ND	0.26	1.0	"							
Calcium	ND		100	"							
Chromium	ND		1.0	"							
Cobalt	ND		0.70	"							
Copper	ND		2.0	"							
Iron	ND		50	"							
Lead	ND		0.50	"							
Magnesium	ND		50	"							
Manganese	ND		1.0	"							
Molybdenum	ND		2.0	"							
Nickel	ND		3.0	"							
Potassium	ND		250	"							
Selenium	ND	0.072	1.0	"							
Silver	ND		0.70	"							
Sodium	ND		50	"							

The results in this report apply to the samples analyzed in accordance with the chain of custody document. Unless otherwise stated, results are reported on a wet weight basis. This analytical report must be reproduced in its entirety.

Sequoia Analytical

1455 McDowell Blvd, North Ste D
Petaluma, CA 94954
(707) 792-1865
FAX (707) 792-0342
www.sequoialabs.com

Environmental Resources Management	Project:	Aerojet RI/FS	P307335
2525 Natomas Park Drive, Suite 350	Project Number:	RI-FS	**Reported:**
Sacramento CA, 95833	Project Manager:	Bruce Lewis	08/19/03 12:04

Total Metals by EPA 6000/7000 Series Methods - Quality Control

Sequoia Analytical - Petaluma

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3070440 - EPA 3050B											
Blank (3070440-BLK1)					Prepared: 07/24/03 Analyzed: 07/30/03						
Thallium	ND		0.20	mg/kg							
Titanium	ND		2.0	"							
Vanadium	ND		1.0	"							
Zinc	ND		2.0	"							
Laboratory Control Sample (3070440-BS1)					Prepared: 07/24/03 Analyzed: 07/28/03						
Aluminum	476		50	mg/kg	500		95	80-120			
Antimony	51.7		0.50	"	50.0		103	80-120			
Arsenic	52.0	0.14	1.0	"	50.0		104	80-120			
Barium	50.0		1.0	"	50.0		100	80-120			
Beryllium	5.07		0.10	"	5.00		101	80-120			
Boron	48.5		10	"	50.0		97	80-120			
Cadmium	5.13	0.26	1.0	"	5.00		103	80-120			
Calcium	497		100	"	500		99	80-120			
Chromium	51.4		1.0	"	50.0		103	80-120			
Cobalt	48.7		0.70	"	50.0		97	80-120			
Copper	49.4		2.0	"	50.0		99	80-120			
Iron	533		50	"	500		107	80-120			
Lead	50.6		0.50	"	50.0		101	80-120			
Magnesium	484		50	"	500		97	80-120			
Manganese	50.1		1.0	"	50.0		100	80-120			
Molybdenum	49.3		2.0	"	50.0		99	80-120			
Nickel	51.5		3.0	"	50.0		103	80-120			
Potassium	553		250	"	500		111	80-120			
Selenium	50.3	0.072	1.0	"	50.0		101	80-120			
Silver	4.84		0.70	"	5.00		97	80-120			
Sodium	508		50	"	500		102	80-120			
Thallium	51.8		0.20	"	50.0		104	80-120			
Titanium	49.0		2.0	"	50.0		98	80-120			
Vanadium	50.6		1.0	"	50.0		101	80-120			
Zinc	48.6		2.0	"	50.0		97	80-120			

The results in this report apply to the samples analyzed in accordance with the chain of custody document. Unless otherwise stated, results are reported on a wet weight basis. This analytical report must be reproduced in its entirety.

Sequoia Analytical

1455 McDowell Blvd, North Ste D
Petaluma, CA 94954
(707) 792-1865
FAX (707) 792-0342
www.sequoialabs.com

Environmental Resources Management	Project:	Aerojet RI/FS	P307335
2525 Natomas Park Drive, Suite 350	Project Number:	RI-FS	**Reported:**
Sacramento CA, 95833	Project Manager:	Bruce Lewis	08/19/03 12:04

Total Metals by EPA 6000/7000 Series Methods - Quality Control

Sequoia Analytical - Petaluma

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3070440 - EPA 3050B											
Duplicate (3070440-DUP1)	**Source: P307335-01**			Prepared: 07/24/03 Analyzed: 07/28/03							
Aluminum	30400		220	mg/kg		29000			5	10	
Antimony	ND		2.2	"		0.43				10	
Arsenic	4.51	0.61	4.3	"		7.5			50	10	QR-07
Barium	267		4.3	"		250			7	10	
Beryllium	1.04		0.43	"		0.92			12	10	QR-07
Boron	ND		43	"		1.4				10	
Cadmium	ND	1.1	4.3	"		0.32				10	
Calcium	3520		430	"		3300			6	10	
Chromium	87.4		4.3	"		81			8	10	
Cobalt	27.1		3.0	"		24			12	10	QR-07
Copper	60.1		8.6	"		58			4	10	
Iron	44400		220	"		41000			8	10	
Lead	21.0		2.2	"		20			5	10	
Magnesium	7160		220	"		6800			5	10	
Manganese	1070		4.3	"		1000			7	10	
Molybdenum	3.59		8.6	"		1.6				10	
Nickel	66.5		13	"		60			10	10	
Potassium	3100		1100	"		2800			10	10	
Selenium	ND	0.31	4.3	"		0.30				10	
Silver	1.22		3.0	"		ND				10	
Sodium	196		220	"		180			9	10	
Thallium	0.136		0.86	"		0.20			38	10	QR-07
Titanium	1030		8.6	"		970			6	10	
Vanadium	114		4.3	"		110			4	10	
Zinc	89.6		8.6	"		82			9	10	
Matrix Spike (3070440-MS1)	**Source: P307335-01**			Prepared: 07/24/03 Analyzed: 07/28/03							
Aluminum	42100		46	mg/kg	463	29000	NR	80-120			QM-4X
Antimony	17.5		0.46	"	46.3	0.43	37	80-120			
Arsenic	45.1	0.13	0.93	"	46.3	7.5	81	80-120			
Barium	316		0.93	"	46.3	250	143	80-120			QM-4X
Beryllium	5.58		0.093	"	4.63	0.92	101	80-120			
Boron	39.5		9.3	"	46.3	1.4	82	80-120			
Cadmium	4.92	0.24	0.93	"	4.63	0.32	99	80-120			
Calcium	4030		93	"	463	3300	158	80-120			QM-4X
Chromium	139		0.93	"	46.3	81	125	80-120			QM-07
Cobalt	69.8		0.65	"	46.3	24	99	80-120			

The results in this report apply to the samples analyzed in accordance with the chain of custody document. Unless otherwise stated, results are reported on a wet weight basis. This analytical report must be reproduced in its entirety.

Sequoia Analytical

1455 McDowell Blvd, North Ste D
Petaluma, CA 94954
(707) 792-1865
FAX (707) 792-0342
www.sequoialabs.com

Environmental Resources Management	Project:	Aerojet RI/FS	P307335
2525 Natomas Park Drive, Suite 350	Project Number:	RI-FS	**Reported:**
Sacramento CA, 95833	Project Manager:	Bruce Lewis	08/19/03 12:04

Total Metals by EPA 6000/7000 Series Methods - Quality Control

Sequoia Analytical - Petaluma

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3070440 - EPA 3050B											
Matrix Spike (3070440-MS1)		**Source: P307335-01**			Prepared: 07/24/03	Analyzed: 07/28/03					
Copper	110		1.9	mg/kg	46.3	58	112	80-120			
Iron	51400		230	"	463	41000	NR	80-120			QM-4X
Lead	63.8		0.46	"	46.3	20	95	80-120			
Magnesium	7980		46	"	463	6800	255	80-120			QM-4X
Manganese	1210		4.6	"	46.3	1000	454	80-120			QM-4X
Molybdenum	40.8		1.9	"	46.3	1.6	85	80-120			
Nickel	118		2.8	"	46.3	60	125	80-120			QM-07
Potassium	3550		230	"	463	2800	162	80-120			QM-4X
Selenium	35.1	0.067	0.93	"	46.3	0.30	75	80-120			QM-07
Silver	3.10		0.65	"	4.63	ND	67	80-120			QM-07
Sodium	663		46	"	463	180	104	80-120			
Thallium	43.8		0.19	"	46.3	0.20	94	80-120			
Titanium	1270		9.3	"	46.3	970	648	80-120			QM-4X
Vanadium	164		0.93	"	46.3	110	117	80-120			
Zinc	133		1.9	"	46.3	82	110	80-120			
Matrix Spike Dup (3070440-MSD1)		**Source: P307335-01**			Prepared: 07/24/03	Analyzed: 07/28/03					
Aluminum	42700		48	mg/kg	481	29000	NR	80-120	1	20	QM-4X
Antimony	17.2		0.48	"	48.1	0.43	35	80-120	2	20	QM-07
Arsenic	45.0	0.14	0.96	"	48.1	7.5	78	80-120	0.2	20	QM-07
Barium	321		0.96	"	48.1	250	148	80-120	2	20	QM-4X
Beryllium	5.80		0.096	"	4.81	0.92	101	80-120	4	20	
Boron	42.2		9.6	"	48.1	1.4	85	80-120	7	20	
Cadmium	4.88	0.25	0.96	"	4.81	0.32	95	80-120	0.8	20	
Calcium	4250		96	"	481	3300	198	80-120	5	20	QM-4X
Chromium	139		0.96	"	48.1	81	121	80-120	0	20	QM-07
Cobalt	69.1		0.67	"	48.1	24	94	80-120	1	20	
Copper	113		1.9	"	48.1	58	114	80-120	3	20	
Iron	51200		240	"	481	41000	NR	80-120	0.4	20	QM-4X
Lead	66.5		0.48	"	48.1	20	97	80-120	4	20	
Magnesium	8080		48	"	481	6800	266	80-120	1	20	QM-4X
Manganese	1140		4.8	"	48.1	1000	291	80-120	6	20	QM-4X
Molybdenum	42.0		1.9	"	48.1	1.6	84	80-120	3	20	
Nickel	120		2.9	"	48.1	60	125	80-120	2	20	QM-07
Potassium	3520		240	"	481	2800	150	80-120	0.8	20	QM-4X
Selenium	35.4	0.069	0.96	"	48.1	0.30	73	80-120	0.9	20	QM-07
Silver	3.21		0.67	"	4.81	ND	67	80-120	3	20	QM-07

The results in this report apply to the samples analyzed in accordance with the chain of custody document. Unless otherwise stated, results are reported on a wet weight basis. This analytical report must be reproduced in its entirety.

Sequoia Analytical

1455 McDowell Blvd, North Ste D
Petaluma, CA 94954
(707) 792-1865
FAX (707) 792-0342
www.sequoialabs.com

Environmental Resources Management	Project:	Aerojet RI/FS	P307335
2525 Natomas Park Drive, Suite 350	Project Number:	RI-FS	**Reported:**
Sacramento CA, 95833	Project Manager:	Bruce Lewis	08/19/03 12:04

Total Metals by EPA 6000/7000 Series Methods - Quality Control

Sequoia Analytical - Petaluma

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3070440 - EPA 3050B											
Matrix Spike Dup (3070440-MSD1)	**Source: P307335-01**				Prepared: 07/24/03	Analyzed: 07/28/03					
Sodium	695		48	mg/kg	481	180	107	80-120	5	20	
Thallium	46.0		0.19	"	48.1	0.20	95	80-120	5	20	
Titanium	1280		9.6	"	48.1	970	644	80-120	0.8	20	QM-4X
Vanadium	165		0.96	"	48.1	110	114	80-120	0.6	20	
Zinc	145		1.9	"	48.1	82	131	80-120	9	20	QM-07
Post Spike (3070440-PS1)	**Source: P307335-01**				Prepared: 07/24/03	Analyzed: 07/28/03					
Aluminum	29400		43	mg/kg	431	29000	93	80-120			QM-4X
Antimony	44.4		0.43	"	43.1	0.43	102	80-120			
Arsenic	43.6	0.12	0.86	"	43.1	7.5	84	80-120			
Barium	293		0.86	"	43.1	250	100	80-120			
Beryllium	5.07		0.086	"	4.31	0.92	96	80-120			
Boron	42.3		8.6	"	43.1	1.4	95	80-120			
Cadmium	4.36	0.22	0.86	"	4.31	0.32	94	80-120			
Calcium	3680		86	"	431	3300	88	80-120			
Chromium	122		0.86	"	43.1	81	95	80-120			
Cobalt	63.7		0.60	"	43.1	24	92	80-120			
Copper	97.6		1.7	"	43.1	58	92	80-120			
Iron	41900		43	"	431	41000	209	80-120			QM-4X
Lead	60.7		0.43	"	43.1	20	94	80-120			
Magnesium	7240		43	"	431	6800	102	80-120			
Manganese	1050		0.86	"	43.1	1000	116	80-120			
Molybdenum	42.5		1.7	"	43.1	1.6	95	80-120			
Nickel	102		2.6	"	43.1	60	97	80-120			
Potassium	3140		220	"	431	2800	79	80-120			QM-4X
Selenium	34.8	0.062	0.86	"	43.1	0.30	80	80-120			
Silver	3.15		0.60	"	4.31	ND	73	80-120			QM-07
Sodium	587		43	"	431	180	94	80-120			
Thallium	41.8		0.17	"	43.1	0.20	97	80-120			
Titanium	1010		1.7	"	43.1	970	93	80-120			
Vanadium	147		0.86	"	43.1	110	86	80-120			
Zinc	120		1.7	"	43.1	82	88	80-120			

The results in this report apply to the samples analyzed in accordance with the chain of custody document. Unless otherwise stated, results are reported on a wet weight basis. This analytical report must be reproduced in its entirety.

Sequoia Analytical

1455 McDowell Blvd, North Ste D
Petaluma, CA 94954
(707) 792-1865
FAX (707) 792-0342
www.sequoialabs.com

Environmental Resources Management	Project:	Aerojet RI/FS	P307335
2525 Natomas Park Drive, Suite 350	Project Number:	RI-FS	**Reported:**
Sacramento CA, 95833	Project Manager:	Bruce Lewis	08/19/03 12:04

Total Metals by EPA 6000/7000 Series Methods - Quality Control

Sequoia Analytical - Petaluma

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3070631 - General Preparation											
Blank (3070631-BLK1)					Prepared: 07/30/03	Analyzed: 07/31/03					
Hexavalent Chromium	ND		0.21	mg/kg							
Laboratory Control Sample (3070631-BS1)					Prepared: 07/30/03	Analyzed: 07/31/03					
Hexavalent Chromium	4.32		0.21	mg/kg	4.00		108	80-120			
Matrix Spike (3070631-MS1)		**Source: P307335-01**			Prepared: 07/30/03	Analyzed: 07/31/03					
Hexavalent Chromium	2.72		0.21	mg/kg	4.00	ND	68	75-125			QM-07
Matrix Spike (3070631-MS2)		**Source: P307335-01**			Prepared: 07/30/03	Analyzed: 07/31/03					
Hexavalent Chromium	636		21	mg/kg	953	ND	67	75-125			QM-07
Matrix Spike (3070631-MS3)		**Source: P307335-01**			Prepared: 07/30/03	Analyzed: 07/31/03					
Hexavalent Chromium	2.90		0.21	mg/kg	3.97	ND	73	75-125			QM-07
Matrix Spike Dup (3070631-MSD1)		**Source: P307335-01**			Prepared: 07/30/03	Analyzed: 07/31/03					
Hexavalent Chromium	1.78		0.21	mg/kg	4.00	ND	44	75-125	42	20	QM-07, QR-07
Matrix Spike Dup (3070631-MSD2)		**Source: P307335-01**			Prepared: 07/30/03	Analyzed: 07/31/03					
Hexavalent Chromium	471		5.2	mg/kg	676	ND	70	75-125	30	20	QM-07, QR-07
Matrix Spike Dup (3070631-MSD3)		**Source: P307335-01**			Prepared: 07/30/03	Analyzed: 07/31/03					
Hexavalent Chromium	3.52		0.21	mg/kg	3.97	ND	89	75-125	19	20	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. Unless otherwise stated, results are reported on a wet weight basis. This analytical report must be reproduced in its entirety.

Sequoia Analytical

1455 McDowell Blvd, North Ste D
Petaluma, CA 94954
(707) 792-1865
FAX (707) 792-0342
www.sequoialabs.com

Environmental Resources Management	Project:	Aerojet RI/FS	P307335
2525 Natomas Park Drive, Suite 350	Project Number:	RI-FS	**Reported:**
Sacramento CA, 95833	Project Manager:	Bruce Lewis	08/19/03 12:04

STLC CAM Metals by EPA 6000/7000 Series Methods - Quality Control

Sequoia Analytical - Petaluma

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3070429 - EPA 245/7470A											
Blank (3070429-BLK1)					Prepared & Analyzed: 07/30/03						
Mercury	ND		0.0020	mg/l							
Laboratory Control Sample (3070429-BS1)					Prepared & Analyzed: 07/30/03						
Mercury	0.0158		0.0020	mg/l	0.0159		99	80-120			
Matrix Spike (3070429-MS1)		**Source: P307335-10**			Prepared & Analyzed: 07/30/03						
Mercury	0.0151		0.0020	mg/l	0.0159	ND	95	80-120			
Matrix Spike Dup (3070429-MSD1)		**Source: P307335-10**			Prepared & Analyzed: 07/30/03						
Mercury	0.0152		0.0020	mg/l	0.0159	ND	96	80-120	0.7	20	
Batch 3070448 - Title 22-STLC											
Blank (3070448-BLK1)					Prepared & Analyzed: 07/30/03						
Aluminum	ND		1.0	mg/l							
Antimony	ND		0.30	"							
Arsenic	ND		0.50	"							
Barium	ND		0.050	"							
Beryllium	ND		0.0050	"							
Boron	ND		0.50	"							
Cadmium	ND		0.050	"							
Calcium	ND		5.0	"							
Chromium	ND		0.050	"							
Cobalt	ND		0.035	"							
Copper	ND		0.050	"							
Iron	ND		1.5	"							
Lead	ND		0.38	"							
Magnesium	ND		2.5	"							
Manganese	ND		0.050	"							
Molybdenum	ND		0.10	"							
Nickel	ND		0.15	"							
Potassium	ND		12	"							
Selenium	ND		0.50	"							
Silver	ND		0.035	"							
Thallium	ND		0.50	"							
Titanium	ND		0.050	"							
Vanadium	ND		0.050	"							
Zinc	ND		0.10	"							

The results in this report apply to the samples analyzed in accordance with the chain of custody document. Unless otherwise stated, results are reported on a wet weight basis. This analytical report must be reproduced in its entirety.

Sequoia Analytical

1455 McDowell Blvd, North Ste D
Petaluma, CA 94954
(707) 792-1865
FAX (707) 792-0342
www.sequoialabs.com

Environmental Resources Management	Project:	Aerojet RI/FS	P307335
2525 Natomas Park Drive, Suite 350	Project Number:	RI-FS	**Reported:**
Sacramento CA, 95833	Project Manager:	Bruce Lewis	08/19/03 12:04

STLC CAM Metals by EPA 6000/7000 Series Methods - Quality Control

Sequoia Analytical - Petaluma

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3070448 - Title 22-STLC											
Laboratory Control Sample (3070448-BS1)					Prepared & Analyzed: 07/30/03						
Aluminum	24.6		1.0	mg/l	25.0		98	80-120			
Antimony	2.52		0.30	"	2.50		101	80-120			
Arsenic	2.63		0.50	"	2.50		105	80-120			
Barium	2.39		0.050	"	2.50		96	80-120			
Beryllium	0.238		0.0050	"	0.250		95	80-120			
Boron	2.42		0.50	"	2.50		97	80-120			
Cadmium	0.248		0.050	"	0.250		99	80-120			
Calcium	26.5		5.0	"	25.0		106	80-120			
Chromium	2.51		0.050	"	2.50		100	80-120			
Cobalt	2.40		0.035	"	2.50		96	80-120			
Copper	2.43		0.050	"	2.50		97	80-120			
Iron	25.5		1.5	"	25.0		102	80-120			
Lead	2.48		0.38	"	2.50		99	80-120			
Magnesium	23.6		2.5	"	25.0		94	80-120			
Manganese	2.47		0.050	"	2.50		99	80-120			
Molybdenum	2.54		0.10	"	2.50		102	80-120			
Nickel	2.40		0.15	"	2.50		96	80-120			
Potassium	23.9		12	"	25.0		96	80-120			
Selenium	2.76		0.50	"	2.50		110	80-120			
Silver	0.243		0.035	"	0.250		97	80-120			
Thallium	2.45		0.50	"	2.50		98	80-120			
Titanium	2.44		0.050	"	2.50		98	80-120			
Vanadium	2.50		0.050	"	2.50		100	80-120			
Zinc	2.43		0.10	"	2.50		97	80-120			
Duplicate (3070448-DUP1)		**Source: P307335-12**			Prepared & Analyzed: 07/30/03						
Aluminum	19.1		5.0	mg/l		19			0.5	10	
Antimony	ND		1.5	"		ND				10	
Arsenic	ND		0.50	"		ND				10	
Barium	6.74		0.25	"		6.6			2	10	
Beryllium	ND		0.025	"		0.0034				10	
Boron	ND		0.50	"		ND				10	
Cadmium	ND		0.25	"		ND				10	
Calcium	173		25	"		170			2	10	
Chromium	ND		0.25	"		0.050				10	
Cobalt	0.712		0.18	"		0.65			9	10	
Copper	0.193		0.25	"		0.23			17	10	QR-07

The results in this report apply to the samples analyzed in accordance with the chain of custody document. Unless otherwise stated, results are reported on a wet weight basis. This analytical report must be reproduced in its entirety.

Sequoia Analytical

1455 McDowell Blvd, North Ste D
Petaluma, CA 94954
(707) 792-1865
FAX (707) 792-0342
www.sequoialabs.com

Environmental Resources Management	Project:	Aerojet RI/FS	P307335
2525 Natomas Park Drive, Suite 350	Project Number:	RI-FS	**Reported:**
Sacramento CA, 95833	Project Manager:	Bruce Lewis	08/19/03 12:04

STLC CAM Metals by EPA 6000/7000 Series Methods - Quality Control

Sequoia Analytical - Petaluma

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3070448 - Title 22-STLC											
Duplicate (3070448-DUP1)	**Source: P307335-12**			Prepared & Analyzed: 07/30/03							
Iron	35.7		7.5	mg/l		35			2	10	
Lead	ND		1.9	"		ND				10	
Magnesium	28.8		12	"		28			3	10	
Manganese	29.6		0.25	"		29			2	10	
Molybdenum	ND		0.50	"		ND				10	
Nickel	ND		0.75	"		0.40				10	
Potassium	ND		62	"		4.1				10	
Selenium	ND		2.5	"		ND				10	
Silver	ND		0.18	"		ND				10	
Thallium	ND		2.5	"		ND				10	
Titanium	0.777		0.25	"		0.75			4	10	
Vanadium	0.514		0.25	"		0.53			3	10	
Zinc	0.238		0.50	"		0.21			13	10	QR-07
Matrix Spike (3070448-MS1)	**Source: P307335-12**			Prepared & Analyzed: 07/30/03							
Aluminum	45.9		1.0	mg/l	25.0	19	108	80-120			
Antimony	2.69		0.30	"	2.50	ND	108	80-120			
Arsenic	3.02		0.50	"	2.50	ND	121	80-120			QM-07
Barium	9.34		0.050	"	2.50	6.6	110	80-120			
Beryllium	0.250		0.0050	"	0.250	0.0034	99	80-120			
Boron	2.54		0.50	"	2.50	ND	102	80-120			
Cadmium	0.261		0.050	"	0.250	ND	104	80-120			
Calcium	205		5.0	"	25.0	170	140	80-120			QM-4X
Chromium	2.66		0.050	"	2.50	0.050	104	80-120			
Cobalt	3.16		0.035	"	2.50	0.65	100	80-120			
Copper	2.81		0.050	"	2.50	0.23	103	80-120			
Iron	62.6		1.5	"	25.0	35	110	80-120			
Lead	2.56		0.38	"	2.50	ND	102	80-120			
Magnesium	54.0		2.5	"	25.0	28	104	80-120			
Manganese	32.8		0.050	"	2.50	29	152	80-120			QM-4X
Molybdenum	2.65		0.10	"	2.50	ND	106	80-120			
Nickel	2.87		0.15	"	2.50	0.40	99	80-120			
Potassium	32.1		12	"	25.0	4.1	112	80-120			
Selenium	3.00		0.50	"	2.50	ND	120	80-120			
Silver	0.263		0.035	"	0.250	ND	105	80-120			
Thallium	2.37		0.50	"	2.50	ND	95	80-120			
Titanium	3.31		0.050	"	2.50	0.75	102	80-120			

The results in this report apply to the samples analyzed in accordance with the chain of custody document. Unless otherwise stated, results are reported on a wet weight basis. This analytical report must be reproduced in its entirety.

Sequoia Analytical

1455 McDowell Blvd, North Ste D
Petaluma, CA 94954
(707) 792-1865
FAX (707) 792-0342
www.sequoialabs.com

Environmental Resources Management	Project:	Aerojet RI/FS	P307335
2525 Natomas Park Drive, Suite 350	Project Number:	RI-FS	**Reported:**
Sacramento CA, 95833	Project Manager:	Bruce Lewis	08/19/03 12:04

STLC CAM Metals by EPA 6000/7000 Series Methods - Quality Control

Sequoia Analytical - Petaluma

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3070448 - Title 22-STLC											
Matrix Spike (3070448-MS1)		**Source: P307335-12**			Prepared & Analyzed: 07/30/03						
Vanadium	3.15		0.050	mg/l	2.50	0.53	105	80-120			
Zinc	2.76		0.10	"	2.50	0.21	102	80-120			
Matrix Spike Dup (3070448-MSD1)		**Source: P307335-12**			Prepared & Analyzed: 07/30/03						
Aluminum	45.3		1.0	mg/l	25.0	19	105	80-120	1	20	
Antimony	2.50		0.30	"	2.50	ND	100	80-120	7	20	
Arsenic	2.74		0.50	"	2.50	ND	110	80-120	10	20	
Barium	9.28		0.050	"	2.50	6.6	107	80-120	0.6	20	
Beryllium	0.247		0.0050	"	0.250	0.0034	97	80-120	1	20	
Boron	2.55		0.50	"	2.50	ND	102	80-120	0.4	20	
Cadmium	0.264		0.050	"	0.250	ND	106	80-120	1	20	
Calcium	202		5.0	"	25.0	170	128	80-120	1	20	QM-4X
Chromium	2.61		0.050	"	2.50	0.050	102	80-120	2	20	
Cobalt	3.11		0.035	"	2.50	0.65	98	80-120	2	20	
Copper	2.78		0.050	"	2.50	0.23	102	80-120	1	20	
Iron	61.8		1.5	"	25.0	35	107	80-120	1	20	
Lead	2.55		0.38	"	2.50	ND	102	80-120	0.4	20	
Magnesium	53.3		2.5	"	25.0	28	101	80-120	1	20	
Manganese	32.5		0.050	"	2.50	29	140	80-120	0.9	20	QM-4X
Molybdenum	2.60		0.10	"	2.50	ND	104	80-120	2	20	
Nickel	2.91		0.15	"	2.50	0.40	100	80-120	1	20	
Potassium	32.0		12	"	25.0	4.1	112	80-120	0.3	20	
Selenium	2.78		0.50	"	2.50	ND	111	80-120	8	20	
Silver	0.234		0.035	"	0.250	ND	94	80-120	12	20	
Thallium	2.47		0.50	"	2.50	ND	99	80-120	4	20	
Titanium	3.27		0.050	"	2.50	0.75	101	80-120	1	20	
Vanadium	3.11		0.050	"	2.50	0.53	103	80-120	1	20	
Zinc	2.72		0.10	"	2.50	0.21	100	80-120	1	20	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. Unless otherwise stated, results are reported on a wet weight basis. This analytical report must be reproduced in its entirety.

Sequoia Analytical

1455 McDowell Blvd, North Ste D
Petaluma, CA 94954
(707) 792-1865
FAX (707) 792-0342
www.sequoialabs.com

Environmental Resources Management	Project:	Aerojet RI/FS	P307335
2525 Natomas Park Drive, Suite 350	Project Number:	RI-FS	**Reported:**
Sacramento CA, 95833	Project Manager:	Bruce Lewis	08/19/03 12:04

STLC CAM Metals by EPA 6000/7000 Series Methods - Quality Control

Sequoia Analytical - Petaluma

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3070448 - Title 22-STLC											
Post Spike (3070448-PS1)		**Source: P307335-12**			Prepared & Analyzed: 07/30/03						
Antimony	2.43		0.30	mg/l	2.50	ND	97	80-120			
Arsenic	2.66		0.50	"	2.50	ND	106	80-120			
Barium	8.77		0.050	"	2.50	6.6	87	80-120			
Beryllium	0.237		0.0050	"	0.250	0.0034	93	80-120			
Boron	2.37		0.50	"	2.50	ND	95	80-120			
Cadmium	0.259		0.050	"	0.250	ND	104	80-120			
Calcium	195		5.0	"	25.0	170	100	80-120			
Chromium	2.49		0.050	"	2.50	0.050	98	80-120			
Cobalt	2.97		0.035	"	2.50	0.65	93	80-120			
Copper	2.63		0.050	"	2.50	0.23	96	80-120			
Iron	59.2		1.5	"	25.0	35	97	80-120			
Lead	2.43		0.38	"	2.50	ND	97	80-120			
Magnesium	50.8		2.5	"	25.0	28	91	80-120			
Manganese	31.0		0.050	"	2.50	29	80	80-120			
Molybdenum	2.45		0.10	"	2.50	ND	98	80-120			
Nickel	2.72		0.15	"	2.50	0.40	93	80-120			
Potassium	30.1		12	"	25.0	4.1	104	80-120			
Selenium	2.75		0.50	"	2.50	ND	110	80-120			
Thallium	2.27		0.50	"	2.50	ND	91	80-120			
Titanium	3.11		0.050	"	2.50	0.75	94	80-120			
Vanadium	2.98		0.050	"	2.50	0.53	98	80-120			
Zinc	2.61		0.10	"	2.50	0.21	96	80-120			

The results in this report apply to the samples analyzed in accordance with the chain of custody document. Unless otherwise stated, results are reported on a wet weight basis. This analytical report must be reproduced in its entirety.

Sequoia Analytical

1455 McDowell Blvd, North Ste D
Petaluma, CA 94954
(707) 792-1865
FAX (707) 792-0342
www.sequoialabs.com

Environmental Resources Management	Project:	Aerojet RI/FS	P307335
2525 Natomas Park Drive, Suite 350	Project Number:	RI-FS	**Reported:**
Sacramento CA, 95833	Project Manager:	Bruce Lewis	08/19/03 12:04

DI STLC CAM Metals by EPA 6000/7000 Series Methods - Quality Control

Sequoia Analytical - Petaluma

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3070608 - Title 22 STLC											
Blank (3070608-BLK1)					Prepared & Analyzed: 07/31/03						
Hexavalent Chromium	ND		0.0050	mg/l							
Laboratory Control Sample (3070608-BS1)					Prepared & Analyzed: 07/31/03						
Hexavalent Chromium	0.0988		0.0050	mg/l	0.100		99	80-120			
Matrix Spike (3070608-MS1)		**Source: P307335-10**			Prepared & Analyzed: 07/31/03						
Hexavalent Chromium	0.106		0.025	mg/l	0.100	ND	106	75-125			
Matrix Spike Dup (3070608-MSD1)		**Source: P307335-10**			Prepared & Analyzed: 07/31/03						
Hexavalent Chromium	0.120		0.025	mg/l	0.100	ND	120	75-125	12	20	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. Unless otherwise stated, results are reported on a wet weight basis. This analytical report must be reproduced in its entirety.

Sequoia Analytical

1455 McDowell Blvd, North Ste D
Petaluma, CA 94954
(707) 792-1865
FAX (707) 792-0342
www.sequoialabs.com

Environmental Resources Management	Project:	Aerojet RI/FS	P307335
2525 Natomas Park Drive, Suite 350	Project Number:	RI-FS	**Reported:**
Sacramento CA, 95833	Project Manager:	Bruce Lewis	08/19/03 12:04

Tentatively Identified Compounds by GC/MS - Quality Control

Sequoia Analytical - Petaluma

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3070476 - EPA 3550A Sonication											
Blank (3070476-BLK1)					Prepared & Analyzed: 07/24/03						
No TICs found	0			ug/kg							

The results in this report apply to the samples analyzed in accordance with the chain of custody document. Unless otherwise stated, results are reported on a wet weight basis. This analytical report must be reproduced in its entirety.

Sequoia Analytical

1455 McDowell Blvd, North Ste D
Petaluma, CA 94954
(707) 792-1865
FAX (707) 792-0342
www.sequoialabs.com

Environmental Resources Management	Project:	Aerojet RI/FS	P307335
2525 Natomas Park Drive, Suite 350	Project Number:	RI-FS	**Reported:**
Sacramento CA, 95833	Project Manager:	Bruce Lewis	08/19/03 12:04

Semivolatile Organic Compounds by EPA Method 8270C - Quality Control

Sequoia Analytical - Petaluma

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3070476 - EPA 3550A Sonication											
Blank (3070476-BLK1)					Prepared & Analyzed: 07/24/03						
Acenaphthene	ND	8.7	330	ug/kg							
Acenaphthylene	ND	7.6	330	"							
Anthracene	ND	14	330	"							
Azobenzene	ND	20	330	"							
Benzidine	ND	1700	1700	"							
Benzoic acid	ND	2.7	1700	"							
Benzo (a) anthracene	ND	7.6	330	"							
Benzo (b+k) fluoranthene (total)	ND	13	330	"							
Benzo (g,h,i) perylene	ND	8.8	330	"							
Benzo (a) pyrene	ND	10	330	"							
Benzyl alcohol	ND	11	660	"							
Bis(2-chloroethoxy)methane	ND	9.1	330	"							
Bis(2-chloroethyl)ether	ND	15	330	"							
Bis(2-chloroisopropyl)ether	ND	16	330	"							
Bis(2-ethylhexyl)phthalate	ND	9.3	330	"							
4-Bromophenyl phenyl ether	ND	13	330	"							
Butyl benzyl phthalate	ND	11	330	"							
4-Chloroaniline	ND	58	660	"							
4-Chloro-3-methylphenol	ND	11	660	"							
2-Chloronaphthalene	ND	9.9	330	"							
2-Chlorophenol	ND	16	330	"							
4-Chlorophenyl phenyl ether	ND	13	330	"							
Chrysene	ND	11	330	"							
Dibenz (a,h) anthracene	ND	18	330	"							
Dibenzofuran	ND	9.6	330	"							
Di-n-butyl phthalate	ND	12	330	"							
1,2-Dichlorobenzene	ND	16	330	"							
1,3-Dichlorobenzene	ND	14	330	"							
1,4-Dichlorobenzene	ND	15	330	"							
3,3´-Dichlorobenzidine	ND	44	660	"							
2,4-Dichlorophenol	ND	15	330	"							
Diethyl phthalate	ND	14	330	"							
2,4-Dimethylphenol	ND	36	330	"							
Dimethyl phthalate	ND	11	330	"							
4,6-Dinitro-2-methylphenol	ND	17	1700	"							
2,4-Dinitrophenol	ND	10	1700	"							
2,4-Dinitrotoluene	ND	20	330	"							

The results in this report apply to the samples analyzed in accordance with the chain of custody document. Unless otherwise stated, results are reported on a wet weight basis. This analytical report must be reproduced in its entirety.

Sequoia Analytical

1455 McDowell Blvd, North Ste D
Petaluma, CA 94954
(707) 792-1865
FAX (707) 792-0342
www.sequoialabs.com

Environmental Resources Management	Project:	Aerojet RI/FS	P307335
2525 Natomas Park Drive, Suite 350	Project Number:	RI-FS	**Reported:**
Sacramento CA, 95833	Project Manager:	Bruce Lewis	08/19/03 12:04

Semivolatile Organic Compounds by EPA Method 8270C - Quality Control

Sequoia Analytical - Petaluma

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3070476 - EPA 3550A Sonication											
Blank (3070476-BLK1)					Prepared & Analyzed: 07/24/03						
2,6-Dinitrotoluene	ND	13	330	ug/kg							
Di-n-octyl phthalate	ND	11	330	"							
Fluoranthene	ND	11	330	"							
Fluorene	ND	7.9	330	"							
Hexachlorobenzene	ND	15	330	"							
Hexachlorobutadiene	ND	17	330	"							
Hexachlorocyclopentadiene	ND	10	330	"							
Hexachloroethane	ND	17	330	"							
Indeno (1,2,3-cd) pyrene	ND	11	330	"							
Isophorone	ND	14	330	"							
2-Methylnaphthalene	ND	10	330	"							
2-Methylphenol	ND	16	330	"							
4-Methylphenol	ND	11	330	"							
Naphthalene	ND	13	330	"							
2-Nitroaniline	ND	17	1700	"							
3-Nitroaniline	ND	18	1700	"							
4-Nitroaniline	ND	22	1700	"							
Nitrobenzene	ND	16	330	"							
2-Nitrophenol	ND	14	330	"							
4-Nitrophenol	ND	23	1700	"							
N-Nitrosodimethylamine	ND	16	330	"							
N-Nitrosodiphenylamine	ND	17	330	"							
N-Nitrosodi-n-propylamine	ND	15	330	"							
Pentachlorophenol	ND	12	1700	"							
Phenanthrene	ND	14	330	"							
Phenol	ND	12	330	"							
Pyrene	ND	12	330	"							
1,2,4-Trichlorobenzene	ND	15	330	"							
2,4,5-Trichlorophenol	ND	14	330	"							
2,4,6-Trichlorophenol	ND	9.4	330	"							
Surrogate: 2-Fluorophenol	*2880*			*"*	*5000*		*58*	*11-120*			
Surrogate: Phenol-d6	*3540*			*"*	*5000*		*71*	*16-130*			
Surrogate: Nitrobenzene-d5	*2330*			*"*	*3330*		*70*	*16-126*			
Surrogate: 2-Fluorobiphenyl	*2370*			*"*	*3330*		*71*	*28-134*			
Surrogate: 2,4,6-Tribromophenol	*3530*			*"*	*5000*		*71*	*51-144*			
Surrogate: Terphenyl-d14	*2770*			*"*	*3330*		*83*	*64-119*			

The results in this report apply to the samples analyzed in accordance with the chain of custody document. Unless otherwise stated, results are reported on a wet weight basis. This analytical report must be reproduced in its entirety.

Sequoia Analytical

1455 McDowell Blvd, North Ste D
Petaluma, CA 94954
(707) 792-1865
FAX (707) 792-0342
www.sequoialabs.com

Environmental Resources Management	Project:	Aerojet RI/FS	P307335
2525 Natomas Park Drive, Suite 350	Project Number:	RI-FS	**Reported:**
Sacramento CA, 95833	Project Manager:	Bruce Lewis	08/19/03 12:04

Semivolatile Organic Compounds by EPA Method 8270C - Quality Control

Sequoia Analytical - Petaluma

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3070476 - EPA 3550A Sonication											
Laboratory Control Sample (3070476-BS1)					Prepared & Analyzed: 07/24/03						
Acenaphthene	2750	8.7	330	ug/kg	3330		83	34-114			
4-Chloro-3-methylphenol	2960	11	660	"	3330		89	24-118			
2-Chlorophenol	2380	16	330	"	3330		71	29-101			
1,4-Dichlorobenzene	2410	15	330	"	3330		72	25-104			
2,4-Dinitrotoluene	2950	20	330	"	3330		89	42-116			
4-Nitrophenol	3230	23	1700	"	3330		97	31-109			
N-Nitrosodi-n-propylamine	2660	15	330	"	3330		80	23-117			
Pentachlorophenol	2630	12	1700	"	3330		79	34-114			
Phenol	2310	12	330	"	3330		69	20-105			
Pyrene	3120	12	330	"	3330		94	30-124			
1,2,4-Trichlorobenzene	2640	15	330	"	3330		79	28-112			
Surrogate: 2-Fluorophenol	*3400*			*"*	*5000*		*68*	*11-120*			
Surrogate: Phenol-d6	*3790*			*"*	*5000*		*76*	*16-130*			
Surrogate: Nitrobenzene-d5	*2650*			*"*	*3330*		*80*	*16-126*			
Surrogate: 2-Fluorobiphenyl	*2680*			*"*	*3330*		*80*	*28-134*			
Surrogate: 2,4,6-Tribromophenol	*4500*			*"*	*5000*		*90*	*51-144*			
Surrogate: Terphenyl-d14	*3150*			*"*	*3330*		*95*	*64-119*			
Matrix Spike (3070476-MS1)		**Source: P307311-04**			Prepared & Analyzed: 07/24/03						
Acenaphthene	2610	8.7	330	ug/kg	3330	ND	78	30-110			
4-Chloro-3-methylphenol	3010	11	660	"	3330	ND	90	27-109			
2-Chlorophenol	2310	16	330	"	3330	ND	69	24-98			
1,4-Dichlorobenzene	2200	15	330	"	3330	ND	66	24-89			
2,4-Dinitrotoluene	2890	20	330	"	3330	ND	87	35-110			
4-Nitrophenol	3120	23	1700	"	3330	ND	94	20-110			
N-Nitrosodi-n-propylamine	2620	15	330	"	3330	ND	79	23-109			
Pentachlorophenol	2710	12	1700	"	3330	ND	81	25-123			
Phenol	2280	12	330	"	3330	ND	68	19-100			
Pyrene	2840	12	330	"	3330	ND	85	12-131			
1,2,4-Trichlorobenzene	2430	15	330	"	3330	ND	73	17-110			
Surrogate: 2-Fluorophenol	*3170*			*"*	*5000*		*63*	*11-120*			
Surrogate: Phenol-d6	*3700*			*"*	*5000*		*74*	*16-130*			
Surrogate: Nitrobenzene-d5	*2410*			*"*	*3330*		*72*	*16-126*			
Surrogate: 2-Fluorobiphenyl	*2270*			*"*	*3330*		*68*	*28-134*			
Surrogate: 2,4,6-Tribromophenol	*4470*			*"*	*5000*		*89*	*51-144*			
Surrogate: Terphenyl-d14	*2870*			*"*	*3330*		*86*	*64-119*			

The results in this report apply to the samples analyzed in accordance with the chain of custody document. Unless otherwise stated, results are reported on a wet weight basis. This analytical report must be reproduced in its entirety.

Sequoia Analytical

1455 McDowell Blvd, North Ste D
Petaluma, CA 94954
(707) 792-1865
FAX (707) 792-0342
www.sequoialabs.com

Environmental Resources Management	Project:	Aerojet RI/FS	P307335
2525 Natomas Park Drive, Suite 350	Project Number:	RI-FS	**Reported:**
Sacramento CA, 95833	Project Manager:	Bruce Lewis	08/19/03 12:04

Semivolatile Organic Compounds by EPA Method 8270C - Quality Control

Sequoia Analytical - Petaluma

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3070476 - EPA 3550A Sonication											
Matrix Spike Dup (3070476-MSD1)		**Source: P307311-04**			Prepared & Analyzed: 07/24/03						
Acenaphthene	2750	8.7	330	ug/kg	3330	ND	83	30-110	5	26	
4-Chloro-3-methylphenol	3070	11	660	"	3330	ND	92	27-109	2	21	
2-Chlorophenol	2410	16	330	"	3330	ND	72	24-98	4	27	
1,4-Dichlorobenzene	2320	15	330	"	3330	ND	70	24-89	5	25	
2,4-Dinitrotoluene	2850	20	330	"	3330	ND	86	35-110	1	15	
4-Nitrophenol	3270	23	1700	"	3330	ND	98	20-110	5	23	
N-Nitrosodi-n-propylamine	2710	15	330	"	3330	ND	81	23-109	3	31	
Pentachlorophenol	2800	12	1700	"	3330	ND	84	25-123	3	43	
Phenol	2400	12	330	"	3330	ND	72	19-100	5	21	
Pyrene	3020	12	330	"	3330	ND	91	12-131	6	26	
1,2,4-Trichlorobenzene	2580	15	330	"	3330	ND	77	17-110	6	30	
Surrogate: 2-Fluorophenol	*3250*			*"*	*5000*		*65*	*11-120*			
Surrogate: Phenol-d6	*3820*			*"*	*5000*		*76*	*16-130*			
Surrogate: Nitrobenzene-d5	*2500*			*"*	*3330*		*75*	*16-126*			
Surrogate: 2-Fluorobiphenyl	*2300*			*"*	*3330*		*69*	*28-134*			
Surrogate: 2,4,6-Tribromophenol	*4490*			*"*	*5000*		*90*	*51-144*			
Surrogate: Terphenyl-d14	*2950*			*"*	*3330*		*89*	*64-119*			

The results in this report apply to the samples analyzed in accordance with the chain of custody document. Unless otherwise stated, results are reported on a wet weight basis. This analytical report must be reproduced in its entirety.

Sequoia Analytical

1455 McDowell Blvd, North Ste D
Petaluma, CA 94954
(707) 792-1865
FAX (707) 792-0342
www.sequoialabs.com

Environmental Resources Management	Project:	Aerojet RI/FS	P307335
2525 Natomas Park Drive, Suite 350	Project Number:	RI-FS	**Reported:**
Sacramento CA, 95833	Project Manager:	Bruce Lewis	08/19/03 12:04

Notes and Definitions

J	Estimated value.
QM-07	The spike recovery was outside control limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
QM-4X	The spike recovery was outside of control limits for the MS and/or MSD due to analyte concentration at 4 times or greater the spike concentration. The QC batch was accepted based on LCS and/or LCSD recoveries within the acceptance limits.
QR-07	The RPD was outside control limits. The results may still be useful for their intended purpose.
R-01	The Reporting Limit for this analyte has been raised to account for matrix interference.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

The results in this report apply to the samples analyzed in accordance with the chain of custody document. Unless otherwise stated, results are reported on a wet weight basis. This analytical report must be reproduced in its entirety.

GENCORP AEROJET

Chain of Custody Record

№ 1098

E.T.R. NO:

WORK ORDER NO:

SOURCE SITE NO:

AUGER HOLE NO:

SAMPLERS (SIGNATURE)

COC SAMPLE ID	FIELD SAMPLE NO.	DEPTH (FT.)	DATE MM/DD/YY	TIME	TYPE OF CONTAINER	# OF SAMPLE CONTAINERS	SOIL TYPE (USCS CODE)	VOLATILE ORGANICS EPA 8240	BNA's EPA 8270 SVOCs	METALS EPA 6010	PERCHLORATE EDL-SW-006	Cr^6	Thallium	WET (TTLC & CAR)	WET LEACHATE (6010)		LABORATORY QA/QC	REMARKS
1098 A	C15-SS07	0.5	07/15/03	1120	2x3" Brass	2				X		X						P307335-1
1098 B	C15-SS06	0.5	07/15/03	1145	"	2				X		X						-2
1098 C	C15-SS05	0.5	07/15/03	1200	"	2				X		X						-3
1098 D	C15-SS08	0.5	07/15/03	1320	"	2				X		X						-4
1098 E	~~C15-SS10~~ 10D-SS10	0.5	07/15/03	1345	"	1							X					10D-SS10 -5
1098 F	10D-SS21	0.5	07/15/03	1400	"	1							X					-6
1098 G	10D-SS22	0.5	07/15/03	1405	"	1							X					-7
1098 H	C4-SNS01	0.5	07/15/03	0650	"	2			X	X								-8
1098 I	C4-SNS02	0.5	07/16/03	0710	"	2			X	X								-9
1098 J	A20-BML01	2.0	07/16/03	1020	"	3				X				X	X			-10
1098 K	A20-BML02	2.0	07/16/03	1100	"	3				X				X	X			-11
1098 L	A20-BML04	2.0	07/16/03	1130	"	3				X				X	X			-12
1098 M	A20-BML03	2.0	07/16/03	1200	"	3				X				X	X			-13
1098 N			/ /															
1098 O			/ /															
1098 P			/ /															
1098 Q			/ /															
TOTALS									2	10		4	3	1	1			

COOLER CUSTODY SEALS INTACT ☐ NOT INTACT ☐

COOLER TEMPERATURE 36 °

RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)	TOTAL NO. OF SAMPLE CONTAINERS:
	7/16/03 1405		27
RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)	METHOD OF SHIPMENT:
	7/16/03 14:26	Monica Gregson SeqSAC	HAND
RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY LABORATORY BY: (SIGNATURE)	LABORATORY DELIVERED TO:
Monica Gregson SeqSAC	7/16	SAL 7-17 1230	RELINQUISHED TO COURIER FROM SEQUOIA ANALYTICAL

COMMENTS:

7-17. 7-17 1659

ORIGINAL – ENVIRONMENTAL OPERATIONS: *WHITE* 2ND COPY – LABORATORY: *YELLOW* 3RD COPY – SAMPLER: *PINK*

7.67.35 v. 4

SEQUOIA ANALYTICAL SAMPLE RECEIPT LOG

CLIENT NAME: Aerojet
REC. BY (PRINT): [illegible]
WORKORDER: P307335

DATE Received at Lab: 7-17-03
TIME Received at Lab: 1455
LOG IN DATE: 7/18/03

(Drinking water) for regulatory purposes: YES/NO
(Wastewater) for regulatory purposes: YES/NO

CIRCLE THE APPROPRIATE RESPONSE		LAB SAMPLE #	#	CLIENT ID	DESCRIPTION	SAMPLE MATRIX	DATE SAMPLED	CONDITION (ETC.)
1. Custody Seal(s)	Present / Absent			C-15-SS07	x2MC	S	7-15-03	
	Intact / Broken*			06	↓	↓	↓	
2. Chain-of-Custody	Present / Absent*			05	↓	↓	↓	
3. Traffic Reports or				08	↓	↓	↓	
Packing List:	Present / Absent			DD-SS-10	MC	↓	↓	
4. Airbill:	Airbill / Sticker			21	↓	↓	↓	
	Present / Absent			22	↓	↓	↓	
5. Airbill #:				C4-SN501	x2MC	↓	7-16-03	
6. Sample Labels:	Present / Absent			02	↓	↓	↓	
7. Sample IDs:	Listed / Not Listed			A20-BML01	x3oz	↓	↓	
	on Chain-of-Custody			02	↓	↓	↓	
8. Sample Condition:	Intact / Broken* /			04	↓	↓	↓	
	Leaking*			03	↓	↓	↓	
9. Does information on custody reports, traffic reports and sample labels agree?	Yes / No*							
10. Sample received within hold time:	Yes / No*							
11. Proper Preservatives used:	Yes / No*							
12. Temp Rec. at Lab: 3-6 (Acceptance range for samples requiring thermal pres.:4+/-2°C)	Yes / No*							

*If Circled, contact Project Manager and attach record of resolution.