



9 February, 2006

Bruce Lewis  
ERM-West - Sacramento  
2525 Natomas Park Dr., Ste. 350  
Sacramento, CA 95833

RE: Aerojet Site C41  
Work Order: S601526

Enclosed are the results of analyses for samples received by the laboratory on 01/27/06 09:15. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Ron Chew  
Dept Manager / Client Services Representative

CA ELAP Certificate # I-2630

ERM-West - Sacramento  
 2525 Natomas Park Dr., Ste. 350  
 Sacramento CA, 95833

 Project:Aerojet Site C41  
 Project Number:0020648.03  
 Project Manager:Bruce Lewis

 S601526  
**Reported:**  
 02/09/06 14:55

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
C41-SB01-45	S601526-01	Soil	01/26/06 07:35	01/27/06 09:15
C41-SB01-50	S601526-02	Soil	01/26/06 08:30	01/27/06 09:15
C41-SB01-55	S601526-03	Soil	01/26/06 08:35	01/27/06 09:15
C41-SB01-60	S601526-04	Soil	01/26/06 08:40	01/27/06 09:15
C41-HP02	S601526-05	Water	01/26/06 09:00	01/27/06 09:15
C41-SB03-2	S601526-06	Soil	01/26/06 10:55	01/27/06 09:15
C41-SB03-2D	S601526-07	Soil	01/26/06 11:00	01/27/06 09:15
C41-SB03-5	S601526-08	Soil	01/26/06 11:05	01/27/06 09:15
C41-SB03-10	S601526-09	Soil	01/26/06 11:10	01/27/06 09:15
C41-SB03-15	S601526-10	Soil	01/26/06 11:15	01/27/06 09:15
C41-SB03-20	S601526-11	Soil	01/26/06 11:20	01/27/06 09:15
C41-SB03-25	S601526-12	Soil	01/26/06 11:25	01/27/06 09:15
C41-SB03-30	S601526-13	Soil	01/26/06 11:30	01/27/06 09:15
C41-SS17-0	S601526-14	Soil	01/26/06 12:50	01/27/06 09:15
C41-SB03-40	S601526-15	Soil	01/26/06 13:20	01/27/06 09:15
C41-SB03-35	S601526-16	Soil	01/26/06 13:22	01/27/06 09:15
C41-SB03-45	S601526-17	Soil	01/26/06 14:33	01/27/06 09:15
C41-SB03-50	S601526-18	Soil	01/26/06 14:37	01/27/06 09:15
C41-SB03-55	S601526-19	Soil	01/26/06 14:37	01/27/06 09:15
C41-HP03	S601526-20	Water	01/26/06 14:42	01/27/06 09:15
C41-SB04-2	S601526-21	Soil	01/26/06 15:02	01/27/06 09:15
C41-SB04-5	S601526-22	Soil	01/26/06 15:03	01/27/06 09:15
C41-SB04-5D	S601526-23	Soil	01/26/06 15:04	01/27/06 09:15
C41-SB04-10	S601526-24	Soil	01/26/06 15:09	01/27/06 09:15
C41-SB04-15	S601526-25	Soil	01/26/06 15:10	01/27/06 09:15
C41-SB04-20	S601526-26	Soil	01/26/06 15:11	01/27/06 09:15
C41-SB04-25	S601526-27	Soil	01/26/06 15:29	01/27/06 09:15
C41-SB04-30	S601526-28	Soil	01/26/06 15:30	01/27/06 09:15
C41-SB04-35	S601526-29	Soil	01/26/06 15:43	01/27/06 09:15

ERM-West - Sacramento 2525 Natomas Park Dr., Ste. 350 Sacramento CA, 95833	Project:Aerojet Site C41 Project Number:0020648.03 Project Manager:Bruce Lewis	S601526 <b>Reported:</b> 02/09/06 14:55
--	--	---

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
C41-SB04-40	S601526-30	Soil	01/26/06 15:44	01/27/06 09:15
C41-SB04-45	S601526-31	Soil	01/26/06 16:20	01/27/06 09:15
C41-SB04-50	S601526-32	Soil	01/26/06 16:53	01/27/06 09:15
C41-SB04-55	S601526-33	Soil	01/26/06 16:54	01/27/06 09:15
C41-SB04-60	S601526-34	Soil	01/26/06 16:56	01/27/06 09:15

ERM-West - Sacramento  
 2525 Natomas Park Dr., Ste. 350  
 Sacramento CA, 95833

 Project:Aerojet Site C41  
 Project Number:0020648.03  
 Project Manager:Bruce Lewis

 S601526  
**Reported:**  
 02/09/06 14:55

## INORGANICS

### Del Mar Analytical, Irvine

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>C41-HP02 (S601526-05) Water    Sampled: 01/26/06 09:00    Received: 01/27/06 09:15</b>									
Perchlorate	310	20	ug/l	10	6B02090	02/02/06	02/03/06 04:49	EPA 314.0	
<b>C41-SB03-2 (S601526-06) Soil    Sampled: 01/26/06 10:55    Received: 01/27/06 09:15</b>									
Perchlorate	ND	0.020	mg/kg	1	6B01114	02/01/06	02/01/06 21:49	EPA 314.0 MOD.	
<b>C41-SB03-2D (S601526-07) Soil    Sampled: 01/26/06 11:00    Received: 01/27/06 09:15</b>									
Perchlorate	ND	0.020	mg/kg	1	6B01114	02/01/06	02/01/06 22:10	EPA 314.0 MOD.	
<b>C41-SB03-5 (S601526-08) Soil    Sampled: 01/26/06 11:05    Received: 01/27/06 09:15</b>									
Perchlorate	0.030	0.020	mg/kg	1	6B01114	02/01/06	02/01/06 22:31	EPA 314.0 MOD.	
<b>C41-SB03-10 (S601526-09) Soil    Sampled: 01/26/06 11:10    Received: 01/27/06 09:15</b>									
Perchlorate	ND	0.020	mg/kg	1	6B01114	02/01/06	02/01/06 22:51	EPA 314.0 MOD.	
<b>C41-SB03-15 (S601526-10) Soil    Sampled: 01/26/06 11:15    Received: 01/27/06 09:15</b>									
Perchlorate	ND	0.020	mg/kg	1	6B01114	02/01/06	02/01/06 23:12	EPA 314.0 MOD.	
<b>C41-SB03-20 (S601526-11) Soil    Sampled: 01/26/06 11:20    Received: 01/27/06 09:15</b>									
Perchlorate	ND	0.020	mg/kg	1	6B01114	02/01/06	02/01/06 23:33	EPA 314.0 MOD.	
<b>C41-SB03-25 (S601526-12) Soil    Sampled: 01/26/06 11:25    Received: 01/27/06 09:15</b>									
Perchlorate	0.022	0.020	mg/kg	1	6B01114	02/01/06	02/01/06 23:53	EPA 314.0 MOD.	
<b>C41-SB03-30 (S601526-13) Soil    Sampled: 01/26/06 11:30    Received: 01/27/06 09:15</b>									
Perchlorate	ND	0.020	mg/kg	1	6B01114	02/01/06	02/02/06 00:14	EPA 314.0 MOD.	

ERM-West - Sacramento  
 2525 Natomas Park Dr., Ste. 350  
 Sacramento CA, 95833

 Project:Aerojet Site C41  
 Project Number:0020648.03  
 Project Manager:Bruce Lewis

 S601526  
**Reported:**  
 02/09/06 14:55

## INORGANICS

### Del Mar Analytical, Irvine

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>C41-SS17-0 (S601526-14) Soil    Sampled: 01/26/06 12:50    Received: 01/27/06 09:15</b>									
Perchlorate	ND	0.020	mg/kg	1	6B01114	02/01/06	02/02/06 01:16	EPA 314.0 MOD.	
<b>C41-HP03 (S601526-20) Water    Sampled: 01/26/06 14:42    Received: 01/27/06 09:15</b>									
Perchlorate	120	10	ug/l	5	6B02090	02/02/06	02/03/06 05:30	EPA 314.0	
<b>C41-SB04-2 (S601526-21) Soil    Sampled: 01/26/06 15:02    Received: 01/27/06 09:15</b>									
Perchlorate	ND	0.020	mg/kg	1	6B01114	02/01/06	02/02/06 01:37	EPA 314.0 MOD.	
<b>C41-SB04-5 (S601526-22) Soil    Sampled: 01/26/06 15:03    Received: 01/27/06 09:15</b>									
Perchlorate	0.17	0.020	mg/kg	1	6B01114	02/01/06	02/02/06 01:57	EPA 314.0 MOD.	
<b>C41-SB04-5D (S601526-23) Soil    Sampled: 01/26/06 15:04    Received: 01/27/06 09:15</b>									
Perchlorate	0.22	0.020	mg/kg	1	6B01114	02/01/06	02/02/06 02:18	EPA 314.0 MOD.	
<b>C41-SB04-10 (S601526-24) Soil    Sampled: 01/26/06 15:09    Received: 01/27/06 09:15</b>									
Perchlorate	0.13	0.020	mg/kg	1	6B02098	02/02/06	02/02/06 23:39	EPA 314.0 MOD.	
<b>C41-SB04-15 (S601526-25) Soil    Sampled: 01/26/06 15:10    Received: 01/27/06 09:15</b>									
Perchlorate	0.051	0.020	mg/kg	1	6B02098	02/02/06	02/03/06 00:41	EPA 314.0 MOD.	
<b>C41-SB04-20 (S601526-26) Soil    Sampled: 01/26/06 15:11    Received: 01/27/06 09:15</b>									
Perchlorate	0.097	0.020	mg/kg	1	6B02098	02/02/06	02/03/06 01:01	EPA 314.0 MOD.	
<b>C41-SB04-25 (S601526-27) Soil    Sampled: 01/26/06 15:29    Received: 01/27/06 09:15</b>									
Perchlorate	0.048	0.020	mg/kg	1	6B02098	02/02/06	02/03/06 01:22	EPA 314.0 MOD.	

ERM-West - Sacramento  
2525 Natomas Park Dr., Ste. 350  
Sacramento CA, 95833

Project:Aerojet Site C41  
Project Number:0020648.03  
Project Manager:Bruce Lewis

S601526  
**Reported:**  
02/09/06 14:55

**INORGANICS**  
**Del Mar Analytical, Irvine**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>C41-SB04-30 (S601526-28) Soil    Sampled: 01/26/06 15:30    Received: 01/27/06 09:15</b>									
<b>Perchlorate</b>	<b>0.041</b>	0.020	mg/kg	1	6B02098	02/02/06	02/03/06 01:43	EPA 314.0 MOD.	

ERM-West - Sacramento  
 2525 Natomas Park Dr., Ste. 350  
 Sacramento CA, 95833

 Project:Aerojet Site C41  
 Project Number:0020648.03  
 Project Manager:Bruce Lewis

 S601526  
**Reported:**  
 02/09/06 14:55

### INORGANICS - Quality Control Del Mar Analytical, Irvine

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

**Batch 6B02090 - General Prep / EPA 314.0**

<b>Blank (6B02090-BLK1)</b>				Prepared & Analyzed: 02/02/06						
Perchlorate	ND	2.0	ug/l							
<b>Laboratory Control Sample (6B02090-BS1)</b>				Prepared & Analyzed: 02/02/06						
Perchlorate	52.0	2.0	ug/l	50.0		104	85-115			
<b>Matrix Spike (6B02090-MS1)</b>				Prepared & Analyzed: 02/02/06						
<b>Source: IPB0079-01</b>										
Perchlorate	54.8	2.0	ug/l	50.0	5.5	99	80-120			
<b>Matrix Spike Dup (6B02090-MSD1)</b>				Prepared & Analyzed: 02/02/06						
<b>Source: IPB0079-01</b>										
Perchlorate	56.7	2.0	ug/l	50.0	5.5	102	80-120	3	20	

**Batch 6B01114 - General Prep / EPA 314.0 MOD.**

<b>Blank (6B01114-BLK1)</b>				Prepared & Analyzed: 02/01/06						
Perchlorate	ND	0.020	mg/kg							
<b>Laboratory Control Sample (6B01114-BS1)</b>				Prepared & Analyzed: 02/01/06						
Perchlorate	0.495	0.020	mg/kg	0.500		99	85-115			
<b>Matrix Spike (6B01114-MS1)</b>				Prepared & Analyzed: 02/01/06						
<b>Source: IPA2441-19</b>										
Perchlorate	0.515	0.020	mg/kg	0.499	ND	103	80-120			
<b>Matrix Spike Dup (6B01114-MSD1)</b>				Prepared & Analyzed: 02/01/06						
<b>Source: IPA2441-19</b>										
Perchlorate	0.502	0.020	mg/kg	0.498	ND	101	80-120	3	20	

**Batch 6B02098 - General Prep / EPA 314.0 MOD.**

<b>Blank (6B02098-BLK1)</b>				Prepared & Analyzed: 02/02/06						
Perchlorate	ND	0.020	mg/kg							

ERM-West - Sacramento  
2525 Natomas Park Dr., Ste. 350  
Sacramento CA, 95833

Project:Aerojet Site C41  
Project Number:0020648.03  
Project Manager:Bruce Lewis

S601526  
**Reported:**  
02/09/06 14:55

**INORGANICS - Quality Control  
Del Mar Analytical, Irvine**

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

**Batch 6B02098 - General Prep / EPA 314.0 MOD.**

**Laboratory Control Sample (6B02098-BS1)**

Prepared & Analyzed: 02/02/06

Perchlorate	0.485	0.020	mg/kg	0.500		97	85-115			
-------------	-------	-------	-------	-------	--	----	--------	--	--	--

**Matrix Spike (6B02098-MS1)**

**Source: S601526-24**

Prepared & Analyzed: 02/02/06

Perchlorate	0.641	0.020	mg/kg	0.499	0.13	102	80-120			
-------------	-------	-------	-------	-------	------	-----	--------	--	--	--

**Matrix Spike Dup (6B02098-MSD1)**

**Source: S601526-24**

Prepared: 02/02/06 Analyzed: 02/03/06

Perchlorate	0.609	0.020	mg/kg	0.499	0.13	96	80-120	5	20	
-------------	-------	-------	-------	-------	------	----	--------	---	----	--

ERM-West - Sacramento 2525 Natomas Park Dr., Ste. 350 Sacramento CA, 95833	Project:Aerojet Site C41 Project Number:0020648.03 Project Manager:Bruce Lewis	S601526 <b>Reported:</b> 02/09/06 14:55
--	--	---

**Notes and Definitions**

- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference