



### LABORATORY REPORT

Prepared For: The Boeing Company-SSFL  
5800 Woolsey Canyon Road  
Canoga Park, CA 91304-1148  
Attention: Bill McIlvaine

Project: Boeing SSFL-NPDES (sand)  
TAS#

Sampled: 10/27/05  
Received: 10/27/05  
Issued: 11/02/05 17:48

NELAP #01108CA California ELAP#1197 CSDLAC #10117

*The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of Del Mar Analytical and its client. This report shall not be reproduced, except in full, without written permission from Del Mar Analytical. The Chain of Custody, 1 page, is included and is an integral part of this report.*

*This entire report was reviewed and approved for release.*

### CASE NARRATIVE

- SAMPLE RECEIPT: Samples were received intact, at 22°C and with chain of custody documentation.
- HOLDING TIMES: All samples were analyzed within prescribed holding times and/or in accordance with the Del Mar Analytical Sample Acceptance Policy unless otherwise noted in the report.
- PRESERVATION: Samples requiring preservation were verified prior to sample analysis.
- QA/QC CRITERIA: All analyses met method criteria, except as noted in the report with data qualifiers.
- COMMENTS: Results that fall between the MDL and RL are 'J' flagged.
- SUBCONTRACTED: No analyses were subcontracted to an outside laboratory.
- ADDITIONAL INFORMATION:
  - Sample IOJ1924-01 DIWET analysis was prepared by adding 200 grams of sample to 200 milliliters of DI water. The sample was leached for 1 hour and then filtered, acidified and analyzed.
  - Sample IOJ1924-01RE1 DIWET analysis was prepared by rinsing 200 grams of sample with DI water then it was added to 200 milliliters of DI water. The sample was leached for 1 hour and then filtered, acidified and analyzed.
  - Sample IOJ1924-02 analysis was prepared by rinsing 200 grams of sample with DI water then it was added to 200 milliliters of DI water. The sample was leached for 1 hour and then decanted, acidified, digested and analyzed.
  - Sample IOJ1924-03 analysis was prepared by rinsing 200 grams of sample with DI water then it was added to 200 milliliters of DI water. The sample was set aside for 1 hour and then decanted, acidified, digested and analyzed.
  - Sample IOJ1924-04 analysis was prepared by rinsing 200 grams of sample with DI water then it was added to 200 milliliters of DI water. The sample was set aside for 15 minutes and then decanted, acidified, digested and analyzed.



# Del Mar Analytical

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Report Number: IOJ1924

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**LABORATORY ID**

**CLIENT ID**

**MATRIX**

IOJ1924-01

Filter Sand

Soil

IOJ1924-02

Filter Sand-leach

Water

IOJ1924-03

Filter Sand-mix w/ water(1 hour)

Water

IOJ1924-04

Filter Sand-mix w/ water(15 min)

Water

Reviewed By:

**Del Mar Analytical, Irvine**  
Michele Harper  
Project Manager

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## METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
<b>Sample ID: IOJ1924-02 (Filter Sand-leach - Water)</b>									
Reporting Units: mg/l									
Barium	EPA 200.7	5J27111	0.0060	0.010	<b>0.21</b>	1	10/27/05	10/28/05	
Boron	EPA 200.7	5J27111	0.0080	0.050	<b>0.015</b>	1	10/27/05	10/28/05	J
Iron	EPA 200.7	5J27111	0.015	0.040	<b>52</b>	1	10/27/05	10/28/05	
<b>Sample ID: IOJ1924-03 (Filter Sand-mix w/ water(1 hour) - Water)</b>									
Reporting Units: mg/l									
Barium	EPA 200.7	5J28100	0.0060	0.010	<b>0.056</b>	1	10/28/05	10/29/05	
Boron	EPA 200.7	5J28100	0.0080	0.050	ND	1	10/28/05	10/29/05	
Iron	EPA 200.7	5J28100	0.015	0.040	<b>6.7</b>	1	10/28/05	10/29/05	
<b>Sample ID: IOJ1924-04 (Filter Sand-mix w/ water(15 min) - Water)</b>									
Reporting Units: mg/l									
Barium	EPA 200.7	5K01073	0.0060	0.010	<b>0.053</b>	1	11/01/05	11/02/05	
Boron	EPA 200.7	5K01073	0.0080	0.050	ND	1	11/01/05	11/02/05	
Iron	EPA 200.7	5K01073	0.015	0.040	<b>13</b>	1	11/01/05	11/02/05	
<b>Sample ID: IOJ1924-02 (Filter Sand-leach - Water)</b>									
Reporting Units: ug/l									
Antimony	EPA 200.8	5J27110	0.050	2.0	<b>0.28</b>	1	10/27/05	10/27/05	J
Arsenic	EPA 200.7	5J27111	4.4	5.0	<b>40</b>	1	10/27/05	10/28/05	
Beryllium	EPA 200.7	5J27111	0.90	2.0	<b>13</b>	1	10/27/05	10/28/05	
Cadmium	EPA 200.8	5J27110	0.025	1.0	<b>1.3</b>	1	10/27/05	10/27/05	
Chromium	EPA 200.7	5J27111	2.0	5.0	<b>53</b>	1	10/27/05	10/28/05	
Cobalt	EPA 200.7	5J27111	2.0	10	<b>17</b>	1	10/27/05	10/28/05	
Copper	EPA 200.8	5J27110	0.25	2.0	<b>27</b>	1	10/27/05	10/27/05	
Lead	EPA 200.8	5J27110	0.040	1.0	<b>870</b>	1	10/27/05	10/27/05	
Manganese	EPA 200.7	5J27111	7.0	20	<b>590</b>	1	10/27/05	10/28/05	
Mercury	EPA 245.1	5J28102	0.050	0.20	ND	1	10/28/05	10/28/05	
Nickel	EPA 200.7	5J27111	2.0	10	<b>56</b>	1	10/27/05	10/28/05	
Selenium	EPA 200.8	5J27110	0.30	2.0	<b>2.5</b>	1	10/27/05	10/27/05	
Silver	EPA 200.8	5J27110	0.025	1.0	<b>0.18</b>	1	10/27/05	10/27/05	J
Thallium	EPA 200.8	5J27110	0.15	1.0	<b>0.93</b>	1	10/27/05	10/27/05	J
Vanadium	EPA 200.7	5J27111	3.0	10	<b>120</b>	1	10/27/05	10/28/05	
Zinc	EPA 200.7	5J27111	15	20	<b>450</b>	1	10/27/05	10/28/05	

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 Michele Harper  
 Project Manager

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## METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
<b>Sample ID: IOJ1924-03 (Filter Sand-mix w/ water(1 hour) - Water)</b>									
Reporting Units: ug/l									
Antimony	EPA 200.8	5J28089	0.050	2.0	<b>0.18</b>	1	10/28/05	10/31/05	J
Arsenic	EPA 200.7	5J28100	4.4	5.0	ND	1	10/28/05	10/29/05	
Beryllium	EPA 200.7	5J28100	0.90	2.0	ND	1	10/28/05	10/29/05	
Cadmium	EPA 200.8	5J28089	0.025	1.0	<b>0.15</b>	1	10/28/05	10/31/05	J
Chromium	EPA 200.7	5J28100	2.0	5.0	<b>10</b>	1	10/28/05	10/29/05	
Cobalt	EPA 200.7	5J28100	2.0	10	<b>2.0</b>	1	10/28/05	10/29/05	J
Copper	EPA 200.8	5J31061	0.25	2.0	<b>17</b>	1	10/31/05	10/31/05	
Lead	EPA 200.8	5J28089	0.040	1.0	<b>6.3</b>	1	10/28/05	10/31/05	
Manganese	EPA 200.7	5J28100	7.0	20	<b>61</b>	1	10/28/05	10/29/05	
Mercury	EPA 245.1	5J28102	0.050	0.20	ND	1	10/28/05	10/28/05	
Nickel	EPA 200.7	5J28100	2.0	10	<b>4.4</b>	1	10/28/05	10/29/05	J
Selenium	EPA 200.8	5J28089	0.30	2.0	<b>0.96</b>	1	10/28/05	10/31/05	J
Silver	EPA 200.8	5J28089	0.025	1.0	<b>0.050</b>	1	10/28/05	10/31/05	J
Thallium	EPA 200.8	5J28089	0.15	1.0	<b>0.22</b>	1	10/28/05	10/31/05	J
Vanadium	EPA 200.7	5J28100	3.0	10	<b>19</b>	1	10/28/05	10/29/05	
Zinc	EPA 200.7	5J28100	15	20	<b>38</b>	1	10/28/05	10/29/05	

### Sample ID: IOJ1924-04 (Filter Sand-mix w/ water(15 min) - Water)

Reporting Units: ug/l

Antimony	EPA 200.8	5K01076	0.050	2.0	<b>0.21</b>	1	11/01/05	11/01/05	J
Arsenic	EPA 200.7	5K01073	4.4	5.0	<b>13</b>	1	11/01/05	11/02/05	
Beryllium	EPA 200.7	5K01073	0.90	2.0	<b>2.3</b>	1	11/01/05	11/02/05	
Cadmium	EPA 200.8	5K01076	0.025	1.0	<b>0.23</b>	1	11/01/05	11/01/05	J
Chromium	EPA 200.7	5K01073	2.0	5.0	<b>11</b>	1	11/01/05	11/02/05	
Cobalt	EPA 200.7	5K01073	2.0	10	<b>3.3</b>	1	11/01/05	11/02/05	J
Copper	EPA 200.8	5K01076	0.25	2.0	<b>12</b>	1	11/01/05	11/01/05	
Lead	EPA 200.8	5K01076	0.040	1.0	<b>20</b>	1	11/01/05	11/01/05	
Manganese	EPA 200.7	5K01073	7.0	20	<b>130</b>	1	11/01/05	11/02/05	
Mercury	EPA 245.1	5K01081	0.050	0.20	ND	1	11/01/05	11/01/05	
Nickel	EPA 200.7	5K01073	2.0	10	<b>11</b>	1	11/01/05	11/02/05	
Selenium	EPA 200.8	5K01076	0.30	2.0	<b>0.73</b>	1	11/01/05	11/01/05	J
Silver	EPA 200.8	5K01076	0.025	1.0	<b>0.063</b>	1	11/01/05	11/01/05	J
Thallium	EPA 200.8	5K01076	0.15	1.0	<b>0.16</b>	1	11/01/05	11/01/05	J
Vanadium	EPA 200.7	5K01073	3.0	10	<b>25</b>	1	11/01/05	11/02/05	
Zinc	EPA 200.7	5K01073	15	20	<b>100</b>	1	11/01/05	11/02/05	

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### STLC METALS (DI WET)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
<b>Sample ID: IOJ1924-01 (Filter Sand - Soil)</b>									
Reporting Units: mg/l									
Antimony	6020-DI WET	5J27112	0.000050	0.0020	<b>0.00028</b>	1	10/27/05	10/27/05	J
Arsenic	6010B-DI WET	5J27114	0.0044	0.0050	<b>0.010</b>	1	10/27/05	10/27/05	
Cobalt	6010B-DI WET	5J27114	0.0020	0.010	ND	1	10/27/05	10/27/05	
Barium	6010B-DI WET	5J27114	0.0060	0.010	<b>0.013</b>	1	10/27/05	10/27/05	
Beryllium	6010B-DI WET	5J27114	0.00090	0.0040	ND	1	10/27/05	10/27/05	
Boron	6010B-DI WET	5J27114	0.0080	0.050	<b>0.0096</b>	1	10/27/05	10/27/05	J
Cadmium	EPA 6020-DI WET	5J27112	0.000025	0.0010	<b>0.00016</b>	1	10/27/05	10/27/05	B, J
Chromium	6010B-DI WET	5J27114	0.0020	0.0050	<b>0.0054</b>	1	10/27/05	10/27/05	
Copper	6020B-DI WET	5J27112	0.00025	0.0020	<b>0.011</b>	1	10/27/05	10/27/05	
Iron	6010B-DI WET	5J27114	0.015	0.040	<b>3.9</b>	1	10/27/05	10/27/05	
Lead	6020-DI WET	5J27112	0.000040	0.0010	<b>0.0061</b>	1	10/27/05	10/27/05	
Manganese	6010B-DI WET	5J27114	0.0070	0.020	<b>0.037</b>	1	10/27/05	10/27/05	
Mercury	7470A-DI WET	5J28071	0.00050	0.0020	ND	1	10/28/05	10/28/05	
Nickel	6010B-DI WET	5J27114	0.0020	0.010	<b>0.0049</b>	1	10/27/05	10/27/05	J
Selenium	6020B-DI WET	5J27112	0.00030	0.0020	<b>0.00030</b>	1	10/27/05	10/27/05	J
Silver	EPA 6020-DI WET	5J27112	0.000025	0.0010	<b>0.000096</b>	1	10/27/05	10/27/05	M2, J
Thallium	6020-DI WET	5J27112	0.00015	0.0010	ND	1	10/27/05	10/27/05	
Vanadium	6010B-DI WET	5J27114	0.0030	0.010	<b>0.012</b>	1	10/27/05	10/27/05	
Zinc	6010B-DI WET	5J27114	0.015	0.020	<b>0.054</b>	1	10/27/05	10/27/05	

### Sample ID: IOJ1924-01RE1 (Filter Sand - Soil)

Reporting Units: mg/l

Antimony	6020-DI WET	5J27112	0.000050	0.0020	<b>0.00016</b>	1	10/27/05	10/27/05	J
Arsenic	6010B-DI WET	5J27114	0.0044	0.0050	<b>0.0059</b>	1	10/27/05	10/27/05	
Cobalt	6010B-DI WET	5J27114	0.0020	0.010	ND	1	10/27/05	10/27/05	
Barium	6010B-DI WET	5J27114	0.0060	0.010	<b>0.0084</b>	1	10/27/05	10/27/05	J
Beryllium	6010B-DI WET	5J27114	0.00090	0.0040	ND	1	10/27/05	10/27/05	
Boron	6010B-DI WET	5J27114	0.0080	0.050	ND	1	10/27/05	10/27/05	
Cadmium	EPA 6020-DI WET	5J27112	0.000025	0.0010	<b>0.000071</b>	1	10/27/05	10/27/05	B, J
Chromium	6010B-DI WET	5J27114	0.0020	0.0050	<b>0.0042</b>	1	10/27/05	10/27/05	J
Copper	6020B-DI WET	5J27112	0.00025	0.0020	<b>0.0016</b>	1	10/27/05	10/27/05	J
Iron	6010B-DI WET	5J27114	0.015	0.040	<b>3.1</b>	1	10/27/05	10/27/05	
Lead	6020-DI WET	5J27112	0.000040	0.0010	<b>0.0012</b>	1	10/27/05	10/27/05	
Manganese	6010B-DI WET	5J27114	0.0070	0.020	<b>0.018</b>	1	10/27/05	10/27/05	J
Mercury	7470A-DI WET	5J28071	0.00050	0.0020	ND	1	10/28/05	10/28/05	
Nickel	6010B-DI WET	5J27114	0.0020	0.010	<b>0.0026</b>	1	10/27/05	10/27/05	J
Selenium	6020B-DI WET	5J27112	0.00030	0.0020	ND	1	10/27/05	10/27/05	
Silver	EPA 6020-DI WET	5J27112	0.000025	0.0010	<b>0.000086</b>	1	10/27/05	10/27/05	J
Thallium	6020-DI WET	5J27112	0.00015	0.0010	ND	1	10/27/05	10/27/05	
Vanadium	6010B-DI WET	5J27114	0.0030	0.010	<b>0.0083</b>	1	10/27/05	10/27/05	J
Zinc	6010B-DI WET	5J27114	0.015	0.020	<b>0.022</b>	1	10/27/05	10/27/05	

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**WASTE EXTRACTION TEST (DI Water) - METALS**

Analyte	Method	Batch	Extraction Start Date	Extraction End Date	Data Qualifiers
<b>Sample ID: IOJ1924-01 (Filter Sand - Soil)</b>					
Extraction	DI WET-Met	5J27098	10/27/2005	10/27/2005	
<b>Sample ID: IOJ1924-01RE1 (Filter Sand - Soil)</b>					
Extraction	DI WET-Met	5J27098	10/27/2005	10/27/2005	

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**METHOD BLANK/QC DATA**
**METALS**

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	RPD Limits	RPD RPD	RPD Limit	Data Qualifiers
<b>Batch: 5J27110 Extracted: 10/27/05</b>											
<b>Blank Analyzed: 10/27/2005 (5J27110-BLK1)</b>											
Antimony	ND	2.0	0.050	ug/l							
Cadmium	ND	1.0	0.025	ug/l							
Copper	ND	2.0	0.25	ug/l							
Lead	0.0700	1.0	0.040	ug/l							J
Selenium	ND	2.0	0.30	ug/l							
Silver	ND	1.0	0.025	ug/l							
Thallium	ND	1.0	0.15	ug/l							
<b>LCS Analyzed: 10/27/2005 (5J27110-BS1)</b>											
Antimony	79.4	2.0	0.050	ug/l	80.0		99	85-115			
Cadmium	79.0	1.0	0.025	ug/l	80.0		99	85-115			
Copper	80.8	2.0	0.25	ug/l	80.0		101	85-115			
Lead	82.0	1.0	0.040	ug/l	80.0		102	85-115			
Selenium	83.7	2.0	0.30	ug/l	80.0		105	85-115			
Silver	81.5	1.0	0.025	ug/l	80.0		102	85-115			
Thallium	83.3	1.0	0.15	ug/l	80.0		104	85-115			
<b>Matrix Spike Analyzed: 10/27/2005 (5J27110-MS1) Source: IOJ1894-03</b>											
Antimony	76.2	2.0	0.050	ug/l	80.0	0.054	95	70-130			
Cadmium	76.2	1.0	0.025	ug/l	80.0	ND	95	70-130			
Copper	83.1	2.0	0.25	ug/l	80.0	4.0	99	70-130			
Lead	80.7	1.0	0.040	ug/l	80.0	0.50	100	70-130			
Selenium	79.5	2.0	0.30	ug/l	80.0	ND	99	70-130			
Silver	78.9	1.0	0.025	ug/l	80.0	ND	99	70-130			
Thallium	80.8	1.0	0.15	ug/l	80.0	ND	101	70-130			
<b>Matrix Spike Dup Analyzed: 10/27/2005 (5J27110-MSD1) Source: IOJ1894-03</b>											
Antimony	76.0	2.0	0.050	ug/l	80.0	0.054	95	70-130	0	20	
Cadmium	75.5	1.0	0.025	ug/l	80.0	ND	94	70-130	1	20	
Copper	82.1	2.0	0.25	ug/l	80.0	4.0	98	70-130	1	20	
Lead	80.8	1.0	0.040	ug/l	80.0	0.50	100	70-130	0	20	
Selenium	78.5	2.0	0.30	ug/l	80.0	ND	98	70-130	1	20	
Silver	78.4	1.0	0.025	ug/l	80.0	ND	98	70-130	1	20	
Thallium	81.3	1.0	0.15	ug/l	80.0	ND	102	70-130	1	20	

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### METHOD BLANK/QC DATA

### METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
<b>Batch: 5J27111 Extracted: 10/27/05</b>											
<b>Blank Analyzed: 10/28/2005 (5J27111-BLK1)</b>											
Arsenic	ND	5.0	4.4	ug/l							
Barium	ND	0.010	0.0060	mg/l							
Beryllium	ND	2.0	0.90	ug/l							
Boron	ND	0.050	0.0080	mg/l							
Chromium	ND	5.0	2.0	ug/l							
Cobalt	ND	10	2.0	ug/l							
Iron	ND	0.040	0.015	mg/l							
Manganese	ND	20	7.0	ug/l							
Nickel	ND	10	2.0	ug/l							
Vanadium	ND	10	3.0	ug/l							
Zinc	ND	20	15	ug/l							

### LCS Analyzed: 10/28/2005 (5J27111-BS1)

Arsenic	497	5.0	4.4	ug/l	500		99	85-115			
Barium	0.448	0.010	0.0060	mg/l	0.500		90	85-115			
Beryllium	477	2.0	0.90	ug/l	500		95	85-115			
Boron	0.465	0.050	0.0080	mg/l	0.500		93	85-115			
Chromium	499	5.0	2.0	ug/l	500		100	85-115			
Cobalt	501	10	2.0	ug/l	500		100	85-115			
Iron	0.501	0.040	0.015	mg/l	0.500		100	85-115			
Manganese	492	20	7.0	ug/l	500		98	85-115			
Nickel	465	10	2.0	ug/l	500		93	85-115			
Vanadium	464	10	3.0	ug/l	500		93	85-115			
Zinc	470	20	15	ug/l	500		94	85-115			

### Matrix Spike Analyzed: 10/28/2005 (5J27111-MS1)

					Source: IOJ1894-01						
Arsenic	499	5.0	4.4	ug/l	500	ND	100	70-130			
Barium	0.452	0.010	0.0060	mg/l	0.500	ND	90	70-130			
Beryllium	483	2.0	0.90	ug/l	500	ND	97	70-130			
Boron	0.493	0.050	0.0080	mg/l	0.500	0.027	93	70-130			
Chromium	502	5.0	2.0	ug/l	500	ND	100	70-130			
Cobalt	506	10	2.0	ug/l	500	ND	101	70-130			
Iron	0.503	0.040	0.015	mg/l	0.500	ND	101	70-130			
Manganese	497	20	7.0	ug/l	500	ND	99	70-130			
Nickel	474	10	2.0	ug/l	500	ND	95	70-130			
Vanadium	473	10	3.0	ug/l	500	ND	95	70-130			

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Project ID: Boeing SSFL-NPDES (sand)  
 TAS#  
 Report Number: IOJ1924

Sampled: 10/27/05  
 Received: 10/27/05

### METHOD BLANK/QC DATA

### METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 5J27111 Extracted: 10/27/05</b>											
<b>Matrix Spike Analyzed: 10/28/2005 (5J27111-MS1)</b>						<b>Source: IOJ1894-01</b>					
Zinc	476	20	15	ug/l	500	ND	95	70-130			
<b>Matrix Spike Analyzed: 10/28/2005 (5J27111-MS2)</b>						<b>Source: IOJ1894-02</b>					
Arsenic	494	5.0	4.4	ug/l	500	ND	99	70-130			
Barium	0.447	0.010	0.0060	mg/l	0.500	ND	89	70-130			
Beryllium	474	2.0	0.90	ug/l	500	ND	95	70-130			
Boron	0.467	0.050	0.0080	mg/l	0.500	0.013	91	70-130			
Chromium	496	5.0	2.0	ug/l	500	ND	99	70-130			
Cobalt	495	10	2.0	ug/l	500	ND	99	70-130			
Iron	0.551	0.040	0.015	mg/l	0.500	0.065	97	70-130			
Manganese	489	20	7.0	ug/l	500	ND	98	70-130			
Nickel	464	10	2.0	ug/l	500	ND	93	70-130			
Vanadium	466	10	3.0	ug/l	500	ND	93	70-130			
Zinc	469	20	15	ug/l	500	ND	94	70-130			
<b>Matrix Spike Dup Analyzed: 10/28/2005 (5J27111-MSD1)</b>						<b>Source: IOJ1894-01</b>					
Arsenic	484	5.0	4.4	ug/l	500	ND	97	70-130	3	20	
Barium	0.442	0.010	0.0060	mg/l	0.500	ND	88	70-130	2	20	
Beryllium	469	2.0	0.90	ug/l	500	ND	94	70-130	3	20	
Boron	0.483	0.050	0.0080	mg/l	0.500	0.027	91	70-130	2	20	
Chromium	486	5.0	2.0	ug/l	500	ND	97	70-130	3	20	
Cobalt	487	10	2.0	ug/l	500	ND	97	70-130	4	20	
Iron	0.487	0.040	0.015	mg/l	0.500	ND	97	70-130	3	20	
Manganese	483	20	7.0	ug/l	500	ND	97	70-130	3	20	
Nickel	456	10	2.0	ug/l	500	ND	91	70-130	4	20	
Vanadium	456	10	3.0	ug/l	500	ND	91	70-130	4	20	
Zinc	460	20	15	ug/l	500	ND	92	70-130	3	20	

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## METHOD BLANK/QC DATA

### METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	RPD Limits	RPD RPD	RPD Limit	Data Qualifiers
<b>Batch: 5J28089 Extracted: 10/28/05</b>											
<b>Blank Analyzed: 10/31/2005 (5J28089-BLK1)</b>											
Antimony	ND	2.0	0.050	ug/l							
Cadmium	ND	1.0	0.025	ug/l							
Lead	ND	1.0	0.040	ug/l							
Selenium	ND	2.0	0.30	ug/l							
Silver	ND	1.0	0.025	ug/l							
Thallium	ND	1.0	0.15	ug/l							
<b>LCS Analyzed: 10/31/2005 (5J28089-BS1)</b>											
Antimony	85.7	2.0	0.050	ug/l	80.0		107	85-115			
Cadmium	85.4	1.0	0.025	ug/l	80.0		107	85-115			
Lead	83.4	1.0	0.040	ug/l	80.0		104	85-115			
Selenium	85.2	2.0	0.30	ug/l	80.0		106	85-115			
Silver	86.8	1.0	0.025	ug/l	80.0		108	85-115			
Thallium	84.6	1.0	0.15	ug/l	80.0		106	85-115			
<b>Matrix Spike Analyzed: 10/31/2005 (5J28089-MS1) Source: IOJ1956-05</b>											
Antimony	85.2	2.0	0.050	ug/l	80.0	0.83	105	70-130			
Cadmium	82.5	1.0	0.025	ug/l	80.0	0.078	103	70-130			
Lead	81.3	1.0	0.040	ug/l	80.0	ND	102	70-130			
Selenium	85.6	2.0	0.30	ug/l	80.0	1.2	106	70-130			
Silver	80.3	1.0	0.025	ug/l	80.0	ND	100	70-130			
Thallium	82.1	1.0	0.15	ug/l	80.0	ND	103	70-130			
<b>Matrix Spike Dup Analyzed: 10/31/2005 (5J28089-MSD1) Source: IOJ1956-05</b>											
Antimony	86.9	2.0	0.050	ug/l	80.0	0.83	108	70-130	2	20	
Cadmium	84.7	1.0	0.025	ug/l	80.0	0.078	106	70-130	3	20	
Lead	82.0	1.0	0.040	ug/l	80.0	ND	102	70-130	1	20	
Selenium	89.8	2.0	0.30	ug/l	80.0	1.2	111	70-130	5	20	
Silver	81.0	1.0	0.025	ug/l	80.0	ND	101	70-130	1	20	
Thallium	82.6	1.0	0.15	ug/l	80.0	ND	103	70-130	1	20	

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METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	RPD Limits	RPD RPD	Data Qualifiers
<b>Batch: 5J28100 Extracted: 10/28/05</b>										
<b>Blank Analyzed: 10/29/2005 (5J28100-BLK1)</b>										
Arsenic	ND	5.0	4.4	ug/l						
Barium	ND	0.010	0.0060	mg/l						
Beryllium	ND	2.0	0.90	ug/l						
Boron	ND	0.050	0.0080	mg/l						
Chromium	ND	5.0	2.0	ug/l						
Cobalt	ND	10	2.0	ug/l						
Iron	ND	0.040	0.015	mg/l						
Manganese	ND	20	7.0	ug/l						
Nickel	ND	10	2.0	ug/l						
Vanadium	ND	10	3.0	ug/l						
Zinc	ND	20	15	ug/l						

LCS Analyzed: 10/29/2005 (5J28100-BS1)

Arsenic	509	5.0	4.4	ug/l	500		102	85-115		
Barium	0.482	0.010	0.0060	mg/l	0.500		96	85-115		
Beryllium	499	2.0	0.90	ug/l	500		100	85-115		
Boron	0.480	0.050	0.0080	mg/l	0.500		96	85-115		
Chromium	507	5.0	2.0	ug/l	500		101	85-115		
Cobalt	525	10	2.0	ug/l	500		105	85-115		
Iron	0.527	0.040	0.015	mg/l	0.500		105	85-115		
Manganese	512	20	7.0	ug/l	500		102	85-115		
Nickel	496	10	2.0	ug/l	500		99	85-115		
Vanadium	485	10	3.0	ug/l	500		97	85-115		
Zinc	488	20	15	ug/l	500		98	85-115		

Matrix Spike Analyzed: 10/30/2005 (5J28100-MS1)

Source: IOJ2020-02

Arsenic	529	5.0	4.4	ug/l	500	ND	106	70-130		
Barium	0.685	0.010	0.0060	mg/l	0.500	0.20	97	70-130		
Beryllium	518	2.0	0.90	ug/l	500	ND	104	70-130		
Boron	0.664	0.050	0.0080	mg/l	0.500	0.15	103	70-130		
Chromium	514	5.0	2.0	ug/l	500	3.8	102	70-130		
Cobalt	472	10	2.0	ug/l	500	ND	94	70-130		
Iron	1.91	0.040	0.015	mg/l	0.500	1.4	102	70-130		
Manganese	515	20	7.0	ug/l	500	19	99	70-130		
Nickel	469	10	2.0	ug/l	500	5.3	93	70-130		
Vanadium	518	10	3.0	ug/l	500	ND	104	70-130		

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**METHOD BLANK/QC DATA**
**METALS**

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 5J28100 Extracted: 10/28/05</b>											
<b>Matrix Spike Analyzed: 10/30/2005 (5J28100-MS1)</b>						<b>Source: IOJ2020-02</b>					
Zinc	484	20	15	ug/l	500	ND	97	70-130			
<b>Matrix Spike Dup Analyzed: 10/29/2005 (5J28100-MSD1)</b>						<b>Source: IOJ2020-02</b>					
Arsenic	523	5.0	4.4	ug/l	500	ND	105	70-130	1	20	
Barium	0.656	0.010	0.0060	mg/l	0.500	0.20	91	70-130	4	20	
Beryllium	512	2.0	0.90	ug/l	500	ND	102	70-130	1	20	
Boron	0.648	0.050	0.0080	mg/l	0.500	0.15	100	70-130	2	20	
Chromium	505	5.0	2.0	ug/l	500	3.8	100	70-130	2	20	
Cobalt	481	10	2.0	ug/l	500	ND	96	70-130	2	20	
Iron	1.92	0.040	0.015	mg/l	0.500	1.4	104	70-130	1	20	
Manganese	551	20	7.0	ug/l	500	19	106	70-130	7	20	
Nickel	458	10	2.0	ug/l	500	5.3	91	70-130	2	20	
Vanadium	491	10	3.0	ug/l	500	ND	98	70-130	5	20	
Zinc	515	20	15	ug/l	500	ND	103	70-130	6	20	
<b>Batch: 5J28102 Extracted: 10/28/05</b>											
<b>Blank Analyzed: 10/28/2005 (5J28102-BLK1)</b>											
Mercury	ND	0.20	0.050	ug/l							
<b>LCS Analyzed: 10/28/2005 (5J28102-BS1)</b>											
Mercury	8.27	0.20	0.050	ug/l	8.00		103	85-115			
<b>Matrix Spike Analyzed: 10/28/2005 (5J28102-MS1)</b>						<b>Source: IOJ1923-01</b>					
Mercury	7.91	0.20	0.050	ug/l	8.00	ND	99	70-130			
<b>Matrix Spike Dup Analyzed: 10/28/2005 (5J28102-MSD1)</b>						<b>Source: IOJ1923-01</b>					
Mercury	7.89	0.20	0.050	ug/l	8.00	ND	99	70-130	0	20	

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METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
<b>Batch: 5J31061 Extracted: 10/31/05</b>											
<b>Blank Analyzed: 10/31/2005 (5J31061-BLK1)</b>											
Copper	ND	2.0	0.25	ug/l							
<b>LCS Analyzed: 10/31/2005 (5J31061-BS1)</b>											
Copper	84.2	2.0	0.25	ug/l	80.0	105	85-115				
<b>Matrix Spike Analyzed: 10/31/2005 (5J31061-MS1)</b>											
Copper	99.8	2.0	0.25	ug/l	80.0	26	92	70-130			
<b>Matrix Spike Analyzed: 11/01/2005 (5J31061-MS2)</b>											
Copper	85.9	2.0	0.25	ug/l	80.0	11	94	70-130			
<b>Matrix Spike Dup Analyzed: 10/31/2005 (5J31061-MSD1)</b>											
Copper	98.4	2.0	0.25	ug/l	80.0	26	90	70-130	1	20	

**Batch: 5K01073 Extracted: 11/01/05**

**Blank Analyzed: 11/01/2005 (5K01073-BLK1)**

Arsenic	ND	5.0	4.4	ug/l
Barium	ND	0.010	0.0060	mg/l
Beryllium	ND	2.0	0.90	ug/l
Boron	ND	0.050	0.0080	mg/l
Chromium	ND	5.0	2.0	ug/l
Cobalt	ND	10	2.0	ug/l
Iron	ND	0.040	0.015	mg/l
Manganese	ND	20	7.0	ug/l
Nickel	ND	10	2.0	ug/l
Vanadium	ND	10	3.0	ug/l
Zinc	ND	20	15	ug/l

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## METHOD BLANK/QC DATA

### METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 5K01073 Extracted: 11/01/05</b>											
<b>LCS Analyzed: 11/01/2005 (5K01073-BS1)</b>											
Arsenic	481	5.0	4.4	ug/l	500		96	85-115			
Barium	0.465	0.010	0.0060	mg/l	0.500		93	85-115			
Beryllium	481	2.0	0.90	ug/l	500		96	85-115			
Boron	0.436	0.050	0.0080	mg/l	0.500		87	85-115			
Chromium	482	5.0	2.0	ug/l	500		96	85-115			
Cobalt	449	10	2.0	ug/l	500		90	85-115			
Iron	0.491	0.040	0.015	mg/l	0.500		98	85-115			
Manganese	471	20	7.0	ug/l	500		94	85-115			
Nickel	468	10	2.0	ug/l	500		94	85-115			
Vanadium	494	10	3.0	ug/l	500		99	85-115			
Zinc	462	20	15	ug/l	500		92	85-115			

#### Matrix Spike Analyzed: 11/01/2005 (5K01073-MS1)

Source: IOJ1729-03

Arsenic	483	5.0	4.4	ug/l	500	ND	97	70-130			
Barium	0.489	0.010	0.0060	mg/l	0.500	0.048	88	70-130			
Beryllium	469	2.0	0.90	ug/l	500	ND	94	70-130			
Boron	0.827	0.050	0.0080	mg/l	0.500	0.34	97	70-130			
Chromium	466	5.0	2.0	ug/l	500	5.6	92	70-130			
Cobalt	418	10	2.0	ug/l	500	ND	84	70-130			
Iron	0.463	0.040	0.015	mg/l	0.500	ND	93	70-130			
Manganese	485	20	7.0	ug/l	500	30	91	70-130			
Nickel	440	10	2.0	ug/l	500	ND	88	70-130			
Vanadium	490	10	3.0	ug/l	500	ND	98	70-130			
Zinc	453	20	15	ug/l	500	ND	91	70-130			

#### Matrix Spike Analyzed: 11/01/2005 (5K01073-MS2)

Source: IOJ2095-01

Arsenic	477	5.0	4.4	ug/l	500	ND	95	70-130			
Barium	0.509	0.010	0.0060	mg/l	0.500	0.055	91	70-130			
Beryllium	481	2.0	0.90	ug/l	500	ND	96	70-130			
Boron	0.704	0.050	0.0080	mg/l	0.500	0.22	97	70-130			
Chromium	455	5.0	2.0	ug/l	500	ND	91	70-130			
Cobalt	428	10	2.0	ug/l	500	ND	86	70-130			
Iron	0.516	0.040	0.015	mg/l	0.500	0.040	95	70-130			
Manganese	468	20	7.0	ug/l	500	ND	94	70-130			
Nickel	438	10	2.0	ug/l	500	2.2	87	70-130			
Vanadium	496	10	3.0	ug/l	500	ND	99	70-130			

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## METHOD BLANK/QC DATA

### METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 5K01073 Extracted: 11/01/05</b>											
<b>Matrix Spike Analyzed: 11/01/2005 (5K01073-MS2)</b>						<b>Source: IOJ2095-01</b>					
Zinc	443	20	15	ug/l	500	ND	89	70-130			
<b>Matrix Spike Dup Analyzed: 11/01/2005 (5K01073-MSD1)</b>						<b>Source: IOJ1729-03</b>					
Arsenic	493	5.0	4.4	ug/l	500	ND	99	70-130	2	20	
Barium	0.495	0.010	0.0060	mg/l	0.500	0.048	89	70-130	1	20	
Beryllium	484	2.0	0.90	ug/l	500	ND	97	70-130	3	20	
Boron	0.838	0.050	0.0080	mg/l	0.500	0.34	100	70-130	1	20	
Chromium	477	5.0	2.0	ug/l	500	5.6	94	70-130	2	20	
Cobalt	429	10	2.0	ug/l	500	ND	86	70-130	3	20	
Iron	0.474	0.040	0.015	mg/l	0.500	ND	95	70-130	2	20	
Manganese	495	20	7.0	ug/l	500	30	93	70-130	2	20	
Nickel	448	10	2.0	ug/l	500	ND	90	70-130	2	20	
Vanadium	502	10	3.0	ug/l	500	ND	100	70-130	2	20	
Zinc	464	20	15	ug/l	500	ND	93	70-130	2	20	

### **Batch: 5K01076 Extracted: 11/01/05**

#### **Blank Analyzed: 11/01/2005 (5K01076-BLK1)**

Antimony	ND	2.0	0.050	ug/l							
Cadmium	ND	1.0	0.025	ug/l							
Copper	ND	2.0	0.25	ug/l							
Lead	ND	1.0	0.040	ug/l							
Selenium	ND	2.0	0.30	ug/l							
Silver	ND	1.0	0.025	ug/l							
Thallium	ND	1.0	0.15	ug/l							

#### **LCS Analyzed: 11/01/2005 (5K01076-BS1)**

Antimony	83.4	2.0	0.050	ug/l	80.0		104	85-115			
Cadmium	81.4	1.0	0.025	ug/l	80.0		102	85-115			
Copper	79.5	2.0	0.25	ug/l	80.0		99	85-115			
Lead	80.1	1.0	0.040	ug/l	80.0		100	85-115			
Selenium	80.2	2.0	0.30	ug/l	80.0		100	85-115			
Silver	78.0	1.0	0.025	ug/l	80.0		98	85-115			
Thallium	79.6	1.0	0.15	ug/l	80.0		100	85-115			

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The Boeing Company-SSFL  
 5800 Woolsey Canyon Road  
 Canoga Park, CA 91304-1148  
 Attention: Bill McIlvaine

Project ID: Boeing SSFL-NPDES (sand)  
 TAS#  
 Report Number: IOJ1924

Sampled: 10/27/05  
 Received: 10/27/05

## METHOD BLANK/QC DATA

### METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 5K01076 Extracted: 11/01/05</b>											
<b>Matrix Spike Analyzed: 11/01/2005 (5K01076-MS1)</b>						<b>Source: IOJ2155-01</b>					
Antimony	84.8	2.0	0.050	ug/l	80.0	ND	106	70-130			
Cadmium	81.4	1.0	0.025	ug/l	80.0	0.029	102	70-130			
Copper	77.1	2.0	0.25	ug/l	80.0	0.79	95	70-130			
Lead	81.9	1.0	0.040	ug/l	80.0	0.11	102	70-130			
Selenium	78.9	2.0	0.30	ug/l	80.0	0.52	98	70-130			
Silver	74.1	1.0	0.025	ug/l	80.0	0.044	93	70-130			
Thallium	80.6	1.0	0.15	ug/l	80.0	ND	101	70-130			
<b>Matrix Spike Analyzed: 11/01/2005 (5K01076-MS2)</b>						<b>Source: IOK0049-02</b>					
Antimony	84.0	2.0	0.050	ug/l	80.0	0.24	105	70-130			
Cadmium	79.0	1.0	0.025	ug/l	80.0	0.18	99	70-130			
Copper	77.3	2.0	0.25	ug/l	80.0	3.7	92	70-130			
Lead	76.1	1.0	0.040	ug/l	80.0	0.19	95	70-130			
Selenium	83.4	2.0	0.30	ug/l	80.0	3.1	100	70-130			
Silver	70.4	1.0	0.025	ug/l	80.0	ND	88	70-130			
Thallium	75.7	1.0	0.15	ug/l	80.0	ND	95	70-130			
<b>Matrix Spike Dup Analyzed: 11/01/2005 (5K01076-MSD1)</b>						<b>Source: IOJ2155-01</b>					
Antimony	84.5	2.0	0.050	ug/l	80.0	ND	106	70-130	0	20	
Cadmium	80.9	1.0	0.025	ug/l	80.0	0.029	101	70-130	1	20	
Copper	76.2	2.0	0.25	ug/l	80.0	0.79	94	70-130	1	20	
Lead	80.6	1.0	0.040	ug/l	80.0	0.11	101	70-130	2	20	
Selenium	77.4	2.0	0.30	ug/l	80.0	0.52	96	70-130	2	20	
Silver	74.0	1.0	0.025	ug/l	80.0	0.044	92	70-130	0	20	
Thallium	80.1	1.0	0.15	ug/l	80.0	ND	100	70-130	1	20	
<b>Batch: 5K01081 Extracted: 11/01/05</b>											
<b>Blank Analyzed: 11/01/2005 (5K01081-BLK1)</b>											
Mercury	ND	0.20	0.050	ug/l							

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 Project Manager





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## METHOD BLANK/QC DATA

### METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 5K01081 Extracted: 11/01/05</b>											
<b>LCS Analyzed: 11/01/2005 (5K01081-BS1)</b>											
Mercury	8.62	0.20	0.050	ug/l	8.00		108	85-115			
<b>Matrix Spike Analyzed: 11/01/2005 (5K01081-MS1)</b>											
Mercury	8.52	0.20	0.050	ug/l	8.00	ND	106	70-130			
<b>Matrix Spike Dup Analyzed: 11/01/2005 (5K01081-MSD1)</b>											
Mercury	8.59	0.20	0.050	ug/l	8.00	ND	107	70-130	1	20	

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**METHOD BLANK/QC DATA**
**STLC METALS (DI WET)**

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	RPD RPD	RPD Limit	Data Qualifiers
<b>Batch: 5J27112 Extracted: 10/27/05</b>										
<b>Blank Analyzed: 10/27/2005 (5J27112-BLK1)</b>										
Antimony	ND	0.0020	0.000050	mg/l						
Cadmium	0.000130	0.0010	0.000025	mg/l						J
Copper	ND	0.0020	0.00025	mg/l						
Lead	ND	0.0010	0.000040	mg/l						
Selenium	ND	0.0020	0.00030	mg/l						
Silver	ND	0.0010	0.000025	mg/l						
Thallium	0.000157	0.0010	0.00015	mg/l						J
<b>LCS Analyzed: 10/27/2005 (5J27112-BS1)</b>										
Antimony	0.0748	0.0020	0.000050	mg/l	0.0800		94		80-120	
Cadmium	0.0759	0.0010	0.000025	mg/l	0.0800		95		80-120	
Copper	0.0805	0.0020	0.00025	mg/l	0.0800		101		80-120	
Lead	0.0836	0.0010	0.000040	mg/l	0.0800		104		80-120	
Selenium	0.0791	0.0020	0.00030	mg/l	0.0800		99		80-120	
Silver	0.0679	0.0010	0.000025	mg/l	0.0800		85		80-120	
Thallium	0.0810	0.0010	0.00015	mg/l	0.0800		101		80-120	
<b>Matrix Spike Analyzed: 10/27/2005 (5J27112-MS1) Source: IOJ1924-01</b>										
Antimony	0.0764	0.0020	0.000050	mg/l	0.0800	0.00028	95		75-125	
Cadmium	0.0765	0.0010	0.000025	mg/l	0.0800	0.00016	95		75-125	
Copper	0.0903	0.0020	0.00025	mg/l	0.0800	0.011	99		75-125	
Lead	0.0880	0.0010	0.000040	mg/l	0.0800	0.0061	102		75-125	
Selenium	0.0789	0.0020	0.00030	mg/l	0.0800	0.00030	98		75-125	
Silver	0.0587	0.0010	0.000025	mg/l	0.0800	0.000096	73		75-125	M2
Thallium	0.0804	0.0010	0.00015	mg/l	0.0800	ND	100		75-125	
<b>Matrix Spike Dup Analyzed: 10/27/2005 (5J27112-MSD1) Source: IOJ1924-01</b>										
Antimony	0.0755	0.0020	0.000050	mg/l	0.0800	0.00028	94	75-125	1	20
Cadmium	0.0761	0.0010	0.000025	mg/l	0.0800	0.00016	95	75-125	1	20
Copper	0.0905	0.0020	0.00025	mg/l	0.0800	0.011	99	75-125	0	20
Lead	0.0885	0.0010	0.000040	mg/l	0.0800	0.0061	103	75-125	1	20
Selenium	0.0787	0.0020	0.00030	mg/l	0.0800	0.00030	98	75-125	0	20
Silver	0.0671	0.0010	0.000025	mg/l	0.0800	0.000096	84	75-125	13	20
Thallium	0.0804	0.0010	0.00015	mg/l	0.0800	ND	100	75-125	0	20

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### METHOD BLANK/QC DATA

### STLC METALS (DI WET)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	RPD Limits	RPD RPD	RPD Limit	Data Qualifiers
<b>Batch: 5J27114 Extracted: 10/27/05</b>											
<b>Blank Analyzed: 10/27/2005 (5J27114-BLK1)</b>											
Arsenic	ND	0.0050	0.0044	mg/l							
Cobalt	ND	0.010	0.0020	mg/l							
Barium	ND	0.010	0.0060	mg/l							
Beryllium	ND	0.0040	0.00090	mg/l							
Boron	ND	0.050	0.0080	mg/l							
Chromium	ND	0.0050	0.0020	mg/l							
Iron	ND	0.040	0.015	mg/l							
Manganese	ND	0.020	0.0070	mg/l							
Nickel	ND	0.010	0.0020	mg/l							
Vanadium	ND	0.010	0.0030	mg/l							
Zinc	ND	0.020	0.015	mg/l							

### LCS Analyzed: 10/27/2005 (5J27114-BS1)

Arsenic	1.02	0.0050	0.0044	mg/l	1.00		102	80-120			
Cobalt	1.04	0.010	0.0020	mg/l	1.00		104	80-120			
Barium	1.01	0.010	0.0060	mg/l	1.00		101	80-120			
Beryllium	1.03	0.0040	0.00090	mg/l	1.00		103	80-120			
Boron	0.966	0.050	0.0080	mg/l	1.00		97	80-120			
Chromium	1.04	0.0050	0.0020	mg/l	1.00		104	80-120			
Iron	1.03	0.040	0.015	mg/l	1.00		103	80-120			
Manganese	1.04	0.020	0.0070	mg/l	1.00		104	85-115			
Nickel	1.01	0.010	0.0020	mg/l	1.00		101	80-120			
Vanadium	1.00	0.010	0.0030	mg/l	1.00		100	80-120			
Zinc	1.05	0.020	0.015	mg/l	1.00		105	80-120			

### Matrix Spike Analyzed: 10/27/2005 (5J27114-MS1)

					Source: IOJ1924-01						
Arsenic	1.01	0.0050	0.0044	mg/l	1.00	0.010	100	75-125			
Cobalt	1.03	0.010	0.0020	mg/l	1.00	ND	103	75-125			
Barium	1.01	0.010	0.0060	mg/l	1.00	0.013	100	75-125			
Beryllium	1.01	0.0040	0.00090	mg/l	1.00	ND	101	75-125			
Boron	0.979	0.050	0.0080	mg/l	1.00	0.0096	97	75-125			
Chromium	1.02	0.0050	0.0020	mg/l	1.00	0.0054	101	75-125			
Iron	4.70	0.040	0.015	mg/l	1.00	3.9	80	75-125			
Manganese	1.03	0.020	0.0070	mg/l	1.00	0.037	99	70-130			
Nickel	0.990	0.010	0.0020	mg/l	1.00	0.0049	99	75-125			
Vanadium	1.00	0.010	0.0030	mg/l	1.00	0.012	99	75-125			

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### METHOD BLANK/QC DATA

#### STLC METALS (DI WET)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 5J27114 Extracted: 10/27/05</b>											
<b>Matrix Spike Analyzed: 10/27/2005 (5J27114-MS1)</b>						<b>Source: IOJ1924-01</b>					
Zinc	1.07	0.020	0.015	mg/l	1.00	0.054	102	75-125			
<b>Matrix Spike Dup Analyzed: 10/27/2005 (5J27114-MSD1)</b>						<b>Source: IOJ1924-01</b>					
Arsenic	1.01	0.0050	0.0044	mg/l	1.00	0.010	100	75-125	0	20	
Cobalt	1.00	0.010	0.0020	mg/l	1.00	ND	100	75-125	3	20	
Barium	1.00	0.010	0.0060	mg/l	1.00	0.013	99	75-125	1	20	
Beryllium	1.00	0.0040	0.00090	mg/l	1.00	ND	100	75-125	1	20	
Boron	0.961	0.050	0.0080	mg/l	1.00	0.0096	95	75-125	2	20	
Chromium	1.01	0.0050	0.0020	mg/l	1.00	0.0054	100	75-125	1	20	
Iron	4.80	0.040	0.015	mg/l	1.00	3.9	90	75-125	2	20	
Manganese	1.05	0.020	0.0070	mg/l	1.00	0.037	101	70-130	2	20	
Nickel	0.981	0.010	0.0020	mg/l	1.00	0.0049	98	75-125	1	20	
Vanadium	0.998	0.010	0.0030	mg/l	1.00	0.012	99	75-125	0	20	
Zinc	1.06	0.020	0.015	mg/l	1.00	0.054	101	75-125	1	20	
<b>Batch: 5J28071 Extracted: 10/28/05</b>											
<b>Blank Analyzed: 10/28/2005 (5J28071-BLK1)</b>											
Mercury	ND	0.0020	0.00050	mg/l							
<b>LCS Analyzed: 10/28/2005 (5J28071-BS1)</b>											
Mercury	0.0807	0.0020	0.00050	mg/l	0.0800		101	85-120			
<b>Matrix Spike Analyzed: 10/28/2005 (5J28071-MS1)</b>						<b>Source: IOJ1924-01RE1</b>					
Mercury	0.0805	0.0020	0.00050	mg/l	0.0800	ND	101	65-135			
<b>Matrix Spike Dup Analyzed: 10/28/2005 (5J28071-MSD1)</b>						<b>Source: IOJ1924-01RE1</b>					
Mercury	0.0814	0.0020	0.00050	mg/l	0.0800	ND	102	65-135	1	20	

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## DATA QUALIFIERS AND DEFINITIONS

- B** Analyte was detected in the associated Method Blank.
- J** Estimated value. Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL). The user of this data should be aware that this data is of limited reliability.
- M2** The MS and/or MSD were below the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
- ND** Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
- RPD** Relative Percent Difference

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## Certification Summary

### Del Mar Analytical, Irvine

Method	Matrix	Nelac	California
6010B-DI WET	Soil	X	X
6020B-DI WET	Solid	X	X
6020-DI WET	Solid	X	X
6020-DIWET	Solid	X	X
7470A-DI WET	Soil	X	X
DI WET-Met	Soil	X	X
EPA 200.7	Water	X	X
EPA 200.8	Water	X	X
EPA 245.1	Water	X	X
EPA 6020-DI WET	Solid	N/A	X

*Nevada and NELAP provide analyte specific accreditations. Analyte specific information for Del Mar Analytical may be obtained by contacting the laboratory or visiting our website at [www.dmalabs.com](http://www.dmalabs.com).*

**Del Mar Analytical, Irvine**  
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 Project Manager



SSFL ANALYTICAL

CHAIN OF CUSTODY FORM

114 JUL 1230

BOFING

Project:

SAMPLE of # 12  
SAND SOIL

Project Manager/Phone Number:

818-586-9228

Sampler: BILL McILLUVAINE

ANALYSIS REQUIRED

METALS  
TITLE 22 FOR SOIL  
NPOES METALS

Preservation

Sampling Date/Time

# of Containers

Container Type

Sample Matrix

Sample Description

Boeing Log#

Sampler's ID#

10-18-05  
15:00

1

PHYSIC BAG

SAND SOIL

Relinquished By

*Bill Buntz*

Date/Time:

10-18-05  
15:01

Received By

Date/Time:

*Bill Buntz* 10/18/05 15:01

Relinquished By

*Bill Buntz*

Date/Time:

10/18/05 1800

Received By

Date/Time:

*Bill Buntz* 10/18/05 1800

Relinquished By

Date/Time:

Date/Time:

*Bill Buntz* 10/18/05 1800

Turnaround Time: (check)  
Same Day  72 Hours \_\_\_\_\_

24 Hours \_\_\_\_\_ 5 days \_\_\_\_\_

48 hours \_\_\_\_\_ normal \_\_\_\_\_  
Sample Integrity: (Check)

Intact  On Ice: NO RT

*Bill Buntz*