



LABORATORY REPORT

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

Project: Hydroseeding Project
TAS# SSFL-1119

Sampled: 11/09/05
Received: 11/09/05
Issued: 11/16/05 09:56

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 20°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: Refer to the last page for specific subcontract laboratory information included in this report. Samples for EPA 1613 Dioxin's were analyzed as both solids and leached solids. The leached solids were prepared by adding 50 grams of sample to 2 liters of water. Results for solid samples are pending.
- ADDITIONAL INFORMATION: Solid samples for total and dissolved EPA 200.7/200.8/245.1 analyses were prepared by leaching the solid samples with DI water and analyzing the leachate. Samples for 200.7/200.8 analyses for IOK0964-03 through IOK0964-09 were prepared by adding 50 grams of sample to 2 liters of water. For the 245.1 analysis, the samples were prepared by adding 10 grams of sample to 200 mls of water. For the dissolved analyses of IOK0964-02, the sample was prepared by adding 20 grams of sample to 2 liters of water.

LABORATORY ID	CLIENT ID	MATRIX
IOK0964-01	Soil Set	Liquid
IOK0964-02	StarTak 600 (leached)	Water
IOK0964-03	Eco Fibre (leached)	Water

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LABORATORY ID	CLIENT ID	MATRIX
IOK0964-04	Eco Aegis (leached)	Water
IOK0964-05	Applegate N/D (leached)	Water
IOK0964-06	Applegate W/D (leached)	Water
IOK0964-07	Soil Guard (leached)	Water
IOK0964-08	Mat Fibre (leached)	Water
IOK0964-09	Eco Blend (leached)	Water
IOK0964-10	StarTak 600	Solid
IOK0964-11	Eco Fibre	Solid
IOK0964-12	Eco Aegis	Solid
IOK0964-13	Applegate N/D	Solid
IOK0964-14	Applegate W/D	Solid
IOK0964-15	Soil Guard	Solid
IOK0964-16	Mat Fibre	Solid
IOK0964-17	Eco Blend	Solid

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
Sample ID: IOK0964-10 (StarTak 600 - Solid)									
Reporting Units: mg/kg dry									
Antimony	EPA 6020	5K10117	0.032	1.1	0.39	1	11/10/05	11/11/05	J
Arsenic	EPA 6010B	5K10116	0.64	2.1	ND	1	11/10/05	11/11/05	
Barium	EPA 6010B	5K10116	0.85	1.1	ND	1	11/10/05	11/11/05	
Beryllium	EPA 6010B	5K10116	0.21	0.53	ND	1	11/10/05	11/11/05	
Boron	EPA 6010B	5K10116	1.1	5.3	2.7	1	11/10/05	11/11/05	J
Cadmium	EPA 6020	5K10117	0.021	0.53	ND	1	11/10/05	11/11/05	
Chromium	EPA 6010B	5K10116	0.32	1.1	0.32	1	11/10/05	11/11/05	J
Cobalt	EPA 6010B	5K10116	0.32	1.1	ND	1	11/10/05	11/11/05	
Copper	EPA 6020	5K10117	0.21	1.1	0.85	1	11/10/05	11/11/05	J
Iron	EPA 6010B	5K10116	1.6	5.3	17	1	11/10/05	11/11/05	M1, R-3
Lead	EPA 6020	5K10117	0.021	0.53	0.029	1	11/10/05	11/11/05	J
Manganese	EPA 6010B	5K10116	0.85	1.1	ND	1	11/10/05	11/11/05	
Mercury	EPA 7471A	5K14094	0.0032	0.021	ND	1	11/14/05	11/14/05	
Nickel	EPA 6010B	5K10116	0.21	2.1	0.30	1	11/10/05	11/11/05	J
Selenium	EPA 6020	5K10117	0.21	1.1	0.21	1	11/10/05	11/11/05	J
Silver	EPA 6020	5K10117	0.021	0.53	ND	1	11/10/05	11/11/05	
Thallium	EPA 6020	5K10117	0.11	0.53	ND	1	11/10/05	11/11/05	
Vanadium	EPA 6010B	5K10116	0.32	1.1	ND	1	11/10/05	11/11/05	
Zinc	EPA 6010B	5K10116	1.6	5.3	3.3	1	11/10/05	11/11/05	B, J

Sample ID: IOK0964-11 (Eco Fibre - Solid)

Reporting Units: mg/kg dry

Antimony	EPA 6020	5K10117	0.034	1.1	3.0	1	11/10/05	11/11/05	
Arsenic	EPA 6010B	5K10116	0.67	2.2	ND	1	11/10/05	11/11/05	
Barium	EPA 6010B	5K10116	0.90	1.1	5.0	1	11/10/05	11/11/05	
Beryllium	EPA 6010B	5K10116	0.22	0.56	ND	1	11/10/05	11/11/05	
Boron	EPA 6010B	5K10116	1.1	5.6	2.7	1	11/10/05	11/11/05	J
Cadmium	EPA 6020	5K10117	0.022	0.56	0.066	1	11/10/05	11/11/05	J
Chromium	EPA 6010B	5K10116	0.34	1.1	1.8	1	11/10/05	11/11/05	
Cobalt	EPA 6010B	5K10116	0.34	1.1	ND	1	11/10/05	11/11/05	
Copper	EPA 6020	5K10117	0.22	1.1	9.6	1	11/10/05	11/11/05	
Iron	EPA 6010B	5K10116	1.7	5.6	150	1	11/10/05	11/11/05	
Lead	EPA 6020	5K10117	0.022	0.56	1.5	1	11/10/05	11/11/05	
Manganese	EPA 6010B	5K10116	0.90	1.1	63	1	11/10/05	11/11/05	
Mercury	EPA 7471A	5K14094	0.0034	0.022	ND	1	11/14/05	11/14/05	
Nickel	EPA 6010B	5K10116	0.22	2.2	0.32	1	11/10/05	11/11/05	J
Selenium	EPA 6020	5K10117	0.22	1.1	ND	1	11/10/05	11/11/05	
Silver	EPA 6020	5K10117	0.022	0.56	0.034	1	11/10/05	11/11/05	J
Thallium	EPA 6020	5K10117	0.11	0.56	ND	1	11/10/05	11/11/05	
Vanadium	EPA 6010B	5K10116	0.34	1.1	ND	1	11/10/05	11/11/05	
Zinc	EPA 6010B	5K10116	1.7	5.6	8.4	1	11/10/05	11/11/05	B

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METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IOK0964-12 (Eco Aegis - Solid)									
Reporting Units: mg/kg dry									
Antimony	EPA 6020	5K10117	0.34	11	1000	10	11/10/05	11/11/05	
Arsenic	EPA 6010B	5K10116	0.67	2.2	2.0	1	11/10/05	11/11/05	J
Barium	EPA 6010B	5K10116	0.89	1.1	6.7	1	11/10/05	11/11/05	
Beryllium	EPA 6010B	5K10116	0.22	0.56	ND	1	11/10/05	11/11/05	
Boron	EPA 6010B	5K10116	1.1	5.6	2.5	1	11/10/05	11/11/05	J
Cadmium	EPA 6020	5K10117	0.022	0.56	0.086	1	11/10/05	11/11/05	J
Chromium	EPA 6010B	5K10116	0.34	1.1	3.4	1	11/10/05	11/11/05	
Cobalt	EPA 6010B	5K10116	0.34	1.1	ND	1	11/10/05	11/11/05	
Copper	EPA 6020	5K10117	0.22	1.1	3.6	1	11/10/05	11/11/05	
Iron	EPA 6010B	5K10116	1.7	5.6	280	1	11/10/05	11/11/05	
Lead	EPA 6020	5K10117	0.022	0.56	2.3	1	11/10/05	11/11/05	
Manganese	EPA 6010B	5K10116	0.89	1.1	59	1	11/10/05	11/11/05	
Mercury	EPA 7471A	5K14094	0.0034	0.022	ND	1	11/14/05	11/14/05	
Nickel	EPA 6010B	5K10116	0.22	2.2	0.30	1	11/10/05	11/11/05	J
Selenium	EPA 6020	5K10117	0.22	1.1	ND	1	11/10/05	11/11/05	
Silver	EPA 6020	5K10117	0.022	0.56	0.045	1	11/10/05	11/11/05	J
Thallium	EPA 6020	5K10117	0.11	0.56	ND	1	11/10/05	11/11/05	
Vanadium	EPA 6010B	5K10116	0.34	1.1	0.34	1	11/10/05	11/11/05	J
Zinc	EPA 6010B	5K10116	1.7	5.6	9.8	1	11/10/05	11/11/05	B

Sample ID: IOK0964-13 (Applegate N/D - Solid)

Reporting Units: mg/kg dry

Antimony	EPA 6020	5K10117	0.032	1.1	7.8	1	11/10/05	11/11/05	
Arsenic	EPA 6010B	5K10116	0.64	2.1	ND	1	11/10/05	11/11/05	
Barium	EPA 6010B	5K10116	0.85	1.1	5.7	1	11/10/05	11/11/05	
Beryllium	EPA 6010B	5K10116	0.21	0.53	ND	1	11/10/05	11/11/05	
Boron	EPA 6010B	5K10116	1.1	5.3	25	1	11/10/05	11/11/05	
Cadmium	EPA 6020	5K10117	0.021	0.53	0.031	1	11/10/05	11/11/05	J
Chromium	EPA 6010B	5K10116	0.32	1.1	0.43	1	11/10/05	11/11/05	J
Cobalt	EPA 6010B	5K10116	0.32	1.1	ND	1	11/10/05	11/11/05	
Copper	EPA 6020	5K10117	0.21	1.1	5.1	1	11/10/05	11/11/05	
Iron	EPA 6010B	5K10116	1.6	5.3	53	1	11/10/05	11/11/05	
Lead	EPA 6020	5K10117	0.021	0.53	0.27	1	11/10/05	11/11/05	J
Manganese	EPA 6010B	5K10116	0.85	1.1	12	1	11/10/05	11/11/05	
Mercury	EPA 7471A	5K14094	0.0032	0.021	ND	1	11/14/05	11/14/05	
Nickel	EPA 6010B	5K10116	0.21	2.1	ND	1	11/10/05	11/11/05	
Selenium	EPA 6020	5K10117	0.21	1.1	ND	1	11/10/05	11/11/05	
Silver	EPA 6020	5K10117	0.021	0.53	0.025	1	11/10/05	11/11/05	J
Thallium	EPA 6020	5K10117	0.11	0.53	ND	1	11/10/05	11/11/05	
Vanadium	EPA 6010B	5K10116	0.32	1.1	0.45	1	11/10/05	11/11/05	J
Zinc	EPA 6010B	5K10116	1.6	5.3	7.8	1	11/10/05	11/11/05	B

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METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IOK0964-14 (Applegate W/D - Solid)									
Reporting Units: mg/kg dry									
Antimony	EPA 6020	5K10117	0.036	1.2	2.2	1	11/10/05	11/11/05	
Arsenic	EPA 6010B	5K10116	0.73	2.4	ND	1	11/10/05	11/11/05	
Barium	EPA 6010B	5K10116	0.97	1.2	6.0	1	11/10/05	11/11/05	
Beryllium	EPA 6010B	5K10116	0.24	0.60	ND	1	11/10/05	11/11/05	
Boron	EPA 6010B	5K10116	1.2	6.0	9.5	1	11/10/05	11/11/05	
Cadmium	EPA 6020	5K10117	0.024	0.60	0.028	1	11/10/05	11/11/05	J
Chromium	EPA 6010B	5K10116	0.36	1.2	0.36	1	11/10/05	11/11/05	J
Cobalt	EPA 6010B	5K10116	0.36	1.2	ND	1	11/10/05	11/11/05	
Copper	EPA 6020	5K10117	0.24	1.2	8.4	1	11/10/05	11/11/05	
Iron	EPA 6010B	5K10116	1.8	6.0	61	1	11/10/05	11/11/05	
Lead	EPA 6020	5K10117	0.024	0.60	0.31	1	11/10/05	11/11/05	J
Manganese	EPA 6010B	5K10116	0.97	1.2	15	1	11/10/05	11/11/05	
Mercury	EPA 7471A	5K14094	0.0036	0.024	0.0066	1	11/14/05	11/14/05	J
Nickel	EPA 6010B	5K10116	0.24	2.4	ND	1	11/10/05	11/11/05	
Selenium	EPA 6020	5K10117	0.24	1.2	ND	1	11/10/05	11/11/05	
Silver	EPA 6020	5K10117	0.024	0.60	0.028	1	11/10/05	11/11/05	J
Thallium	EPA 6020	5K10117	0.12	0.60	ND	1	11/10/05	11/11/05	
Vanadium	EPA 6010B	5K10116	0.36	1.2	1.8	1	11/10/05	11/11/05	
Zinc	EPA 6010B	5K10116	1.8	6.0	7.4	1	11/10/05	11/11/05	B

Sample ID: IOK0964-15 (Soil Guard - Solid)

Reporting Units: mg/kg dry

Antimony	EPA 6020	5K10117	0.033	1.1	0.69	1	11/10/05	11/11/05	J
Arsenic	EPA 6010B	5K10116	0.65	2.2	ND	1	11/10/05	11/11/05	
Barium	EPA 6010B	5K10116	0.87	1.1	19	1	11/10/05	11/11/05	
Beryllium	EPA 6010B	5K10116	0.22	0.55	ND	1	11/10/05	11/11/05	
Boron	EPA 6010B	5K10116	1.1	5.5	3.7	1	11/10/05	11/11/05	J
Cadmium	EPA 6020	5K10117	0.022	0.55	0.17	1	11/10/05	11/11/05	J
Chromium	EPA 6010B	5K10116	0.33	1.1	0.56	1	11/10/05	11/11/05	J
Cobalt	EPA 6010B	5K10116	0.33	1.1	ND	1	11/10/05	11/11/05	
Copper	EPA 6020	5K10117	0.22	1.1	1.5	1	11/10/05	11/11/05	
Iron	EPA 6010B	5K10116	1.6	5.5	38	1	11/10/05	11/11/05	
Lead	EPA 6020	5K10117	0.022	0.55	0.12	1	11/10/05	11/11/05	J
Manganese	EPA 6010B	5K10116	0.87	1.1	45	1	11/10/05	11/11/05	
Mercury	EPA 7471A	5K14094	0.0033	0.022	ND	1	11/14/05	11/14/05	
Nickel	EPA 6010B	5K10116	0.22	2.2	0.51	1	11/10/05	11/11/05	J
Selenium	EPA 6020	5K10117	0.22	1.1	ND	1	11/10/05	11/11/05	
Silver	EPA 6020	5K10117	0.022	0.55	ND	1	11/10/05	11/11/05	
Thallium	EPA 6020	5K10117	0.11	0.55	ND	1	11/10/05	11/11/05	
Vanadium	EPA 6010B	5K10116	0.33	1.1	ND	1	11/10/05	11/11/05	
Zinc	EPA 6010B	5K10116	1.6	5.5	18	1	11/10/05	11/11/05	B

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METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IOK0964-16 (Mat Fibre - Solid)									
Reporting Units: mg/kg dry									
Antimony	EPA 6020	5K10117	0.033	1.1	0.39	1	11/10/05	11/11/05	J
Arsenic	EPA 6010B	5K10116	0.67	2.2	ND	1	11/10/05	11/11/05	
Barium	EPA 6010B	5K10116	0.89	1.1	6.9	1	11/10/05	11/11/05	
Beryllium	EPA 6010B	5K10116	0.22	0.55	ND	1	11/10/05	11/11/05	
Boron	EPA 6010B	5K10116	1.1	5.5	2.5	1	11/10/05	11/11/05	J
Cadmium	EPA 6020	5K10117	0.022	0.55	0.038	1	11/10/05	11/11/05	J
Chromium	EPA 6010B	5K10116	0.33	1.1	1.1	1	11/10/05	11/11/05	
Cobalt	EPA 6010B	5K10116	0.33	1.1	ND	1	11/10/05	11/11/05	
Copper	EPA 6020	5K10117	0.22	1.1	15	1	11/10/05	11/11/05	
Iron	EPA 6010B	5K10116	1.7	5.5	110	1	11/10/05	11/11/05	
Lead	EPA 6020	5K10117	0.022	0.55	0.40	1	11/10/05	11/11/05	J
Manganese	EPA 6010B	5K10116	0.89	1.1	30	1	11/10/05	11/11/05	
Mercury	EPA 7471A	5K14094	0.0033	0.022	0.0039	1	11/14/05	11/14/05	J
Nickel	EPA 6010B	5K10116	0.22	2.2	0.26	1	11/10/05	11/11/05	J
Selenium	EPA 6020	5K10117	0.22	1.1	ND	1	11/10/05	11/11/05	
Silver	EPA 6020	5K10117	0.022	0.55	0.029	1	11/10/05	11/11/05	J
Thallium	EPA 6020	5K10117	0.11	0.55	ND	1	11/10/05	11/11/05	
Vanadium	EPA 6010B	5K10116	0.33	1.1	2.1	1	11/10/05	11/11/05	
Zinc	EPA 6010B	5K10116	1.7	5.5	11	1	11/10/05	11/11/05	B

Sample ID: IOK0964-17 (Eco Blend - Solid)

Reporting Units: mg/kg dry

Antimony	EPA 6020	5K10117	0.034	1.1	0.62	1	11/10/05	11/11/05	J
Arsenic	EPA 6010B	5K10116	0.68	2.3	ND	1	11/10/05	11/11/05	
Barium	EPA 6010B	5K10116	0.91	1.1	13	1	11/10/05	11/11/05	
Beryllium	EPA 6010B	5K10116	0.23	0.57	ND	1	11/10/05	11/11/05	
Boron	EPA 6010B	5K10116	1.1	5.7	2.5	1	11/10/05	11/11/05	J
Cadmium	EPA 6020	5K10117	0.023	0.57	0.057	1	11/10/05	11/11/05	J
Chromium	EPA 6010B	5K10116	0.34	1.1	1.7	1	11/10/05	11/11/05	
Cobalt	EPA 6010B	5K10116	0.34	1.1	ND	1	11/10/05	11/11/05	
Copper	EPA 6020	5K10117	0.23	1.1	20	1	11/10/05	11/11/05	
Iron	EPA 6010B	5K10116	1.7	5.7	51	1	11/10/05	11/11/05	
Lead	EPA 6020	5K10117	0.023	0.57	6.9	1	11/10/05	11/11/05	
Manganese	EPA 6010B	5K10116	0.91	1.1	29	1	11/10/05	11/11/05	
Mercury	EPA 7471A	5K14094	0.0034	0.023	ND	1	11/14/05	11/14/05	
Nickel	EPA 6010B	5K10116	0.23	2.3	0.27	1	11/10/05	11/11/05	J
Selenium	EPA 6020	5K10117	0.23	1.1	ND	1	11/10/05	11/11/05	
Silver	EPA 6020	5K10117	0.023	0.57	ND	1	11/10/05	11/11/05	
Thallium	EPA 6020	5K10117	0.11	0.57	ND	1	11/10/05	11/11/05	
Vanadium	EPA 6010B	5K10116	0.34	1.1	2.4	1	11/10/05	11/11/05	
Zinc	EPA 6010B	5K10116	1.7	5.7	15	1	11/10/05	11/11/05	B

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 Attention: Bill McIlvaine

Project ID: Hydroseeding Project
 TAS# SSFL-1119
 Report Number: IOK0964

Sampled: 11/09/05
 Received: 11/09/05

METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IOK0964-01 (Soil Set - Liquid)									
Reporting Units: mg/l									
Barium	EPA 200.7	5K11001	0.0060	0.010	0.028	1	11/11/05	11/11/05	
Boron	EPA 200.7	5K11001	0.0080	0.050	0.0084	1	11/11/05	11/11/05	J
Iron	EPA 200.7	5K11001	0.015	0.040	0.46	1	11/11/05	11/11/05	
Sample ID: IOK0964-02 (StarTak 600 (leached) - Water)									
Reporting Units: mg/l									
Barium	EPA 200.7	5K11001	0.0060	0.010	ND	1	11/11/05	11/11/05	
Boron	EPA 200.7	5K11001	0.0080	0.050	ND	1	11/11/05	11/11/05	
Iron	EPA 200.7	5K11001	0.015	0.040	0.11	1	11/11/05	11/11/05	
Sample ID: IOK0964-03 (Eco Fibre (leached) - Water)									
Reporting Units: mg/l									
Barium	EPA 200.7	5K11001	0.0060	0.010	0.029	1	11/11/05	11/11/05	
Boron	EPA 200.7	5K11001	0.0080	0.050	0.041	1	11/11/05	11/11/05	J
Iron	EPA 200.7	5K11001	0.015	0.040	0.38	1	11/11/05	11/11/05	
Sample ID: IOK0964-04 (Eco Aegis (leached) - Water)									
Reporting Units: mg/l									
Barium	EPA 200.7	5K11001	0.0060	0.010	0.017	1	11/11/05	11/11/05	
Boron	EPA 200.7	5K11001	0.0080	0.050	0.030	1	11/11/05	11/11/05	J
Iron	EPA 200.7	5K11001	0.015	0.040	0.42	1	11/11/05	11/11/05	
Sample ID: IOK0964-05 (Applegate N/D (leached) - Water)									
Reporting Units: mg/l									
Barium	EPA 200.7	5K11001	0.0060	0.010	0.024	1	11/11/05	11/11/05	
Boron	EPA 200.7	5K11001	0.0080	0.050	0.40	1	11/11/05	11/11/05	
Iron	EPA 200.7	5K11001	0.015	0.040	0.22	1	11/11/05	11/11/05	
Sample ID: IOK0964-06 (Applegate W/D (leached) - Water)									
Reporting Units: mg/l									
Barium	EPA 200.7	5K11001	0.0060	0.010	0.016	1	11/11/05	11/11/05	
Boron	EPA 200.7	5K11001	0.0080	0.050	0.17	1	11/11/05	11/11/05	
Iron	EPA 200.7	5K11001	0.015	0.040	0.15	1	11/11/05	11/11/05	
Sample ID: IOK0964-07 (Soil Guard (leached) - Water)									
Reporting Units: mg/l									
Barium	EPA 200.7	5K11001	0.0060	0.010	0.064	1	11/11/05	11/11/05	
Boron	EPA 200.7	5K11001	0.0080	0.050	0.012	1	11/11/05	11/11/05	J
Iron	EPA 200.7	5K11001	0.015	0.040	0.11	1	11/11/05	11/11/05	

Del Mar Analytical, Irvine
 Michele Harper
 Project Manager

The Boeing Company-SSFL
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METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IOK0964-08 (Mat Fibre (leached) - Water)									
Reporting Units: mg/l									
Barium	EPA 200.7	5K11001	0.0060	0.010	0.014	1	11/11/05	11/11/05	
Boron	EPA 200.7	5K11001	0.0080	0.050	ND	1	11/11/05	11/11/05	
Iron	EPA 200.7	5K11001	0.015	0.040	0.061	1	11/11/05	11/11/05	
Sample ID: IOK0964-09 (Eco Blend (leached) - Water)									
Reporting Units: mg/l									
Barium	EPA 200.7	5K11001	0.0060	0.010	0.022	1	11/11/05	11/11/05	
Boron	EPA 200.7	5K11001	0.0080	0.050	ND	1	11/11/05	11/11/05	
Iron	EPA 200.7	5K11001	0.015	0.040	0.057	1	11/11/05	11/11/05	
Sample ID: IOK0964-01 (Soil Set - Liquid)									
Reporting Units: ug/l									
Antimony	EPA 200.8	5K11002	0.25	10	0.68	5	11/11/05	11/11/05	J
Arsenic	EPA 200.7	5K11001	4.4	5.0	ND	1	11/11/05	11/11/05	
Beryllium	EPA 200.7	5K11001	0.90	2.0	ND	1	11/11/05	11/11/05	
Cadmium	EPA 200.8	5K11002	0.12	5.0	0.70	5	11/11/05	11/11/05	J
Chromium	EPA 200.7	5K11001	2.0	5.0	ND	1	11/11/05	11/11/05	
Cobalt	EPA 200.7	5K11001	2.0	10	ND	1	11/11/05	11/11/05	
Copper	EPA 200.8	5K11002	1.2	10	140	5	11/11/05	11/11/05	
Lead	EPA 200.8	5K11002	0.20	5.0	2.5	5	11/11/05	11/11/05	J
Manganese	EPA 200.7	5K11001	7.0	20	33	1	11/11/05	11/11/05	
Mercury	EPA 245.1	5K14072	0.050	0.20	ND	1	11/14/05	11/14/05	
Nickel	EPA 200.7	5K11001	2.0	10	7.2	1	11/11/05	11/11/05	J
Selenium	EPA 200.8	5K11002	1.5	10	1.9	5	11/11/05	11/11/05	J
Silver	EPA 200.8	5K11002	0.12	5.0	ND	5	11/11/05	11/11/05	
Thallium	EPA 200.8	5K11002	0.75	5.0	ND	5	11/11/05	11/11/05	
Vanadium	EPA 200.7	5K11001	3.0	10	ND	1	11/11/05	11/11/05	
Zinc	EPA 200.7	5K11001	15	20	54	1	11/11/05	11/11/05	B

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Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IOK0964-02 (StarTak 600 (leached) - Water)									
Reporting Units: ug/l									
Antimony	EPA 200.8	5K11002	0.25	10	0.65	5	11/11/05	11/11/05	J
Arsenic	EPA 200.7	5K11001	4.4	5.0	ND	1	11/11/05	11/11/05	
Beryllium	EPA 200.7	5K11001	0.90	2.0	ND	1	11/11/05	11/11/05	
Cadmium	EPA 200.8	5K11002	0.12	5.0	ND	5	11/11/05	11/11/05	
Chromium	EPA 200.7	5K11001	2.0	5.0	ND	1	11/11/05	11/11/05	
Cobalt	EPA 200.7	5K11001	2.0	10	ND	1	11/11/05	11/11/05	
Copper	EPA 200.8	5K11002	1.2	10	30	5	11/11/05	11/11/05	
Lead	EPA 200.8	5K11002	0.20	5.0	0.32	5	11/11/05	11/11/05	J
Manganese	EPA 200.7	5K11001	7.0	20	ND	1	11/11/05	11/11/05	
Mercury	EPA 245.1	5K14072	0.050	0.20	ND	1	11/14/05	11/14/05	
Nickel	EPA 200.7	5K11001	2.0	10	ND	1	11/11/05	11/11/05	
Selenium	EPA 200.8	5K11002	1.5	10	1.9	5	11/11/05	11/11/05	J
Silver	EPA 200.8	5K11002	0.12	5.0	ND	5	11/11/05	11/11/05	
Thallium	EPA 200.8	5K11002	0.75	5.0	ND	5	11/11/05	11/11/05	
Vanadium	EPA 200.7	5K11001	3.0	10	ND	1	11/11/05	11/11/05	
Zinc	EPA 200.7	5K11001	15	20	ND	1	11/11/05	11/11/05	
Sample ID: IOK0964-03 (Eco Fibre (leached) - Water)									
Reporting Units: ug/l									
Antimony	EPA 200.8	5K11002	0.050	2.0	11	1	11/11/05	11/11/05	
Arsenic	EPA 200.7	5K11001	4.4	5.0	ND	1	11/11/05	11/11/05	
Beryllium	EPA 200.7	5K11001	0.90	2.0	ND	1	11/11/05	11/11/05	
Cadmium	EPA 200.8	5K11002	0.025	1.0	0.24	1	11/11/05	11/11/05	J
Chromium	EPA 200.7	5K11001	2.0	5.0	4.0	1	11/11/05	11/11/05	J
Cobalt	EPA 200.7	5K11001	2.0	10	ND	1	11/11/05	11/11/05	
Copper	EPA 200.8	5K11002	0.25	2.0	11	1	11/11/05	11/11/05	
Lead	EPA 200.8	5K11002	0.040	1.0	2.9	1	11/11/05	11/11/05	
Manganese	EPA 200.7	5K11001	7.0	20	540	1	11/11/05	11/11/05	
Mercury	EPA 245.1	5K14072	0.050	0.20	ND	1	11/14/05	11/14/05	
Nickel	EPA 200.7	5K11001	2.0	10	2.2	1	11/11/05	11/11/05	J
Selenium	EPA 200.8	5K11002	0.30	2.0	ND	1	11/11/05	11/11/05	
Silver	EPA 200.8	5K11002	0.025	1.0	0.038	1	11/11/05	11/11/05	J
Thallium	EPA 200.8	5K11002	0.15	1.0	ND	1	11/11/05	11/11/05	
Vanadium	EPA 200.7	5K11001	3.0	10	ND	1	11/11/05	11/11/05	
Zinc	EPA 200.7	5K11001	15	20	41	1	11/11/05	11/11/05	B

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METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IOK0964-04 (Eco Aegis (leached) - Water)									
Reporting Units: ug/l									
Antimony	EPA 200.8	5K11002	5.0	200	17000	100	11/11/05	11/11/05	
Arsenic	EPA 200.7	5K11001	4.4	5.0	12	1	11/11/05	11/11/05	
Beryllium	EPA 200.7	5K11001	0.90	2.0	ND	1	11/11/05	11/11/05	
Cadmium	EPA 200.8	5K11002	0.025	1.0	0.18	1	11/11/05	11/11/05	J
Chromium	EPA 200.7	5K11001	2.0	5.0	3.3	1	11/11/05	11/11/05	J
Cobalt	EPA 200.7	5K11001	2.0	10	ND	1	11/11/05	11/11/05	
Copper	EPA 200.8	5K11002	0.25	2.0	8.4	1	11/11/05	11/11/05	
Lead	EPA 200.8	5K11002	0.040	1.0	5.5	1	11/11/05	11/11/05	
Manganese	EPA 200.7	5K11001	7.0	20	300	1	11/11/05	11/11/05	
Mercury	EPA 245.1	5K14072	0.050	0.20	ND	1	11/14/05	11/14/05	
Nickel	EPA 200.7	5K11001	2.0	10	ND	1	11/11/05	11/11/05	
Selenium	EPA 200.8	5K11002	0.30	2.0	ND	1	11/11/05	11/11/05	
Silver	EPA 200.8	5K11002	0.025	1.0	0.042	1	11/11/05	11/11/05	J
Thallium	EPA 200.8	5K11002	0.15	1.0	ND	1	11/11/05	11/11/05	
Vanadium	EPA 200.7	5K11001	3.0	10	ND	1	11/11/05	11/11/05	
Zinc	EPA 200.7	5K11001	15	20	32	1	11/11/05	11/11/05	B
Sample ID: IOK0964-05 (Applegate N/D (leached) - Water)									
Reporting Units: ug/l									
Antimony	EPA 200.8	5K11002	0.050	2.0	76	1	11/11/05	11/11/05	M2
Arsenic	EPA 200.7	5K11001	4.4	5.0	ND	1	11/11/05	11/11/05	
Beryllium	EPA 200.7	5K11001	0.90	2.0	ND	1	11/11/05	11/11/05	
Cadmium	EPA 200.8	5K11002	0.025	1.0	0.13	1	11/11/05	11/11/05	J
Chromium	EPA 200.7	5K11001	2.0	5.0	2.0	1	11/11/05	11/11/05	J
Cobalt	EPA 200.7	5K11001	2.0	10	ND	1	11/11/05	11/11/05	
Copper	EPA 200.8	5K11002	0.25	2.0	7.1	1	11/11/05	11/11/05	
Lead	EPA 200.8	5K11002	0.040	1.0	0.67	1	11/11/05	11/11/05	J
Manganese	EPA 200.7	5K11001	7.0	20	65	1	11/11/05	11/11/05	
Mercury	EPA 245.1	5K14072	0.050	0.20	ND	1	11/14/05	11/14/05	
Nickel	EPA 200.7	5K11001	2.0	10	ND	1	11/11/05	11/11/05	
Selenium	EPA 200.8	5K11002	0.30	2.0	ND	1	11/11/05	11/11/05	
Silver	EPA 200.8	5K11002	0.025	1.0	0.039	1	11/11/05	11/11/05	J
Thallium	EPA 200.8	5K11002	0.15	1.0	ND	1	11/11/05	11/11/05	
Vanadium	EPA 200.7	5K11001	3.0	10	4.1	1	11/11/05	11/11/05	J
Zinc	EPA 200.7	5K11001	15	20	48	1	11/11/05	11/11/05	B

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Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IOK0964-06 (Applegate W/D (leached) - Water)									
Reporting Units: ug/l									
Antimony	EPA 200.8	5K11002	0.050	2.0	41	1	11/11/05	11/11/05	
Arsenic	EPA 200.7	5K11001	4.4	5.0	ND	1	11/11/05	11/11/05	
Beryllium	EPA 200.7	5K11001	0.90	2.0	ND	1	11/11/05	11/11/05	
Cadmium	EPA 200.8	5K11002	0.025	1.0	0.15	1	11/11/05	11/11/05	J
Chromium	EPA 200.7	5K11001	2.0	5.0	ND	1	11/11/05	11/11/05	
Cobalt	EPA 200.7	5K11001	2.0	10	ND	1	11/11/05	11/11/05	
Copper	EPA 200.8	5K11002	0.25	2.0	10	1	11/11/05	11/11/05	
Lead	EPA 200.8	5K11002	0.040	1.0	0.56	1	11/11/05	11/11/05	J
Manganese	EPA 200.7	5K11001	7.0	20	44	1	11/11/05	11/11/05	
Mercury	EPA 245.1	5K14072	0.050	0.20	ND	1	11/14/05	11/14/05	
Nickel	EPA 200.7	5K11001	2.0	10	ND	1	11/11/05	11/11/05	
Selenium	EPA 200.8	5K11002	0.30	2.0	ND	1	11/11/05	11/11/05	
Silver	EPA 200.8	5K11002	0.025	1.0	0.026	1	11/11/05	11/11/05	J
Thallium	EPA 200.8	5K11002	0.15	1.0	ND	1	11/11/05	11/11/05	
Vanadium	EPA 200.7	5K11001	3.0	10	29	1	11/11/05	11/11/05	
Zinc	EPA 200.7	5K11001	15	20	22	1	11/11/05	11/11/05	B
Sample ID: IOK0964-07 (Soil Guard (leached) - Water)									
Reporting Units: ug/l									
Antimony	EPA 200.8	5K11002	0.050	2.0	9.1	1	11/11/05	11/11/05	
Arsenic	EPA 200.7	5K11001	4.4	5.0	ND	1	11/11/05	11/11/05	
Beryllium	EPA 200.7	5K11001	0.90	2.0	ND	1	11/11/05	11/11/05	
Cadmium	EPA 200.8	5K11002	0.025	1.0	0.47	1	11/11/05	11/11/05	J
Chromium	EPA 200.7	5K11001	2.0	5.0	ND	1	11/11/05	11/11/05	
Cobalt	EPA 200.7	5K11001	2.0	10	ND	1	11/11/05	11/11/05	
Copper	EPA 200.8	5K11002	0.25	2.0	5.9	1	11/11/05	11/11/05	
Lead	EPA 200.8	5K11002	0.040	1.0	0.40	1	11/11/05	11/11/05	J
Manganese	EPA 200.7	5K11001	7.0	20	190	1	11/11/05	11/11/05	
Mercury	EPA 245.1	5K14072	0.050	0.20	ND	1	11/14/05	11/14/05	
Nickel	EPA 200.7	5K11001	2.0	10	3.4	1	11/11/05	11/11/05	J
Selenium	EPA 200.8	5K11002	0.30	2.0	ND	1	11/11/05	11/11/05	
Silver	EPA 200.8	5K11002	0.025	1.0	ND	1	11/11/05	11/11/05	
Thallium	EPA 200.8	5K11002	0.15	1.0	ND	1	11/11/05	11/11/05	
Vanadium	EPA 200.7	5K11001	3.0	10	ND	1	11/11/05	11/11/05	
Zinc	EPA 200.7	5K11001	15	20	67	1	11/11/05	11/11/05	B

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METALS

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Sample ID: IOK0964-08 (Mat Fibre (leached) - Water)									
Reporting Units: ug/l									
Antimony	EPA 200.8	5K11002	0.050	2.0	5.2	1	11/11/05	11/11/05	
Arsenic	EPA 200.7	5K11001	4.4	5.0	ND	1	11/11/05	11/11/05	
Beryllium	EPA 200.7	5K11001	0.90	2.0	ND	1	11/11/05	11/11/05	
Cadmium	EPA 200.8	5K11002	0.025	1.0	0.041	1	11/11/05	11/11/05	J
Chromium	EPA 200.7	5K11001	2.0	5.0	ND	1	11/11/05	11/11/05	
Cobalt	EPA 200.7	5K11001	2.0	10	ND	1	11/11/05	11/11/05	
Copper	EPA 200.8	5K11002	0.25	2.0	2.8	1	11/11/05	11/11/05	
Lead	EPA 200.8	5K11002	0.040	1.0	0.24	1	11/11/05	11/11/05	J
Manganese	EPA 200.7	5K11001	7.0	20	67	1	11/11/05	11/11/05	
Mercury	EPA 245.1	5K14072	0.050	0.20	ND	1	11/14/05	11/14/05	
Nickel	EPA 200.7	5K11001	2.0	10	ND	1	11/11/05	11/11/05	
Selenium	EPA 200.8	5K11002	0.30	2.0	ND	1	11/11/05	11/11/05	
Silver	EPA 200.8	5K11002	0.025	1.0	ND	1	11/11/05	11/11/05	
Thallium	EPA 200.8	5K11002	0.15	1.0	ND	1	11/11/05	11/11/05	
Vanadium	EPA 200.7	5K11001	3.0	10	4.1	1	11/11/05	11/11/05	J
Zinc	EPA 200.7	5K11001	15	20	15	1	11/11/05	11/11/05	B, J
Sample ID: IOK0964-09 (Eco Blend (leached) - Water)									
Reporting Units: ug/l									
Antimony	EPA 200.8	5K11002	0.050	2.0	4.4	1	11/11/05	11/11/05	
Arsenic	EPA 200.7	5K11001	4.4	5.0	ND	1	11/11/05	11/11/05	
Beryllium	EPA 200.7	5K11001	0.90	2.0	ND	1	11/11/05	11/11/05	
Cadmium	EPA 200.8	5K11002	0.025	1.0	0.11	1	11/11/05	11/11/05	J
Chromium	EPA 200.7	5K11001	2.0	5.0	2.5	1	11/11/05	11/11/05	J
Cobalt	EPA 200.7	5K11001	2.0	10	ND	1	11/11/05	11/11/05	
Copper	EPA 200.8	5K11002	0.25	2.0	4.2	1	11/11/05	11/11/05	
Lead	EPA 200.8	5K11002	0.040	1.0	8.9	1	11/11/05	11/11/05	
Manganese	EPA 200.7	5K11001	7.0	20	63	1	11/11/05	11/11/05	
Mercury	EPA 245.1	5K14072	0.050	0.20	ND	1	11/14/05	11/14/05	
Nickel	EPA 200.7	5K11001	2.0	10	ND	1	11/11/05	11/11/05	
Selenium	EPA 200.8	5K11002	0.30	2.0	ND	1	11/11/05	11/11/05	
Silver	EPA 200.8	5K11002	0.025	1.0	ND	1	11/11/05	11/11/05	
Thallium	EPA 200.8	5K11002	0.15	1.0	ND	1	11/11/05	11/11/05	
Vanadium	EPA 200.7	5K11001	3.0	10	4.2	1	11/11/05	11/11/05	J
Zinc	EPA 200.7	5K11001	15	20	26	1	11/11/05	11/11/05	B

Del Mar Analytical, Irvine
 Michele Harper
 Project Manager

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

Project ID: Hydroseeding Project
 TAS# SSFL-1119
 Report Number: IOK0964

Sampled: 11/09/05
 Received: 11/09/05

DISSOLVED METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IOK0964-02 (StarTak 600 (leached) - Water)									
Reporting Units: mg/l									
Barium	EPA 200.7-Diss	5K14083	0.0060	0.010	ND	1	11/14/05	11/14/05	
Boron	EPA 200.7-Diss	5K14083	0.0080	0.050	ND	1	11/14/05	11/14/05	
Iron	EPA 200.7-Diss	5K14083	0.015	0.040	ND	1	11/14/05	11/14/05	
Sample ID: IOK0964-03 (Eco Fibre (leached) - Water)									
Reporting Units: mg/l									
Barium	EPA 200.7-Diss	5K11003	0.0060	0.010	0.029	1	11/11/05	11/11/05	
Boron	EPA 200.7-Diss	5K11003	0.0080	0.050	0.045	1	11/11/05	11/11/05	J
Iron	EPA 200.7-Diss	5K11003	0.015	0.040	0.12	1	11/11/05	11/11/05	B
Sample ID: IOK0964-04 (Eco Aegis (leached) - Water)									
Reporting Units: mg/l									
Barium	EPA 200.7-Diss	5K11003	0.0060	0.010	0.013	1	11/11/05	11/11/05	
Boron	EPA 200.7-Diss	5K11003	0.0080	0.050	0.034	1	11/11/05	11/11/05	J
Iron	EPA 200.7-Diss	5K11003	0.015	0.040	0.11	1	11/11/05	11/11/05	B
Sample ID: IOK0964-05 (Applegate N/D (leached) - Water)									
Reporting Units: mg/l									
Barium	EPA 200.7-Diss	5K11003	0.0060	0.010	ND	1	11/11/05	11/11/05	
Boron	EPA 200.7-Diss	5K11003	0.0080	0.050	0.42	1	11/11/05	11/11/05	
Iron	EPA 200.7-Diss	5K11003	0.015	0.040	0.027	1	11/11/05	11/11/05	B, J
Sample ID: IOK0964-06 (Applegate W/D (leached) - Water)									
Reporting Units: mg/l									
Barium	EPA 200.7-Diss	5K11003	0.0060	0.010	ND	1	11/11/05	11/11/05	
Boron	EPA 200.7-Diss	5K11003	0.0080	0.050	0.17	1	11/11/05	11/11/05	
Iron	EPA 200.7-Diss	5K11003	0.015	0.040	0.020	1	11/11/05	11/11/05	B, J
Sample ID: IOK0964-07 (Soil Guard (leached) - Water)									
Reporting Units: mg/l									
Barium	EPA 200.7-Diss	5K11003	0.0060	0.010	0.020	1	11/11/05	11/11/05	
Boron	EPA 200.7-Diss	5K11003	0.0080	0.050	ND	1	11/11/05	11/11/05	
Iron	EPA 200.7-Diss	5K11003	0.015	0.040	0.015	1	11/11/05	11/11/05	B, J
Sample ID: IOK0964-08 (Mat Fibre (leached) - Water)									
Reporting Units: mg/l									
Barium	EPA 200.7-Diss	5K11003	0.0060	0.010	0.011	1	11/11/05	11/11/05	
Boron	EPA 200.7-Diss	5K11003	0.0080	0.050	ND	1	11/11/05	11/11/05	
Iron	EPA 200.7-Diss	5K11003	0.015	0.040	ND	1	11/11/05	11/11/05	

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 Michele Harper
 Project Manager



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Project ID: Hydroseeding Project
 TAS# SSFL-1119
 Report Number: IOK0964

Sampled: 11/09/05
 Received: 11/09/05

DISSOLVED METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IOK0964-09 (Eco Blend (leached) - Water)									
Reporting Units: mg/l									
Barium	EPA 200.7-Diss	5K11003	0.0060	0.010	0.013	1	11/11/05	11/11/05	
Boron	EPA 200.7-Diss	5K11003	0.0080	0.050	ND	1	11/11/05	11/11/05	
Iron	EPA 200.7-Diss	5K11003	0.015	0.040	0.025	1	11/11/05	11/11/05	B, J
Sample ID: IOK0964-02 (StarTak 600 (leached) - Water)									
Reporting Units: ug/l									
Antimony	EPA 200.8-Diss	5K14082	0.050	2.0	4.1	1	11/14/05	11/15/05	
Arsenic	EPA 200.7-Diss	5K14083	4.4	5.0	ND	1	11/14/05	11/14/05	
Beryllium	EPA 200.7-Diss	5K14083	0.90	2.0	ND	1	11/14/05	11/14/05	
Cadmium	EPA 200.8-Diss	5K14082	0.025	1.0	0.028	1	11/14/05	11/15/05	J
Chromium	EPA 200.7-Diss	5K14083	2.0	5.0	ND	1	11/14/05	11/14/05	
Cobalt	EPA 200.7-Diss	5K14083	2.0	10	ND	1	11/14/05	11/14/05	
Copper	EPA 200.8-Diss	5K14082	0.25	2.0	3.0	1	11/14/05	11/15/05	
Lead	EPA 200.8-Diss	5K14082	0.040	1.0	0.12	1	11/14/05	11/15/05	J
Manganese	EPA 200.7-Diss	5K14083	7.0	20	ND	1	11/14/05	11/14/05	
Mercury	EPA 245.1-Diss	5K14071	0.050	0.20	ND	1	11/14/05	11/14/05	
Nickel	EPA 200.7-Diss	5K14083	2.0	10	ND	1	11/14/05	11/14/05	
Selenium	EPA 200.8-Diss	5K14082	0.30	2.0	0.56	1	11/14/05	11/15/05	J
Silver	EPA 200.8-Diss	5K14082	0.025	1.0	ND	1	11/14/05	11/15/05	
Thallium	EPA 200.8-Diss	5K14082	0.15	1.0	ND	1	11/14/05	11/15/05	
Vanadium	EPA 200.7-Diss	5K14083	3.0	10	ND	1	11/14/05	11/14/05	
Zinc	EPA 200.7-Diss	5K14083	15	20	ND	1	11/14/05	11/14/05	
Sample ID: IOK0964-03 (Eco Fibre (leached) - Water)									
Reporting Units: ug/l									
Antimony	EPA 200.8-Diss	5K11004	0.050	2.0	17	1	11/11/05	11/11/05	
Arsenic	EPA 200.7-Diss	5K11003	4.4	5.0	ND	1	11/11/05	11/11/05	
Beryllium	EPA 200.7-Diss	5K11003	0.90	2.0	ND	1	11/11/05	11/11/05	
Cadmium	EPA 200.8-Diss	5K11004	0.025	1.0	0.18	1	11/11/05	11/11/05	J
Chromium	EPA 200.7-Diss	5K11003	2.0	5.0	ND	1	11/11/05	11/11/05	
Cobalt	EPA 200.7-Diss	5K11003	2.0	10	ND	1	11/11/05	11/11/05	
Copper	EPA 200.8-Diss	5K11004	0.25	2.0	9.5	1	11/11/05	11/11/05	
Lead	EPA 200.8-Diss	5K11004	0.040	1.0	0.88	1	11/11/05	11/11/05	J
Manganese	EPA 200.7-Diss	5K11003	7.0	20	470	1	11/11/05	11/11/05	
Mercury	EPA 245.1-Diss	5K14071	0.050	0.20	ND	1	11/14/05	11/14/05	
Nickel	EPA 200.7-Diss	5K11003	2.0	10	2.2	1	11/11/05	11/11/05	J
Selenium	EPA 200.8-Diss	5K11004	0.30	2.0	ND	1	11/11/05	11/11/05	
Silver	EPA 200.8-Diss	5K11004	0.025	1.0	ND	1	11/11/05	11/11/05	
Thallium	EPA 200.8-Diss	5K11004	0.15	1.0	ND	1	11/11/05	11/11/05	
Vanadium	EPA 200.7-Diss	5K11003	3.0	10	ND	1	11/11/05	11/11/05	
Zinc	EPA 200.7-Diss	5K11003	15	20	44	1	11/11/05	11/11/05	

Del Mar Analytical, Irvine
 Michele Harper
 Project Manager



The Boeing Company-SSFL
 5800 Woolsey Canyon Road
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 Attention: Bill McIlvaine

Project ID: Hydroseeding Project
 TAS# SSFL-1119
 Report Number: IOK0964

Sampled: 11/09/05
 Received: 11/09/05

DISSOLVED METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IOK0964-04 (Eco Aegis (leached) - Water)									
Reporting Units: ug/l									
Antimony	EPA 200.8-Diss	5K11004	5.0	200	14000	100	11/11/05	11/11/05	
Arsenic	EPA 200.7-Diss	5K11003	4.4	5.0	10	1	11/11/05	11/11/05	
Beryllium	EPA 200.7-Diss	5K11003	0.90	2.0	ND	1	11/11/05	11/11/05	
Cadmium	EPA 200.8-Diss	5K11004	0.025	1.0	0.11	1	11/11/05	11/11/05	J
Chromium	EPA 200.7-Diss	5K11003	2.0	5.0	3.4	1	11/11/05	11/11/05	J
Cobalt	EPA 200.7-Diss	5K11003	2.0	10	ND	1	11/11/05	11/11/05	
Copper	EPA 200.8-Diss	5K11004	0.25	2.0	6.4	1	11/11/05	11/11/05	
Lead	EPA 200.8-Diss	5K11004	0.040	1.0	2.2	1	11/11/05	11/11/05	
Manganese	EPA 200.7-Diss	5K11003	7.0	20	300	1	11/11/05	11/11/05	
Mercury	EPA 245.1-Diss	5K14071	0.050	0.20	ND	1	11/14/05	11/14/05	
Nickel	EPA 200.7-Diss	5K11003	2.0	10	ND	1	11/11/05	11/11/05	
Selenium	EPA 200.8-Diss	5K11004	0.30	2.0	ND	1	11/11/05	11/11/05	
Silver	EPA 200.8-Diss	5K11004	0.025	1.0	ND	1	11/11/05	11/11/05	
Thallium	EPA 200.8-Diss	5K11004	0.15	1.0	ND	1	11/11/05	11/11/05	
Vanadium	EPA 200.7-Diss	5K11003	3.0	10	ND	1	11/11/05	11/11/05	
Zinc	EPA 200.7-Diss	5K11003	15	20	150	1	11/11/05	11/11/05	

Sample ID: IOK0964-05 (Applegate N/D (leached) - Water)

Reporting Units: ug/l

Antimony	EPA 200.8-Diss	5K11004	0.050	2.0	63	1	11/11/05	11/11/05	
Arsenic	EPA 200.7-Diss	5K11003	4.4	5.0	ND	1	11/11/05	11/11/05	
Beryllium	EPA 200.7-Diss	5K11003	0.90	2.0	ND	1	11/11/05	11/11/05	
Cadmium	EPA 200.8-Diss	5K11004	0.025	1.0	0.074	1	11/11/05	11/11/05	J
Chromium	EPA 200.7-Diss	5K11003	2.0	5.0	ND	1	11/11/05	11/11/05	
Cobalt	EPA 200.7-Diss	5K11003	2.0	10	ND	1	11/11/05	11/11/05	
Copper	EPA 200.8-Diss	5K11004	0.25	2.0	2.6	1	11/11/05	11/11/05	
Lead	EPA 200.8-Diss	5K11004	0.040	1.0	0.083	1	11/11/05	11/11/05	B, J
Manganese	EPA 200.7-Diss	5K11003	7.0	20	17	1	11/11/05	11/11/05	J
Mercury	EPA 245.1-Diss	5K14071	0.050	0.20	ND	1	11/14/05	11/14/05	
Nickel	EPA 200.7-Diss	5K11003	2.0	10	ND	1	11/11/05	11/11/05	
Selenium	EPA 200.8-Diss	5K11004	0.30	2.0	ND	1	11/11/05	11/11/05	
Silver	EPA 200.8-Diss	5K11004	0.025	1.0	ND	1	11/11/05	11/11/05	
Thallium	EPA 200.8-Diss	5K11004	0.15	1.0	ND	1	11/11/05	11/11/05	
Vanadium	EPA 200.7-Diss	5K11003	3.0	10	3.8	1	11/11/05	11/11/05	J
Zinc	EPA 200.7-Diss	5K11003	15	20	24	1	11/11/05	11/11/05	

Del Mar Analytical, Irvine
 Michele Harper
 Project Manager

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

Project ID: Hydroseeding Project
 TAS# SSFL-1119
 Report Number: IOK0964

Sampled: 11/09/05
 Received: 11/09/05

DISSOLVED METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IOK0964-06 (Applegate W/D (leached) - Water)									
Reporting Units: ug/l									
Antimony	EPA 200.8-Diss	5K11004	0.050	2.0	8.5	1	11/11/05	11/11/05	
Arsenic	EPA 200.7-Diss	5K11003	4.4	5.0	ND	1	11/11/05	11/11/05	
Beryllium	EPA 200.7-Diss	5K11003	0.90	2.0	ND	1	11/11/05	11/11/05	
Cadmium	EPA 200.8-Diss	5K11004	0.025	1.0	0.11	1	11/11/05	11/11/05	J
Chromium	EPA 200.7-Diss	5K11003	2.0	5.0	ND	1	11/11/05	11/11/05	
Cobalt	EPA 200.7-Diss	5K11003	2.0	10	ND	1	11/11/05	11/11/05	
Copper	EPA 200.8-Diss	5K11004	0.25	2.0	3.7	1	11/11/05	11/11/05	
Lead	EPA 200.8-Diss	5K11004	0.040	1.0	0.061	1	11/11/05	11/11/05	B, J
Manganese	EPA 200.7-Diss	5K11003	7.0	20	20	1	11/11/05	11/11/05	
Mercury	EPA 245.1-Diss	5K14071	0.050	0.20	ND	1	11/14/05	11/14/05	
Nickel	EPA 200.7-Diss	5K11003	2.0	10	ND	1	11/11/05	11/11/05	
Selenium	EPA 200.8-Diss	5K11004	0.30	2.0	ND	1	11/11/05	11/11/05	
Silver	EPA 200.8-Diss	5K11004	0.025	1.0	ND	1	11/11/05	11/11/05	
Thallium	EPA 200.8-Diss	5K11004	0.15	1.0	ND	1	11/11/05	11/11/05	
Vanadium	EPA 200.7-Diss	5K11003	3.0	10	27	1	11/11/05	11/11/05	
Zinc	EPA 200.7-Diss	5K11003	15	20	ND	1	11/11/05	11/11/05	

Sample ID: IOK0964-07 (Soil Guard (leached) - Water)

Reporting Units: ug/l

Antimony	EPA 200.8-Diss	5K11004	0.050	2.0	2.3	1	11/11/05	11/11/05	
Arsenic	EPA 200.7-Diss	5K11003	4.4	5.0	ND	1	11/11/05	11/11/05	
Beryllium	EPA 200.7-Diss	5K11003	0.90	2.0	ND	1	11/11/05	11/11/05	
Cadmium	EPA 200.8-Diss	5K11004	0.025	1.0	0.090	1	11/11/05	11/11/05	J
Chromium	EPA 200.7-Diss	5K11003	2.0	5.0	ND	1	11/11/05	11/11/05	
Cobalt	EPA 200.7-Diss	5K11003	2.0	10	ND	1	11/11/05	11/11/05	
Copper	EPA 200.8-Diss	5K11004	0.25	2.0	4.0	1	11/11/05	11/11/05	
Lead	EPA 200.8-Diss	5K11004	0.040	1.0	0.14	1	11/11/05	11/11/05	B, J
Manganese	EPA 200.7-Diss	5K11003	7.0	20	120	1	11/11/05	11/11/05	
Mercury	EPA 245.1-Diss	5K14071	0.20	0.80	ND	4	11/14/05	11/14/05	
Nickel	EPA 200.7-Diss	5K11003	2.0	10	2.5	1	11/11/05	11/11/05	J
Selenium	EPA 200.8-Diss	5K11004	0.30	2.0	ND	1	11/11/05	11/11/05	
Silver	EPA 200.8-Diss	5K11004	0.025	1.0	ND	1	11/11/05	11/11/05	
Thallium	EPA 200.8-Diss	5K11004	0.15	1.0	ND	1	11/11/05	11/11/05	
Vanadium	EPA 200.7-Diss	5K11003	3.0	10	ND	1	11/11/05	11/11/05	
Zinc	EPA 200.7-Diss	5K11003	15	20	51	1	11/11/05	11/11/05	

Del Mar Analytical, Irvine
 Michele Harper
 Project Manager



The Boeing Company-SSFL
 5800 Woolsey Canyon Road
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 Attention: Bill McIlvaine

Project ID: Hydroseeding Project
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DISSOLVED METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IOK0964-08 (Mat Fibre (leached) - Water)									
Reporting Units: ug/l									
Antimony	EPA 200.8-Diss	5K11004	0.050	2.0	1.6	1	11/11/05	11/11/05	J
Arsenic	EPA 200.7-Diss	5K11003	4.4	5.0	ND	1	11/11/05	11/11/05	
Beryllium	EPA 200.7-Diss	5K11003	0.90	2.0	ND	1	11/11/05	11/11/05	
Cadmium	EPA 200.8-Diss	5K11004	0.025	1.0	ND	1	11/11/05	11/11/05	
Chromium	EPA 200.7-Diss	5K11003	2.0	5.0	ND	1	11/11/05	11/11/05	
Cobalt	EPA 200.7-Diss	5K11003	2.0	10	ND	1	11/11/05	11/11/05	
Copper	EPA 200.8-Diss	5K11004	0.25	2.0	1.9	1	11/11/05	11/11/05	J
Lead	EPA 200.8-Diss	5K11004	0.040	1.0	0.059	1	11/11/05	11/11/05	B, J
Manganese	EPA 200.7-Diss	5K11003	7.0	20	59	1	11/11/05	11/11/05	
Mercury	EPA 245.1-Diss	5K14071	0.050	0.20	ND	1	11/14/05	11/14/05	
Nickel	EPA 200.7-Diss	5K11003	2.0	10	ND	1	11/11/05	11/11/05	
Selenium	EPA 200.8-Diss	5K11004	0.30	2.0	ND	1	11/11/05	11/11/05	
Silver	EPA 200.8-Diss	5K11004	0.025	1.0	ND	1	11/11/05	11/11/05	
Thallium	EPA 200.8-Diss	5K11004	0.15	1.0	ND	1	11/11/05	11/11/05	
Vanadium	EPA 200.7-Diss	5K11003	3.0	10	3.2	1	11/11/05	11/11/05	J
Zinc	EPA 200.7-Diss	5K11003	15	20	ND	1	11/11/05	11/11/05	

Sample ID: IOK0964-09 (Eco Blend (leached) - Water)

Reporting Units: ug/l

Antimony	EPA 200.8-Diss	5K11004	0.050	2.0	2.7	1	11/11/05	11/11/05	
Arsenic	EPA 200.7-Diss	5K11003	4.4	5.0	ND	1	11/11/05	11/11/05	
Beryllium	EPA 200.7-Diss	5K11003	0.90	2.0	ND	1	11/11/05	11/11/05	
Cadmium	EPA 200.8-Diss	5K11004	0.025	1.0	0.080	1	11/11/05	11/11/05	J
Chromium	EPA 200.7-Diss	5K11003	2.0	5.0	ND	1	11/11/05	11/11/05	
Cobalt	EPA 200.7-Diss	5K11003	2.0	10	ND	1	11/11/05	11/11/05	
Copper	EPA 200.8-Diss	5K11004	0.25	2.0	1.9	1	11/11/05	11/11/05	J
Lead	EPA 200.8-Diss	5K11004	0.040	1.0	1.3	1	11/11/05	11/11/05	
Manganese	EPA 200.7-Diss	5K11003	7.0	20	42	1	11/11/05	11/11/05	
Mercury	EPA 245.1-Diss	5K14071	0.050	0.20	ND	1	11/14/05	11/14/05	
Nickel	EPA 200.7-Diss	5K11003	2.0	10	ND	1	11/11/05	11/11/05	
Selenium	EPA 200.8-Diss	5K11004	0.30	2.0	ND	1	11/11/05	11/11/05	
Silver	EPA 200.8-Diss	5K11004	0.025	1.0	ND	1	11/11/05	11/11/05	
Thallium	EPA 200.8-Diss	5K11004	0.15	1.0	ND	1	11/11/05	11/11/05	
Vanadium	EPA 200.7-Diss	5K11003	3.0	10	ND	1	11/11/05	11/11/05	
Zinc	EPA 200.7-Diss	5K11003	15	20	21	1	11/11/05	11/11/05	

Del Mar Analytical, Irvine
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Project ID: Hydroseeding Project
TAS# SSFL-1119
Report Number: IOK0964

Sampled: 11/09/05
Received: 11/09/05

INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IOK0964-10 (StarTak 600 - Solid)									
Reporting Units: %									
Percent Solids	EPA 160.3 MOD	5K10099	0.10	0.10	94	1	11/10/05	11/10/05	
Sample ID: IOK0964-11 (Eco Fibre - Solid)									
Reporting Units: %									
Percent Solids	EPA 160.3 MOD	5K10099	0.10	0.10	89	1	11/10/05	11/10/05	
Sample ID: IOK0964-12 (Eco Aegis - Solid)									
Reporting Units: %									
Percent Solids	EPA 160.3 MOD	5K10099	0.10	0.10	89	1	11/10/05	11/10/05	
Sample ID: IOK0964-13 (Applegate N/D - Solid)									
Reporting Units: %									
Percent Solids	EPA 160.3 MOD	5K10099	0.10	0.10	94	1	11/10/05	11/10/05	
Sample ID: IOK0964-14 (Applegate W/D - Solid)									
Reporting Units: %									
Percent Solids	EPA 160.3 MOD	5K10099	0.10	0.10	83	1	11/10/05	11/10/05	
Sample ID: IOK0964-15 (Soil Guard - Solid)									
Reporting Units: %									
Percent Solids	EPA 160.3 MOD	5K10099	0.10	0.10	92	1	11/10/05	11/10/05	
Sample ID: IOK0964-16 (Mat Fibre - Solid)									
Reporting Units: %									
Percent Solids	EPA 160.3 MOD	5K10099	0.10	0.10	90	1	11/10/05	11/10/05	
Sample ID: IOK0964-17 (Eco Blend - Solid)									
Reporting Units: %									
Percent Solids	EPA 160.3 MOD	5K10099	0.10	0.10	88	1	11/10/05	11/10/05	

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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
Batch: 5K10116 Extracted: 11/10/05											
Blank Analyzed: 11/11/2005 (5K10116-BLK1)											
Arsenic	ND	2.0	0.60	mg/kg wet							
Barium	ND	1.0	0.80	mg/kg wet							
Beryllium	ND	0.50	0.20	mg/kg wet							
Boron	ND	5.0	1.0	mg/kg wet							
Chromium	ND	1.0	0.30	mg/kg wet							
Cobalt	ND	1.0	0.30	mg/kg wet							
Iron	ND	5.0	1.5	mg/kg wet							
Manganese	ND	1.0	0.80	mg/kg wet							
Nickel	ND	2.0	0.20	mg/kg wet							
Vanadium	ND	1.0	0.30	mg/kg wet							
Zinc	2.52	5.0	1.5	mg/kg wet							J

LCS Analyzed: 11/11/2005 (5K10116-BS1)

Arsenic	45.9	2.0	0.60	mg/kg wet	50.0		92	80-120			
Barium	44.2	1.0	0.80	mg/kg wet	50.0		88	80-120			
Beryllium	46.4	0.50	0.20	mg/kg wet	50.0		93	80-120			
Boron	50.0	5.0	1.0	mg/kg wet	50.0		100	80-120			
Chromium	46.8	1.0	0.30	mg/kg wet	50.0		94	80-120			
Cobalt	44.9	1.0	0.30	mg/kg wet	50.0		90	80-120			
Iron	47.8	5.0	1.5	mg/kg wet	50.0		96	80-120			
Manganese	46.3	1.0	0.80	mg/kg wet	50.0		93	80-120			
Nickel	45.0	2.0	0.20	mg/kg wet	50.0		90	80-120			
Vanadium	45.6	1.0	0.30	mg/kg wet	50.0		91	80-120			
Zinc	44.7	5.0	1.5	mg/kg wet	50.0		89	80-120			

Matrix Spike Analyzed: 11/11/2005 (5K10116-MS1)

Source: IOK0964-10

Arsenic	49.3	2.1	0.64	mg/kg dry	53.0	ND	93	75-125			
Barium	45.7	1.1	0.85	mg/kg dry	53.0	ND	86	75-125			
Beryllium	48.1	0.53	0.21	mg/kg dry	53.0	ND	91	75-125			
Boron	49.3	5.3	1.1	mg/kg dry	53.0	2.7	88	75-125			
Chromium	48.9	1.1	0.32	mg/kg dry	53.0	0.32	92	75-125			
Cobalt	46.5	1.1	0.32	mg/kg dry	53.0	ND	88	75-125			
Iron	97.1	5.3	1.6	mg/kg dry	53.0	17	151	75-125			MI
Manganese	47.2	1.1	0.85	mg/kg dry	53.0	ND	89	75-125			
Nickel	47.5	2.1	0.21	mg/kg dry	53.0	0.30	89	75-125			
Vanadium	48.5	1.1	0.32	mg/kg dry	53.0	ND	92	75-125			

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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
Batch: 5K10116 Extracted: 11/10/05											
Matrix Spike Analyzed: 11/11/2005 (5K10116-MS1)						Source: IOK0964-10					
Zinc	49.4	5.3	1.6	mg/kg dry	53.0	3.3	87	75-125			
Matrix Spike Dup Analyzed: 11/11/2005 (5K10116-MSD1)						Source: IOK0964-10					
Arsenic	49.9	2.1	0.64	mg/kg dry	53.0	ND	94	75-125	1	20	
Barium	46.4	1.1	0.85	mg/kg dry	53.0	ND	88	75-125	2	20	
Beryllium	49.6	0.53	0.21	mg/kg dry	53.0	ND	94	75-125	3	20	
Boron	57.7	5.3	1.1	mg/kg dry	53.0	2.7	104	75-125	16	20	
Chromium	49.6	1.1	0.32	mg/kg dry	53.0	0.32	93	75-125	1	20	
Cobalt	47.3	1.1	0.32	mg/kg dry	53.0	ND	89	75-125	2	20	
Iron	68.2	5.3	1.6	mg/kg dry	53.0	17	97	75-125	35	20	R-3
Manganese	48.5	1.1	0.85	mg/kg dry	53.0	ND	92	75-125	3	20	
Nickel	48.1	2.1	0.21	mg/kg dry	53.0	0.30	90	75-125	1	20	
Vanadium	49.0	1.1	0.32	mg/kg dry	53.0	ND	92	75-125	1	20	
Zinc	50.0	5.3	1.6	mg/kg dry	53.0	3.3	88	75-125	1	20	

Batch: 5K10117 Extracted: 11/10/05

Blank Analyzed: 11/11/2005 (5K10117-BLK1)

Antimony	ND	1.0	0.030	mg/kg wet							
Cadmium	ND	0.50	0.020	mg/kg wet							
Copper	ND	1.0	0.20	mg/kg wet							
Lead	ND	0.50	0.020	mg/kg wet							
Selenium	ND	1.0	0.20	mg/kg wet							
Silver	ND	0.50	0.020	mg/kg wet							
Thallium	ND	0.50	0.10	mg/kg wet							

LCS Analyzed: 11/11/2005 (5K10117-BS1)

Antimony	50.5	1.0	0.030	mg/kg wet	50.0		101	80-120			
Cadmium	50.7	0.50	0.020	mg/kg wet	50.0		101	80-120			
Copper	53.3	1.0	0.20	mg/kg wet	50.0		107	80-120			
Lead	52.4	0.50	0.020	mg/kg wet	50.0		105	80-120			
Selenium	49.7	1.0	0.20	mg/kg wet	50.0		99	80-120			
Silver	25.7	0.50	0.020	mg/kg wet	25.0		103	80-120			
Thallium	52.4	0.50	0.10	mg/kg wet	50.0		105	80-120			

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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
Batch: 5K10117 Extracted: 11/10/05											
Matrix Spike Analyzed: 11/11/2005 (5K10117-MS1)						Source: IOK0964-10					
Antimony	54.5	1.1	0.032	mg/kg dry	53.0	0.39	102	75-125			
Cadmium	51.7	0.53	0.021	mg/kg dry	53.0	ND	98	75-125			
Copper	55.0	1.1	0.21	mg/kg dry	53.0	0.85	102	75-125			
Lead	53.5	0.53	0.021	mg/kg dry	53.0	0.029	101	75-125			
Selenium	61.7	1.1	0.21	mg/kg dry	53.0	0.21	116	75-125			
Silver	26.0	0.53	0.021	mg/kg dry	26.5	ND	98	75-125			
Thallium	53.7	0.53	0.11	mg/kg dry	53.0	ND	101	75-125			
Matrix Spike Dup Analyzed: 11/11/2005 (5K10117-MSD1)						Source: IOK0964-10					
Antimony	55.3	1.1	0.032	mg/kg dry	53.0	0.39	104	75-125	1	20	
Cadmium	53.1	0.53	0.021	mg/kg dry	53.0	ND	100	75-125	3	20	
Copper	54.7	1.1	0.21	mg/kg dry	53.0	0.85	102	75-125	1	20	
Lead	53.5	0.53	0.021	mg/kg dry	53.0	0.029	101	75-125	0	20	
Selenium	62.5	1.1	0.21	mg/kg dry	53.0	0.21	118	75-125	1	20	
Silver	26.2	0.53	0.021	mg/kg dry	26.5	ND	99	75-125	1	20	
Thallium	53.4	0.53	0.11	mg/kg dry	53.0	ND	101	75-125	1	20	
Batch: 5K11001 Extracted: 11/11/05											
Blank Analyzed: 11/11/2005 (5K11001-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	15.3	20	15	ug/l							J

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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
Batch: 5K11001 Extracted: 11/11/05											
LCS Analyzed: 11/11/2005 (5K11001-BS1)											
Arsenic	478	5.0	4.4	ug/l	500		96	85-115			
Barium	0.460	0.010	0.0060	mg/l	0.500		92	85-115			
Beryllium	477	2.0	0.90	ug/l	500		95	85-115			
Boron	0.449	0.050	0.0080	mg/l	0.500		90	85-115			
Chromium	475	5.0	2.0	ug/l	500		95	85-115			
Cobalt	458	10	2.0	ug/l	500		92	85-115			
Iron	0.485	0.040	0.015	mg/l	0.500		97	85-115			
Manganese	470	20	7.0	ug/l	500		94	85-115			
Nickel	464	10	2.0	ug/l	500		93	85-115			
Vanadium	477	10	3.0	ug/l	500		95	85-115			
Zinc	457	20	15	ug/l	500		91	85-115			

Matrix Spike Analyzed: 11/11/2005 (5K11001-MS1)
Source: IOK0964-05

Arsenic	472	5.0	4.4	ug/l	500	ND	94	70-130			
Barium	0.479	0.010	0.0060	mg/l	0.500	0.024	91	70-130			
Beryllium	474	2.0	0.90	ug/l	500	ND	95	70-130			
Boron	0.871	0.050	0.0080	mg/l	0.500	0.40	94	70-130			
Chromium	467	5.0	2.0	ug/l	500	2.0	93	70-130			
Cobalt	452	10	2.0	ug/l	500	ND	90	70-130			
Iron	0.824	0.040	0.015	mg/l	0.500	0.22	121	70-130			
Manganese	548	20	7.0	ug/l	500	65	97	70-130			
Nickel	449	10	2.0	ug/l	500	ND	90	70-130			
Vanadium	476	10	3.0	ug/l	500	4.1	94	70-130			
Zinc	524	20	15	ug/l	500	48	95	70-130			

Matrix Spike Dup Analyzed: 11/12/2005 (5K11001-MSD1)
Source: IOK0964-05

Arsenic	491	5.0	4.4	ug/l	500	ND	98	70-130	4	20	
Barium	0.506	0.010	0.0060	mg/l	0.500	0.024	96	70-130	5	20	
Beryllium	488	2.0	0.90	ug/l	500	ND	98	70-130	3	20	
Boron	0.924	0.050	0.0080	mg/l	0.500	0.40	105	70-130	6	20	
Chromium	490	5.0	2.0	ug/l	500	2.0	98	70-130	5	20	
Cobalt	475	10	2.0	ug/l	500	ND	95	70-130	5	20	
Iron	0.862	0.040	0.015	mg/l	0.500	0.22	128	70-130	5	20	
Manganese	579	20	7.0	ug/l	500	65	103	70-130	6	20	
Nickel	469	10	2.0	ug/l	500	ND	94	70-130	4	20	
Vanadium	497	10	3.0	ug/l	500	4.1	99	70-130	4	20	

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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
Batch: 5K11001 Extracted: 11/11/05											
Matrix Spike Dup Analyzed: 11/12/2005 (5K11001-MSD1)						Source: IOK0964-05					
Zinc	546	20	15	ug/l	500	48	100	70-130	4	20	
Batch: 5K11002 Extracted: 11/11/05											
Blank Analyzed: 11/11/2005 (5K11002-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: 11/11/2005 (5K11002-BS1)											
Antimony	87.1	2.0	0.050	ug/l	80.0		109	85-115			
Cadmium	87.8	1.0	0.025	ug/l	80.0		110	85-115			
Copper	85.3	2.0	0.25	ug/l	80.0		107	85-115			
Lead	87.9	1.0	0.040	ug/l	80.0		110	85-115			
Selenium	87.9	2.0	0.30	ug/l	80.0		110	85-115			
Silver	87.2	1.0	0.025	ug/l	80.0		109	85-115			
Thallium	87.5	1.0	0.15	ug/l	80.0		109	85-115			
Matrix Spike Analyzed: 11/11/2005 (5K11002-MS1)						Source: IOK0964-05					
Antimony	88.2	2.0	0.050	ug/l	80.0	76	15	70-130			M2
Cadmium	88.7	1.0	0.025	ug/l	80.0	0.13	111	70-130			
Copper	90.1	2.0	0.25	ug/l	80.0	7.1	104	70-130			
Lead	88.4	1.0	0.040	ug/l	80.0	0.67	110	70-130			
Selenium	92.0	2.0	0.30	ug/l	80.0	ND	115	70-130			
Silver	86.0	1.0	0.025	ug/l	80.0	0.039	107	70-130			
Thallium	87.6	1.0	0.15	ug/l	80.0	ND	110	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
Batch: 5K11002 Extracted: 11/11/05											
Matrix Spike Dup Analyzed: 11/11/2005 (5K11002-MSD1)						Source: IOK0964-05					
Antimony	86.9	2.0	0.050	ug/l	80.0	76	14	70-130	1	20	M2
Cadmium	88.7	1.0	0.025	ug/l	80.0	0.13	111	70-130	0	20	
Copper	89.8	2.0	0.25	ug/l	80.0	7.1	103	70-130	0	20	
Lead	87.4	1.0	0.040	ug/l	80.0	0.67	108	70-130	1	20	
Selenium	89.3	2.0	0.30	ug/l	80.0	ND	112	70-130	3	20	
Silver	85.4	1.0	0.025	ug/l	80.0	0.039	107	70-130	1	20	
Thallium	87.9	1.0	0.15	ug/l	80.0	ND	110	70-130	0	20	

Batch: 5K14072 Extracted: 11/14/05

Blank Analyzed: 11/14/2005 (5K14072-BLK1)

Mercury ND 0.20 0.050 ug/l

LCS Analyzed: 11/14/2005 (5K14072-BS1)

Mercury 8.11 0.20 0.050 ug/l 8.00 101 85-115

Matrix Spike Analyzed: 11/14/2005 (5K14072-MS1)

Source: IOK0961-25

Mercury 5.32 0.20 0.050 ug/l 8.00 0.64 58 70-130 M2

Matrix Spike Dup Analyzed: 11/14/2005 (5K14072-MSD1)

Source: IOK0961-25

Mercury 5.93 0.20 0.050 ug/l 8.00 0.64 66 70-130 11 20 M2

Batch: 5K14094 Extracted: 11/14/05

Blank Analyzed: 11/14/2005 (5K14094-BLK1)

Mercury ND 0.020 0.0063 mg/kg wet

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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
Batch: 5K14094 Extracted: 11/14/05											
LCS Analyzed: 11/14/2005 (5K14094-BS1)											
Mercury	0.809	0.020	0.0063	mg/kg wet	0.800		101	85-120			
Matrix Spike Analyzed: 11/14/2005 (5K14094-MS1)											
Mercury	0.244	0.021	0.0067	mg/kg dry	0.847	ND	29	65-135			M2
Matrix Spike Dup Analyzed: 11/14/2005 (5K14094-MSD1)											
Mercury	0.240	0.021	0.0067	mg/kg dry	0.847	ND	28	65-135	2	20	M2

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METHOD BLANK/QC DATA

DISSOLVED METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
Batch: 5K11003 Extracted: 11/11/05											
Blank Analyzed: 11/11/2005 (5K11003-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	0.0375	0.040	0.015	mg/l							J
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: 11/11/2005 (5K11003-BS1)

Arsenic	492	5.0	4.4	ug/l	500		98	85-115			
Barium	0.462	0.010	0.0060	mg/l	0.500		92	85-115			
Beryllium	492	2.0	0.90	ug/l	500		98	85-115			
Boron	0.458	0.050	0.0080	mg/l	0.500		92	85-115			
Chromium	488	5.0	2.0	ug/l	500		98	85-115			
Cobalt	478	10	2.0	ug/l	500		96	85-115			
Iron	0.508	0.040	0.015	mg/l	0.500		102	85-115			
Manganese	490	20	7.0	ug/l	500		98	85-115			
Nickel	476	10	2.0	ug/l	500		95	85-115			
Vanadium	486	10	3.0	ug/l	500		97	85-115			
Zinc	471	20	15	ug/l	500		94	85-115			

LCS Dup Analyzed: 11/11/2005 (5K11003-BSD1)

Arsenic	482	5.0	4.4	ug/l	500		96	85-115	2	20	
Barium	0.459	0.010	0.0060	mg/l	0.500		92	85-115	1	20	
Beryllium	478	2.0	0.90	ug/l	500		96	85-115	3	20	
Boron	0.456	0.050	0.0080	mg/l	0.500		91	85-115	0	20	
Chromium	479	5.0	2.0	ug/l	500		96	85-115	2	20	
Cobalt	473	10	2.0	ug/l	500		95	85-115	1	20	
Iron	0.495	0.040	0.015	mg/l	0.500		99	85-115	3	20	
Manganese	476	20	7.0	ug/l	500		95	85-115	3	20	
Nickel	469	10	2.0	ug/l	500		94	85-115	1	20	
Vanadium	478	10	3.0	ug/l	500		96	85-115	2	20	

Del Mar Analytical, Irvine
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The Boeing Company-SSFL
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Project ID: Hydroseeding Project
 TAS# SSFL-1119
 Report Number: IOK0964

Sampled: 11/09/05
 Received: 11/09/05

METHOD BLANK/QC DATA

DISSOLVED METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 5K11003 Extracted: 11/11/05											
LCS Dup Analyzed: 11/11/2005 (5K11003-BSD1)											
Zinc	463	20	15	ug/l	500		93	85-115	2	20	
Batch: 5K11004 Extracted: 11/11/05											
Blank Analyzed: 11/11/2005 (5K11004-BLK1)											
Antimony	0.139	2.0	0.050	ug/l							J
Cadmium	ND	1.0	0.025	ug/l							
Copper	ND	2.0	0.25	ug/l							
Lead	0.0480	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							
LCS Analyzed: 11/11/2005 (5K11004-BS1)											
Antimony	78.9	2.0	0.050	ug/l	80.0		99	85-115			
Cadmium	79.8	1.0	0.025	ug/l	80.0		100	85-115			
Copper	81.3	2.0	0.25	ug/l	80.0		102	85-115			
Lead	82.3	1.0	0.040	ug/l	80.0		103	85-115			
Selenium	81.9	2.0	0.30	ug/l	80.0		102	85-115			
Silver	81.2	1.0	0.025	ug/l	80.0		102	85-115			
Thallium	81.6	1.0	0.15	ug/l	80.0		102	85-115			
LCS Dup Analyzed: 11/11/2005 (5K11004-BSD1)											
Antimony	77.6	2.0	0.050	ug/l	80.0		97	85-115	2	20	
Cadmium	78.7	1.0	0.025	ug/l	80.0		98	85-115	1	20	
Copper	80.0	2.0	0.25	ug/l	80.0		100	85-115	2	20	
Lead	80.8	1.0	0.040	ug/l	80.0		101	85-115	2	20	
Selenium	80.9	2.0	0.30	ug/l	80.0		101	85-115	1	20	
Silver	80.0	1.0	0.025	ug/l	80.0		100	85-115	1	20	
Thallium	82.7	1.0	0.15	ug/l	80.0		103	85-115	1	20	

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 Report Number: IOK0964

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METHOD BLANK/QC DATA

DISSOLVED METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<u>Batch: 5K14071 Extracted: 11/14/05</u>											
Blank Analyzed: 11/14/2005 (5K14071-BLK1)											
Mercury	ND	0.20	0.050	ug/l							
LCS Analyzed: 11/14/2005 (5K14071-BS1)											
Mercury	8.31	0.20	0.050	ug/l	8.00		104	85-115			
Matrix Spike Analyzed: 11/14/2005 (5K14071-MS1)											
Mercury	7.83	0.20	0.050	ug/l	8.00	ND	98	70-130			
Matrix Spike Dup Analyzed: 11/14/2005 (5K14071-MSD1)											
Mercury	7.79	0.20	0.050	ug/l	8.00	ND	97	70-130	1	20	
<u>Batch: 5K14082 Extracted: 11/14/05</u>											
Blank Analyzed: 11/15/2005 (5K14082-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: 11/15/2005 (5K14082-BS1)											
Antimony	80.5	2.0	0.050	ug/l	80.0		101	85-115			
Cadmium	77.9	1.0	0.025	ug/l	80.0		97	85-115			
Copper	80.0	2.0	0.25	ug/l	80.0		100	85-115			
Lead	81.4	1.0	0.040	ug/l	80.0		102	85-115			
Selenium	80.2	2.0	0.30	ug/l	80.0		100	85-115			
Silver	79.6	1.0	0.025	ug/l	80.0		100	85-115			
Thallium	82.5	1.0	0.15	ug/l	80.0		103	85-115			

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METHOD BLANK/QC DATA

DISSOLVED METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 5K14082 Extracted: 11/14/05											
Matrix Spike Analyzed: 11/15/2005 (5K14082-MS1)						Source: IOK0964-02					
Antimony	80.1	2.0	0.050	ug/l	80.0	4.1	95	70-130			
Cadmium	71.2	1.0	0.025	ug/l	80.0	0.028	89	70-130			
Copper	75.1	2.0	0.25	ug/l	80.0	3.0	90	70-130			
Lead	73.6	1.0	0.040	ug/l	80.0	0.12	92	70-130			
Selenium	82.3	2.0	0.30	ug/l	80.0	0.56	102	70-130			
Silver	71.0	1.0	0.025	ug/l	80.0	ND	89	70-130			
Thallium	74.5	1.0	0.15	ug/l	80.0	ND	93	70-130			
Matrix Spike Dup Analyzed: 11/15/2005 (5K14082-MSD1)						Source: IOK0964-02					
Antimony	76.2	2.0	0.050	ug/l	80.0	4.1	90	70-130	5	20	
Cadmium	67.7	1.0	0.025	ug/l	80.0	0.028	85	70-130	5	20	
Copper	71.0	2.0	0.25	ug/l	80.0	3.0	85	70-130	6	20	
Lead	70.1	1.0	0.040	ug/l	80.0	0.12	87	70-130	5	20	
Selenium	78.4	2.0	0.30	ug/l	80.0	0.56	97	70-130	5	20	
Silver	66.7	1.0	0.025	ug/l	80.0	ND	83	70-130	6	20	
Thallium	71.4	1.0	0.15	ug/l	80.0	ND	89	70-130	4	20	
Batch: 5K14083 Extracted: 11/14/05											
Blank Analyzed: 11/14/2005 (5K14083-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	0.00989	0.050	0.0080	mg/l							J
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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 TAS# SSFL-1119
 Report Number: IOK0964

Sampled: 11/09/05
 Received: 11/09/05

METHOD BLANK/QC DATA

DISSOLVED METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 5K14083 Extracted: 11/14/05											
LCS Analyzed: 11/14/2005 (5K14083-BS1)											
Arsenic	930	5.0	4.4	ug/l	1000		93	85-115			
Barium	0.978	0.010	0.0060	mg/l	1.00		98	85-115			
Beryllium	996	2.0	0.90	ug/l	1000		100	85-115			
Boron	0.961	0.050	0.0080	mg/l	1.00		96	85-115			
Chromium	933	5.0	2.0	ug/l	1000		93	85-115			
Cobalt	995	10	2.0	ug/l	1000		100	85-115			
Iron	0.993	0.040	0.015	mg/l	1.00		99	85-115			
Manganese	988	20	7.0	ug/l	1000		99	85-115			
Nickel	925	10	2.0	ug/l	1000		92	85-115			
Vanadium	1000	10	3.0	ug/l	1000		100	85-115			
Zinc	990	20	15	ug/l	1000		99	85-115			

Matrix Spike Analyzed: 11/14/2005 (5K14083-MS1)

Source: IOK0964-02

Arsenic	920	5.0	4.4	ug/l	1000	ND	92	70-130			
Barium	0.926	0.010	0.0060	mg/l	1.00	ND	93	70-130			
Beryllium	953	2.0	0.90	ug/l	1000	ND	95	70-130			
Boron	0.885	0.050	0.0080	mg/l	1.00	ND	88	70-130			
Chromium	905	5.0	2.0	ug/l	1000	ND	90	70-130			
Cobalt	876	10	2.0	ug/l	1000	ND	88	70-130			
Iron	0.933	0.040	0.015	mg/l	1.00	ND	93	70-130			
Manganese	927	20	7.0	ug/l	1000	ND	93	70-130			
Nickel	880	10	2.0	ug/l	1000	ND	88	70-130			
Vanadium	964	10	3.0	ug/l	1000	ND	96	70-130			
Zinc	953	20	15	ug/l	1000	ND	95	70-130			

Matrix Spike Dup Analyzed: 11/14/2005 (5K14083-MSD1)

Source: IOK0964-02

Arsenic	894	5.0	4.4	ug/l	1000	ND	89	70-130	3	20	
Barium	0.887	0.010	0.0060	mg/l	1.00	ND	89	70-130	4	20	
Beryllium	924	2.0	0.90	ug/l	1000	ND	92	70-130	3	20	
Boron	0.902	0.050	0.0080	mg/l	1.00	ND	90	70-130	2	20	
Chromium	882	5.0	2.0	ug/l	1000	ND	88	70-130	3	20	
Cobalt	892	10	2.0	ug/l	1000	ND	89	70-130	2	20	
Iron	0.899	0.040	0.015	mg/l	1.00	ND	90	70-130	4	20	
Manganese	892	20	7.0	ug/l	1000	ND	89	70-130	4	20	
Nickel	858	10	2.0	ug/l	1000	ND	86	70-130	3	20	
Vanadium	923	10	3.0	ug/l	1000	ND	92	70-130	4	20	

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 Report Number: IOK0964

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METHOD BLANK/QC DATA

DISSOLVED METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 5K14083 Extracted: 11/14/05											
Matrix Spike Dup Analyzed: 11/14/2005 (5K14083-MSD1)						Source: IOK0964-02					
Zinc	915	20	15	ug/l	1000	ND	92	70-130	4	20	

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METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 5K10099 Extracted: 11/10/05											
Blank Analyzed: 11/10/2005 (5K10099-BLK1)											
Percent Solids	ND	0.10	0.10	%							
Duplicate Analyzed: 11/10/2005 (5K10099-DUP1)											
Percent Solids	17.0	0.10	0.10	%		Source: IOK0727-01 18			6	20	

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TAS# SSFL-1119
Report Number: IOK0964

Sampled: 11/09/05
Received: 11/09/05

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.
- M1** The MS and/or MSD were above the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
- M2** The MS and/or MSD were below the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
- R-3** The RPD exceeded the method control limit due to sample matrix effects.
- ND** Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
- RPD** Relative Percent Difference

Del Mar Analytical, Irvine
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Certification Summary

Del Mar Analytical, Irvine

Method	Matrix	Nelac	California
1613A/1613B	Liquid		
1613A/1613B	Solid		
1613A/1613B	Water		
EPA 160.3 MOD	Solid	N/A	N/A
EPA 200.7-Diss	Water	X	X
EPA 200.7	Water	X	X
EPA 200.8-Diss	Water	X	X
EPA 200.8	Water	X	X
EPA 245.1-Diss	Water	X	X
EPA 245.1	Water	X	X
EPA 6010B	Solid	X	X
EPA 6020	Soil	X	X
EPA 7471A	Soil	X	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.

Subcontracted Laboratories

Pace Analytical, MN- SUB

1700 Elm Street, Ste 200 - Minneapolis, MN 55414

Analysis Performed: 1613-Dioxin-HR

Samples: IOK0964-01, IOK0964-02, IOK0964-03, IOK0964-04, IOK0964-05, IOK0964-06, IOK0964-07,
 IOK0964-08, IOK0964-09, IOK0964-10, IOK0964-11, IOK0964-12, IOK0964-13, IOK0964-14,
 IOK0964-15, IOK0964-16, IOK0964-17

Del Mar Analytical, Irvine

Michele Harper
 Project Manager



Method 1613B Blank Analysis Results

Client - Del Mar Analytical

Lab Sample ID	BLANK-8270	Matrix	Water
Filename	F51115A_04	Dilution	NA
Total Amount Extracted	1040 mL	Extracted	11/13/2005
ICAL Date	10/22/2005	Analyzed	11/15/2005 09:04
CCal Filename(s)	F51114B_16	Injected By	MRO

Native Isomers	Conc ug/L	EMPC ug/L	PRL ug/L	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	----	0.0000096	2,3,7,8-TCDF-13C	2.00	66
Total TCDF	ND	----	----	2,3,7,8-TCDD-13C	2.00	70
				1,2,3,7,8-PeCDF-13C	2.00	77
2,3,7,8-TCDD	ND	----	0.0000096	2,3,4,7,8-PeCDF-13C	2.00	76
Total TCDD	ND	----	----	1,2,3,7,8-PeCDD-13C	2.00	85
				1,2,3,4,7,8-HxCDF-13C	2.00	69
1,2,3,7,8-PeCDF	ND	----	0.0000480	1,2,3,6,7,8-HxCDF-13C	2.00	81
2,3,4,7,8-PeCDF	ND	----	0.0000480	2,3,4,6,7,8-HxCDF-13C	2.00	73
Total PeCDF	ND	----	----	1,2,3,7,8,9-HxCDF-13C	2.00	68
				1,2,3,4,7,8-HxCDD-13C	2.00	60
1,2,3,7,8-PeCDD	ND	----	0.0000480	1,2,3,6,7,8-HxCDD-13C	2.00	77
Total PeCDD	ND	----	----	1,2,3,4,6,7,8-HpCDF-13C	2.00	61
				1,2,3,4,7,8,9-HpCDF-13C	2.00	50
1,2,3,4,7,8-HxCDF	ND	----	0.0000480	1,2,3,4,6,7,8-HpCDD-13C	2.00	62
1,2,3,6,7,8-HxCDF	ND	----	0.0000480	OCDD-13C	4.00	43
2,3,4,6,7,8-HxCDF	ND	----	0.0000480			
1,2,3,7,8,9-HxCDF	ND	----	0.0000480	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	----	----	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	----	0.0000480	2,3,7,8-TCDD-37Cl4	0.20	70
1,2,3,6,7,8-HxCDD	ND	----	0.0000480			
1,2,3,7,8,9-HxCDD	ND	----	0.0000480			
Total HxCDD	ND	----	----			
1,2,3,4,6,7,8-HpCDF	ND	----	0.0000480	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	----	0.0000480	Equivalence: 0.00 ug/L		
Total HpCDF	ND	----	----	(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	ND	----	0.0000480			
Total HpCDD	ND	----	----			
OCDF	ND	----	0.0000960			
OCDD	ND	----	0.0000960			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
PRL = Pace Analytical Reporting Limit
A = Limit of Detection based on signal to noise
P = Recovery outside of method 1613 control limits
Nn = Value obtained from additional analysis

I = Interference
E = PCDE Interference
ND = Not Detected
NA = Not Applicable
NC = Not Calculated
J = Value below calibration range
* = See Discussion

Report No.....1023308

REPORT OF LABORATORY ANALYSIS

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Method 1613B Analysis Results

Client - Del Mar Analytical

Client's Sample ID	IOK0964-02		
Lab Sample ID	1023308001		
Filename	F51115A_06		
Injected By	MRO		
Total Amount Extracted	770 mL	Matrix	Water
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	11/09/2005
ICAL Date	10/22/2005	Received	11/12/2005
CCal Filename(s)	F51114B_16	Extracted	11/13/2005
Method Blank ID	BLANK-8270	Analyzed	11/15/2005 10:41

Native Isomers	Conc ug/L	EMPC ug/L	PRL ug/L	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	0.000014	----	0.000013	2,3,7,8-TCDF-13C	2.00	44
Total TCDF	0.000014	----	----	2,3,7,8-TCDD-13C	2.00	45
				1,2,3,7,8-PeCDF-13C	2.00	49
2,3,7,8-TCDD	ND	----	0.000013	2,3,4,7,8-PeCDF-13C	2.00	50
Total TCDD	ND	----	----	1,2,3,7,8-PeCDD-13C	2.00	55
				1,2,3,4,7,8-HxCDF-13C	2.00	45
1,2,3,7,8-PeCDF	ND	----	0.000065	1,2,3,6,7,8-HxCDF-13C	2.00	51
2,3,4,7,8-PeCDF	ND	----	0.000065	2,3,4,6,7,8-HxCDF-13C	2.00	47
Total PeCDF	ND	----	----	1,2,3,7,8,9-HxCDF-13C	2.00	46
				1,2,3,4,7,8-HxCDD-13C	2.00	40
1,2,3,7,8-PeCDD	ND	----	0.000065	1,2,3,6,7,8-HxCDD-13C	2.00	49
Total PeCDD	ND	----	----	1,2,3,4,6,7,8-HpCDF-13C	2.00	40
				1,2,3,4,7,8,9-HpCDF-13C	2.00	32
1,2,3,4,7,8-HxCDF	ND	----	0.000065	1,2,3,4,6,7,8-HpCDD-13C	2.00	42
1,2,3,6,7,8-HxCDF	ND	----	0.000065	OCDD-13C	4.00	29
2,3,4,6,7,8-HxCDF	ND	----	0.000065			
1,2,3,7,8,9-HxCDF	ND	----	0.000065	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	0.000067	----	----	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	----	0.000065	2,3,7,8-TCDD-37Cl4	0.20	80
1,2,3,6,7,8-HxCDD	ND	----	0.000065			
1,2,3,7,8,9-HxCDD	ND	----	0.000065			
Total HxCDD	ND	----	----			
1,2,3,4,6,7,8-HpCDF	0.000073	----	0.000065	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	----	0.000065	Equivalence: 0.000012 ug/L		
Total HpCDF	0.000220	----	----	(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	0.000550	----	0.000065			
Total HpCDD	0.000890	----	----			
OCDF	0.000200	----	0.000130			
OCDD	0.003700	----	0.000130			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
PRL = Pace Analytical Reporting Limit.
A = Limit of Detection based on signal to noise
B = Less than 10 times higher than method blank level
P = Recovery outside of method 1613 control limits
Nn = Value obtained from additional analysis

I = Interference
E = PCDE Interference
ND = Not Detected
NA = Not Applicable
NC = Not Calculated
J = Value below calibration range
* = See Discussion

Report No.....1023308

REPORT OF LABORATORY ANALYSIS

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Method 1613B Analysis Results

Client - Del Mar Analytical

Client's Sample ID	IOK0964-03		
Lab Sample ID	1023308002		
Filename	F51115A_07		
Injected By	MRO		
Total Amount Extracted	898 mL	Matrix	Water
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	11/09/2005
ICAL Date	10/22/2005	Received	11/12/2005
CCal Filename(s)	F51114B_16	Extracted	11/13/2005
Method Blank ID	BLANK-8270	Analyzed	11/15/2005 11:30

Native Isomers	Conc ug/L	EMPC ug/L	PRL ug/L	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	0.000011	2,3,7,8-TCDF-13C	2.00	66
Total TCDF	ND	-----	-----	2,3,7,8-TCDD-13C	2.00	71
				1,2,3,7,8-PeCDF-13C	2.00	74
2,3,7,8-TCDD	ND	-----	0.000011	2,3,4,7,8-PeCDF-13C	2.00	75
Total TCDD	ND	-----	-----	1,2,3,7,8-PeCDD-13C	2.00	86
				1,2,3,4,7,8-HxCDF-13C	2.00	72
1,2,3,7,8-PeCDF	ND	-----	0.000056	1,2,3,6,7,8-HxCDF-13C	2.00	73
2,3,4,7,8-PeCDF	ND	-----	0.000056	2,3,4,6,7,8-HxCDF-13C	2.00	71
Total PeCDF	ND	-----	-----	1,2,3,7,8,9-HxCDF-13C	2.00	70
				1,2,3,4,7,8-HxCDD-13C	2.00	61
1,2,3,7,8-PeCDD	ND	-----	0.000056	1,2,3,6,7,8-HxCDD-13C	2.00	77
Total PeCDD	ND	-----	-----	1,2,3,4,6,7,8-HpCDF-13C	2.00	63
				1,2,3,4,7,8,9-HpCDF-13C	2.00	53
1,2,3,4,7,8-HxCDF	ND	-----	0.000056	1,2,3,4,6,7,8-HpCDD-13C	2.00	64
1,2,3,6,7,8-HxCDF	ND	-----	0.000056	OCDD-13C	4.00	49
2,3,4,6,7,8-HxCDF	ND	-----	0.000056			
1,2,3,7,8,9-HxCDF	ND	-----	0.000056	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	-----	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	0.000056	2,3,7,8-TCDD-37Cl4	0.20	80
1,2,3,6,7,8-HxCDD	ND	-----	0.000056			
1,2,3,7,8,9-HxCDD	ND	-----	0.000056			
Total HxCDD	ND	-----	-----			
1,2,3,4,6,7,8-HpCDF	ND	-----	0.000056	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	0.000056	Equivalence: 0.0000013 ug/L		
Total HpCDF	ND	-----	-----	(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	0.000064	-----	0.000056			
Total HpCDD	0.000064	-----	-----			
OCDF	ND	-----	0.000110			
OCDD	0.000620	-----	0.000110			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
PRL = Pace Analytical Reporting Limit.
A = Limit of Detection based on signal to noise
B = Less than 10 times higher than method blank level
P = Recovery outside of method 1613 control limits
Nn = Value obtained from additional analysis

I = Interference
E = PCDE Interference
ND = Not Detected
NA = Not Applicable
NC = Not Calculated
J = Value below calibration range
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Report No.....1023308

REPORT OF LABORATORY ANALYSIS

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Method 1613B Analysis Results

Client - Del Mar Analytical

Client's Sample ID	IOK0964-04		
Lab Sample ID	1023308003		
Filename	F51115A_08		
Injected By	MRO		
Total Amount Extracted	905 mL	Matrix	Water
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	11/09/2005
ICAL Date	10/22/2005	Received	11/12/2005
CCal Filename(s)	F51114B_16	Extracted	11/13/2005
Method Blank ID	BLANK-8270	Analyzed	11/15/2005 12:19

Native Isomers	Conc ug/L	EMPC ug/L	PRL ug/L	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	----	0.000011	2,3,7,8-TCDF-13C	2.00	56
Total TCDF	ND	----	----	2,3,7,8-TCDD-13C	2.00	62
				1,2,3,7,8-PeCDF-13C	2.00	61
2,3,7,8-TCDD	ND	----	0.000011	2,3,4,7,8-PeCDF-13C	2.00	64
Total TCDD	ND	----	----	1,2,3,7,8-PeCDD-13C	2.00	76
				1,2,3,4,7,8-HxCDF-13C	2.00	61
1,2,3,7,8-PeCDF	ND	----	0.000055	1,2,3,6,7,8-HxCDF-13C	2.00	58
2,3,4,7,8-PeCDF	ND	----	0.000055	2,3,4,6,7,8-HxCDF-13C	2.00	60
Total PeCDF	ND	----	----	1,2,3,7,8,9-HxCDF-13C	2.00	60
				1,2,3,4,7,8-HxCDD-13C	2.00	57
1,2,3,7,8-PeCDD	ND	----	0.000055	1,2,3,6,7,8-HxCDD-13C	2.00	62
Total PeCDD	ND	----	----	1,2,3,4,6,7,8-HpCDF-13C	2.00	54
				1,2,3,4,7,8,9-HpCDF-13C	2.00	43
1,2,3,4,7,8-HxCDF	ND	----	0.000055	1,2,3,4,6,7,8-HpCDD-13C	2.00	55
1,2,3,6,7,8-HxCDF	ND	----	0.000055	OCDD-13C	4.00	42
2,3,4,6,7,8-HxCDF	ND	----	0.000055			
1,2,3,7,8,9-HxCDF	ND	----	0.000055	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	----	----	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	----	0.000055	2,3,7,8-TCDD-37Cl4	0.20	77
1,2,3,6,7,8-HxCDD	ND	----	0.000055			
1,2,3,7,8,9-HxCDD	ND	----	0.000055			
Total HxCDD	ND	----	----			
1,2,3,4,6,7,8-HpCDF	ND	----	0.000055	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	----	0.000055	Equivalence: 0.0000077 ug/L		
Total HpCDF	0.000081	----	----	(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	0.000210	----	0.000055			
Total HpCDD	0.000330	----	----			
OCDF	0.000160	----	0.000110			
OCDD	0.005500	----	0.000110			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
PRL = Pace Analytical Reporting Limit.
A = Limit of Detection based on signal to noise
B = Less than 10 times higher than method blank level
P = Recovery outside of method 1613 control limits
Nn = Value obtained from additional analysis

I = Interference
E = PCDE Interference
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Report No.....1023308

REPORT OF LABORATORY ANALYSIS

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Method 1613B Analysis Results

Client - Del Mar Analytical

Client's Sample ID	IOK0964-05		
Lab Sample ID	1023308004		
Filename	F51115A_09		
Injected By	MRO		
Total Amount Extracted	911 mL	Matrix	Water
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	11/09/2005
ICAL Date	10/22/2005	Received	11/12/2005
CCal Filename(s)	F51114B_16	Extracted	11/13/2005
Method Blank ID	BLANK-8270	Analyzed	11/15/2005 13:08

Native Isomers	Conc ug/L	EMPC ug/L	PRL ug/L	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	----	0.000011	2,3,7,8-TCDF-13C	2.00	79
Total TCDF	ND	----	----	2,3,7,8-TCDD-13C	2.00	85
				1,2,3,7,8-PeCDF-13C	2.00	85
2,3,7,8-TCDD	ND	----	0.000011	2,3,4,7,8-PeCDF-13C	2.00	88
Total TCDD	ND	----	----	1,2,3,7,8-PeCDD-13C	2.00	98
				1,2,3,4,7,8-HxCDF-13C	2.00	93
1,2,3,7,8-PeCDF	ND	----	0.000055	1,2,3,6,7,8-HxCDF-13C	2.00	81
2,3,4,7,8-PeCDF	ND	----	0.000055	2,3,4,6,7,8-HxCDF-13C	2.00	84
Total PeCDF	ND	----	----	1,2,3,7,8,9-HxCDF-13C	2.00	82
				1,2,3,4,7,8-HxCDD-13C	2.00	77
1,2,3,7,8-PeCDD	ND	----	0.000055	1,2,3,6,7,8-HxCDD-13C	2.00	87
Total PeCDD	ND	----	----	1,2,3,4,6,7,8-HpCDF-13C	2.00	68
				1,2,3,4,7,8,9-HpCDF-13C	2.00	55
1,2,3,4,7,8-HxCDF	ND	----	0.000055	1,2,3,4,6,7,8-HpCDD-13C	2.00	70
1,2,3,6,7,8-HxCDF	ND	----	0.000055	OCDD-13C	4.00	50
2,3,4,6,7,8-HxCDF	ND	----	0.000055			
1,2,3,7,8,9-HxCDF	ND	----	0.000055	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	----	----	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	----	0.000055	2,3,7,8-TCDD-37Cl4	0.20	85
1,2,3,6,7,8-HxCDD	ND	----	0.000055			
1,2,3,7,8,9-HxCDD	ND	----	0.000055			
Total HxCDD	ND	----	----			
1,2,3,4,6,7,8-HpCDF	ND	----	0.000055	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	----	0.000055	Equivalence: 0.000012 ug/L		
Total HpCDF	ND	----	----	(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	ND	----	0.000055			
Total HpCDD	ND	----	----			
OCDF	0.00027	----	0.000110			
OCDD	0.00095	----	0.000110			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
PRL = Pace Analytical Reporting Limit.
A = Limit of Detection based on signal to noise
B = Less than 10 times higher than method blank level
P = Recovery outside of method 1613 control limits
Nn = Value obtained from additional analysis

I = Interference
E = PCDE Interference
ND = Not Detected
NA = Not Applicable
NC = Not Calculated
J = Value below calibration range
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Report No.....1023308

REPORT OF LABORATORY ANALYSIS

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Method 1613B Analysis Results

Client - Del Mar Analytical

Client's Sample ID	IOK0964-06	Matrix	Water
Lab Sample ID	1023308005	Dilution	NA
Filename	F51115A_10	Collected	11/09/2005
Injected By	MRO	Received	11/12/2005
Total Amount Extracted	901 mL	Extracted	11/13/2005
% Moisture	NA	Analyzed	11/15/2005 13:57
Dry Weight Extracted	NA		
ICAL Date	10/22/2005		
CCal Filename(s)	F51114B_16		
Method Blank ID	BLANK-8270		

Native Isomers	Conc ug/L	EMPC ug/L	PRL ug/L	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	0.000011	2,3,7,8-TCDF-13C	2.00	81
Total TCDF	ND	-----	-----	2,3,7,8-TCDD-13C	2.00	87
				1,2,3,7,8-PeCDF-13C	2.00	89
2,3,7,8-TCDD	ND	-----	0.000011	2,3,4,7,8-PeCDF-13C	2.00	93
Total TCDD	ND	-----	-----	1,2,3,7,8-PeCDD-13C	2.00	105
				1,2,3,4,7,8-HxCDF-13C	2.00	90
1,2,3,7,8-PeCDF	ND	-----	0.000056	1,2,3,6,7,8-HxCDF-13C	2.00	91
2,3,4,7,8-PeCDF	ND	-----	0.000056	2,3,4,6,7,8-HxCDF-13C	2.00	89
Total PeCDF	ND	-----	-----	1,2,3,7,8,9-HxCDF-13C	2.00	87
				1,2,3,4,7,8-HxCDD-13C	2.00	82
1,2,3,7,8-PeCDD	ND	-----	0.000056	1,2,3,6,7,8-HxCDD-13C	2.00	90
Total PeCDD	ND	-----	-----	1,2,3,4,6,7,8-HpCDF-13C	2.00	74
				1,2,3,4,7,8,9-HpCDF-13C	2.00	63
1,2,3,4,7,8-HxCDF	ND	-----	0.000056	1,2,3,4,6,7,8-HpCDD-13C	2.00	75
1,2,3,6,7,8-HxCDF	ND	-----	0.000056	OCDD-13C	4.00	60
2,3,4,6,7,8-HxCDF	ND	-----	0.000056			
1,2,3,7,8,9-HxCDF	ND	-----	0.000056	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	-----	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	0.000056	2,3,7,8-TCDD-37Cl4	0.20	90
1,2,3,6,7,8-HxCDD	ND	-----	0.000056			
1,2,3,7,8,9-HxCDD	ND	-----	0.000056			
Total HxCDD	ND	-----	-----			
1,2,3,4,6,7,8-HpCDF	ND	-----	0.000056	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	0.000056	Equivalence: 0.0000021 ug/L		
Total HpCDF	ND	-----	-----	(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	ND	-----	0.000056			
Total HpCDD	ND	-----	-----			
OCDF	0.00055	-----	0.000110			
OCDD	0.00150	-----	0.000110			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
 EMPC = Estimated Maximum Possible Concentration
 PRL = Pace Analytical Reporting Limit.
 A = Limit of Detection based on signal to noise
 B = Less than 10 times higher than method blank level
 P = Recovery outside of method 1613 control limits
 Nn = Value obtained from additional analysis

I = Interference
 E = PCDE Interference
 ND = Not Detected
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 J = Value below calibration range
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Report No.....1023308

REPORT OF LABORATORY ANALYSIS

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Method 1613B Analysis Results

Client - Del Mar Analytical

Client's Sample ID	IOK0964-07		
Lab Sample ID	1023308006		
Filename	F51115A_11		
Injected By	MRO		
Total Amount Extracted	970 mL	Matrix	Water
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	11/09/2005
ICAL Date	10/22/2005	Received	11/12/2005
CCal Filename(s)	F51114B_16	Extracted	11/13/2005
Method Blank ID	BLANK-8270	Analyzed	11/15/2005 14:46

Native Isomers	Conc ug/L	EMPC ug/L	PRL ug/L	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	0.000010	2,3,7,8-TCDF-13C	2.00	64
Total TCDF	ND	-----	-----	2,3,7,8-TCDD-13C	2.00	67
				1,2,3,7,8-PeCDF-13C	2.00	71
2,3,7,8-TCDD	ND	-----	0.000010	2,3,4,7,8-PeCDF-13C	2.00	72
Total TCDD	ND	-----	-----	1,2,3,7,8-PeCDD-13C	2.00	85
				1,2,3,4,7,8-HxCDF-13C	2.00	72
1,2,3,7,8-PeCDF	ND	-----	0.000052	1,2,3,6,7,8-HxCDF-13C	2.00	71
2,3,4,7,8-PeCDF	ND	-----	0.000052	2,3,4,6,7,8-HxCDF-13C	2.00	70
Total PeCDF	ND	-----	-----	1,2,3,7,8,9-HxCDF-13C	2.00	68
				1,2,3,4,7,8-HxCDD-13C	2.00	63
1,2,3,7,8-PeCDD	ND	-----	0.000052	1,2,3,6,7,8-HxCDD-13C	2.00	70
Total PeCDD	ND	-----	-----	1,2,3,4,6,7,8-HpCDF-13C	2.00	59
				1,2,3,4,7,8,9-HpCDF-13C	2.00	51
1,2,3,4,7,8-HxCDF	ND	-----	0.000052	1,2,3,4,6,7,8-HpCDD-13C	2.00	61
1,2,3,6,7,8-HxCDF	ND	-----	0.000052	OCDD-13C	4.00	46
2,3,4,6,7,8-HxCDF	ND	-----	0.000052			
1,2,3,7,8,9-HxCDF	ND	-----	0.000052	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	-----	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	0.000052	2,3,7,8-TCDD-37Cl4	0.20	76
1,2,3,6,7,8-HxCDD	ND	-----	0.000052			
1,2,3,7,8,9-HxCDD	ND	-----	0.000052			
Total HxCDD	ND	-----	-----			
1,2,3,4,6,7,8-HpCDF	ND	-----	0.000052	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	0.000052	Equivalence: 0.0000033 ug/L		
Total HpCDF	ND	-----	-----	(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	0.00019	-----	0.000052			
Total HpCDD	0.00031	-----	-----			
OCDF	ND	-----	0.000100			
OCDD	0.00140	-----	0.000100			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
PRL = Pace Analytical Reporting Limit.
A = Limit of Detection based on signal to noise
B = Less than 10 times higher than method blank level
P = Recovery outside of method 1613 control limits
Nn = Value obtained from additional analysis

I = Interference
E = PCDE Interference
ND = Not Detected
NA = Not Applicable
NC = Not Calculated
J = Value below calibration range
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Report No.....1023308

REPORT OF LABORATORY ANALYSIS

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Method 1613B Analysis Results

Client - Del Mar Analytical

Client's Sample ID	IOK0964-08		
Lab Sample ID	1023308007		
Filename	F51115A_12		
Injected By	MRO		
Total Amount Extracted	898 mL	Matrix	Water
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	11/09/2005
ICAL Date	10/22/2005	Received	11/12/2005
CCal Filename(s)	F51114B_16	Extracted	11/13/2005
Method Blank ID	BLANK-8270	Analyzed	11/15/2005 15:33

Native Isomers	Conc ug/L	EMPC ug/L	PRL ug/L	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	0.000011	2,3,7,8-TCDF-13C	2.00	51
Total TCDF	ND	-----	-----	2,3,7,8-TCDD-13C	2.00	57
				1,2,3,7,8-PeCDF-13C	2.00	57
2,3,7,8-TCDD	ND	-----	0.000011	2,3,4,7,8-PeCDF-13C	2.00	58
Total TCDD	ND	-----	-----	1,2,3,7,8-PeCDD-13C	2.00	67
				1,2,3,4,7,8-HxCDF-13C	2.00	57
1,2,3,7,8-PeCDF	ND	-----	0.000056	1,2,3,6,7,8-HxCDF-13C	2.00	61
2,3,4,7,8-PeCDF	ND	-----	0.000056	2,3,4,6,7,8-HxCDF-13C	2.00	55
Total PeCDF	ND	-----	-----	1,2,3,7,8,9-HxCDF-13C	2.00	53
				1,2,3,4,7,8-HxCDD-13C	2.00	49
1,2,3,7,8-PeCDD	ND	-----	0.000056	1,2,3,6,7,8-HxCDD-13C	2.00	58
Total PeCDD	ND	-----	-----	1,2,3,4,6,7,8-HpCDF-13C	2.00	45
				1,2,3,4,7,8,9-HpCDF-13C	2.00	36
1,2,3,4,7,8-HxCDF	ND	-----	0.000056	1,2,3,4,6,7,8-HpCDD-13C	2.00	45
1,2,3,6,7,8-HxCDF	ND	-----	0.000056	OCDD-13C	4.00	30
2,3,4,6,7,8-HxCDF	ND	-----	0.000056			
1,2,3,7,8,9-HxCDF	ND	-----	0.000056	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	-----	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	0.000056	2,3,7,8-TCDD-37Cl4	0.20	75
1,2,3,6,7,8-HxCDD	ND	-----	0.000056			
1,2,3,7,8,9-HxCDD	ND	-----	0.000056			
Total HxCDD	ND	-----	-----			
1,2,3,4,6,7,8-HpCDF	ND	-----	0.000056	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	0.000056	Equivalence: 0.00000027 ug/L		
Total HpCDF	ND	-----	-----	(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	ND	-----	0.000056			
Total HpCDD	ND	-----	-----			
OCDF	ND	-----	0.000110			
OCDD	0.00027	-----	0.000110			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
PRL = Pace Analytical Reporting Limit.
A = Limit of Detection based on signal to noise
B = Less than 10 times higher than method blank level
P = Recovery outside of method 1613 control limits
Nn = Value obtained from additional analysis

I = Interference
E = PCDE Interference
ND = Not Detected
NA = Not Applicable
NC = Not Calculated
J = Value below calibration range
* = See Discussion

Report No.....1023308

REPORT OF LABORATORY ANALYSIS

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Method 1613B Analysis Results

Client - Del Mar Analytical

Client's Sample ID	IOK0964-09		
Lab Sample ID	1023308008		
Filename	F51115A_13		
Injected By	MRO		
Total Amount Extracted	921 mL	Matrix	Water
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	11/09/2005
ICAL Date	10/22/2005	Received	11/12/2005
CCal Filename(s)	F51114B_16	Extracted	11/13/2005
Method Blank ID	BLANK-8270	Analyzed	11/15/2005 16:21

Native Isomers	Conc ug/L	EMPC ug/L	PRL ug/L	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	----	0.000011	2,3,7,8-TCDF-13C	2.00	58
Total TCDF	ND	----	----	2,3,7,8-TCDD-13C	2.00	62
				1,2,3,7,8-PeCDF-13C	2.00	66
2,3,7,8-TCDD	ND	----	0.000011	2,3,4,7,8-PeCDF-13C	2.00	65
Total TCDD	ND	----	----	1,2,3,7,8-PeCDD-13C	2.00	77
				1,2,3,4,7,8-HxCDF-13C	2.00	63
1,2,3,7,8-PeCDF	ND	----	0.000054	1,2,3,6,7,8-HxCDF-13C	2.00	66
2,3,4,7,8-PeCDF	ND	----	0.000054	2,3,4,6,7,8-HxCDF-13C	2.00	61
Total PeCDF	ND	----	----	1,2,3,7,8,9-HxCDF-13C	2.00	60
				1,2,3,4,7,8-HxCDD-13C	2.00	54
1,2,3,7,8-PeCDD	ND	----	0.000054	1,2,3,6,7,8-HxCDD-13C	2.00	63
Total PeCDD	ND	----	----	1,2,3,4,6,7,8-HpCDF-13C	2.00	51
				1,2,3,4,7,8,9-HpCDF-13C	2.00	42
1,2,3,4,7,8-HxCDF	ND	----	0.000054	1,2,3,4,6,7,8-HpCDD-13C	2.00	51
1,2,3,6,7,8-HxCDF	ND	----	0.000054	OCDD-13C	4.00	36
2,3,4,6,7,8-HxCDF	ND	----	0.000054			
1,2,3,7,8,9-HxCDF	ND	----	0.000054	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	----	----	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	----	0.000054	2,3,7,8-TCDD-37Cl4	0.20	71
1,2,3,6,7,8-HxCDD	ND	----	0.000054			
1,2,3,7,8,9-HxCDD	ND	----	0.000054			
Total HxCDD	ND	----	----			
1,2,3,4,6,7,8-HpCDF	ND	----	0.000054	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	----	0.000054	Equivalence: 0.0000018 ug/L		
Total HpCDF	ND	----	----	(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	ND	----	0.000054			
Total HpCDD	ND	----	----			
OCDF	0.00052	----	0.000110			
OCDD	0.00130	----	0.000110			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
PRL = Pace Analytical Reporting Limit.
A = Limit of Detection based on signal to noise
B = Less than 10 times higher than method blank level
P = Recovery outside of method 1613 control limits
Nn = Value obtained from additional analysis

I = Interference
E = PCDE Interference
ND = Not Detected
NA = Not Applicable
NC = Not Calculated
J = Value below calibration range
* = See Discussion

Report No.....1023308

REPORT OF LABORATORY ANALYSIS

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Method 1613B Laboratory Control Spike Results

Client - Del Mar Analytical

Lab Sample ID	LCS-8271	Matrix	Water
Filename	F51115A_01	Dilution	NA
Total Amount Extracted	1020 mL	Extracted	11/13/2005
ICAL Date	10/22/2005	Analyzed	11/15/2005 06:37
CCal Filename	F51114B_16	Injected By	MRO
Method Blank ID	BLANK-8270		

Compound	Cs	Cr	Lower Limit	Upper Limit	% Rec.
2,3,7,8-TCDF	10	10.0	7.5	15.8	100
2,3,7,8-TCDD	10	9.7	6.7	15.8	97
1,2,3,7,8-PeCDF	50	50.6	40.0	67.0	101
2,3,4,7,8-PeCDF	50	48.3	34.0	80.0	97
1,2,3,7,8-PeCDD	50	43.9	35.0	71.0	88
1,2,3,4,7,8-HxCDF	50	44.8	36.0	67.0	90
1,2,3,6,7,8-HxCDF	50	49.9	42.0	65.0	100
2,3,4,6,7,8-HxCDF	50	49.6	35.0	78.0	99
1,2,3,7,8,9-HxCDF	50	48.2	39.0	65.0	96
1,2,3,4,7,8-HxCDD	50	50.9	35.0	82.0	102
1,2,3,6,7,8-HxCDD	50	52.6	38.0	67.0	105
1,2,3,7,8,9-HxCDD	50	51.8	32.0	81.0	104
1,2,3,4,6,7,8-HpCDF	50	50.5	41.0	61.0	101
1,2,3,4,7,8,9-HpCDF	50	52.1	39.0	69.0	104
1,2,3,4,6,7,8-HpCDD	50	45.8	35.0	70.0	92
OCDF	100	93.8	63.0	170.0	94
OCDD	100	94.6	78.0	144.0	95
2,3,7,8-TCDD-37Cl4	10	7.2	3.1	19.1	72
2,3,7,8-TCDF-13C	100	62.5	22.0	152.0	62
2,3,7,8-TCDD-13C	100	66.7	20.0	175.0	67
1,2,3,7,8-PeCDF-13C	100	73.7	21.0	192.0	74
2,3,4,7,8-PeCDF-13C	100	72.6	13.0	328.0	73
1,2,3,7,8-PeCDD-13C	100	82.4	21.0	227.0	82
1,2,3,4,7,8-HxCDF-13C	100	66.2	19.0	202.0	66
1,2,3,6,7,8-HxCDF-13C	100	74.6	21.0	159.0	75
2,3,4,6,7,8-HxCDF-13C	100	69.3	22.0	176.0	69
1,2,3,7,8,9-HxCDF-13C	100	66.9	17.0	205.0	67
1,2,3,4,7,8-HxCDD-13C	100	56.9	21.0	193.0	57
1,2,3,6,7,8-HxCDD-13C	100	73.2	25.0	163.0	73
1,2,3,4,6,7,8-HpCDF-13C	100	61.6	21.0	158.0	62
1,2,3,4,7,8,9-HpCDF-13C	100	52.6	20.0	186.0	53
1,2,3,4,6,7,8-HpCDD-13C	100	62.4	26.0	166.0	62
OCDD-13C	200	99.8	26.0	397.0	50

Cs = Concentration Spiked (ng/mL)
Cr = Concentration Recovered (ng/mL)
Rec. = Recovery (Expressed as Percent)
Control Limit Reference: Method 1613, Table 6, 10/94 Revision
X = Background subtracted value
P = Recovery outside of control limits
Nn = Value obtained from additional analysis
* = See Discussion

Report No.....1023308

REPORT OF LABORATORY ANALYSIS

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Method 1613B Laboratory Control Spike Results

Client - Del Mar Analytical

Lab Sample ID	LCSD-8272	Matrix	Water
Filename	F51115A_02	Dilution	NA
Total Amount Extracted	1020 mL	Extracted	11/13/2005
ICAL Date	10/22/2005	Analyzed	11/15/2005 07:26
CCal Filename	F51114B_16	Injected By	MRO
Method Blank ID	BLANK-8270		

Compound	Cs	Cr	Lower Limit	Upper Limit	% Rec.
2,3,7,8-TCDF	10	10.3	7.5	15.8	103
2,3,7,8-TCDD	10	9.9	6.7	15.8	99
1,2,3,7,8-PeCDF	50	54.2	40.0	67.0	108
2,3,4,7,8-PeCDF	50	51.2	34.0	80.0	102
1,2,3,7,8-PeCDD	50	45.5	35.0	71.0	91
1,2,3,4,7,8-HxCDF	50	49.7	36.0	67.0	99
1,2,3,6,7,8-HxCDF	50	49.9	42.0	65.0	100
2,3,4,6,7,8-HxCDF	50	51.1	35.0	78.0	102
1,2,3,7,8,9-HxCDF	50	48.8	39.0	65.0	98
1,2,3,4,7,8-HxCDD	50	53.0	35.0	82.0	106
1,2,3,6,7,8-HxCDD	50	54.4	38.0	67.0	109
1,2,3,7,8,9-HxCDD	50	51.7	32.0	81.0	103
1,2,3,4,6,7,8-HpCDF	50	52.7	41.0	61.0	105
1,2,3,4,7,8,9-HpCDF	50	53.5	39.0	69.0	107
1,2,3,4,6,7,8-HpCDD	50	47.2	35.0	70.0	94
OCDF	100	95.2	63.0	170.0	95
OCDD	100	96.5	78.0	144.0	96
2,3,7,8-TCDD-37Cl4	10	8.1	3.1	19.1	81
2,3,7,8-TCDF-13C	100	66.4	22.0	152.0	66
2,3,7,8-TCDD-13C	100	71.1	20.0	175.0	71
1,2,3,7,8-PeCDF-13C	100	75.6	21.0	192.0	76
2,3,4,7,8-PeCDF-13C	100	76.6	13.0	328.0	77
1,2,3,7,8-PeCDD-13C	100	88.1	21.0	227.0	88
1,2,3,4,7,8-HxCDF-13C	100	71.1	19.0	202.0	71
1,2,3,6,7,8-HxCDF-13C	100	82.1	21.0	159.0	82
2,3,4,6,7,8-HxCDF-13C	100	74.4	22.0	176.0	74
1,2,3,7,8,9-HxCDF-13C	100	71.9	17.0	205.0	72
1,2,3,4,7,8-HxCDD-13C	100	61.7	21.0	193.0	62
1,2,3,6,7,8-HxCDD-13C	100	79.7	25.0	163.0	80
1,2,3,4,6,7,8-HpCDF-13C	100	66.2	21.0	158.0	66
1,2,3,4,7,8,9-HpCDF-13C	100	55.6	20.0	186.0	56
1,2,3,4,6,7,8-HpCDD-13C	100	67.4	26.0	166.0	67
OCDD-13C	200	101.3	26.0	397.0	51

Cs = Concentration Spiked (ng/mL)
Cr = Concentration Recovered (ng/mL)
Rec. = Recovery (Expressed as Percent)
Control Limit Reference: Method 1613, Table 6, 10/94 Revision
X = Background subtracted value
P = Recovery outside of control limits
Nn = Value obtained from additional analysis
* = See Discussion

Report No.....1023308

REPORT OF LABORATORY ANALYSIS

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SPIKE RECOVERY RELATIVE PERCENT DIFFERENCE (RPD) RESULTS

Client..... Del Mar Analytical

SPIKE 1 ID..... LCS-8271
SPIKE 1 Filename..... F51115A_01
SPIKE 2 ID..... LCSD-8272
SPIKE 2 Filename..... F51115A_02

COMPOUND	SPIKE 1 REC, %	SPIKE 2 REC, %	RPD, %
2378-TCDF	100	103	3.0
2378-TCDD	97	99	2.0
12378-PeCDF	101	108	6.7
23478-PeCDF	97	102	5.0
12378-PeCDD	88	91	3.4
123478-HxCDF	90	99	9.5
123678-HxCDF	100	100	0.0
234678-HxCDF	99	102	3.0
123789-HxCDF	96	98	2.1
123478-HxCDD	102	106	3.8
123678-HxCDD	105	109	3.7
123789-HxCDD	104	103	1.0
1234678-HpCDF	101	105	3.9
1234789-HpCDF	104	107	2.8
1234678-HpCDD	92	94	2.2
OCDF	94	95	1.1
OCDD	95	96	1.0

REC = Percent Recovered

RPD = The difference between the two values divided by the average.

NA = Not Applicable

Report No..... 1023308

REPORT OF LABORATORY ANALYSIS

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 2520 E. Sunset Rd., Suite #3, Las Vegas, NV 89120 Ph (702) 788-3820 Fax (702) 788-3821

SUBCONTRACT ORDER - PROJECT # IOK0964

1023278

SENDING LABORATORY:
 Del Mar Analytical, Irvine
 17461 Darian Avenue, Suite 100
 Irvine, CA 92614
 Phone: (949) 261-1022
 Fax: (949) 261-1228
 Project Manager: Michele Harper

RECEIVING LABORATORY:
 Pace Analytical, MN- SUB
 1700 Elm Street, Ste 200
 Minneapolis, MN 55414
 Phone: (612) 607-1700
 Fax: (612) 607-6444

Standard TAT is requested unless specific due date is requested => Due Date: PUSH Initials: MH

Analysis	Expiration	Comments
Sample ID: IOK0964-01 Water 1613-Dioxin-HR	Sampled: 11/09/05 15:00 11/16/05 15:00	**Limited sample volume sub to Pace, 17 congeners, Access EDD
Sample ID: IOK0964-02 Water	Sampled: 11/09/05 15:00 11/16/05 15:00	Limited Sample Volume sub to Pace, 17 congeners, Access EDD
Sample ID: IOK0964-03 Water	Sampled: 11/09/05 15:00 11/16/05 15:00	Limited Sample Volume sub to Pace, 17 congeners, Access EDD
Sample ID: IOK0964-04 Water	Sampled: 11/09/05 15:00 11/16/05 15:00	Limited Sample Volume sub to Pace, 17 congeners, Access EDD
Sample ID: IOK0964-05 Water	Sampled: 11/09/05 15:00 11/16/05 15:00	Limited Sample Volume sub to Pace, 17 congeners, Access EDD
Sample ID: IOK0964-06 Water	Sampled: 11/09/05 15:00 11/16/05 15:00	Limited Sample Volume sub to Pace, 17 congeners, Access EDD
Sample ID: IOK0964-07 Water	Sampled: 11/09/05 15:00 11/16/05 15:00	Limited Sample Volume sub to Pace, 17 congeners, Access EDD
Sample ID: IOK0964-08 Water	Sampled: 11/09/05 15:00 11/16/05 15:00	Limited Sample Volume sub to Pace, 17 congeners, Access EDD
Sample ID: IOK0964-09 Water	Sampled: 11/09/05 15:00 11/16/05 15:00	Limited Sample Volume sub to Pace, 17 congeners, Access EDD
Sample ID: IOK0964-10 Solid	Sampled: 11/09/05 15:00 11/16/05 15:00	Limited Sample Volume sub to Pace, 17 congeners, Access EDD
Sample ID: IOK0964-11 Solid	Sampled: 11/09/05 15:00 11/16/05 15:00	Limited Sample Volume sub to Pace, 17 congeners, Access EDD
Sample ID: IOK0964-12 Solid	Sampled: 11/09/05 15:00 11/16/05 15:00	Limited Sample Volume sub to Pace, 17 congeners, Access EDD
Sample ID: IOK0964-13 Solid	Sampled: 11/09/05 15:00 11/16/05 15:00	Limited Sample Volume sub to Pace, 17 congeners, Access EDD
Sample ID: IOK0964-14 Solid	Sampled: 11/09/05 15:00 11/16/05 15:00	Limited Sample Volume sub to Pace, 17 congeners, Access EDD

1 week TAT, due 11/16/05
 001
 *sending water for delivery 11/23/05
 MH 11/16/05
 due 11/23

Released By: V. Bomb 11-10-05 Date Time Received By: Richardson 11/11/05 8:55 Date Time

Released By: _____ Date Time Received By: _____ Date Time



17461 Derian Ave. Suite 100, Irvine, CA 92614 Ph: (949) 261-1022 Fax: (949) 261-1228
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 2620 E. Sunset Pl., Suite #3, Las Vegas, NV 89120 Ph: (702) 798-3820 Fax: (702) 798-3821

SUBCONTRACT ORDER - PROJECT # IOK0964

SENDING LABORATORY:	RECEIVING LABORATORY:
Del Mar Analytical, Irvine 17461 Derian Avenue, Suite 100 Irvine, CA 92614 Phone: (949) 261-1022 Fax: (949) 261-1228 Project Manager: Michele Harper	Pace Analytical, MN- SUB 1700 Elm Street, Ste 200 Minneapolis, MN 55414 Phone: (612) 607-1700 Fax: (612) 607-6444

Standard TAT is requested unless specific due date is requested => Due Date: RUSH Initials: MH

Analysis	Expiration	Comments	
Sample ID: IOK0964-15 Solid 1613-Dioxin-HR	11/16/05 15:00	Limited Sample Volume sub to Pace, 17 congeners, Access EDD	due 11/23:
Sample ID: IOK0964-16 Solid 1613-Dioxin-HR	11/16/05 15:00	Limited Sample Volume sub to Pace, 17 congeners, Access EDD	↓
Sample ID: IOK0964-17 Solid 1613-Dioxin-HR	11/16/05 15:00	Limited Sample Volume sub to Pace, 17 congeners, Access EDD	↓

SAMPLE INTEGRITY:					
All containers intact:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Sample labels/COC agree:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Custody Seals Present:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Samples Preserved Properly:	<input type="checkbox"/> Yes	<input type="checkbox"/> No
				Samples Received On Ice::	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
				Samples Received at (temp):	<u>18</u>

Released By: Vin Bank Date: 11-10-05 Time: _____ Received By: J Richardson Date: 11/11/05 Time: 8:55

Released By: _____ Date: _____ Time: _____ Received By: _____ Date: _____ Time: _____



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 9830 South 51st Street, Suite B-120, Phoenix, AZ 85044 Ph: (480) 785-0043 Fax: (480) 785-0851
 2520 E. Sunset Rd., Suite #3, Las Vegas, NV 89120 Ph: (702) 798-3620 Fax: (702) 798-3621

SUBCONTRACT ORDER - PROJECT # IOK0964 1023280

SENDING LABORATORY:
 Del Mar Analytical, Irvine
 17461 Derian Avenue, Suite 100
 Irvine, CA 92614
 Phone: (949) 261-1022
 Fax: (949) 261-1228
 Project Manager: Michele Harper

RECEIVING LABORATORY:
 Pace Analytical, MN- SUB
 1700 Elm Street, Ste 200
 Minneapolis, MN 55414
 Phone: (612) 607-1700
 Fax: (612) 607-6444

Standard TAT is requested unless specific due date is requested => Due Date: PUSH Initials: MH

Analysis	Expiration	Comments
Sample ID: IOK0964-01 Liquid 1613-Dioxin-HR	Sampled: 11/09/05 15:00 11/16/05 15:00	**Limited sample volume sub to Pace, 17 congeners, Access EDD
Sample ID: IOK0964-02 Water 1613-Dioxin-HR	Sampled: 11/09/05 15:00 11/16/05 15:00	Limited Sample Volume sub to Pace, 17 congeners, Access EDD
Sample ID: IOK0964-03 Water 1613-Dioxin-HR	Sampled: 11/09/05 15:00 11/16/05 15:00	Limited Sample Volume sub to Pace, 17 congeners, Access EDD
Sample ID: IOK0964-04 Water 1613-Dioxin-HR	Sampled: 11/09/05 15:00 11/16/05 15:00	Limited Sample Volume sub to Pace, 17 congeners, Access EDD
Sample ID: IOK0964-05 Water 1613-Dioxin-HR	Sampled: 11/09/05 15:00 11/16/05 15:00	Limited Sample Volume sub to Pace, 17 congeners, Access EDD
Sample ID: IOK0964-06 Water 1613-Dioxin-HR	Sampled: 11/09/05 15:00 11/16/05 15:00	Limited Sample Volume sub to Pace, 17 congeners, Access EDD
Sample ID: IOK0964-07 Water 1613-Dioxin-HR	Sampled: 11/09/05 15:00 11/16/05 15:00	Limited Sample Volume sub to Pace, 17 congeners, Access EDD
Sample ID: IOK0964-08 Water 1613-Dioxin-HR	Sampled: 11/09/05 15:00 11/16/05 15:00	Limited Sample Volume sub to Pace, 17 congeners, Access EDD
Sample ID: IOK0964-09 Water 1613-Dioxin-HR	Sampled: 11/09/05 15:00 11/16/05 15:00	Limited Sample Volume sub to Pace, 17 congeners, Access EDD
Sample ID: IOK0964-10 Solid 1613-Dioxin-HR	Sampled: 11/09/05 15:00 11/16/05 15:00	Limited Sample Volume sub to Pace, 17 congeners, Access EDD
Sample ID: IOK0964-11 Solid 1613-Dioxin-HR	Sampled: 11/09/05 15:00 11/16/05 15:00	Limited Sample Volume sub to Pace, 17 congeners, Access EDD
Sample ID: IOK0964-12 Solid 1613-Dioxin-HR	Sampled: 11/09/05 15:00 11/16/05 15:00	Limited Sample Volume sub to Pace, 17 congeners, Access EDD
Sample ID: IOK0964-13 Solid 1613-Dioxin-HR	Sampled: 11/09/05 15:00 11/16/05 15:00	Limited Sample Volume sub to Pace, 17 congeners, Access EDD
Sample ID: IOK0964-14 Solid 1613-Dioxin-HR	Sampled: 11/09/05 15:00 11/16/05 15:00	Limited Sample Volume sub to Pace, 17 congeners, Access EDD

1 week TAT, due 11/18
**sending water for delivery 11/21/05 MH 11/10/05*

due 11/23 001
002
003
004
005

Released By: Va Bank Date: 11-10-05 Time: Received By: J Richardson Date: 11/16/05 Time: 8:55

Released By: _____ Date: _____ Time: _____ Received By: _____ Date: _____ Time: _____



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 9484 Chesapeake Drive, Suite 806, San Diego, CA 92123 Ph (619) 505-9586 Fax (619) 505-9689
 9830 South 51st Street, Suite B-120, Phoenix, AZ 85044 Ph (480) 785-0043 Fax (480) 785-0851
 2520 E. Sunset Rd., Suite #3, Las Vegas, NV 89120 Ph (702) 798-3620 Fax (702) 798-3621

SUBCONTRACT ORDER - PROJECT # IOK0964

SENDING LABORATORY:

Del Mar Analytical, Irvine
 17461 Derian Avenue, Suite 100
 Irvine, CA 92614
 Phone: (949) 261-1022
 Fax: (949) 261-1228
 Project Manager: Michele Harper

RECEIVING LABORATORY:

Pace Analytical, MN- SUB
 1700 Elm Street, Ste 200
 Minneapolis, MN 55414
 Phone : (612) 607-1700
 Fax: (612) 607-6444

Standard TAT is requested unless specific due date is requested => Due Date: RUSH Initials: MH

Analysis	Expiration	Comments
Sample ID: IOK0964-15 Solid 1613-Dioxin-HR	Sampled: 11/09/05 15:00 11/16/05 15:00	Limited Sample Volume sub to Pace, 17 congeners, Access EDD
Sample ID: IOK0964-16 Solid 1613-Dioxin-HR	Sampled: 11/09/05 15:00 11/16/05 15:00	Limited Sample Volume sub to Pace, 17 congeners, Access EDD
Sample ID: IOK0964-17 Solid 1613-Dioxin-HR	Sampled: 11/09/05 15:00 11/16/05 15:00	Limited Sample Volume sub to Pace, 17 congeners, Access EDD

due 11/23 006
 ↓ 007
 ↓ 008

SAMPLE INTEGRITY:

All containers intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Sample labels/COC agree: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Samples Received On Ice: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Custody Seals Present: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Samples Preserved Properly: <input type="checkbox"/> Yes <input type="checkbox"/> No	Samples Received at (temp): <u>-18</u>

Released By: V. Bauld Date: 11-10-05 Time: _____
 Received By: J. Richardson Date: 11/11/05 Time: 8:55

Released By: _____ Date: _____ Time: _____
 Received By: _____ Date: _____ Time: _____



1023308

17481 Derian Ave. Suite 100, Irvine, CA 92614 Ph: (949) 261-1022 Fax: (949) 261-1228
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 9484 Chesapeake Drive, Suite 806, San Diego, CA 92123 Ph: (619) 505-8596 Fax: (619) 505-9689
 8630 South 51st Street, Suite B-120, Phoenix, AZ 85044 Ph: (480) 785-0043 Fax: (480) 785-0651
 2620 E. Sunset Rd., Suite #3, Las Vegas, NV 89120 Ph: (702) 786-3620 Fax: (702) 786-3821

SUBCONTRACT ORDER - PROJECT # IOK0964

SENDING LABORATORY:
 Del Mar Analytical, Irvine
 17461 Derian Avenue. Suite 100
 Irvine, CA 92614
 Phone: (949) 261-1022
 Fax: (949) 261-1228
 Project Manager: Michele Harper

RECEIVING LABORATORY:
 Pace Analytical, MN- SUB
 1700 Elm Street, Ste 200
 Minneapolis, MN 55414
 Phone: (612) 607-1700
 Fax: (612) 607-6444

Standard TAT is requested unless specific due date is requested => Due Date: Push Initials: MH

Slack 11/10/05

Analysis	Expiration	Comments
Sample ID: IOK0964-01 Liquid 1613-Dioxin-HR	Sampled: 11/09/05 15:00 11/16/05 15:00	**Limited sample volume sub to Pace, 17 congeners, Access EDD
Containers Supplied: 1 Liter Poly (IOK0964-01A)		
Sample ID: IOK0964-02 Water 1613-Dioxin-HR	Sampled: 11/09/05 15:00 11/16/05 15:00	Limited Sample Volume sub to Pace, 17 congeners, Access EDD
Containers Supplied: 1 L Amber (IOK0964-02B)		
Sample ID: IOK0964-03 Water 1613-Dioxin-HR	Sampled: 11/09/05 15:00 11/16/05 15:00	Limited Sample Volume sub to Pace, 17 congeners, Access EDD
Containers Supplied: 1 L Amber (IOK0964-03B)		
Sample ID: IOK0964-04 Water 1613-Dioxin-HR	Sampled: 11/09/05 15:00 11/16/05 15:00	Limited Sample Volume sub to Pace, 17 congeners, Access EDD
Containers Supplied: 1 L Amber (IOK0964-04B)		
Sample ID: IOK0964-05 Water 1613-Dioxin-HR	Sampled: 11/09/05 15:00 11/16/05 15:00	Limited Sample Volume sub to Pace, 17 congeners, Access EDD
Containers Supplied: 1 L Amber (IOK0964-05B)		
Sample ID: IOK0964-06 Water 1613-Dioxin-HR	Sampled: 11/09/05 15:00 11/16/05 15:00	Limited Sample Volume sub to Pace, 17 congeners, Access EDD
Containers Supplied: 1 L Amber (IOK0964-06B)		
Sample ID: IOK0964-07 Water 1613-Dioxin-HR	Sampled: 11/09/05 15:00 11/16/05 15:00	Limited Sample Volume sub to Pace, 17 congeners, Access EDD
Containers Supplied: 1 L Amber (IOK0964-07B)		

1 week TAT, due 11/15

001

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006

Released By: Vu Bank Date: 11-11-05 Time: 1700 Received By: Joy Ann Pace Date: 11/21/05 Time: 850 Temp: 4.1°C

Released By _____ Date _____ Time _____ Received By _____ Date _____ Time _____



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 9830 South 51st Street, Suite B-120, Phoenix, AZ 85044 Ph (480) 786-0043 Fax (480) 786-0851
 2520 E. Sunset Rd., Suite #3, Las Vegas, NV 89120 Ph (702) 798-3620 Fax (702) 798-3621

SUBCONTRACT ORDER - PROJECT # IOK0964

SENDING LABORATORY:	RECEIVING LABORATORY:
Del Mar Analytical, Irvine 17461 Derian Avenue, Suite 100 Irvine, CA 92614 Phone: (949) 261-1022 Fax: (949) 261-1228 Project Manager: Michele Harper	Pace Analytical, MN- SUB 1700 Elm Street, Ste 200 Minneapolis, MN 55414 Phone: (612) 607-1700 Fax: (612) 607-6444

Standard TAT is requested unless specific due date is requested => Due Date: RUSH Initials: MA

Analysis	Expiration	Comments	
Sample ID: IOK0964-08 Water 1613-Dioxin-HR Containers Supplied: 1 L Amber (IOK0964-08B)	Sampled: 11/09/05 15:00 11/16/05 15:00	Limited Sample Volume sub to Pace, 17 congeners, Access EDD	1 week TAT, 007 ↓
Sample ID: IOK0964-09 Water 1613-Dioxin-HR Containers Supplied: 1 L Amber (IOK0964-09B)	Sampled: 11/09/05 15:00 11/16/05 15:00	Limited Sample Volume sub to Pace, 17 congeners, Access EDD	008 ↓
Sample ID: IOK0964-10 Solid 1613-Dioxin-HR Containers Supplied: 8 oz Jar (IOK0964-10B)	Sampled: 11/09/05 15:00 11/16/05 15:00	Limited Sample Volume sub to Pace, 17 congeners, Access EDD	due 11/23 ↓
Sample ID: IOK0964-11 Solid 1613-Dioxin-HR Containers Supplied: 8 oz Jar (IOK0964-11B)	Sampled: 11/09/05 15:00 11/16/05 15:00	Limited Sample Volume sub to Pace, 17 congeners, Access EDD	↓
Sample ID: IOK0964-12 Solid 1613-Dioxin-HR Containers Supplied: 8 oz Jar (IOK0964-12B)	Sampled: 11/09/05 15:00 11/16/05 15:00	Limited Sample Volume sub to Pace, 17 congeners, Access EDD	↓
Sample ID: IOK0964-13 Solid 1613-Dioxin-HR Containers Supplied: 8 oz Jar (IOK0964-13B)	Sampled: 11/09/05 15:00 11/16/05 15:00	Limited Sample Volume sub to Pace, 17 congeners, Access EDD	↓
Sample ID: IOK0964-14 Solid 1613-Dioxin-HR Containers Supplied: 8 oz Jar (IOK0964-14B)	Sampled: 11/09/05 15:00 11/16/05 15:00	Limited Sample Volume sub to Pace, 17 congeners, Access EDD	↓

Sent 11/10/05 MA 11/10/05

Released By: Vu Bank Date: 11-11-05 Time: 1700 Received By: Jay Mann/PATE Date: 11/12/05 Time: 8:50 Temp: 7.1°C

Released By: _____ Date: _____ Time: _____ Received By: _____ Date: _____ Time: _____



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 2520 E. Sunset Rd., Suite #3, Las Vegas, NV 89120 Ph (702) 786-3620 Fax (702) 786-3621

SUBCONTRACT ORDER - PROJECT # IOK0964

SENDING LABORATORY: Del Mar Analytical, Irvine 17461 Derian Avenue, Suite 100 Irvine, CA 92614 Phone: (949) 261-1022 Fax: (949) 261-1228 Project Manager: Michele Harper	RECEIVING LABORATORY: Pace Analytical, MN- SUB 1700 Elm Street, Ste 200 Minneapolis, MN 55414 Phone: (612) 607-1700 Fax: (612) 607-6444
---	---

Standard TAT is requested unless specific due date is requested => Due Date: DUST Initials: MH

Analysis	Expiration	Comments
Sample ID: IOK0964-15 Solid 1613-Dioxin-HR Containers Supplied: 8 oz Jar (IOK0964-15B)	Sampled: 11/09/05 15:00 11/16/05 15:00	Limited Sample Volume sub to Pace, 17 congeners, Access EDD
Sample ID: IOK0964-16 Solid 1613-Dioxin-HR Containers Supplied: 8 oz Jar (IOK0964-16B)	Sampled: 11/09/05 15:00 11/16/05 15:00	Limited Sample Volume sub to Pace, 17 congeners, Access EDD
Sample ID: IOK0964-17 Solid 1613-Dioxin-HR Containers Supplied: 8 oz Jar (IOK0964-17B)	Sampled: 11/09/05 15:00 11/16/05 15:00	Limited Sample Volume sub to Pace, 17 congeners, Access EDD

MH 11/10/05
 sub 11/10/05

due 11/23

↓

SAMPLE INTEGRITY:					
All containers intact:	<input type="checkbox"/> Yes	<input type="checkbox"/> No	Sample labels/COC agree:	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Custody Seals Present:	<input type="checkbox"/> Yes	<input type="checkbox"/> No	Samples Preserved Properly:	<input type="checkbox"/> Yes	<input type="checkbox"/> No
			Samples Received On Ice::	<input type="checkbox"/> Yes	<input type="checkbox"/> No
			Samples Received at (temp):	_____	

Released By: V. Banti Date: 11-11-05 Time: 1700 Received By: [Signature] Date: 11/12/05 Time: 8:50 Temp: 4.1 °C

Released By: _____ Date: _____ Time: _____ Received By: _____ Date: _____ Time: _____

DETERMINATION OF PCDD/PCDF LEVELS

Prepared for:
Del Mar Analytical, Irvine
Attn: Michele Harper
17461 Derian Avenue, Suite 100
Irvine, CA 92614



This report contains 17 pages.

The results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

Project: Chemical Analysis

Client Project Number: IOK0964

REPORT OF LABORATORY ANALYSIS

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REPORT OF: CHEMICAL ANALYSES

PROJECT: PCDD/PCDF ANALYSES

DATE: November 21, 2005

ISSUED TO: Del Mar Analytical, Irvine
Attn: Michele Harper
17461 Derian Avenue, Suite 100
Irvine, CA 92614

REPORT NO: 05-1023280

INTRODUCTION

This report presents the results from the analyses performed on eight samples submitted by a representative of Del Mar Analytical, Irvine. The samples were analyzed for the presence or absence of polychlorodibenzo-p-dioxins (PCDDs) and polychlorodibenzofurans (PCDFs) using a modified version of USEPA Method 1613B

SAMPLE IDENTIFICATION

<u>Client ID</u>	<u>Sample Type</u>	<u>Date Received</u>	<u>PACE ID</u>
IOK0964-10	Solid	11/11/05	1023280001
IOK0964-11	Solid	11/11/05	1023280002
IOK0964-12	Solid	11/11/05	1023280003
IOK0964-13	Solid	11/11/05	1023280004
IOK0964-14	Solid	11/11/05	1023280005
IOK0964-15	Solid	11/11/05	1023280006
IOK0964-16	Solid	11/11/05	1023280007
IOK0964-17	Solid	11/11/05	1023280008

RESULTS

The results are included in the following:

- Appendix A – Chain of Custody Documentation
- Appendix B – PCDD/PCDF Analysis Results

REPORT OF LABORATORY ANALYSIS

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REPORT OF: CHEMICAL ANALYSES

PROJECT: PCDD/PCDF ANALYSES

DATE: November 21, 2005

PAGE: 2

REPORT NO: 05-1023280

DISCUSSION

The recoveries of the isotopically-labeled PCDD/PCDF internal standards in the sample extracts ranged from 48-113%. All of the labeled standard recoveries obtained for this project were within the target ranges specified in Method 1613B. Also, since the quantification of the native 2,3,7,8-substituted congeners was based on isotope dilution, the data were automatically corrected for variation in recovery and accurate values were obtained.

In some cases, the presence of interfering substances impacted the determinations of selected congeners. The affected values were flagged "E" where polychlorinated diphenyl ethers were present, or "I" where incorrect isotope ratios were obtained.

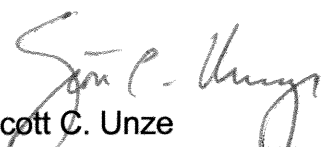
A laboratory method blank was prepared and analyzed with the sample batch as part of our routine quality control procedures. The results, found at the beginning of Appendix B, show the blank to contain trace levels of selected PCDDs and PCDFs. These were below the calibration range of the method. Sample levels similar to the corresponding blank levels were flagged "B" on the results tables and may be, at least partially, attributed to the background. It should be noted that levels less than ten times the background are not generally considered to be statistically different from the background.

A laboratory spike sample was also prepared with the sample batch using clean laboratory sand that had been fortified with native standard materials. The results show the spiked native compounds were recovered at 86-118%. These results indicate a high degree of accuracy for these determinations.

REMARKS

The sample extracts will be retained for a period of 15 days from the date of this report and then discarded unless other arrangements are made. The raw mass spectral data will be archived on magnetic tape for a period of not less than one year. Questions regarding the data contained in this report may be directed to the author at the number provided below.

Pace Analytical Services, Inc.



Scott C. Unze
Project Manager, HRMS
(612) 607-6383

REPORT OF LABORATORY ANALYSIS

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APPENDIX A

REPORT OF LABORATORY ANALYSIS

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 5830 South 51st Street, Suite E-120, Phoenix, AZ 85044 Ph (480) 785-0043 Fax (480) 785-0851
 2620 E. Sunset Blvd., Suite #3, Las Vegas, NV 89120 Ph (702) 788-3820 Fax (702) 788-3821

SUBCONTRACT ORDER - PROJECT # IOK0964

1023280

<p>SENDING LABORATORY: Del Mar Analytical, Irvine 17461 Derian Avenue, Suite 100 Irvine, CA 92614 Phone: (949) 261-1022 Fax: (949) 261-1228 Project Manager: Michele Harper</p>	<p>RECEIVING LABORATORY: Pace Analytical, MN- SUB 1700 Elm Street, Ste. 200 Minneapolis, MN 55414 Phone: (612) 607-1700 Fax: (612) 607-6444</p>
--	---

Standard TAT is requested unless specific due date is requested => Due Date: PUSH Initials: MH

Analysis	Expiration	Comments
Sample ID: IOK0964-01 Liquid 1613-Dioxin-HR	Sampled: 11/09/05 15:00 11/16/05 15:00	**Limited sample volume sub to Pace, 17 congeners, Access EDD
Sample ID: IOK0964-02 Water 1613-Dioxin-HR	Sampled: 11/09/05 15:00 11/16/05 15:00	Limited Sample Volume sub to Pace, 17 congeners, Access EDD
Sample ID: IOK0964-03 Water 1613-Dioxin-HR	Sampled: 11/09/05 15:00 11/16/05 15:00	Limited Sample Volume sub to Pace, 17 congeners, Access EDD
Sample ID: IOK0964-04 Water 1613-Dioxin-HR	Sampled: 11/09/05 15:00 11/16/05 15:00	Limited Sample Volume sub to Pace, 17 congeners, Access EDD
Sample ID: IOK0964-05 Water 1613-Dioxin-HR	Sampled: 11/09/05 15:00 11/16/05 15:00	Limited Sample Volume sub to Pace, 17 congeners, Access EDD
Sample ID: IOK0964-06 Water 1613-Dioxin-HR	Sampled: 11/09/05 15:00 11/16/05 15:00	Limited Sample Volume sub to Pace, 17 congeners, Access EDD
Sample ID: IOK0964-07 Water 1613-Dioxin-HR	Sampled: 11/09/05 15:00 11/16/05 15:00	Limited Sample Volume sub to Pace, 17 congeners, Access EDD
Sample ID: IOK0964-08 Water 1613-Dioxin-HR	Sampled: 11/09/05 15:00 11/16/05 15:00	Limited Sample Volume sub to Pace, 17 congeners, Access EDD
Sample ID: IOK0964-09 Water 1613-Dioxin-HR	Sampled: 11/09/05 15:00 11/16/05 15:00	Limited Sample Volume sub to Pace, 17 congeners, Access EDD
Sample ID: IOK0964-10 Solid 1613-Dioxin-HR	Sampled: 11/09/05 15:00 11/16/05 15:00	Limited Sample Volume sub to Pace, 17 congeners, Access EDD
Sample ID: IOK0964-11 Solid 1613-Dioxin-HR	Sampled: 11/09/05 15:00 11/16/05 15:00	Limited Sample Volume sub to Pace, 17 congeners, Access EDD
Sample ID: IOK0964-12 Solid 1613-Dioxin-HR	Sampled: 11/09/05 15:00 11/16/05 15:00	Limited Sample Volume sub to Pace, 17 congeners, Access EDD
Sample ID: IOK0964-13 Solid 1613-Dioxin-HR	Sampled: 11/09/05 15:00 11/16/05 15:00	Limited Sample Volume sub to Pace, 17 congeners, Access EDD
Sample ID: IOK0964-14 Solid 1613-Dioxin-HR	Sampled: 11/09/05 15:00 11/16/05 15:00	Limited Sample Volume sub to Pace, 17 congeners, Access EDD

1 week TAT, due 11/16
**sending water for delivery 11/2/05*
MH 11/16/05
due 11/23

001
002
003
004
005

Released By U. Banks 11-10-05 Time 8:55
 Received By Richardson 11/11/05 Time 8:55

Released By _____ Date _____ Time _____
 Received By _____ Date _____ Time _____



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SUBCONTRACT ORDER - PROJECT # IOK0964

SENDING LABORATORY:
 Del Mar Analytical, Irvine
 17461 Derian Avenue, Suite 100
 Irvine, CA 92614
 Phone: (949) 261-1022
 Fax: (949) 261-1228
 Project Manager: Michele Harper

RECEIVING LABORATORY:
 Pace Analytical, MN- SUB
 1700 Elm Street, Ste 200
 Minneapolis, MN 55414
 Phone: (612) 607-1700
 Fax: (612) 607-6444

Standard TAT is requested unless specific due date is requested => Due Date: RUSH Initials: MH

Analysis	Expiration	Comments
Sample ID: IOK0964-15 Solid 1613-Dioxin-HR	Sampled: 11/09/05 15:00 11/16/05 15:00	Limited Sample Volume sub to Pace, 17 congeners, Access EDD
Sample ID: IOK0964-16 Solid 1613-Dioxin-HR	Sampled: 11/09/05 15:00 11/16/05 15:00	Limited Sample Volume sub to Pace, 17 congeners, Access EDD
Sample ID: IOK0964-17 Solid 1613-Dioxin-HR	Sampled: 11/09/05 15:00 11/16/05 15:00	Limited Sample Volume sub to Pace, 17 congeners, Access EDD

due 11/23 006
↓ 007
↓ 008

SAMPLE INTEGRITY:

All containers intact: Yes No
 Sample labels/COC agree: Yes No
 Samples Received On Ice: Yes No
 Custody Seals Present: Yes No
 Samples Preserved Properly: Yes No
 Samples Received at (temp): 1.8

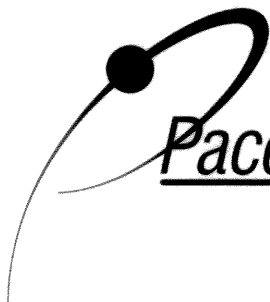
Released By: W. Bandy 11-10-05 Date Time Received By: J. Richardson 11/11/05 8:55 Date Time

Released By: _____ Date Time Received By: _____ Date Time

APPENDIX B

REPORT OF LABORATORY ANALYSIS

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Method 1613B Blank Analysis Results

Client - Del Mar Analytical

Lab Sample ID BLANK-8294 Matrix Solid
Filename U51119A_09 Dilution NA
Total Amount Extracted 20.9 g Extracted 11/16/2005
ICAL Date 11/04/2005 Analyzed 11/19/2005 19:46
Ccal Filename(s) U51119A_06 Injected By BAL

Table with 7 columns: Native Isomers, Conc ng/Kg, EMPC ng/Kg, LOD ng/Kg, Internal Standards, ng's Added, Percent Recovery. Rows include various PCB congeners like TCDF, TCDD, PeCDF, PeCDD, HxCDF, HxCDD, HpCDF, HpCDD, OCDF, and OCDD.

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
LOD = Limit of Detection. Totals are averages of individual isomer LODs.
A = Limit of Detection based on signal to noise
P = Recovery outside of method 1613 control limits
Nn = Value obtained from additional analysis

I = Interference
E = PCDE Interference
ND = Not Detected
NA = Not Applicable
NC = Not Calculated
* = See Discussion

Report No.....1023280

REPORT OF LABORATORY ANALYSIS

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Method 1613B Analysis Results

Client - Del Mar Analytical

Client's Sample ID	IOK0964-10		
Lab Sample ID	1023280001		
Filename	U51119A_10		
Injected By	BAL		
Total Amount Extracted	10.3 g	Matrix	Solid
% Moisture	5.6	Dilution	NA
Dry Weight Extracted	9.74 g	Collected	11/09/2005
ICAL Date	11/04/2005	Received	11/11/2005
CCal Filename(s)	U51119A_06	Extracted	11/16/2005
Method Blank ID	BLANK-8294	Analyzed	11/19/2005 20:34

Native Isomers	Conc ng/Kg	EMPC ng/Kg	LOD ng/Kg	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	----	0.120	2,3,7,8-TCDF-13C	2.00	73
Total TCDF	ND	----	0.120	2,3,7,8-TCDD-13C	2.00	74
				1,2,3,7,8-PeCDF-13C	2.00	84
2,3,7,8-TCDD	ND	----	0.170	2,3,4,7,8-PeCDF-13C	2.00	93
Total TCDD	ND	----	0.170	1,2,3,7,8-PeCDD-13C	2.00	102
				1,2,3,4,7,8-HxCDF-13C	2.00	92
1,2,3,7,8-PeCDF	ND	----	0.078	1,2,3,6,7,8-HxCDF-13C	2.00	95
2,3,4,7,8-PeCDF	ND	----	0.062	2,3,4,6,7,8-HxCDF-13C	2.00	95
Total PeCDF	ND	----	0.070	1,2,3,7,8,9-HxCDF-13C	2.00	95
				1,2,3,4,7,8-HxCDD-13C	2.00	87
1,2,3,7,8-PeCDD	ND	----	0.099	1,2,3,6,7,8-HxCDD-13C	2.00	89
Total PeCDD	ND	----	0.099	1,2,3,4,6,7,8-HpCDF-13C	2.00	75
				1,2,3,4,7,8,9-HpCDF-13C	2.00	68
1,2,3,4,7,8-HxCDF	----	0.074	0.048	1,2,3,4,6,7,8-HpCDD-13C	2.00	83
1,2,3,6,7,8-HxCDF	----	0.051	0.048	OCDD-13C	4.00	77
2,3,4,6,7,8-HxCDF	ND	----	0.047			
1,2,3,7,8,9-HxCDF	ND	----	0.036	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	----	0.045	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	----	0.072	2,3,7,8-TCDD-37Cl4	0.20	76
1,2,3,6,7,8-HxCDD	ND	----	0.067			
1,2,3,7,8,9-HxCDD	ND	----	0.062			
Total HxCDD	ND	----	0.067			
1,2,3,4,6,7,8-HpCDF	ND	----	0.120	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	----	0.130	Equivalence: 0.0019 ng/Kg		
Total HpCDF	ND	----	0.120	(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	----	0.260	0.086			
Total HpCDD	0.26	----	0.086 BJ			
OCDF	----	0.300	0.130			
OCDD	1.90	----	0.150 BJ			

Results reported on a dry weight basis

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
 EMPC = Estimated Maximum Possible Concentration
 LOD = Limit of Detection. Totals are averages of individual isomer LODs.
 D = Result obtained from analysis of diluted sample
 B = Less than 10 times higher than method blank level
 P = Recovery outside of method 1613 control limits
 J = Concentration detected is below the calibration range
 Nn = Value obtained from additional analysis

I = Interference
 E = PCDE Interference
 ND = Not Detected
 NA = Not Applicable
 NC = Not Calculated
 * = See Discussion

Report No.....1023280

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Method 1613B Analysis Results

Client - Del Mar Analytical

Client's Sample ID	IOK0964-11		
Lab Sample ID	1023280002		
Filename	U51119A_11		
Injected By	BAL		
Total Amount Extracted	10.1 g	Matrix	Solid
% Moisture	10.0	Dilution	NA
Dry Weight Extracted	9.06 g	Collected	11/09/2005
ICAL Date	11/04/2005	Received	11/11/2005
CCal Filename(s)	U51119A_06	Extracted	11/16/2005
Method Blank ID	BLANK-8294	Analyzed	11/19/2005 21:22

Native Isomers	Conc ng/Kg	EMPC ng/Kg	LOD ng/Kg	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	0.12	----	0.120 J	2,3,7,8-TCDF-13C	2.00	81
Total TCDF	1.90	----	0.120	2,3,7,8-TCDD-13C	2.00	80
				1,2,3,7,8-PeCDF-13C	2.00	86
2,3,7,8-TCDD	ND	----	0.120	2,3,4,7,8-PeCDF-13C	2.00	90
Total TCDD	0.17	----	0.120 J	1,2,3,7,8-PeCDD-13C	2.00	100
				1,2,3,4,7,8-HxCDF-13C	2.00	87
1,2,3,7,8-PeCDF	0.42	----	0.091 J	1,2,3,6,7,8-HxCDF-13C	2.00	92
2,3,4,7,8-PeCDF	0.42	----	0.048 J	2,3,4,6,7,8-HxCDF-13C	2.00	88
Total PeCDF	16.00	----	0.069	1,2,3,7,8,9-HxCDF-13C	2.00	86
				1,2,3,4,7,8-HxCDD-13C	2.00	77
1,2,3,7,8-PeCDD	1.50	----	0.150 J	1,2,3,6,7,8-HxCDD-13C	2.00	81
Total PeCDD	5.80	----	0.150	1,2,3,4,6,7,8-HpCDF-13C	2.00	69
				1,2,3,4,7,8,9-HpCDF-13C	2.00	60
1,2,3,4,7,8-HxCDF	1.60	----	0.150 J	1,2,3,4,6,7,8-HpCDD-13C	2.00	74
1,2,3,6,7,8-HxCDF	-----	3.00	0.230 E	OCDD-13C	4.00	69
2,3,4,6,7,8-HxCDF	2.20	----	0.120 J			
1,2,3,7,8,9-HxCDF	-----	0.24	0.170 I	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	56.00	----	0.170	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	2.30	----	0.310 J	2,3,7,8-TCDD-37Cl4	0.20	78
1,2,3,6,7,8-HxCDD	6.90	----	0.240			
1,2,3,7,8,9-HxCDD	5.80	----	0.260			
Total HxCDD	40.00	----	0.270			
1,2,3,4,6,7,8-HpCDF	-----	42.00	0.200 E	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	1.50	----	0.370 J	Equivalence: 5.4 ng/Kg		
Total HpCDF	48.00	----	0.290	(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	120.00	----	0.760			
Total HpCDD	190.00	----	0.760			
OCDF	52.00	----	0.500			
OCDD	1200.00	----	0.083			

Results reported on a dry weight basis

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
LOD = Limit of Detection. Totals are averages of individual isomer LODs.
D = Result obtained from analysis of diluted sample
B = Less than 10 times higher than method blank level
P = Recovery outside of method 1613 control limits
J = Concentration detected is below the calibration range
Nn = Value obtained from additional analysis

I = Interference
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ND = Not Detected
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Report No.....1023280

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Method 1613B Analysis Results

Client - Del Mar Analytical

Client's Sample ID	IOK0964-12		
Lab Sample ID	1023280003		
Filename	U51119A_12		
Injected By	BAL		
Total Amount Extracted	10.1 g	Matrix	Solid
% Moisture	10.0	Dilution	NA
Dry Weight Extracted	9.07 g	Collected	11/09/2005
ICAL Date	11/04/2005	Received	11/11/2005
CCal Filename(s)	U51119A_06	Extracted	11/16/2005
Method Blank ID	BLANK-8294	Analyzed	11/19/2005 22:10

Native Isomers	Conc ng/Kg	EMPC ng/Kg	LOD ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	----	0.130		2,3,7,8-TCDF-13C	2.00	78
Total TCDF	0.17	----	0.130	BJ	2,3,7,8-TCDD-13C	2.00	74
					1,2,3,7,8-PeCDF-13C	2.00	86
2,3,7,8-TCDD	ND	----	0.120		2,3,4,7,8-PeCDF-13C	2.00	89
Total TCDD	1.50	----	0.120		1,2,3,7,8-PeCDD-13C	2.00	98
					1,2,3,4,7,8-HxCDF-13C	2.00	87
1,2,3,7,8-PeCDF	0.25	----	0.110	J	1,2,3,6,7,8-HxCDF-13C	2.00	87
2,3,4,7,8-PeCDF	0.40	----	0.071	J	2,3,4,6,7,8-HxCDF-13C	2.00	83
Total PeCDF	1.20	----	0.091	J	1,2,3,7,8,9-HxCDF-13C	2.00	82
					1,2,3,4,7,8-HxCDD-13C	2.00	76
1,2,3,7,8-PeCDD	ND	----	0.120		1,2,3,6,7,8-HxCDD-13C	2.00	77
Total PeCDD	0.13	----	0.120	BJ	1,2,3,4,6,7,8-HpCDF-13C	2.00	65
					1,2,3,4,7,8,9-HpCDF-13C	2.00	59
1,2,3,4,7,8-HxCDF	0.99	----	0.180	J	1,2,3,4,6,7,8-HpCDD-13C	2.00	71
1,2,3,6,7,8-HxCDF	----	2.4	0.093	E	OCDD-13C	4.00	66
2,3,4,6,7,8-HxCDF	0.71	----	0.079	J			
1,2,3,7,8,9-HxCDF	0.65	----	0.130	J	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	30.00	----	0.120		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	0.41	----	0.180	J	2,3,7,8-TCDD-37Cl4	0.20	73
1,2,3,6,7,8-HxCDD	4.60	----	0.190	J			
1,2,3,7,8,9-HxCDD	0.83	----	0.180	J			
Total HxCDD	17.00	----	0.180				
1,2,3,4,6,7,8-HpCDF	----	42.0	0.230	E	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	1.90	----	0.360	J	Equivalence: 6.8 ng/Kg		
Total HpCDF	87.00	----	0.290		(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	130.00	----	0.590				
Total HpCDD	210.00	----	0.590				
OCDF	110.00	----	0.510				
OCDD	4400.00	----	0.200				

Results reported on a dry weight basis

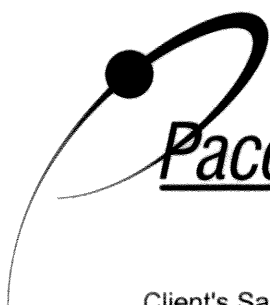
Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
LOD = Limit of Detection. Totals are averages of individual isomer LODs.
D = Result obtained from analysis of diluted sample
B = Less than 10 times higher than method blank level
P = Recovery outside of method 1613 control limits
J = Concentration detected is below the calibration range
Nn = Value obtained from additional analysis

I = Interference
E = PCDE Interference
ND = Not Detected
NA = Not Applicable
NC = Not Calculated
* = See Discussion

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Method 1613B Analysis Results

Client - Del Mar Analytical

Client's Sample ID	IOK0964-13		
Lab Sample ID	1023280004		
Filename	U51119A_13		
Injected By	BAL		
Total Amount Extracted	10.3 g	Matrix	Solid
% Moisture	4.9	Dilution	NA
Dry Weight Extracted	9.77 g	Collected	11/09/2005
ICAL Date	11/04/2005	Received	11/11/2005
CCal Filename(s)	U51119A_06	Extracted	11/16/2005
Method Blank ID	BLANK-8294	Analyzed	11/19/2005 22:58

Native Isomers	Conc ng/Kg	EMPC ng/Kg	LOD ng/Kg	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	----	0.130	2,3,7,8-TCDF-13C	2.00	76
Total TCDF	ND	----	0.130	2,3,7,8-TCDD-13C	2.00	79
				1,2,3,7,8-PeCDF-13C	2.00	79
2,3,7,8-TCDD	ND	----	0.170	2,3,4,7,8-PeCDF-13C	2.00	84
Total TCDD	ND	----	0.170	1,2,3,7,8-PeCDD-13C	2.00	76
				1,2,3,4,7,8-HxCDF-13C	2.00	84
1,2,3,7,8-PeCDF	ND	----	0.120	1,2,3,6,7,8-HxCDF-13C	2.00	79
2,3,4,7,8-PeCDF	ND	----	0.110	2,3,4,6,7,8-HxCDF-13C	2.00	77
Total PeCDF	0.13	----	0.110 J	1,2,3,7,8,9-HxCDF-13C	2.00	77
				1,2,3,4,7,8-HxCDD-13C	2.00	70
1,2,3,7,8-PeCDD	ND	----	0.160	1,2,3,6,7,8-HxCDD-13C	2.00	73
Total PeCDD	ND	----	0.160	1,2,3,4,6,7,8-HpCDF-13C	2.00	59
				1,2,3,4,7,8,9-HpCDF-13C	2.00	52
1,2,3,4,7,8-HxCDF	0.15	----	0.082 BJ	1,2,3,4,6,7,8-HpCDD-13C	2.00	63
1,2,3,6,7,8-HxCDF	ND	----	0.099	OCDD-13C	4.00	59
2,3,4,6,7,8-HxCDF	ND	----	0.096			
1,2,3,7,8,9-HxCDF	ND	----	0.099	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	0.42	----	0.094 BJ	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	----	0.120	2,3,7,8-TCDD-37Cl4	0.20	77
1,2,3,6,7,8-HxCDD	0.14	----	0.097 J			
1,2,3,7,8,9-HxCDD	ND	----	0.096			
Total HxCDD	0.71	----	0.100 BJ			
1,2,3,4,6,7,8-HpCDF	3.20	----	0.220 J	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	----	0.310	Equivalence: 0.29 ng/Kg		
Total HpCDF	7.60	----	0.260	(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	2.10	----	0.280 BJ			
Total HpCDD	4.40	----	0.280 J			
OCDF	49.00	----	0.310			
OCDD	160.00	----	0.220			

Results reported on a dry weight basis

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
LOD = Limit of Detection. Totals are averages of individual isomer LODs.
D = Result obtained from analysis of diluted sample
B = Less than 10 times higher than method blank level
P = Recovery outside of method 1613 control limits
J = Concentration detected is below the calibration range
Nn = Value obtained from additional analysis

I = Interference
E = PCDE Interference
ND = Not Detected
NA = Not Applicable
NC = Not Calculated
* = See Discussion

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Method 1613B Analysis Results

Client - Del Mar Analytical

Client's Sample ID	IOK0964-14		
Lab Sample ID	1023280005		
Filename	U51119A_14		
Injected By	BAL		
Total Amount Extracted	10.4 g	Matrix	Solid
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	11/09/2005
ICAL Date	11/04/2005	Received	11/11/2005
CCal Filename(s)	U51119A_06	Extracted	11/16/2005
Method Blank ID	BLANK-8294	Analyzed	11/19/2005 23:46

Native Isomers	Conc ng/Kg	EMPC ng/Kg	LOD ng/Kg	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	----	0.098	0.074 I	2,3,7,8-TCDF-13C	2.00	69
Total TCDF	ND	----	0.074	2,3,7,8-TCDD-13C	2.00	67
				1,2,3,7,8-PeCDF-13C	2.00	75
2,3,7,8-TCDD	ND	----	0.150	2,3,4,7,8-PeCDF-13C	2.00	79
Total TCDD	ND	----	0.150	1,2,3,7,8-PeCDD-13C	2.00	87
				1,2,3,4,7,8-HxCDF-13C	2.00	70
1,2,3,7,8-PeCDF	ND	----	0.130	1,2,3,6,7,8-HxCDF-13C	2.00	77
2,3,4,7,8-PeCDF	ND	----	0.094	2,3,4,6,7,8-HxCDF-13C	2.00	75
Total PeCDF	ND	----	0.110	1,2,3,7,8,9-HxCDF-13C	2.00	69
				1,2,3,4,7,8-HxCDD-13C	2.00	65
1,2,3,7,8-PeCDD	ND	----	0.170	1,2,3,6,7,8-HxCDD-13C	2.00	69
Total PeCDD	ND	----	0.170	1,2,3,4,6,7,8-HpCDF-13C	2.00	59
				1,2,3,4,7,8,9-HpCDF-13C	2.00	52
1,2,3,4,7,8-HxCDF	ND	----	0.088	1,2,3,4,6,7,8-HpCDD-13C	2.00	64
1,2,3,6,7,8-HxCDF	ND	----	0.091	OCDD-13C	4.00	58
2,3,4,6,7,8-HxCDF	0.095	----	0.085 J			
1,2,3,7,8,9-HxCDF	----	0.150	0.110 I	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	0.660	----	0.095 J	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	----	0.160	2,3,7,8-TCDD-37Cl4	0.20	67
1,2,3,6,7,8-HxCDD	0.270	----	0.150 J			
1,2,3,7,8,9-HxCDD	0.260	----	0.150 J			
Total HxCDD	1.900	----	0.160 J			
1,2,3,4,6,7,8-HpCDF	5.200	----	0.470	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	0.520	----	0.370 J	Equivalence: 1.5 ng/Kg		
Total HpCDF	15.000	----	0.420	(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	7.100	----	0.360			
Total HpCDD	15.000	----	0.360			
OCDF	340.000	----	0.250			
OCDD	1000.000	----	0.320			

Results reported on a total weight basis

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
LOD = Limit of Detection. Totals are averages of individual isomer LODs.
D = Result obtained from analysis of diluted sample
B = Less than 10 times higher than method blank level
P = Recovery outside of method 1613 control limits
J = Concentration detected is below the calibration range
Nn = Value obtained from additional analysis

I = Interference
E = PCDE Interference
ND = Not Detected
NA = Not Applicable
NC = Not Calculated
* = See Discussion

Report No.....1023280

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Method 1613B Analysis Results

Client - Del Mar Analytical

Client's Sample ID	IOK0964-15		
Lab Sample ID	1023280006		
Filename	U51119A_15		
Injected By	BAL		
Total Amount Extracted	10.0 g	Matrix	Solid
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	11/09/2005
ICAL Date	11/04/2005	Received	11/11/2005
CCal Filename(s)	U51119A_06	Extracted	11/16/2005
Method Blank ID	BLANK-8294	Analyzed	11/20/2005 00:34

Native Isomers	Conc ng/Kg	EMPC ng/Kg	LOD ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	0.150	----	0.090	J	2,3,7,8-TCDF-13C	2.00	83
Total TCDF	0.150	----	0.090	BJ	2,3,7,8-TCDD-13C	2.00	82
					1,2,3,7,8-PeCDF-13C	2.00	90
2,3,7,8-TCDD	ND	----	0.110		2,3,4,7,8-PeCDF-13C	2.00	96
Total TCDD	ND	----	0.110		1,2,3,7,8-PeCDD-13C	2.00	106
					1,2,3,4,7,8-HxCDF-13C	2.00	100
1,2,3,7,8-PeCDF	ND	----	0.079		1,2,3,6,7,8-HxCDF-13C	2.00	93
2,3,4,7,8-PeCDF	ND	----	0.057		2,3,4,6,7,8-HxCDF-13C	2.00	88
Total PeCDF	ND	----	0.068		1,2,3,7,8,9-HxCDF-13C	2.00	90
					1,2,3,4,7,8-HxCDD-13C	2.00	48
1,2,3,7,8-PeCDD	ND	----	0.081		1,2,3,6,7,8-HxCDD-13C	2.00	54
Total PeCDD	0.170	----	0.081	BJ	1,2,3,4,6,7,8-HpCDF-13C	2.00	70
					1,2,3,4,7,8,9-HpCDF-13C	2.00	64
1,2,3,4,7,8-HxCDF	0.099	----	0.085	BJ	1,2,3,4,6,7,8-HpCDD-13C	2.00	76
1,2,3,6,7,8-HxCDF	ND	----	0.091		OCDD-13C	4.00	72
2,3,4,6,7,8-HxCDF	ND	----	0.076				
1,2,3,7,8,9-HxCDF	ND	----	0.100		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	0.099	----	0.089	BJ	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	----	0.210		2,3,7,8-TCDD-37Cl4	0.20	80
1,2,3,6,7,8-HxCDD	ND	----	0.130				
1,2,3,7,8,9-HxCDD	ND	----	0.170				
Total HxCDD	ND	----	0.170				
1,2,3,4,6,7,8-HpCDF	1.000	----	0.092	J	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	----	0.130		Equivalence: 0.15 ng/Kg		
Total HpCDF	1.000	----	0.110	J	(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	0.660	----	0.180	BJ			
Total HpCDD	1.300	----	0.180	BJ			
OCDF	17.000	----	0.170				
OCDD	86.000	----	0.170				

Results reported on a total weight basis

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
LOD = Limit of Detection. Totals are averages of individual isomer LODs.
D = Result obtained from analysis of diluted sample
B = Less than 10 times higher than method blank level
P = Recovery outside of method 1613 control limits
J = Concentration detected is below the calibration range
Nn = Value obtained from additional analysis

I = Interference
E = PCDE Interference
ND = Not Detected
NA = Not Applicable
NC = Not Calculated
* = See Discussion

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Method 1613B Analysis Results

Client - Del Mar Analytical

Client's Sample ID	IOK0964-16		
Lab Sample ID	1023280007		
Filename	U51119A_16		
Injected By	BAL		
Total Amount Extracted	10.4 g	Matrix	Solid
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	11/09/2005
ICAL Date	11/04/2005	Received	11/11/2005
CCal Filename(s)	U51119A_06	Extracted	11/16/2005
Method Blank ID	BLANK-8294	Analyzed	11/20/2005 01:22

Native Isomers	Conc ng/Kg	EMPC ng/Kg	LOD ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	0.28	----	0.110	J	2,3,7,8-TCDF-13C	2.00	88
Total TCDF	0.56	----	0.110	BJ	2,3,7,8-TCDD-13C	2.00	93
					1,2,3,7,8-PeCDF-13C	2.00	92
2,3,7,8-TCDD	ND	----	0.140		2,3,4,7,8-PeCDF-13C	2.00	94
Total TCDD	0.20	----	0.140	J	1,2,3,7,8-PeCDD-13C	2.00	104
					1,2,3,4,7,8-HxCDF-13C	2.00	113
1,2,3,7,8-PeCDF	ND	----	0.079		1,2,3,6,7,8-HxCDF-13C	2.00	92
2,3,4,7,8-PeCDF	0.12	----	0.086	J	2,3,4,6,7,8-HxCDF-13C	2.00	94
Total PeCDF	0.12	----	0.082	J	1,2,3,7,8,9-HxCDF-13C	2.00	89
					1,2,3,4,7,8-HxCDD-13C	2.00	99
1,2,3,7,8-PeCDD	ND	----	0.140		1,2,3,6,7,8-HxCDD-13C	2.00	75
Total PeCDD	ND	----	0.140		1,2,3,4,6,7,8-HpCDF-13C	2.00	72
					1,2,3,4,7,8,9-HpCDF-13C	2.00	61
1,2,3,4,7,8-HxCDF	0.23	----	0.064	BJ	1,2,3,4,6,7,8-HpCDD-13C	2.00	78
1,2,3,6,7,8-HxCDF	ND	----	0.078		OCDD-13C	4.00	68
2,3,4,6,7,8-HxCDF	ND	----	0.073				
1,2,3,7,8,9-HxCDF	----	0.14	0.081	I	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	1.30	----	0.074	J	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	----	0.094		2,3,7,8-TCDD-37Cl4	0.20	90
1,2,3,6,7,8-HxCDD	0.34	----	0.081	J			
1,2,3,7,8,9-HxCDD	----	0.13	0.130	I			
Total HxCDD	4.30	----	0.100	J			
1,2,3,4,6,7,8-HpCDF	4.30	----	0.280	J	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	0.68	----	0.360	J	Equivalence: 1.6 ng/Kg		
Total HpCDF	15.00	----	0.320		(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	11.00	----	0.120				
Total HpCDD	28.00	----	0.120				
OCDF	390.00	----	0.240				
OCDD	930.00	----	0.170				

Results reported on a total weight basis

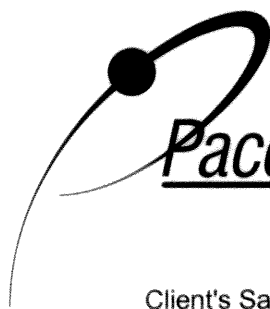
Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
 EMPC = Estimated Maximum Possible Concentration
 LOD = Limit of Detection. Totals are averages of individual isomer LODs.
 D = Result obtained from analysis of diluted sample
 B = Less than 10 times higher than method blank level
 P = Recovery outside of method 1613 control limits
 J = Concentration detected is below the calibration range
 Nn = Value obtained from additional analysis

I = Interference
 E = PCDE Interference
 ND = Not Detected
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 * = See Discussion

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Method 1613B Analysis Results

Client - Del Mar Analytical

Client's Sample ID IOK0964-17
Lab Sample ID 1023280008
Filename U51119A_17
Injected By BAL
Total Amount Extracted 10.5 g
% Moisture NA
Dry Weight Extracted NA
ICAL Date 11/04/2005
Ccal Filename(s) U51119A_06
Method Blank ID BLANK-8294
Matrix Solid
Dilution NA
Collected 11/09/2005
Received 11/11/2005
Extracted 11/16/2005
Analyzed 11/20/2005 02:10

Table with 7 columns: Native Isomers, Conc ng/Kg, EMPC ng/Kg, LOD ng/Kg, Internal Standards, ng's Added, Percent Recovery. Rows include TCDF, TCDD, PeCDF, PeCDD, HxCDF, HxCDD, HpCDF, HpCDD, OCDF, and OCDD.

Results reported on a total weight basis

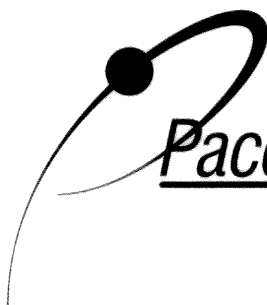
Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
LOD = Limit of Detection. Totals are averages of individual isomer LODs.
D = Result obtained from analysis of diluted sample
B = Less than 10 times higher than method blank level
P = Recovery outside of method 1613 control limits
J = Concentration detected is below the calibration range
Nn = Value obtained from additional analysis

I = Interference
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ND = Not Detected
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Method 1613B Laboratory Control Spike Results

Client - Del Mar Analytical

Lab Sample ID	LCS-8295	Matrix	Solid
Filename	U51119A_07	Dilution	NA
Total Amount Extracted	21.0 g	Extracted	11/16/2005
ICAL Date	11/04/2005	Analyzed	11/19/2005 18:10
CCal Filename	U51119A_06	Injected By	BAL
Method Blank ID	BLANK-8294		

Compound	Cs	Cr	Lower Limit	Upper Limit	% Rec.
2,3,7,8-TCDF	10	10.1	7.5	15.8	101
2,3,7,8-TCDD	10	9.7	6.7	15.8	97
1,2,3,7,8-PeCDF	50	54.7	40.0	67.0	109
2,3,4,7,8-PeCDF	50	49.6	34.0	80.0	99
1,2,3,7,8-PeCDD	50	45.2	35.0	71.0	90
1,2,3,4,7,8-HxCDF	50	44.6	36.0	67.0	89
1,2,3,6,7,8-HxCDF	50	48.7	42.0	65.0	97
2,3,4,6,7,8-HxCDF	50	47.8	35.0	78.0	96
1,2,3,7,8,9-HxCDF	50	45.8	39.0	65.0	92
1,2,3,4,7,8-HxCDD	50	48.1	35.0	82.0	96
1,2,3,6,7,8-HxCDD	50	51.2	38.0	67.0	102
1,2,3,7,8,9-HxCDD	50	57.6	32.0	81.0	115
1,2,3,4,6,7,8-HpCDF	50	52.7	41.0	61.0	105
1,2,3,4,7,8,9-HpCDF	50	51.6	39.0	69.0	103
1,2,3,4,6,7,8-HpCDD	50	44.7	35.0	70.0	89
OCDF	100	86.1	63.0	170.0	86
OCDD	100	117.9	78.0	144.0	118
2,3,7,8-TCDD-37Cl4	10	7.8	3.1	19.1	78
2,3,7,8-TCDF-13C	100	80.8	22.0	152.0	81
2,3,7,8-TCDD-13C	100	85.3	20.0	175.0	85
1,2,3,7,8-PeCDF-13C	100	84.6	21.0	192.0	85
2,3,4,7,8-PeCDF-13C	100	87.8	13.0	328.0	88
1,2,3,7,8-PeCDD-13C	100	99.7	21.0	227.0	100
1,2,3,4,7,8-HxCDF-13C	100	99.4	19.0	202.0	99
1,2,3,6,7,8-HxCDF-13C	100	95.9	21.0	159.0	96
2,3,4,6,7,8-HxCDF-13C	100	88.2	22.0	176.0	88
1,2,3,7,8,9-HxCDF-13C	100	88.0	17.0	205.0	88
1,2,3,4,7,8-HxCDD-13C	100	61.4	21.0	193.0	61
1,2,3,6,7,8-HxCDD-13C	100	85.0	25.0	163.0	85
1,2,3,4,6,7,8-HpCDF-13C	100	72.5	21.0	158.0	73
1,2,3,4,7,8,9-HpCDF-13C	100	65.1	20.0	186.0	65
1,2,3,4,6,7,8-HpCDD-13C	100	85.3	26.0	166.0	85
OCDD-13C	200	149.4	26.0	397.0	75

Cs = Concentration Spiked (ng/mL)

Cr = Concentration Recovered (ng/mL)

Rec. = Recovery (Expressed as Percent)

Control Limit Reference: Method 1613, Table 6, 10/94 Revision

X = Background subtracted value

P = Recovery outside of control limits

Nn = Value obtained from additional analysis

* = See Discussion

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