Analytical Resources, Incorporated
Analytical Chemists and Consultants

January 27, 2011

Tom Colligan
Floyd Snider
601 Union Street, Suite 600
Seattle, WA 98101-2341

RE: Project: Jorgensen Forge PLO
ARI Job No: SE66

Dear Tom:

Please find enclosed analytical results and the original Chain of Custody documentation (COC) for the project referenced above. Analytical Resources, Incorporated (ARI) accepted seven water samples, ten soil samples and a trip blank on January 13, 2011. The samples were received in good condition.

The samples were analyzed for Total Metals, SVOCs, VOCs, PCBs and NWTPH-Dx, as requested.

The SVOCs water 1/20/11 CCAL is out of control low for phenol, N-Nitroso-di-n-propylamine, 2,2-oxybis (1-Chloropropane) and 2,4-Dinitrophenol are out of control low and benzo (g,h,i) perylene and dibenzo (a,h) anthracene are out of control high. All associated samples that contain analyte have been flagged with a "Q" qualifier.

The SVOCs water 1/20/11 LCS is out of control high for chrysene, Indeno (1,2,3-cd) pyrene and dibenzo (a,h) anthracene. The LCSD is in control and no action was taken.

The SVOCs 1/20/11 soil CCAL is out of control low for 2,4-Dinitrophenol and out of control high for 4-Nitrophenol and fluoranthene. All associated samples that contain analyte have been flagged with a "Q" qualifier.

The VOCs 1/17/11 CCAL is out of control low for 2-Chloroethylvinylether. All associated samples that contain analyte have been flagged with a "Q" qualifier.

The VOCs 1/17/11 LCS and LCSD are out of control low for 2-Chloroethylvinylether and out of control high for methyl iodide. No action was taken.

No other analytical complications were noted for these analyses. Quality control results are included for your review.

A copy of the reports and all associated raw data will remain on file with ARI. If you have any questions or require additional information, please contact me at your convenience.

Sincerely,

ANALYTICAL RESOURCES, INC.

Kelly Bottem
Client Services Manager
kellyb@arilabs.com
206-695-6211
Enclosures

4611 South 134th Place, Suite 100 • Tukwila WA 98168 • **206-695-6200** • **206-695-6201** fax

Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: 5F66	Turn-around Requested: STANDARD
ARI Client Company: F/S Boring	Phone: 206-292-2078
Client Contact: NICK GARSON and TOM COLLIGAN	
Client Project Name: Jorgensen Forge PLO	
Client Project #: 7KPL2JOR	Samplers: DEAN BRAME / LISA MEOLI

Page: 1 of 4	
Date: 1/13/11	Ice Present? Y
No. of Coolers: 3	Cooler Temps: 4.3, 4.3, 5.4

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Analytical Chemists and Consultants
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Tukwila, WA 98168
206-695-6200 206-695-6201 (fax)

Sample ID	Date	Time	Matrix	No. Containers	PCBs	VOCs	Metals As, Cd, Cu, Pb Ni, Zn	TPH-D	SVOCs				Notes/Comments
JF-T2B2-GW-15	1/13/11	1020	GW	5	x	x							
JF-T2B3-GW-15	↓	1125	↓	5	↓	↓							
JF-T2B3-GW-15-D	↓	1125	↓	5	↓	↓							
JF-T2B4-GW-20	↓	1325	↓	5	↓	↓							
JF-T3B4-GW-24	↓	1410	↓	5	↓	↓							
JF-T3B3-GW-15	↓	1455	↓	5	↓	↓							
JF-T3B1-SO-13-R	↓	1650	↓	8	x	x	x	x	x				

Comments/Special Instructions	Relinquished by:	Received by:	Relinquished by:	Received by:
	(Signature) [signature]	(Signature) [signature]	(Signature)	(Signature)
	Printed Name: DEAN BRAME	Printed Name: C. OREIRO	Printed Name:	Printed Name:
	Company: F/S	Company: ARI	Company:	Company:
	Date & Time: 1/13/11 1755	Date & Time: 1/13/11 1755	Date & Time:	Date & Time:

Limits of Liability: *ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, not withstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.*

Sample Retention Policy: All samples submitted to ARI will be appropriately discarded no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer, unless alternate retention schedules have been established by work-order or contract.

Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: SE66	Turn-around Requested: STANDARD	Page: 2 of 4	
ARI Client Company: F/S	Phone: 206-292-2078	Date: 1/13/11	Ice Present? U
Client Contact: NICK GARSON and TOM COLLIGAN		No. of Coolers: 3	Cooler Temps: 4.3, 4.3, 5.4
Client Project Name: Jorgensen Forge PLO			
Client Project #: 7KPL2JOR	Samplers: DEAN BRAME / LISA MEOLI		

Analytical Resources, Incorporated
Analytical Chemists and Consultants
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206-695-6200 206-695-6201 (fax)

Sample ID	Date	Time	Matrix	No. Containers	METALS As, Cd, Cu, Pb Ni, Zn	SVOCs	TPH-D	PCBs					Notes/Comments
JF-T2B1-SO-03	1/13/11	0900	SO	2	x	x	x	x					
JF-T2B1-SO-08	↓	0910	SO	↓	↓	↓	↓	↓					
JF-T2B1-SO-13	↓	0912	SO	↓	↓	↓	↓	↓					
JF-T2B2-SO-03	↓	0945	SO	↓	↓	↓	↓	↓					
JF-T2B2-SO-08	↓	0950	SO	↓	↓	↓	↓	↓					
JF-T2B2-SO-13	↓	0955	SO	↓	↓	↓	↓	↓					
JF-T2B3-SO-02	↓	1035	SO	↓	↓	↓	↓	↓					
JF-T2B3-SO-08	↓	1040	SO	↓	↓	↓	↓	↓					
JF-T2B3-SO-13	↓	1045	SO	↓	↓	↓	↓	↓					
JF-T2B4-SO-03	↓	1115	SO	↓	↓	↓	↓	↓					

Comments/Special Instructions	Relinquished by:	Received by:	Relinquished by:	Received by:
	(Signature) [signature]	(Signature) [signature]	(Signature)	(Signature)
	Printed Name: DEAN BRAME	Printed Name: C. OREIRO	Printed Name:	Printed Name:
	Company: F/S	Company: ARI	Company:	Company:
	Date & Time: 1/13/11 1755	Date & Time: 1/13/11 1755	Date & Time:	Date & Time:

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Sample Retention Policy: All samples submitted to ARI will be appropriately discarded no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer, unless alternate retention schedules have been established by work-order or contract.

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: Boeing
COC No(s): _____ (NA)
Assigned ARI Job No: SE66

Project Name: Jorgensen Forge PLO
Delivered by: Fed-Ex UPS Courier (Hand Delivered) Other: _____
Tracking No: _____ (NA)

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of to cooler?	YES	(NO)
Were custody papers included with the cooler?	(YES)	NO
Were custody papers properly filled out (ink, signed, etc.)	(YES)	NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)..... 5.9 (4.3) 4.3 ___ ___ ___

If cooler temperature is out of compliance fill out form 00070F — Temp Gun ID#: 90941619

Cooler Accepted by: [illegible] Date: 1/13/11 Time: 1755

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler?		YES	(NO)
What kind of packing material was used? ... Bubble Wrap (Wet Ice) Gel Packs Baggies Foam Block Paper Other: _____			
Was sufficient ice used (if appropriate)?	NA	(YES)	NO
Were all bottles sealed in individual plastic bags?		YES	(NO)
Did all bottles arrive in good condition (unbroken)?		(YES)	NO
Were all bottle labels complete and legible?		(YES)	NO
Did the number of containers listed on COC match with the number of containers received?		(YES)	NO
Did all bottle labels and tags agree with custody papers?		(YES)	NO
Were all bottles used correct for the requested analyses?		(YES)	NO
Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs)...	NA	(YES)	NO
Were all VOC vials free of air bubbles?	NA	(YES)	NO
Was sufficient amount of sample sent in each bottle?		(YES)	NO
Date VOC Trip Blank was made at ARI	(NA)		

Was Sample Split by ARI : (NA) YES Date/Time: _____ Equipment: _____ Split by: _____

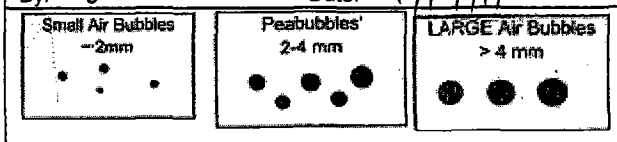
Samples Logged by: [illegible] Date: 1/14/11 Time: 1020

***** Notify Project Manager of discrepancies or concerns *****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC
Jf-T3B3-GW-23	Jf-T3B3-GW-15		

Additional Notes, Discrepancies, & Resolutions:
COC reads 8 container provided for Jf-T3B1-SO-13-R but 9 containers received

By: [illegible] Date: 1/14/11



Small → "sm"	
Peabubbles → "pb"	
Large → "lg"	
Headspace → "hs"	

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Client: The Boeing Company	**ARI Job No.:** SE66
Client Project: Jorgenson Forge PLO	**Client Project No.:** 7KPL2JOR

Case Narrative

1. Seven samples were submitted for filtering on January 14, 2011.
2. The samples were filtered using all glass filtering equipment.
3. All equipment was decontaminated prior to use.
4. All of the water was filtered through a 1µm borosilicate glass, binder free filter. All of the filters were burned at 440 °C for 15 minutes prior to use.
5. The filtered sample was then placed into appropriate sample bottles for the requested analysis.
6. There were no other noted anomalies in the samples or methods on this project.

Approved by: _____ Date: 1/19/2011
Title: *Geotechnical Laboratory Technician*

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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: JF-T2B2-GW-15**
 SAMPLE

Lab Sample ID: SE66A
LIMS ID: 11-764
Matrix: Water
Data Release Authorized:
Reported: 01/18/11

QC Report No: SE66-The Boeing Company
Project: Jorgensen Forge PLO
7KPL2JOR
Date Sampled: 01/13/11
Date Received: 01/13/11

Instrument/Analyst: NT5/PAB
Date Analyzed: 01/14/11 18:58

Sample Amount: 10.0 mL
Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result	Q
74-87-3	Chloromethane	0.5	< 0.5	U
74-83-9	Bromomethane	1.0	< 1.0	U
75-01-4	Vinyl Chloride	0.2	< 0.2	U
75-00-3	Chloroethane	0.2	< 0.2	U
75-09-2	Methylene Chloride	0.5	< 0.5	U
67-64-1	Acetone	5.0	< 5.0	U
75-15-0	Carbon Disulfide	0.2	< 0.2	U
75-35-4	1,1-Dichloroethene	0.2	< 0.2	U
75-34-3	1,1-Dichloroethane	0.2	< 0.2	U
156-60-5	trans-1,2-Dichloroethene	0.2	< 0.2	U
156-59-2	**cis-1,2-Dichloroethene**	**0.2**	**2.3**	
67-66-3	Chloroform	0.2	< 0.2	U
107-06-2	1,2-Dichloroethane	0.2	< 0.2	U
78-93-3	2-Butanone	5.0	< 5.0	U
71-55-6	1,1,1-Trichloroethane	0.2	< 0.2	U
56-23-5	Carbon Tetrachloride	0.2	< 0.2	U
108-05-4	Vinyl Acetate	1.0	< 1.0	U
75-27-4	Bromodichloromethane	0.2	< 0.2	U
78-87-5	1,2-Dichloropropane	0.2	< 0.2	U
10061-01-5	cis-1,3-Dichloropropene	0.2	< 0.2	U
79-01-6	**Trichloroethene**	**0.2**	**0.5**	
124-48-1	Dibromochloromethane	0.2	< 0.2	U
79-00-5	1,1,2-Trichloroethane	0.2	< 0.2	U
71-43-2	Benzene	0.2	< 0.2	U
10061-02-6	trans-1,3-Dichloropropene	0.2	< 0.2	U
110-75-8	2-Chloroethylvinylether	1.0	< 1.0	U
75-25-2	Bromoform	0.2	< 0.2	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.0	< 5.0	U
591-78-6	2-Hexanone	5.0	< 5.0	U
127-18-4	Tetrachloroethene	0.2	< 0.2	U
79-34-5	1,1,2,2-Tetrachloroethane	0.2	< 0.2	U
108-88-3	Toluene	0.2	< 0.2	U
108-90-7	Chlorobenzene	0.2	< 0.2	U
100-41-4	Ethylbenzene	0.2	< 0.2	U
100-42-5	Styrene	0.2	< 0.2	U
75-69-4	Trichlorofluoromethane	0.2	< 0.2	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	0.2	< 0.2	U
179601-23-1	m,p-Xylene	0.4	< 0.4	U
95-47-6	o-Xylene	0.2	< 0.2	U
95-50-1	1,2-Dichlorobenzene	0.2	< 0.2	U
541-73-1	1,3-Dichlorobenzene	0.2	< 0.2	U
106-46-7	1,4-Dichlorobenzene	0.2	< 0.2	U
107-02-8	Acrolein	5.0	< 5.0	U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: JF-T2B2-GW-15**
 SAMPLE

Lab Sample ID: SE66A
LIMS ID: 11-764
Matrix: Water
Date Analyzed: 01/14/11 18:58

QC Report No: SE66-The Boeing Company
Project: Jorgensen Forge PLO
7KPL2JOR

CAS Number	Analyte	RL	Result	Q
74-88-4	Methyl Iodide	1.0	< 1.0	U
74-96-4	Bromoethane	0.2	< 0.2	U
107-13-1	Acrylonitrile	1.0	< 1.0	U
563-58-6	1,1-Dichloropropene	0.2	< 0.2	U
74-95-3	Dibromomethane	0.2	< 0.2	U
630-20-6	1,1,1,2-Tetrachloroethane	0.2	< 0.2	U
96-12-8	1,2-Dibromo-3-chloropropane	0.5	< 0.5	U
96-18-4	1,2,3-Trichloropropane	0.5	< 0.5	U
110-57-6	trans-1,4-Dichloro-2-butene	1.0	< 1.0	U
108-67-8	1,3,5-Trimethylbenzene	0.2	< 0.2	U
95-63-6	1,2,4-Trimethylbenzene	0.2	< 0.2	U
87-68-3	Hexachlorobutadiene	0.5	< 0.5	U
106-93-4	Ethylene Dibromide	0.2	< 0.2	U
74-97-5	Bromochloromethane	0.2	< 0.2	U
594-20-7	2,2-Dichloropropane	0.2	< 0.2	U
142-28-9	1,3-Dichloropropane	0.2	< 0.2	U
98-82-8	Isopropylbenzene	0.2	< 0.2	U
103-65-1	n-Propylbenzene	0.2	< 0.2	U
108-86-1	Bromobenzene	0.2	< 0.2	U
95-49-8	2-Chlorotoluene	0.2	< 0.2	U
106-43-4	4-Chlorotoluene	0.2	< 0.2	U
98-06-6	tert-Butylbenzene	0.2	< 0.2	U
135-98-8	sec-Butylbenzene	0.2	< 0.2	U
99-87-6	4-Isopropyltoluene	0.2	< 0.2	U
104-51-8	n-Butylbenzene	0.2	< 0.2	U
120-82-1	1,2,4-Trichlorobenzene	0.5	< 0.5	U
91-20-3	Naphthalene	0.5	< 0.5	U
87-61-6	1,2,3-Trichlorobenzene	0.5	< 0.5	U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	96.2%
d8-Toluene	97.0%
Bromofluorobenzene	89.8%
d4-1,2-Dichlorobenzene	99.2%

2-Chloroethylvinylether is an acid labile compound and may not be recovered from an acid preserved sample.

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: JF-T2B3-GW-15**
 SAMPLE

Lab Sample ID: SE66B
LIMS ID: 11-765
Matrix: Water
Data Release Authorized:
Reported: 01/18/11

QC Report No: SE66-The Boeing Company
Project: Jorgensen Forge PLO
7KPL2JOR
Date Sampled: 01/13/11
Date Received: 01/13/11

Instrument/Analyst: NT5/PAB
Date Analyzed: 01/14/11 19:26

Sample Amount: 10.0 mL
Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result	Q
74-87-3	Chloromethane	0.5	< 0.5	U
74-83-9	Bromomethane	1.0	< 1.0	U
75-01-4	**Vinyl Chloride**	**0.2**	**0.3**	
75-00-3	Chloroethane	0.2	< 0.2	U
75-09-2	Methylene Chloride	0.5	< 0.5	U
67-64-1	Acetone	5.0	< 5.0	U
75-15-0	Carbon Disulfide	0.2	< 0.2	U
75-35-4	1,1-Dichloroethene	0.2	< 0.2	U
75-34-3	1,1-Dichloroethane	0.2	< 0.2	U
156-60-5	trans-1,2-Dichloroethene	0.2	< 0.2	U
156-59-2	**cis-1,2-Dichloroethene**	**0.2**	**1.3**	
67-66-3	Chloroform	0.2	< 0.2	U
107-06-2	1,2-Dichloroethane	0.2	< 0.2	U
78-93-3	2-Butanone	5.0	< 5.0	U
71-55-6	1,1,1-Trichloroethane	0.2	< 0.2	U
56-23-5	Carbon Tetrachloride	0.2	< 0.2	U
108-05-4	Vinyl Acetate	1.0	< 1.0	U
75-27-4	Bromodichloromethane	0.2	< 0.2	U
78-87-5	1,2-Dichloropropane	0.2	< 0.2	U
10061-01-5	cis-1,3-Dichloropropene	0.2	< 0.2	U
79-01-6	**Trichloroethene**	**0.2**	**4.4**	
124-48-1	Dibromochloromethane	0.2	< 0.2	U
79-00-5	1,1,2-Trichloroethane	0.2	< 0.2	U
71-43-2	Benzene	0.2	< 0.2	U
10061-02-6	trans-1,3-Dichloropropene	0.2	< 0.2	U
110-75-8	2-Chloroethylvinylether	1.0	< 1.0	U
75-25-2	Bromoform	0.2	< 0.2	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.0	< 5.0	U
591-78-6	2-Hexanone	5.0	< 5.0	U
127-18-4	**Tetrachloroethene**	**0.2**	**0.8**	
79-34-5	1,1,2,2-Tetrachloroethane	0.2	< 0.2	U
108-88-3	Toluene	0.2	< 0.2	U
108-90-7	Chlorobenzene	0.2	< 0.2	U
100-41-4	Ethylbenzene	0.2	< 0.2	U
100-42-5	Styrene	0.2	< 0.2	U
75-69-4	Trichlorofluoromethane	0.2	< 0.2	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	0.2	< 0.2	U
179601-23-1	m,p-Xylene	0.4	< 0.4	U
95-47-6	o-Xylene	0.2	< 0.2	U
95-50-1	1,2-Dichlorobenzene	0.2	< 0.2	U
541-73-1	1,3-Dichlorobenzene	0.2	< 0.2	U
106-46-7	1,4-Dichlorobenzene	0.2	< 0.2	U
107-02-8	Acrolein	5.0	< 5.0	U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: JF-T2B3-GW-15**
 SAMPLE

Lab Sample ID: SE66B
LIMS ID: 11-765
Matrix: Water
Date Analyzed: 01/14/11 19:26

QC Report No: SE66-The Boeing Company
Project: Jorgensen Forge PLO
7KPL2JOR

CAS Number	Analyte	RL	Result	Q
74-88-4	Methyl Iodide	1.0	< 1.0	U
74-96-4	Bromoethane	0.2	< 0.2	U
107-13-1	Acrylonitrile	1.0	< 1.0	U
563-58-6	1,1-Dichloropropene	0.2	< 0.2	U
74-95-3	Dibromomethane	0.2	< 0.2	U
630-20-6	1,1,1,2-Tetrachloroethane	0.2	< 0.2	U
96-12-8	1,2-Dibromo-3-chloropropane	0.5	< 0.5	U
96-18-4	1,2,3-Trichloropropane	0.5	< 0.5	U
110-57-6	trans-1,4-Dichloro-2-butene	1.0	< 1.0	U
108-67-8	1,3,5-Trimethylbenzene	0.2	< 0.2	U
95-63-6	1,2,4-Trimethylbenzene	0.2	< 0.2	U
87-68-3	Hexachlorobutadiene	0.5	< 0.5	U
106-93-4	Ethylene Dibromide	0.2	< 0.2	U
74-97-5	Bromochloromethane	0.2	< 0.2	U
594-20-7	2,2-Dichloropropane	0.2	< 0.2	U
142-28-9	1,3-Dichloropropane	0.2	< 0.2	U
98-82-8	Isopropylbenzene	0.2	< 0.2	U
103-65-1	n-Propylbenzene	0.2	< 0.2	U
108-86-1	Bromobenzene	0.2	< 0.2	U
95-49-8	2-Chlorotoluene	0.2	< 0.2	U
106-43-4	4-Chlorotoluene	0.2	< 0.2	U
98-06-6	tert-Butylbenzene	0.2	< 0.2	U
135-98-8	sec-Butylbenzene	0.2	< 0.2	U
99-87-6	4-Isopropyltoluene	0.2	< 0.2	U
104-51-8	n-Butylbenzene	0.2	< 0.2	U
120-82-1	1,2,4-Trichlorobenzene	0.5	< 0.5	U
91-20-3	Naphthalene	0.5	< 0.5	U
87-61-6	1,2,3-Trichlorobenzene	0.5	< 0.5	U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	98.1%
d8-Toluene	94.5%
Bromofluorobenzene	88.9%
d4-1,2-Dichlorobenzene	99.6%

2-Chloroethylvinylether is an acid labile compound and may not be recovered from an acid preserved sample.

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: JF-T2B3-GW-15-D**
 SAMPLE

Lab Sample ID: SE66C
LIMS ID: 11-766
Matrix: Water
Data Release Authorized:
Reported: 01/18/11

QC Report No: SE66-The Boeing Company
Project: Jorgensen Forge PLO
7KPL2JOR
Date Sampled: 01/13/11
Date Received: 01/13/11

Instrument/Analyst: NT5/PAB
Date Analyzed: 01/14/11 19:53

Sample Amount: 10.0 mL
Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result	Q
74-87-3	Chloromethane	0.5	< 0.5	U
74-83-9	Bromomethane	1.0	< 1.0	U
75-01-4	**Vinyl Chloride**	**0.2**	**0.3**	
75-00-3	Chloroethane	0.2	< 0.2	U
75-09-2	Methylene Chloride	0.5	< 0.5	U
67-64-1	Acetone	5.0	< 5.0	U
75-15-0	Carbon Disulfide	0.2	< 0.2	U
75-35-4	1,1-Dichloroethene	0.2	< 0.2	U
75-34-3	1,1-Dichloroethane	0.2	< 0.2	U
156-60-5	trans-1,2-Dichloroethene	0.2	< 0.2	U
156-59-2	**cis-1,2-Dichloroethene**	**0.2**	**1.3**	
67-66-3	Chloroform	0.2	< 0.2	U
107-06-2	1,2-Dichloroethane	0.2	< 0.2	U
78-93-3	2-Butanone	5.0	< 5.0	U
71-55-6	1,1,1-Trichloroethane	0.2	< 0.2	U
56-23-5	Carbon Tetrachloride	0.2	< 0.2	U
108-05-4	Vinyl Acetate	1.0	< 1.0	U
75-27-4	Bromodichloromethane	0.2	< 0.2	U
78-87-5	1,2-Dichloropropane	0.2	< 0.2	U
10061-01-5	cis-1,3-Dichloropropene	0.2	< 0.2	U
79-01-6	**Trichloroethene**	**0.2**	**4.5**	
124-48-1	Dibromochloromethane	0.2	< 0.2	U
79-00-5	1,1,2-Trichloroethane	0.2	< 0.2	U
71-43-2	Benzene	0.2	< 0.2	U
10061-02-6	trans-1,3-Dichloropropene	0.2	< 0.2	U
110-75-8	2-Chloroethylvinylether	1.0	< 1.0	U
75-25-2	Bromoform	0.2	< 0.2	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.0	< 5.0	U
591-78-6	2-Hexanone	5.0	< 5.0	U
127-18-4	**Tetrachloroethene**	**0.2**	**0.8**	
79-34-5	1,1,2,2-Tetrachloroethane	0.2	< 0.2	U
108-88-3	Toluene	0.2	< 0.2	U
108-90-7	Chlorobenzene	0.2	< 0.2	U
100-41-4	Ethylbenzene	0.2	< 0.2	U
100-42-5	Styrene	0.2	< 0.2	U
75-69-4	Trichlorofluoromethane	0.2	< 0.2	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	0.2	< 0.2	U
179601-23-1	m,p-Xylene	0.4	< 0.4	U
95-47-6	o-Xylene	0.2	< 0.2	U
95-50-1	1,2-Dichlorobenzene	0.2	< 0.2	U
541-73-1	1,3-Dichlorobenzene	0.2	< 0.2	U
106-46-7	1,4-Dichlorobenzene	0.2	< 0.2	U
107-02-8	Acrolein	5.0	< 5.0	U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: JF-T2B3-GW-15-D**
 SAMPLE

Lab Sample ID: SE66C
LIMS ID: 11-766
Matrix: Water
Date Analyzed: 01/14/11 19:53

QC Report No: SE66-The Boeing Company
Project: Jorgensen Forge PLO
7KPL2JOR

CAS Number	Analyte	RL	Result	Q
74-88-4	Methyl Iodide	1.0	< 1.0	U
74-96-4	Bromoethane	0.2	< 0.2	U
107-13-1	Acrylonitrile	1.0	< 1.0	U
563-58-6	1,1-Dichloropropene	0.2	< 0.2	U
74-95-3	Dibromomethane	0.2	< 0.2	U
630-20-6	1,1,1,2-Tetrachloroethane	0.2	< 0.2	U
96-12-8	1,2-Dibromo-3-chloropropane	0.5	< 0.5	U
96-18-4	1,2,3-Trichloropropane	0.5	< 0.5	U
110-57-6	trans-1,4-Dichloro-2-butene	1.0	< 1.0	U
108-67-8	1,3,5-Trimethylbenzene	0.2	< 0.2	U
95-63-6	1,2,4-Trimethylbenzene	0.2	< 0.2	U
87-68-3	Hexachlorobutadiene	0.5	< 0.5	U
106-93-4	Ethylene Dibromide	0.2	< 0.2	U
74-97-5	Bromochloromethane	0.2	< 0.2	U
594-20-7	2,2-Dichloropropane	0.2	< 0.2	U
142-28-9	1,3-Dichloropropane	0.2	< 0.2	U
98-82-8	Isopropylbenzene	0.2	< 0.2	U
103-65-1	n-Propylbenzene	0.2	< 0.2	U
108-86-1	Bromobenzene	0.2	< 0.2	U
95-49-8	2-Chlorotoluene	0.2	< 0.2	U
106-43-4	4-Chlorotoluene	0.2	< 0.2	U
98-06-6	tert-Butylbenzene	0.2	< 0.2	U
135-98-8	sec-Butylbenzene	0.2	< 0.2	U
99-87-6	4-Isopropyltoluene	0.2	< 0.2	U
104-51-8	n-Butylbenzene	0.2	< 0.2	U
120-82-1	1,2,4-Trichlorobenzene	0.5	< 0.5	U
91-20-3	Naphthalene	0.5	< 0.5	U
87-61-6	1,2,3-Trichlorobenzene	0.5	< 0.5	U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	97.9%
d8-Toluene	92.9%
Bromofluorobenzene	86.8%
d4-1,2-Dichlorobenzene	101%

2-Chloroethylvinylether is an acid labile compound and may not be recovered from an acid preserved sample.

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: JF-T2B4-GW-20**
 SAMPLE

Lab Sample ID: SE66D
LIMS ID: 11-767
Matrix: Water
Data Release Authorized:
Reported: 01/18/11

QC Report No: SE66-The Boeing Company
Project: Jorgensen Forge PLO
7KPL2JOR
Date Sampled: 01/13/11
Date Received: 01/13/11

Instrument/Analyst: NT5/PAB
Date Analyzed: 01/14/11 20:21

Sample Amount: 10.0 mL
Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result	Q
74-87-3	Chloromethane	0.5	< 0.5	U
74-83-9	Bromomethane	1.0	< 1.0	U
75-01-4	Vinyl Chloride	0.2	< 0.2	U
75-00-3	Chloroethane	0.2	< 0.2	U
75-09-2	Methylene Chloride	0.5	< 0.5	U
67-64-1	Acetone	5.0	< 5.0	U
75-15-0	Carbon Disulfide	0.2	< 0.2	U
75-35-4	1,1-Dichloroethene	0.2	< 0.2	U
75-34-3	1,1-Dichloroethane	0.2	< 0.2	U
156-60-5	trans-1,2-Dichloroethene	0.2	< 0.2	U
156-59-2	**cis-1,2-Dichloroethene**	**0.2**	**0.4**	
67-66-3	Chloroform	0.2	< 0.2	U
107-06-2	1,2-Dichloroethane	0.2	< 0.2	U
78-93-3	2-Butanone	5.0	< 5.0	U
71-55-6	1,1,1-Trichloroethane	0.2	< 0.2	U
56-23-5	Carbon Tetrachloride	0.2	< 0.2	U
108-05-4	Vinyl Acetate	1.0	< 1.0	U
75-27-4	Bromodichloromethane	0.2	< 0.2	U
78-87-5	1,2-Dichloropropane	0.2	< 0.2	U
10061-01-5	cis-1,3-Dichloropropene	0.2	< 0.2	U
79-01-6	**Trichloroethene**	**0.2**	**1.0**	
124-48-1	Dibromochloromethane	0.2	< 0.2	U
79-00-5	1,1,2-Trichloroethane	0.2	< 0.2	U
71-43-2	Benzene	0.2	< 0.2	U
10061-02-6	trans-1,3-Dichloropropene	0.2	< 0.2	U
110-75-8	2-Chloroethylvinylether	1.0	< 1.0	U
75-25-2	Bromoform	0.2	< 0.2	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.0	< 5.0	U
591-78-6	2-Hexanone	5.0	< 5.0	U
127-18-4	Tetrachloroethene	0.2	< 0.2	U
79-34-5	1,1,2,2-Tetrachloroethane	0.2	< 0.2	U
108-88-3	Toluene	0.2	< 0.2	U
108-90-7	Chlorobenzene	0.2	< 0.2	U
100-41-4	Ethylbenzene	0.2	< 0.2	U
100-42-5	Styrene	0.2	< 0.2	U
75-69-4	Trichlorofluoromethane	0.2	< 0.2	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	0.2	< 0.2	U
179601-23-1	m,p-Xylene	0.4	< 0.4	U
95-47-6	o-Xylene	0.2	< 0.2	U
95-50-1	1,2-Dichlorobenzene	0.2	< 0.2	U
541-73-1	1,3-Dichlorobenzene	0.2	< 0.2	U
106-46-7	1,4-Dichlorobenzene	0.2	< 0.2	U
107-02-8	Acrolein	5.0	< 5.0	U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: JF-T2B4-GW-20**
 SAMPLE

Lab Sample ID: SE66D
LIMS ID: 11-767
Matrix: Water
Date Analyzed: 01/14/11 20:21

QC Report No: SE66-The Boeing Company
Project: Jorgensen Forge PLO
7KPL2JOR

CAS Number	Analyte	RL	Result	Q
74-88-4	Methyl Iodide	1.0	< 1.0	U
74-96-4	Bromoethane	0.2	< 0.2	U
107-13-1	Acrylonitrile	1.0	< 1.0	U
563-58-6	1,1-Dichloropropene	0.2	< 0.2	U
74-95-3	Dibromomethane	0.2	< 0.2	U
630-20-6	1,1,1,2-Tetrachloroethane	0.2	< 0.2	U
96-12-8	1,2-Dibromo-3-chloropropane	0.5	< 0.5	U
96-18-4	1,2,3-Trichloropropane	0.5	< 0.5	U
110-57-6	trans-1,4-Dichloro-2-butene	1.0	< 1.0	U
108-67-8	1,3,5-Trimethylbenzene	0.2	< 0.2	U
95-63-6	1,2,4-Trimethylbenzene	0.2	< 0.2	U
87-68-3	Hexachlorobutadiene	0.5	< 0.5	U
106-93-4	Ethylene Dibromide	0.2	< 0.2	U
74-97-5	Bromochloromethane	0.2	< 0.2	U
594-20-7	2,2-Dichloropropane	0.2	< 0.2	U
142-28-9	1,3-Dichloropropane	0.2	< 0.2	U
98-82-8	Isopropylbenzene	0.2	< 0.2	U
103-65-1	n-Propylbenzene	0.2	< 0.2	U
108-86-1	Bromobenzene	0.2	< 0.2	U
95-49-8	2-Chlorotoluene	0.2	< 0.2	U
106-43-4	4-Chlorotoluene	0.2	< 0.2	U
98-06-6	tert-Butylbenzene	0.2	< 0.2	U
135-98-8	sec-Butylbenzene	0.2	< 0.2	U
99-87-6	4-Isopropyltoluene	0.2	< 0.2	U
104-51-8	n-Butylbenzene	0.2	< 0.2	U
120-82-1	1,2,4-Trichlorobenzene	0.5	< 0.5	U
91-20-3	Naphthalene	0.5	< 0.5	U
87-61-6	1,2,3-Trichlorobenzene	0.5	< 0.5	U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	99.1%
d8-Toluene	95.0%
Bromofluorobenzene	86.9%
d4-1,2-Dichlorobenzene	97.2%

2-Chloroethylvinylether is an acid labile compound and may not be recovered from an acid preserved sample.

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: JF-T3B4-GW-24**
 SAMPLE

Lab Sample ID: SE66E
LIMS ID: 11-768
Matrix: Water
Data Release Authorized:
Reported: 01/18/11

QC Report No: SE66-The Boeing Company
Project: Jorgensen Forge PLO
7KPL2JOR
Date Sampled: 01/13/11
Date Received: 01/13/11

Instrument/Analyst: NT5/PAB
Date Analyzed: 01/14/11 20:48

Sample Amount: 10.0 mL
Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result	Q
74-87-3	Chloromethane	0.5	< 0.5	U
74-83-9	Bromomethane	1.0	< 1.0	U
75-01-4	Vinyl Chloride	0.2	< 0.2	U
75-00-3	Chloroethane	0.2	< 0.2	U
75-09-2	Methylene Chloride	0.5	< 0.5	U
67-64-1	Acetone	5.0	< 5.0	U
75-15-0	Carbon Disulfide	0.2	< 0.2	U
75-35-4	1,1-Dichloroethene	0.2	< 0.2	U
75-34-3	1,1-Dichloroethane	0.2	< 0.2	U
156-60-5	trans-1,2-Dichloroethene	0.2	< 0.2	U
156-59-2	cis-1,2-Dichloroethene	0.2	< 0.2	U
67-66-3	Chloroform	0.2	< 0.2	U
107-06-2	1,2-Dichloroethane	0.2	< 0.2	U
78-93-3	2-Butanone	5.0	< 5.0	U
71-55-6	1,1,1-Trichloroethane	0.2	< 0.2	U
56-23-5	Carbon Tetrachloride	0.2	< 0.2	U
108-05-4	Vinyl Acetate	1.0	< 1.0	U
75-27-4	Bromodichloromethane	0.2	< 0.2	U
78-87-5	1,2-Dichloropropane	0.2	< 0.2	U
10061-01-5	cis-1,3-Dichloropropene	0.2	< 0.2	U
79-01-6	**Trichloroethene**	**0.2**	**0.2**	
124-48-1	Dibromochloromethane	0.2	< 0.2	U
79-00-5	1,1,2-Trichloroethane	0.2	< 0.2	U
71-43-2	Benzene	0.2	< 0.2	U
10061-02-6	trans-1,3-Dichloropropene	0.2	< 0.2	U
110-75-8	2-Chloroethylvinylether	1.0	< 1.0	U
75-25-2	Bromoform	0.2	< 0.2	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.0	< 5.0	U
591-78-6	2-Hexanone	5.0	< 5.0	U
127-18-4	Tetrachloroethene	0.2	< 0.2	U
79-34-5	1,1,2,2-Tetrachloroethane	0.2	< 0.2	U
108-88-3	Toluene	0.2	< 0.2	U
108-90-7	Chlorobenzene	0.2	< 0.2	U
100-41-4	Ethylbenzene	0.2	< 0.2	U
100-42-5	Styrene	0.2	< 0.2	U
75-69-4	Trichlorofluoromethane	0.2	< 0.2	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	0.2	< 0.2	U
179601-23-1	m,p-Xylene	0.4	< 0.4	U
95-47-6	o-Xylene	0.2	< 0.2	U
95-50-1	1,2-Dichlorobenzene	0.2	< 0.2	U
541-73-1	1,3-Dichlorobenzene	0.2	< 0.2	U
106-46-7	1,4-Dichlorobenzene	0.2	< 0.2	U
107-02-8	Acrolein	5.0	< 5.0	U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: JF-T3B4-GW-24**
 SAMPLE

Lab Sample ID: SE66E
LIMS ID: 11-768
Matrix: Water
Date Analyzed: 01/14/11 20:48

QC Report No: SE66-The Boeing Company
Project: Jorgensen Forge PLO
7KPL2JOR

CAS Number	Analyte	RL	Result	Q
74-88-4	Methyl Iodide	1.0	< 1.0	U
74-96-4	Bromoethane	0.2	< 0.2	U
107-13-1	Acrylonitrile	1.0	< 1.0	U
563-58-6	1,1-Dichloropropene	0.2	< 0.2	U
74-95-3	Dibromomethane	0.2	< 0.2	U
630-20-6	1,1,1,2-Tetrachloroethane	0.2	< 0.2	U
96-12-8	1,2-Dibromo-3-chloropropane	0.5	< 0.5	U
96-18-4	1,2,3-Trichloropropane	0.5	< 0.5	U
110-57-6	trans-1,4-Dichloro-2-butene	1.0	< 1.0	U
108-67-8	1,3,5-Trimethylbenzene	0.2	< 0.2	U
95-63-6	1,2,4-Trimethylbenzene	0.2	< 0.2	U
87-68-3	Hexachlorobutadiene	0.5	< 0.5	U
106-93-4	Ethylene Dibromide	0.2	< 0.2	U
74-97-5	Bromochloromethane	0.2	< 0.2	U
594-20-7	2,2-Dichloropropane	0.2	< 0.2	U
142-28-9	1,3-Dichloropropane	0.2	< 0.2	U
98-82-8	Isopropylbenzene	0.2	< 0.2	U
103-65-1	n-Propylbenzene	0.2	< 0.2	U
108-86-1	Bromobenzene	0.2	< 0.2	U
95-49-8	2-Chlorotoluene	0.2	< 0.2	U
106-43-4	4-Chlorotoluene	0.2	< 0.2	U
98-06-6	tert-Butylbenzene	0.2	< 0.2	U
135-98-8	sec-Butylbenzene	0.2	< 0.2	U
99-87-6	4-Isopropyltoluene	0.2	< 0.2	U
104-51-8	n-Butylbenzene	0.2	< 0.2	U
120-82-1	1,2,4-Trichlorobenzene	0.5	< 0.5	U
91-20-3	Naphthalene	0.5	< 0.5	U
87-61-6	1,2,3-Trichlorobenzene	0.5	< 0.5	U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	98.9%
d8-Toluene	96.3%
Bromofluorobenzene	88.6%
d4-1,2-Dichlorobenzene	100%

2-Chloroethylvinylether is an acid labile compound and may not be recovered from an acid preserved sample.

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: JF-T3B3-GW-15**
 SAMPLE

Lab Sample ID: SE66F
LIMS ID: 11-769
Matrix: Water
Data Release Authorized:
Reported: 01/18/11

QC Report No: SE66-The Boeing Company
Project: Jorgensen Forge PLO
7KPL2JOR
Date Sampled: 01/13/11
Date Received: 01/13/11

Instrument/Analyst: NT5/PAB
Date Analyzed: 01/14/11 21:16

Sample Amount: 10.0 mL
Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result	Q
74-87-3	Chloromethane	0.5	< 0.5	U
74-83-9	Bromomethane	1.0	< 1.0	U
75-01-4	Vinyl Chloride	0.2	< 0.2	U
75-00-3	Chloroethane	0.2	< 0.2	U
75-09-2	Methylene Chloride	0.5	< 0.5	U
67-64-1	Acetone	5.0	< 5.0	U
75-15-0	Carbon Disulfide	0.2	< 0.2	U
75-35-4	1,1-Dichloroethene	0.2	< 0.2	U
75-34-3	1,1-Dichloroethane	0.2	< 0.2	U
156-60-5	trans-1,2-Dichloroethene	0.2	< 0.2	U
156-59-2	cis-1,2-Dichloroethene	0.2	< 0.2	U
67-66-3	Chloroform	0.2	< 0.2	U
107-06-2	1,2-Dichloroethane	0.2	< 0.2	U
78-93-3	2-Butanone	5.0	< 5.0	U
71-55-6	1,1,1-Trichloroethane	0.2	< 0.2	U
56-23-5	Carbon Tetrachloride	0.2	< 0.2	U
108-05-4	Vinyl Acetate	1.0	< 1.0	U
75-27-4	Bromodichloromethane	0.2	< 0.2	U
78-87-5	1,2-Dichloropropane	0.2	< 0.2	U
10061-01-5	cis-1,3-Dichloropropene	0.2	< 0.2	U
79-01-6	**Trichloroethene**	**0.2**	**0.6**	
124-48-1	Dibromochloromethane	0.2	< 0.2	U
79-00-5	1,1,2-Trichloroethane	0.2	< 0.2	U
71-43-2	Benzene	0.2	< 0.2	U
10061-02-6	trans-1,3-Dichloropropene	0.2	< 0.2	U
110-75-8	2-Chloroethylvinylether	1.0	< 1.0	U
75-25-2	Bromoform	0.2	< 0.2	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.0	< 5.0	U
591-78-6	2-Hexanone	5.0	< 5.0	U
127-18-4	Tetrachloroethene	0.2	< 0.2	U
79-34-5	1,1,2,2-Tetrachloroethane	0.2	< 0.2	U
108-88-3	Toluene	0.2	< 0.2	U
108-90-7	Chlorobenzene	0.2	< 0.2	U
100-41-4	Ethylbenzene	0.2	< 0.2	U
100-42-5	Styrene	0.2	< 0.2	U
75-69-4	Trichlorofluoromethane	0.2	< 0.2	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	0.2	< 0.2	U
179601-23-1	m,p-Xylene	0.4	< 0.4	U
95-47-6	o-Xylene	0.2	< 0.2	U
95-50-1	1,2-Dichlorobenzene	0.2	< 0.2	U
541-73-1	1,3-Dichlorobenzene	0.2	< 0.2	U
106-46-7	1,4-Dichlorobenzene	0.2	< 0.2	U
107-02-8	Acrolein	5.0	< 5.0	U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: JF-T3B3-GW-15**
 SAMPLE

Lab Sample ID: SE66F
LIMS ID: 11-769
Matrix: Water
Date Analyzed: 01/14/11 21:16

QC Report No: SE66-The Boeing Company
Project: Jorgensen Forge PLO
7KPL2JOR

CAS Number	Analyte	RL	Result	Q
74-88-4	Methyl Iodide	1.0	< 1.0	U
74-96-4	Bromoethane	0.2	< 0.2	U
107-13-1	Acrylonitrile	1.0	< 1.0	U
563-58-6	1,1-Dichloropropene	0.2	< 0.2	U
74-95-3	Dibromomethane	0.2	< 0.2	U
630-20-6	1,1,1,2-Tetrachloroethane	0.2	< 0.2	U
96-12-8	1,2-Dibromo-3-chloropropane	0.5	< 0.5	U
96-18-4	1,2,3-Trichloropropane	0.5	< 0.5	U
110-57-6	trans-1,4-Dichloro-2-butene	1.0	< 1.0	U
108-67-8	1,3,5-Trimethylbenzene	0.2	< 0.2	U
95-63-6	1,2,4-Trimethylbenzene	0.2	< 0.2	U
87-68-3	Hexachlorobutadiene	0.5	< 0.5	U
106-93-4	Ethylene Dibromide	0.2	< 0.2	U
74-97-5	Bromochloromethane	0.2	< 0.2	U
594-20-7	2,2-Dichloropropane	0.2	< 0.2	U
142-28-9	1,3-Dichloropropane	0.2	< 0.2	U
98-82-8	Isopropylbenzene	0.2	< 0.2	U
103-65-1	n-Propylbenzene	0.2	< 0.2	U
108-86-1	Bromobenzene	0.2	< 0.2	U
95-49-8	2-Chlorotoluene	0.2	< 0.2	U
106-43-4	4-Chlorotoluene	0.2	< 0.2	U
98-06-6	tert-Butylbenzene	0.2	< 0.2	U
135-98-8	sec-Butylbenzene	0.2	< 0.2	U
99-87-6	4-Isopropyltoluene	0.2	< 0.2	U
104-51-8	n-Butylbenzene	0.2	< 0.2	U
120-82-1	1,2,4-Trichlorobenzene	0.5	< 0.5	U
91-20-3	Naphthalene	0.5	< 0.5	U
87-61-6	1,2,3-Trichlorobenzene	0.5	< 0.5	U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	100%
d8-Toluene	95.4%
Bromofluorobenzene	87.8%
d4-1,2-Dichlorobenzene	100%

2-Chloroethylvinylether is an acid labile compound and may not be recovered from an acid preserved sample.

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: JF-T3B1-SO-13-R**
 SAMPLE

Lab Sample ID: SE66G
LIMS ID: 11-770
Matrix: Water
Data Release Authorized:
Reported: 01/18/11

QC Report No: SE66-The Boeing Company
Project: Jorgensen Forge PLO
7KPL2JOR
Date Sampled: 01/13/11
Date Received: 01/13/11

Instrument/Analyst: NT5/PAB
Date Analyzed: 01/17/11 09:58

Sample Amount: 10.0 mL
Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result	Q
74-87-3	Chloromethane	0.5	< 0.5	U
74-83-9	Bromomethane	1.0	< 1.0	U
75-01-4	Vinyl Chloride	0.2	< 0.2	U
75-00-3	Chloroethane	0.2	< 0.2	U
75-09-2	Methylene Chloride	0.5	< 0.5	U
67-64-1	Acetone	5.0	< 5.0	U
75-15-0	Carbon Disulfide	0.2	< 0.2	U
75-35-4	1,1-Dichloroethene	0.2	< 0.2	U
75-34-3	1,1-Dichloroethane	0.2	< 0.2	U
156-60-5	trans-1,2-Dichloroethene	0.2	< 0.2	U
156-59-2	cis-1,2-Dichloroethene	0.2	< 0.2	U
67-66-3	Chloroform	0.2	< 0.2	U
107-06-2	1,2-Dichloroethane	0.2	< 0.2	U
78-93-3	2-Butanone	5.0	< 5.0	U
71-55-6	1,1,1-Trichloroethane	0.2	< 0.2	U
56-23-5	Carbon Tetrachloride	0.2	< 0.2	U
108-05-4	Vinyl Acetate	1.0	< 1.0	U
75-27-4	Bromodichloromethane	0.2	< 0.2	U
78-87-5	1,2-Dichloropropane	0.2	< 0.2	U
10061-01-5	cis-1,3-Dichloropropene	0.2	< 0.2	U
79-01-6	Trichloroethene	0.2	< 0.2	U
124-48-1	Dibromochloromethane	0.2	< 0.2	U
79-00-5	1,1,2-Trichloroethane	0.2	< 0.2	U
71-43-2	Benzene	0.2	< 0.2	U
10061-02-6	trans-1,3-Dichloropropene	0.2	< 0.2	U
110-75-8	2-Chloroethylvinylether	1.0	< 1.0	U
75-25-2	Bromoform	0.2	< 0.2	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.0	< 5.0	U
591-78-6	2-Hexanone	5.0	< 5.0	U
127-18-4	Tetrachloroethene	0.2	< 0.2	U
79-34-5	1,1,2,2-Tetrachloroethane	0.2	< 0.2	U
108-88-3	Toluene	0.2	< 0.2	U
108-90-7	Chlorobenzene	0.2	< 0.2	U
100-41-4	Ethylbenzene	0.2	< 0.2	U
100-42-5	Styrene	0.2	< 0.2	U
75-69-4	Trichlorofluoromethane	0.2	< 0.2	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	0.2	< 0.2	U
179601-23-1	m,p-Xylene	0.4	< 0.4	U
95-47-6	o-Xylene	0.2	< 0.2	U
95-50-1	1,2-Dichlorobenzene	0.2	< 0.2	U
541-73-1	1,3-Dichlorobenzene	0.2	< 0.2	U
106-46-7	1,4-Dichlorobenzene	0.2	< 0.2	U
107-02-8	Acrolein	5.0	< 5.0	U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: JF-T3B1-SO-13-R**
 SAMPLE

Lab Sample ID: SE66G
LIMS ID: 11-770
Matrix: Water
Date Analyzed: 01/17/11 09:58

QC Report No: SE66-The Boeing Company
Project: Jorgensen Forge PLO
7KPL2JOR

CAS Number	Analyte	RL	Result	Q
74-88-4	Methyl Iodide	1.0	< 1.0	U
74-96-4	Bromoethane	0.2	< 0.2	U
107-13-1	Acrylonitrile	1.0	< 1.0	U
563-58-6	1,1-Dichloropropene	0.2	< 0.2	U
74-95-3	Dibromomethane	0.2	< 0.2	U
630-20-6	1,1,1,2-Tetrachloroethane	0.2	< 0.2	U
96-12-8	1,2-Dibromo-3-chloropropane	0.5	< 0.5	U
96-18-4	1,2,3-Trichloropropane	0.5	< 0.5	U
110-57-6	trans-1,4-Dichloro-2-butene	1.0	< 1.0	U
108-67-8	1,3,5-Trimethylbenzene	0.2	< 0.2	U
95-63-6	1,2,4-Trimethylbenzene	0.2	< 0.2	U
87-68-3	Hexachlorobutadiene	0.5	< 0.5	U
106-93-4	Ethylene Dibromide	0.2	< 0.2	U
74-97-5	Bromochloromethane	0.2	< 0.2	U
594-20-7	2,2-Dichloropropane	0.2	< 0.2	U
142-28-9	1,3-Dichloropropane	0.2	< 0.2	U
98-82-8	Isopropylbenzene	0.2	< 0.2	U
103-65-1	n-Propylbenzene	0.2	< 0.2	U
108-86-1	Bromobenzene	0.2	< 0.2	U
95-49-8	2-Chlorotoluene	0.2	< 0.2	U
106-43-4	4-Chlorotoluene	0.2	< 0.2	U
98-06-6	tert-Butylbenzene	0.2	< 0.2	U
135-98-8	sec-Butylbenzene	0.2	< 0.2	U
99-87-6	4-Isopropyltoluene	0.2	< 0.2	U
104-51-8	n-Butylbenzene	0.2	< 0.2	U
120-82-1	1,2,4-Trichlorobenzene	0.5	< 0.5	U
91-20-3	Naphthalene	0.5	< 0.5	U
87-61-6	1,2,3-Trichlorobenzene	0.5	< 0.5	U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	97.3%
d8-Toluene	95.1%
Bromofluorobenzene	87.7%
d4-1,2-Dichlorobenzene	98.0%

2-Chloroethylvinylether is an acid labile compound and may not be recovered from an acid preserved sample.

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: Trip Blank**
 SAMPLE

Lab Sample ID: SE66R
LIMS ID: 11-796
Matrix: Water
Data Release Authorized:
Reported: 01/18/11

QC Report No: SE66-The Boeing Company
Project: Jorgensen Forge PLO
7KPL2JOR
Date Sampled: 01/13/11
Date Received: 01/13/11

Instrument/Analyst: NT5/PAB
Date Analyzed: 01/17/11 10:25

Sample Amount: 10.0 mL
Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result	Q
74-87-3	Chloromethane	0.5	< 0.5	U
74-83-9	Bromomethane	1.0	< 1.0	U
75-01-4	Vinyl Chloride	0.2	< 0.2	U
75-00-3	Chloroethane	0.2	< 0.2	U
75-09-2	Methylene Chloride	0.5	< 0.5	U
67-64-1	Acetone	5.0	< 5.0	U
75-15-0	Carbon Disulfide	0.2	< 0.2	U
75-35-4	1,1-Dichloroethene	0.2	< 0.2	U
75-34-3	1,1-Dichloroethane	0.2	< 0.2	U
156-60-5	trans-1,2-Dichloroethene	0.2	< 0.2	U
156-59-2	cis-1,2-Dichloroethene	0.2	< 0.2	U
67-66-3	Chloroform	0.2	< 0.2	U
107-06-2	1,2-Dichloroethane	0.2	< 0.2	U
78-93-3	2-Butanone	5.0	< 5.0	U
71-55-6	1,1,1-Trichloroethane	0.2	< 0.2	U
56-23-5	Carbon Tetrachloride	0.2	< 0.2	U
108-05-4	Vinyl Acetate	1.0	< 1.0	U
75-27-4	Bromodichloromethane	0.2	< 0.2	U
78-87-5	1,2-Dichloropropane	0.2	< 0.2	U
10061-01-5	cis-1,3-Dichloropropene	0.2	< 0.2	U
79-01-6	Trichloroethene	0.2	< 0.2	U
124-48-1	Dibromochloromethane	0.2	< 0.2	U
79-00-5	1,1,2-Trichloroethane	0.2	< 0.2	U
71-43-2	Benzene	0.2	< 0.2	U
10061-02-6	trans-1,3-Dichloropropene	0.2	< 0.2	U
110-75-8	2-Chloroethylvinylether	1.0	< 1.0	U
75-25-2	Bromoform	0.2	< 0.2	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.0	< 5.0	U
591-78-6	2-Hexanone	5.0	< 5.0	U
127-18-4	Tetrachloroethene	0.2	< 0.2	U
79-34-5	1,1,2,2-Tetrachloroethane	0.2	< 0.2	U
108-88-3	Toluene	0.2	< 0.2	U
108-90-7	Chlorobenzene	0.2	< 0.2	U
100-41-4	Ethylbenzene	0.2	< 0.2	U
100-42-5	Styrene	0.2	< 0.2	U
75-69-4	Trichlorofluoromethane	0.2	< 0.2	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	0.2	< 0.2	U
179601-23-1	m,p-Xylene	0.4	< 0.4	U
95-47-6	o-Xylene	0.2	< 0.2	U
95-50-1	1,2-Dichlorobenzene	0.2	< 0.2	U
541-73-1	1,3-Dichlorobenzene	0.2	< 0.2	U
106-46-7	1,4-Dichlorobenzene	0.2	< 0.2	U
107-02-8	Acrolein	5.0	< 5.0	U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: Trip Blank**
 SAMPLE

Lab Sample ID: SE66R
LIMS ID: 11-796
Matrix: Water
Date Analyzed: 01/17/11 10:25

QC Report No: SE66-The Boeing Company
Project: Jorgensen Forge PLO
7KPL2JOR

CAS Number	Analyte	RL	Result	Q
74-88-4	Methyl Iodide	1.0	< 1.0	U
74-96-4	Bromoethane	0.2	< 0.2	U
107-13-1	Acrylonitrile	1.0	< 1.0	U
563-58-6	1,1-Dichloropropene	0.2	< 0.2	U
74-95-3	Dibromomethane	0.2	< 0.2	U
630-20-6	1,1,1,2-Tetrachloroethane	0.2	< 0.2	U
96-12-8	1,2-Dibromo-3-chloropropane	0.5	< 0.5	U
96-18-4	1,2,3-Trichloropropane	0.5	< 0.5	U
110-57-6	trans-1,4-Dichloro-2-butene	1.0	< 1.0	U
108-67-8	1,3,5-Trimethylbenzene	0.2	< 0.2	U
95-63-6	1,2,4-Trimethylbenzene	0.2	< 0.2	U
87-68-3	Hexachlorobutadiene	0.5	< 0.5	U
106-93-4	Ethylene Dibromide	0.2	< 0.2	U
74-97-5	Bromochloromethane	0.2	< 0.2	U
594-20-7	2,2-Dichloropropane	0.2	< 0.2	U
142-28-9	1,3-Dichloropropane	0.2	< 0.2	U
98-82-8	Isopropylbenzene	0.2	< 0.2	U
103-65-1	n-Propylbenzene	0.2	< 0.2	U
108-86-1	Bromobenzene	0.2	< 0.2	U
95-49-8	2-Chlorotoluene	0.2	< 0.2	U
106-43-4	4-Chlorotoluene	0.2	< 0.2	U
98-06-6	tert-Butylbenzene	0.2	< 0.2	U
135-98-8	sec-Butylbenzene	0.2	< 0.2	U
99-87-6	4-Isopropyltoluene	0.2	< 0.2	U
104-51-8	n-Butylbenzene	0.2	< 0.2	U
120-82-1	1,2,4-Trichlorobenzene	0.5	< 0.5	U
91-20-3	Naphthalene	0.5	< 0.5	U
87-61-6	1,2,3-Trichlorobenzene	0.5	< 0.5	U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	97.5%
d8-Toluene	95.4%
Bromofluorobenzene	86.8%
d4-1,2-Dichlorobenzene	99.4%

2-Chloroethylvinylether is an acid labile compound and may not be recovered from an acid preserved sample.

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: MB-011411**
 METHOD BLANK

Lab Sample ID: MB-011411
LIMS ID: 11-764
Matrix: Water
Data Release Authorized:
Reported: 01/18/11

QC Report No: SE66-The Boeing Company
Project: Jorgensen Forge PLO 7KPL2JOR
Date Sampled: NA
Date Received: NA

Instrument/Analyst: NT5/PAB
Date Analyzed: 01/14/11 11:35

Sample Amount: 10.0 mL
Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result	Q
74-87-3	Chloromethane	0.5	< 0.5	U
74-83-9	Bromomethane	1.0	< 1.0	U
75-01-4	Vinyl Chloride	0.2	< 0.2	U
75-00-3	Chloroethane	0.2	< 0.2	U
75-09-2	Methylene Chloride	0.5	< 0.5	U
67-64-1	Acetone	5.0	< 5.0	U
75-15-0	Carbon Disulfide	0.2	< 0.2	U
75-35-4	1,1-Dichloroethene	0.2	< 0.2	U
75-34-3	1,1-Dichloroethane	0.2	< 0.2	U
156-60-5	trans-1,2-Dichloroethene	0.2	< 0.2	U
156-59-2	cis-1,2-Dichloroethene	0.2	< 0.2	U
67-66-3	Chloroform	0.2	< 0.2	U
107-06-2	1,2-Dichloroethane	0.2	< 0.2	U
78-93-3	2-Butanone	5.0	< 5.0	U
71-55-6	1,1,1-Trichloroethane	0.2	< 0.2	U
56-23-5	Carbon Tetrachloride	0.2	< 0.2	U
108-05-4	Vinyl Acetate	1.0	< 1.0	U
75-27-4	Bromodichloromethane	0.2	< 0.2	U
78-87-5	1,2-Dichloropropane	0.2	< 0.2	U
10061-01-5	cis-1,3-Dichloropropene	0.2	< 0.2	U
79-01-6	Trichloroethene	0.2	< 0.2	U
124-48-1	Dibromochloromethane	0.2	< 0.2	U
79-00-5	1,1,2-Trichloroethane	0.2	< 0.2	U
71-43-2	Benzene	0.2	< 0.2	U
10061-02-6	trans-1,3-Dichloropropene	0.2	< 0.2	U
110-75-8	2-Chloroethylvinylether	1.0	< 1.0	U
75-25-2	Bromoform	0.2	< 0.2	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.0	< 5.0	U
591-78-6	2-Hexanone	5.0	< 5.0	U
127-18-4	Tetrachloroethene	0.2	< 0.2	U
79-34-5	1,1,2,2-Tetrachloroethane	0.2	< 0.2	U
108-88-3	Toluene	0.2	< 0.2	U
108-90-7	Chlorobenzene	0.2	< 0.2	U
100-41-4	Ethylbenzene	0.2	< 0.2	U
100-42-5	Styrene	0.2	< 0.2	U
75-69-4	Trichlorofluoromethane	0.2	< 0.2	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	0.2	< 0.2	U
179601-23-1	m,p-Xylene	0.4	< 0.4	U
95-47-6	o-Xylene	0.2	< 0.2	U
95-50-1	1,2-Dichlorobenzene	0.2	< 0.2	U
541-73-1	1,3-Dichlorobenzene	0.2	< 0.2	U
106-46-7	1,4-Dichlorobenzene	0.2	< 0.2	U
107-02-8	Acrolein	5.0	< 5.0	U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: MB-011411**
 METHOD BLANK

Lab Sample ID: MB-011411
LIMS ID: 11-764
Matrix: Water
Date Analyzed: 01/14/11 11:35

QC Report No: SE66-The Boeing Company
Project: Jorgensen Forge PLO
7KPL2JOR

CAS Number	Analyte	RL	Result	Q
74-88-4	Methyl Iodide	1.0	< 1.0	U
74-96-4	Bromoethane	0.2	< 0.2	U
107-13-1	Acrylonitrile	1.0	< 1.0	U
563-58-6	1,1-Dichloropropene	0.2	< 0.2	U
74-95-3	Dibromomethane	0.2	< 0.2	U
630-20-6	1,1,1,2-Tetrachloroethane	0.2	< 0.2	U
96-12-8	1,2-Dibromo-3-chloropropane	0.5	< 0.5	U
96-18-4	1,2,3-Trichloropropane	0.5	< 0.5	U
110-57-6	trans-1,4-Dichloro-2-butene	1.0	< 1.0	U
108-67-8	1,3,5-Trimethylbenzene	0.2	< 0.2	U
95-63-6	1,2,4-Trimethylbenzene	0.2	< 0.2	U
87-68-3	Hexachlorobutadiene	0.5	< 0.5	U
106-93-4	Ethylene Dibromide	0.2	< 0.2	U
74-97-5	Bromochloromethane	0.2	< 0.2	U
594-20-7	2,2-Dichloropropane	0.2	< 0.2	U
142-28-9	1,3-Dichloropropane	0.2	< 0.2	U
98-82-8	Isopropylbenzene	0.2	< 0.2	U
103-65-1	n-Propylbenzene	0.2	< 0.2	U
108-86-1	Bromobenzene	0.2	< 0.2	U
95-49-8	2-Chlorotoluene	0.2	< 0.2	U
106-43-4	4-Chlorotoluene	0.2	< 0.2	U
98-06-6	tert-Butylbenzene	0.2	< 0.2	U
135-98-8	sec-Butylbenzene	0.2	< 0.2	U
99-87-6	4-Isopropyltoluene	0.2	< 0.2	U
104-51-8	n-Butylbenzene	0.2	< 0.2	U
120-82-1	1,2,4-Trichlorobenzene	0.5	< 0.5	U
91-20-3	Naphthalene	0.5	< 0.5	U
87-61-6	1,2,3-Trichlorobenzene	0.5	< 0.5	U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	96.3%
d8-Toluene	96.4%
Bromofluorobenzene	90.3%
d4-1,2-Dichlorobenzene	98.0%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: MB-011711**
 METHOD BLANK

Lab Sample ID: MB-011711
LIMS ID: 11-770
Matrix: Water
Data Release Authorized:
Reported: 01/18/11

QC Report No: SE66-The Boeing Company
Project: Jorgensen Forge PLO
7KPL2JOR
Date Sampled: NA
Date Received: NA

Instrument/Analyst: NT5/PAB
Date Analyzed: 01/17/11 09:05

Sample Amount: 10.0 mL
Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result	Q
74-87-3	Chloromethane	0.5	< 0.5	U
74-83-9	Bromomethane	1.0	< 1.0	U
75-01-4	Vinyl Chloride	0.2	< 0.2	U
75-00-3	Chloroethane	0.2	< 0.2	U
75-09-2	Methylene Chloride	0.5	< 0.5	U
67-64-1	Acetone	5.0	< 5.0	U
75-15-0	Carbon Disulfide	0.2	< 0.2	U
75-35-4	1,1-Dichloroethene	0.2	< 0.2	U
75-34-3	1,1-Dichloroethane	0.2	< 0.2	U
156-60-5	trans-1,2-Dichloroethene	0.2	< 0.2	U
156-59-2	cis-1,2-Dichloroethene	0.2	< 0.2	U
67-66-3	Chloroform	0.2	< 0.2	U
107-06-2	1,2-Dichloroethane	0.2	< 0.2	U
78-93-3	2-Butanone	5.0	< 5.0	U
71-55-6	1,1,1-Trichloroethane	0.2	< 0.2	U
56-23-5	Carbon Tetrachloride	0.2	< 0.2	U
108-05-4	Vinyl Acetate	1.0	< 1.0	U
75-27-4	Bromodichloromethane	0.2	< 0.2	U
78-87-5	1,2-Dichloropropane	0.2	< 0.2	U
10061-01-5	cis-1,3-Dichloropropene	0.2	< 0.2	U
79-01-6	Trichloroethene	0.2	< 0.2	U
124-48-1	Dibromochloromethane	0.2	< 0.2	U
79-00-5	1,1,2-Trichloroethane	0.2	< 0.2	U
71-43-2	Benzene	0.2	< 0.2	U
10061-02-6	trans-1,3-Dichloropropene	0.2	< 0.2	U
110-75-8	2-Chloroethylvinylether	1.0	< 1.0	U
75-25-2	Bromoform	0.2	< 0.2	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.0	< 5.0	U
591-78-6	2-Hexanone	5.0	< 5.0	U
127-18-4	Tetrachloroethene	0.2	< 0.2	U
79-34-5	1,1,2,2-Tetrachloroethane	0.2	< 0.2	U
108-88-3	Toluene	0.2	< 0.2	U
108-90-7	Chlorobenzene	0.2	< 0.2	U
100-41-4	Ethylbenzene	0.2	< 0.2	U
100-42-5	Styrene	0.2	< 0.2	U
75-69-4	Trichlorofluoromethane	0.2	< 0.2	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	0.2	< 0.2	U
179601-23-1	m,p-Xylene	0.4	< 0.4	U
95-47-6	o-Xylene	0.2	< 0.2	U
95-50-1	1,2-Dichlorobenzene	0.2	< 0.2	U
541-73-1	1,3-Dichlorobenzene	0.2	< 0.2	U
106-46-7	1,4-Dichlorobenzene	0.2	< 0.2	U
107-02-8	Acrolein	5.0	< 5.0	U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: MB-011711**
 METHOD BLANK

Lab Sample ID: MB-011711
LIMS ID: 11-770
Matrix: Water
Date Analyzed: 01/17/11 09:05

QC Report No: SE66-The Boeing Company
Project: Jorgensen Forge PLO
7KPL2JOR

CAS Number	Analyte	RL	Result	Q
74-88-4	Methyl Iodide	1.0	< 1.0	U
74-96-4	Bromoethane	0.2	< 0.2	U
107-13-1	Acrylonitrile	1.0	< 1.0	U
563-58-6	1,1-Dichloropropene	0.2	< 0.2	U
74-95-3	Dibromomethane	0.2	< 0.2	U
630-20-6	1,1,1,2-Tetrachloroethane	0.2	< 0.2	U
96-12-8	1,2-Dibromo-3-chloropropane	0.5	< 0.5	U
96-18-4	1,2,3-Trichloropropane	0.5	< 0.5	U
110-57-6	trans-1,4-Dichloro-2-butene	1.0	< 1.0	U
108-67-8	1,3,5-Trimethylbenzene	0.2	< 0.2	U
95-63-6	1,2,4-Trimethylbenzene	0.2	< 0.2	U
87-68-3	Hexachlorobutadiene	0.5	< 0.5	U
106-93-4	Ethylene Dibromide	0.2	< 0.2	U
74-97-5	Bromochloromethane	0.2	< 0.2	U
594-20-7	2,2-Dichloropropane	0.2	< 0.2	U
142-28-9	1,3-Dichloropropane	0.2	< 0.2	U
98-82-8	Isopropylbenzene	0.2	< 0.2	U
103-65-1	n-Propylbenzene	0.2	< 0.2	U
108-86-1	Bromobenzene	0.2	< 0.2	U
95-49-8	2-Chlorotoluene	0.2	< 0.2	U
106-43-4	4-Chlorotoluene	0.2	< 0.2	U
98-06-6	tert-Butylbenzene	0.2	< 0.2	U
135-98-8	sec-Butylbenzene	0.2	< 0.2	U
99-87-6	4-Isopropyltoluene	0.2	< 0.2	U
104-51-8	n-Butylbenzene	0.2	< 0.2	U
120-82-1	1,2,4-Trichlorobenzene	0.5	< 0.5	U
91-20-3	Naphthalene	0.5	< 0.5	U
87-61-6	1,2,3-Trichlorobenzene	0.5	< 0.5	U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	96.0%
d8-Toluene	95.3%
Bromofluorobenzene	90.2%
d4-1,2-Dichlorobenzene	98.9%

ANALYTICAL RESOURCES INCORPORATED

VOA SURROGATE RECOVERY SUMMARY

Matrix: Water

QC Report No: SE66-The Boeing Company
Project: Jorgensen Forge PLO
7KPL2JOR

ARI ID	Client ID	PV	DCE	TOL	BFB	DCB	TOT OUT
MB-011411	Method Blank	10	96.3%	96.4%	90.3%	98.0%	0
LCS-011411	Lab Control	10	95.3%	95.1%	93.0%	96.2%	0
LCSD-011411	Lab Control Dup	10	91.6%	94.9%	95.2%	95.5%	0
SE66A	JF-T2B2-GW-15	10	96.2%	97.0%	89.8%	99.2%	0
SE66B	JF-T2B3-GW-15	10	98.1%	94.5%	88.9%	99.6%	0
SE66C	JF-T2B3-GW-15-D	10	97.9%	92.9%	86.8%	101%	0
SE66D	JF-T2B4-GW-20	10	99.1%	95.0%	86.9%	97.2%	0
SE66E	JF-T3B4-GW-24	10	98.9%	96.3%	88.6%	100%	0
SE66F	JF-T3B3-GW-15	10	100%	95.4%	87.8%	100%	0
MB-011711	Method Blank	10	96.0%	95.3%	90.2%	98.9%	0
LCS-011711	Lab Control	10	94.9%	94.8%	94.8%	96.6%	0
LCSD-011711	Lab Control Dup	10	93.4%	94.5%	94.8%	96.1%	0
SE66G	JF-T3B1-SO-13-R	10	97.3%	95.1%	87.7%	98.0%	0
SE66R	Trip Blank	10	97.5%	95.4%	86.8%	99.4%	0

	LCS/MB LIMITS	QC LIMITS
SW8260C		
(DCE) = d4-1,2-Dichloroethane	80-120	80-120
(TOL) = d8-Toluene	80-120	80-120
(BFB) = Bromofluorobenzene	80-120	80-120
(DCB) = d4-1,2-Dichlorobenzene	80-120	80-120

Prep Method: SW5030B
Log Number Range: 11-764 to 11-796

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: LCS-011411**
 LAB CONTROL SAMPLE

Lab Sample ID: LCS-011411
LIMS ID: 11-764
Matrix: Water
Data Release Authorized:
Reported: 01/18/11

QC Report No: SE66-The Boeing Company
Project: Jorgensen Forge PLO
7KPL2JOR
Date Sampled: NA
Date Received: NA

Instrument/Analyst LCS: NT5/PAB
LCSD: NT5/PAB
Date Analyzed LCS: 01/14/11 10:41
LCSD: 01/14/11 11:08

Sample Amount LCS: 10.0 mL
LCSD: 10.0 mL
Purge Volume LCS: 10.0 mL
LCSD: 10.0 mL

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Chloromethane	10.2	10.0	102%	9.9	10.0	99.0%	3.0%
Bromomethane	9.9	10.0	99.0%	10.4	10.0	104%	4.9%
Vinyl Chloride	10.8	10.0	108%	10.7	10.0	107%	0.9%
Chloroethane	10.4	10.0	104%	10.1	10.0	101%	2.9%
Methylene Chloride	10.1	10.0	101%	10.1	10.0	101%	0.0%
Acetone	49.6	50.0	99.2%	49.2	50.0	98.4%	0.8%
Carbon Disulfide	11.2	10.0	112%	10.9	10.0	109%	2.7%
1,1-Dichloroethene	10.3	10.0	103%	10.3	10.0	103%	0.0%
1,1-Dichloroethane	10.0	10.0	100%	9.7	10.0	97.0%	3.0%
trans-1,2-Dichloroethene	9.9	10.0	99.0%	9.9	10.0	99.0%	0.0%
cis-1,2-Dichloroethene	10.1	10.0	101%	9.9	10.0	99.0%	2.0%
Chloroform	9.9	10.0	99.0%	9.8	10.0	98.0%	1.0%
1,2-Dichloroethane	10.0	10.0	100%	9.8	10.0	98.0%	2.0%
2-Butanone	50.2	50.0	100%	48.8	50.0	97.6%	2.8%
1,1,1-Trichloroethane	10.0	10.0	100%	9.8	10.0	98.0%	2.0%
Carbon Tetrachloride	10.1	10.0	101%	10.3	10.0	103%	2.0%
Vinyl Acetate	9.6	10.0	96.0%	9.6	10.0	96.0%	0.0%
Bromodichloromethane	10.2	10.0	102%	10.3	10.0	103%	1.0%
1,2-Dichloropropane	9.9	10.0	99.0%	10.0	10.0	100%	1.0%
cis-1,3-Dichloropropene	10.3	10.0	103%	10.4	10.0	104%	1.0%
Trichloroethene	10.1	10.0	101%	10.1	10.0	101%	0.0%
Dibromochloromethane	10.3	10.0	103%	10.2	10.0	102%	1.0%
1,1,2-Trichloroethane	9.8	10.0	98.0%	9.9	10.0	99.0%	1.0%
Benzene	10.3	10.0	103%	10.3	10.0	103%	0.0%
trans-1,3-Dichloropropene	10.0	10.0	100%	10.0	10.0	100%	0.0%
2-Chloroethylvinylether	8.3	10.0	83.0%	8.2	10.0	82.0%	1.2%
Bromoform	10.6	10.0	106%	10.2	10.0	102%	3.8%
4-Methyl-2-Pentanone (MIBK)	51.1	50.0	102%	50.6	50.0	101%	1.0%
2-Hexanone	53.7	50.0	107%	54.3	50.0	109%	1.1%
Tetrachloroethene	10.2	10.0	102%	10.1	10.0	101%	1.0%
1,1,2,2-Tetrachloroethane	9.9	10.0	99.0%	9.6	10.0	96.0%	3.1%
Toluene	10.2	10.0	102%	10.2	10.0	102%	0.0%
Chlorobenzene	10.4	10.0	104%	10.4	10.0	104%	0.0%
Ethylbenzene	10.4	10.0	104%	10.4	10.0	104%	0.0%
Styrene	11.2	10.0	112%	11.2	10.0	112%	0.0%
Trichlorofluoromethane	9.5	10.0	95.0%	9.3	10.0	93.0%	2.1%
1,1,2-Trichloro-1,2,2-trifluoroetha	10.1	10.0	101%	10.1	10.0	101%	0.0%
m,p-Xylene	22.3	20.0	112%	22.1	20.0	110%	0.9%
o-Xylene	10.7	10.0	107%	10.7	10.0	107%	0.0%
1,2-Dichlorobenzene	10.3	10.0	103%	9.8	10.0	98.0%	5.0%
1,3-Dichlorobenzene	10.5	10.0	105%	10.1	10.0	101%	3.9%
1,4-Dichlorobenzene	10.4	10.0	104%	10.1	10.0	101%	2.9%
Acrolein	58.4	50.0	117%	60.0	50.0	120%	2.7%
Methyl Iodide	12.0	10.0	120%	12.0	10.0	120%	0.0%
Bromoethane	10.7	10.0	107%	11.1	10.0	111%	3.7%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: LCS-011411**
 LAB CONTROL SAMPLE

Lab Sample ID: LCS-011411
LIMS ID: 11-764
Matrix: Water

QC Report No: SE66-The Boeing Company
Project: Jorgensen Forge PLO
7KPL2JOR

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Acrylonitrile	8.7	10.0	87.0%	9.3	10.0	93.0%	6.7%
1,1-Dichloropropene	10.1	10.0	101%	10.2	10.0	102%	1.0%
Dibromomethane	9.8	10.0	98.0%	9.7	10.0	97.0%	1.0%
1,1,1,2-Tetrachloroethane	10.3	10.0	103%	10.3	10.0	103%	0.0%
1,2-Dibromo-3-chloropropane	9.4	10.0	94.0%	9.3	10.0	93.0%	1.1%
1,2,3-Trichloropropane	10.2	10.0	102%	10.0	10.0	100%	2.0%
trans-1,4-Dichloro-2-butene	9.3	10.0	93.0%	8.7	10.0	87.0%	6.7%
1,3,5-Trimethylbenzene	11.1	10.0	111%	10.6	10.0	106%	4.6%
1,2,4-Trimethylbenzene	11.1	10.0	111%	10.7	10.0	107%	3.7%
Hexachlorobutadiene	10.4	10.0	104%	9.8	10.0	98.0%	5.9%
Ethylene Dibromide	9.8	10.0	98.0%	9.9	10.0	99.0%	1.0%
Bromochloromethane	9.8	10.0	98.0%	9.5	10.0	95.0%	3.1%
2,2-Dichloropropane	9.9	10.0	99.0%	9.7	10.0	97.0%	2.0%
1,3-Dichloropropane	9.9	10.0	99.0%	9.8	10.0	98.0%	1.0%
Isopropylbenzene	11.3	10.0	113%	10.9	10.0	109%	3.6%
n-Propylbenzene	11.0	10.0	110%	10.5	10.0	105%	4.7%
Bromobenzene	10.4	10.0	104%	10.1	10.0	101%	2.9%
2-Chlorotoluene	10.8	10.0	108%	10.4	10.0	104%	3.8%
4-Chlorotoluene	10.9	10.0	109%	10.5	10.0	105%	3.7%
tert-Butylbenzene	11.1	10.0	111%	10.7	10.0	107%	3.7%
sec-Butylbenzene	9.4	10.0	94.0%	9.1	10.0	91.0%	3.2%
4-Isopropyltoluene	11.3	10.0	113%	10.9	10.0	109%	3.6%
n-Butylbenzene	10.9	10.0	109%	10.4	10.0	104%	4.7%
1,2,4-Trichlorobenzene	10.6	10.0	106%	10.2	10.0	102%	3.8%
Naphthalene	11.2	10.0	112%	10.6	10.0	106%	5.5%
1,2,3-Trichlorobenzene	11.2	10.0	112%	10.8	10.0	108%	3.6%

Reported in µg/L (ppb)

RPD calculated using sample concentrations per SW846.

Volatile Surrogate Recovery

	LCS	LCSD
d4-1,2-Dichloroethane	95.3%	91.6%
d8-Toluene	95.1%	94.9%
Bromofluorobenzene	93.0%	95.2%
d4-1,2-Dichlorobenzene	96.2%	95.5%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: LCS-011711**
 LAB CONTROL SAMPLE

Lab Sample ID: LCS-011711
LIMS ID: 11-770
Matrix: Water
Data Release Authorized:
Reported: 01/18/11

QC Report No: SE66-The Boeing Company
Project: Jorgensen Forge PLO
7KPL2JOR
Date Sampled: NA
Date Received: NA

Instrument/Analyst LCS: NT5/PAB
LCSD: NT5/PAB
Date Analyzed LCS: 01/17/11 08:10
LCSD: 01/17/11 08:38

Sample Amount LCS: 10.0 mL
LCSD: 10.0 mL
Purge Volume LCS: 10.0 mL
LCSD: 10.0 mL

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Chloromethane	9.9	10.0	99.0%	9.9	10.0	99.0%	0.0%
Bromomethane	10.9	10.0	109%	11.5	10.0	115%	5.4%
Vinyl Chloride	10.3	10.0	103%	10.6	10.0	106%	2.9%
Chloroethane	9.9	10.0	99.0%	10.1	10.0	101%	2.0%
Methylene Chloride	10.0	10.0	100%	10.1	10.0	101%	1.0%
Acetone	50.2	50.0	100%	48.0	50.0	96.0%	4.5%
Carbon Disulfide	10.8	10.0	108%	10.8	10.0	108%	0.0%
1,1-Dichloroethene	10.2	10.0	102%	10.4	10.0	104%	1.9%
1,1-Dichloroethane	9.6	10.0	96.0%	9.8	10.0	98.0%	2.1%
trans-1,2-Dichloroethene	9.7	10.0	97.0%	9.9	10.0	99.0%	2.0%
cis-1,2-Dichloroethene	9.7	10.0	97.0%	9.8	10.0	98.0%	1.0%
Chloroform	9.7	10.0	97.0%	9.8	10.0	98.0%	1.0%
1,2-Dichloroethane	10.1	10.0	101%	9.7	10.0	97.0%	4.0%
2-Butanone	47.8	50.0	95.6%	48.7	50.0	97.4%	1.9%
1,1,1-Trichloroethane	9.6	10.0	96.0%	9.9	10.0	99.0%	3.1%
Carbon Tetrachloride	10.1	10.0	101%	10.2	10.0	102%	1.0%
Vinyl Acetate	9.3	10.0	93.0%	9.6	10.0	96.0%	3.2%
Bromodichloromethane	10.1	10.0	101%	10.2	10.0	102%	1.0%
1,2-Dichloropropane	9.6	10.0	96.0%	9.8	10.0	98.0%	2.1%
cis-1,3-Dichloropropene	10.1	10.0	101%	10.2	10.0	102%	1.0%
Trichloroethene	9.8	10.0	98.0%	9.8	10.0	98.0%	0.0%
Dibromochloromethane	10.1	10.0	101%	10.2	10.0	102%	1.0%
1,1,2-Trichloroethane	9.9	10.0	99.0%	10.0	10.0	100%	1.0%
Benzene	10.2	10.0	102%	10.3	10.0	103%	1.0%
trans-1,3-Dichloropropene	10.0	10.0	100%	9.8	10.0	98.0%	2.0%
2-Chloroethylvinylether	7.6 Q	10.0	76.0%	7.2 Q	10.0	72.0%	5.4%
Bromoform	10.2	10.0	102%	10.0	10.0	100%	2.0%
4-Methyl-2-Pentanone (MIBK)	50.4	50.0	101%	50.9	50.0	102%	1.0%
2-Hexanone	53.3	50.0	107%	53.5	50.0	107%	0.4%
Tetrachloroethene	10.0	10.0	100%	10.1	10.0	101%	1.0%
1,1,2,2-Tetrachloroethane	9.4	10.0	94.0%	9.4	10.0	94.0%	0.0%
Toluene	10.0	10.0	100%	10.1	10.0	101%	1.0%
Chlorobenzene	10.1	10.0	101%	10.3	10.0	103%	2.0%
Ethylbenzene	10.2	10.0	102%	10.2	10.0	102%	0.0%
Styrene	11.0	10.0	110%	11.1	10.0	111%	0.9%
Trichlorofluoromethane	9.3	10.0	93.0%	9.4	10.0	94.0%	1.1%
1,1,2-Trichloro-1,2,2-trifluoroetha	9.8	10.0	98.0%	10.0	10.0	100%	2.0%
m,p-Xylene	21.7	20.0	108%	21.9	20.0	110%	0.9%
o-Xylene	10.6	10.0	106%	10.6	10.0	106%	0.0%
1,2-Dichlorobenzene	9.8	10.0	98.0%	9.8	10.0	98.0%	0.0%
1,3-Dichlorobenzene	9.9	10.0	99.0%	10.0	10.0	100%	1.0%
1,4-Dichlorobenzene	9.9	10.0	99.0%	10.0	10.0	100%	1.0%
Acrolein	60.0	50.0	120%	58.3	50.0	117%	2.9%
Methyl Iodide	12.3	10.0	123%	12.1	10.0	121%	1.6%
Bromoethane	10.8	10.0	108%	10.5	10.0	105%	2.8%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: LCS-011711**
 LAB CONTROL SAMPLE

Lab Sample ID: LCS-011711
LIMS ID: 11-770
Matrix: Water

QC Report No: SE66-The Boeing Company
Project: Jorgensen Forge PLO
7KPL2JOR

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Acrylonitrile	9.0	10.0	90.0%	9.3	10.0	93.0%	3.3%
1,1-Dichloropropene	9.8	10.0	98.0%	9.9	10.0	99.0%	1.0%
Dibromomethane	9.7	10.0	97.0%	9.5	10.0	95.0%	2.1%
1,1,1,2-Tetrachloroethane	10.0	10.0	100%	10.2	10.0	102%	2.0%
1,2-Dibromo-3-chloropropane	9.0	10.0	90.0%	8.7	10.0	87.0%	3.4%
1,2,3-Trichloropropane	9.6	10.0	96.0%	9.7	10.0	97.0%	1.0%
trans-1,4-Dichloro-2-butene	8.7	10.0	87.0%	8.5	10.0	85.0%	2.3%
1,3,5-Trimethylbenzene	10.3	10.0	103%	10.5	10.0	105%	1.9%
1,2,4-Trimethylbenzene	10.4	10.0	104%	10.6	10.0	106%	1.9%
Hexachlorobutadiene	9.9	10.0	99.0%	10.2	10.0	102%	3.0%
Ethylene Dibromide	10.0	10.0	100%	9.9	10.0	99.0%	1.0%
Bromochloromethane	9.3	10.0	93.0%	9.6	10.0	96.0%	3.2%
2,2-Dichloropropane	9.6	10.0	96.0%	9.7	10.0	97.0%	1.0%
1,3-Dichloropropane	9.6	10.0	96.0%	9.7	10.0	97.0%	1.0%
Isopropylbenzene	10.5	10.0	105%	10.7	10.0	107%	1.9%
n-Propylbenzene	10.2	10.0	102%	10.4	10.0	104%	1.9%
Bromobenzene	9.9	10.0	99.0%	10.0	10.0	100%	1.0%
2-Chlorotoluene	10.1	10.0	101%	10.1	10.0	101%	0.0%
4-Chlorotoluene	10.2	10.0	102%	10.4	10.0	104%	1.9%
tert-Butylbenzene	10.4	10.0	104%	10.5	10.0	105%	1.0%
sec-Butylbenzene	8.9	10.0	89.0%	9.0	10.0	90.0%	1.1%
4-Isopropyltoluene	10.6	10.0	106%	10.8	10.0	108%	1.9%
n-Butylbenzene	10.2	10.0	102%	10.4	10.0	104%	1.9%
1,2,4-Trichlorobenzene	10.0	10.0	100%	10.1	10.0	101%	1.0%
Naphthalene	10.3	10.0	103%	10.4	10.0	104%	1.0%
1,2,3-Trichlorobenzene	10.4	10.0	104%	10.6	10.0	106%	1.9%

Reported in µg/L (ppb)

RPD calculated using sample concentrations per SW846.

Volatile Surrogate Recovery

	LCS	LCSD
d4-1,2-Dichloroethane	94.9%	93.4%
d8-Toluene	94.8%	94.5%
Bromofluorobenzene	94.8%	94.8%
d4-1,2-Dichlorobenzene	96.6%	96.1%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS

Sample ID: JF-T2B1-SO-03
SAMPLE

Lab Sample ID: SE66H
LIMS ID: 11-771
Matrix: Soil
Data Release Authorized:
Reported: 01/24/11

QC Report No: SE66-The Boeing Company
Project: Jorgensen Forge PLO
7KPL2JOR
Date Sampled: 01/13/11
Date Received: 01/13/11

Date Extracted: 01/17/11
Date Analyzed: 01/21/11 00:04
Instrument/Analyst: NT4/JZ
GPC Cleanup: Yes

Sample Amount: 7.52 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 16.6%

CAS Number	Analyte	RL	Result
108-95-2	Phenol	66	< 66 U
111-44-4	Bis-(2-Chloroethyl) Ether	66	< 66 U
95-57-8	2-Chlorophenol	66	< 66 U
541-73-1	1,3-Dichlorobenzene	66	< 66 U
106-46-7	1,4-Dichlorobenzene	66	< 66 U
100-51-6	Benzyl Alcohol	330	< 330 U
95-50-1	1,2-Dichlorobenzene	66	< 66 U
95-48-7	2-Methylphenol	66	< 66 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	66	< 66 U
106-44-5	4-Methylphenol	66	< 66 U
621-64-7	N-Nitroso-Di-N-Propylamine	66	< 66 U
67-72-1	Hexachloroethane	66	< 66 U
98-95-3	Nitrobenzene	66	< 66 U
78-59-1	Isophorone	66	< 66 U
88-75-5	2-Nitrophenol	66	< 66 U
105-67-9	2,4-Dimethylphenol	66	< 66 U
65-85-0	Benzoic Acid	660	< 660 U
111-91-1	bis(2-Chloroethoxy) Methane	66	< 66 U
120-83-2	2,4-Dichlorophenol	330	< 330 U
120-82-1	1,2,4-Trichlorobenzene	66	< 66 U
91-20-3	Naphthalene	66	< 66 U
106-47-8	4-Chloroaniline	330	< 330 U
87-68-3	Hexachlorobutadiene	66	< 66 U
59-50-7	4-Chloro-3-methylphenol	330	< 330 U
91-57-6	2-Methylnaphthalene	66	< 66 U
77-47-4	Hexachlorocyclopentadiene	330	< 330 U
88-06-2	2,4,6-Trichlorophenol	330	< 330 U
95-95-4	2,4,5-Trichlorophenol	330	< 330 U
91-58-7	2-Chloronaphthalene	66	< 66 U
88-74-4	2-Nitroaniline	330	< 330 U
131-11-3	Dimethylphthalate	66	< 66 U
208-96-8	Acenaphthylene	66	< 66 U
99-09-2	3-Nitroaniline	330	< 330 U
83-32-9	Acenaphthene	66	< 66 U
51-28-5	2,4-Dinitrophenol	660	< 660 U
100-02-7	4-Nitrophenol	330	< 330 U
132-64-9	Dibenzofuran	66	< 66 U
606-20-2	2,6-Dinitrotoluene	330	< 330 U
121-14-2	2,4-Dinitrotoluene	330	< 330 U
84-66-2	Diethylphthalate	66	< 66 U
7005-72-3	4-Chlorophenyl-phenylether	66	< 66 U
86-73-7	Fluorene	66	< 66 U
100-01-6	4-Nitroaniline	330	< 330 U
534-52-1	4,6-Dinitro-2-Methylphenol	660	< 660 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS

Sample ID: JF-T2B1-SO-03
SAMPLE

Lab Sample ID: SE66H
LIMS ID: 11-771
Matrix: Soil
Date Analyzed: 01/21/11 00:04

QC Report No: SE66-The Boeing Company
Project: Jorgensen Forge PLO
7KPL2JOR

CAS Number	Analyte	RL	Result
86-30-6	N-Nitrosodiphenylamine	66	< 66 U
101-55-3	4-Bromophenyl-phenylether	66	< 66 U
118-74-1	Hexachlorobenzene	66	< 66 U
87-86-5	Pentachlorophenol	330	< 330 U
85-01-8	Phenanthrene	66	< 66 U
86-74-8	Carbazole	66	< 66 U
120-12-7	Anthracene	66	< 66 U
84-74-2	Di-n-Butylphthalate	66	< 66 U
206-44-0	Fluoranthene	66	< 66 U
129-00-0	Pyrene	66	< 66 U
85-68-7	Butylbenzylphthalate	66	< 66 U
91-94-1	3,3'-Dichlorobenzidine	330	< 330 U
56-55-3	Benzo(a)anthracene	66	< 66 U
117-81-7	bis(2-Ethylhexyl)phthalate	66	< 66 U
218-01-9	Chrysene	66	< 66 U
117-84-0	Di-n-Octyl phthalate	66	< 66 U
50-32-8	Benzo(a)pyrene	66	< 66 U
193-39-5	Indeno(1,2,3-cd)pyrene	66	< 66 U
53-70-3	Dibenz(a,h)anthracene	66	< 66 U
191-24-2	Benzo(g,h,i)perylene	66	< 66 U
90-12-0	1-Methylnaphthalene	66	< 66 U
TOTBFA	Total Benzofluoranthenes	66	< 66 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	59.2%	2-Fluorobiphenyl	72.0%
d14-p-Terphenyl	81.2%	d4-1,2-Dichlorobenzene	59.6%
d5-Phenol	63.5%	2-Fluorophenol	52.8%
2,4,6-Tribromophenol	81.1%	d4-2-Chlorophenol	61.6%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS

Sample ID: JF-T2B1-SO-08
SAMPLE

Lab Sample ID: SE66I
LIMS ID: 11-772
Matrix: Soil
Data Release Authorized:
Reported: 01/24/11

QC Report No: SE66-The Boeing Company
Project: Jorgensen Forge PLO
7KPL2JOR
Date Sampled: 01/13/11
Date Received: 01/13/11

Date Extracted: 01/17/11
Date Analyzed: 01/21/11 00:38
Instrument/Analyst: NT4/JZ
GPC Cleanup: Yes

Sample Amount: 8.06 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 19.6%

CAS Number	Analyte	RL	Result
108-95-2	Phenol	62	< 62 U
111-44-4	Bis-(2-Chloroethyl) Ether	62	< 62 U
95-57-8	2-Chlorophenol	62	< 62 U
541-73-1	1,3-Dichlorobenzene	62	< 62 U
106-46-7	1,4-Dichlorobenzene	62	< 62 U
100-51-6	Benzyl Alcohol	310	< 310 U
95-50-1	1,2-Dichlorobenzene	62	< 62 U
95-48-7	2-Methylphenol	62	< 62 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	62	< 62 U
106-44-5	4-Methylphenol	62	< 62 U
621-64-7	N-Nitroso-Di-N-Propylamine	62	< 62 U
67-72-1	Hexachloroethane	62	< 62 U
98-95-3	Nitrobenzene	62	< 62 U
78-59-1	Isophorone	62	< 62 U
88-75-5	2-Nitrophenol	62	< 62 U
105-67-9	2,4-Dimethylphenol	62	< 62 U
65-85-0	Benzoic Acid	620	< 620 U
111-91-1	bis(2-Chloroethoxy) Methane	62	< 62 U
120-83-2	2,4-Dichlorophenol	310	< 310 U
120-82-1	1,2,4-Trichlorobenzene	62	< 62 U
91-20-3	Naphthalene	62	< 62 U
106-47-8	4-Chloroaniline	310	< 310 U
87-68-3	Hexachlorobutadiene	62	< 62 U
59-50-7	4-Chloro-3-methylphenol	310	< 310 U
91-57-6	2-Methylnaphthalene	62	< 62 U
77-47-4	Hexachlorocyclopentadiene	310	< 310 U
88-06-2	2,4,6-Trichlorophenol	310	< 310 U
95-95-4	2,4,5-Trichlorophenol	310	< 310 U
91-58-7	2-Chloronaphthalene	62	< 62 U
88-74-4	2-Nitroaniline	310	< 310 U
131-11-3	Dimethylphthalate	62	< 62 U
208-96-8	Acenaphthylene	62	< 62 U
99-09-2	3-Nitroaniline	310	< 310 U
83-32-9	Acenaphthene	62	< 62 U
51-28-5	2,4-Dinitrophenol	620	< 620 U
100-02-7	4-Nitrophenol	310	< 310 U
132-64-9	Dibenzofuran	62	< 62 U
606-20-2	2,6-Dinitrotoluene	310	< 310 U
121-14-2	2,4-Dinitrotoluene	310	< 310 U
84-66-2	Diethylphthalate	62	< 62 U
7005-72-3	4-Chlorophenyl-phenylether	62	< 62 U
86-73-7	Fluorene	62	< 62 U
100-01-6	4-Nitroaniline	310	< 310 U
534-52-1	4,6-Dinitro-2-Methylphenol	620	< 620 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS

Sample ID: JF-T2B1-SO-08
SAMPLE

Lab Sample ID: SE66I
LIMS ID: 11-772
Matrix: Soil
Date Analyzed: 01/21/11 00:38

QC Report No: SE66-The Boeing Company
Project: Jorgensen Forge PLO
7KPL2JOR

CAS Number	Analyte	RL	Result
86-30-6	N-Nitrosodiphenylamine	62	< 62 U
101-55-3	4-Bromophenyl-phenylether	62	< 62 U
118-74-1	Hexachlorobenzene	62	< 62 U
87-86-5	Pentachlorophenol	310	< 310 U
85-01-8	Phenanthrene	62	< 62 U
86-74-8	Carbazole	62	< 62 U
120-12-7	Anthracene	62	< 62 U
84-74-2	Di-n-Butylphthalate	62	< 62 U
206-44-0	Fluoranthene	62	< 62 U
129-00-0	Pyrene	62	< 62 U
85-68-7	Butylbenzylphthalate	62	< 62 U
91-94-1	3,3'-Dichlorobenzidine	310	< 310 U
56-55-3	Benzo(a)anthracene	62	< 62 U
117-81-7	bis(2-Ethylhexyl)phthalate	62	< 62 U
218-01-9	Chrysene	62	< 62 U
117-84-0	Di-n-Octyl phthalate	62	< 62 U
50-32-8	Benzo(a)pyrene	62	< 62 U
193-39-5	Indeno(1,2,3-cd)pyrene	62	< 62 U
53-70-3	Dibenz(a,h)anthracene	62	< 62 U
191-24-2	Benzo(g,h,i)perylene	62	< 62 U
90-12-0	1-Methylnaphthalene	62	< 62 U
TOTBFA	Total Benzofluoranthenes	62	< 62 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	67.2%	2-Fluorobiphenyl	75.2%
d14-p-Terphenyl	89.6%	d4-1,2-Dichlorobenzene	72.0%
d5-Phenol	72.0%	2-Fluorophenol	66.9%
2,4,6-Tribromophenol	89.3%	d4-2-Chlorophenol	72.5%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS

Sample ID: JF-T2B1-SO-13
SAMPLE

Lab Sample ID: SE66J
LIMS ID: 11-773
Matrix: Soil
Data Release Authorized:
Reported: 01/24/11

QC Report No: SE66-The Boeing Company
Project: Jorgensen Forge PLO
7KPL2JOR
Date Sampled: 01/13/11
Date Received: 01/13/11

Date Extracted: 01/17/11
Date Analyzed: 01/21/11 01:11
Instrument/Analyst: NT4/JZ
GPC Cleanup: Yes

Sample Amount: 8.08 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 27.1%

CAS Number	Analyte	RL	Result
108-95-2	Phenol	62	< 62 U
111-44-4	Bis-(2-Chloroethyl) Ether	62	< 62 U
95-57-8	2-Chlorophenol	62	< 62 U
541-73-1	1,3-Dichlorobenzene	62	< 62 U
106-46-7	1,4-Dichlorobenzene	62	< 62 U
100-51-6	Benzyl Alcohol	310	< 310 U
95-50-1	1,2-Dichlorobenzene	62	< 62 U
95-48-7	2-Methylphenol	62	< 62 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	62	< 62 U
106-44-5	4-Methylphenol	62	< 62 U
621-64-7	N-Nitroso-Di-N-Propylamine	62	< 62 U
67-72-1	Hexachloroethane	62	< 62 U
98-95-3	Nitrobenzene	62	< 62 U
78-59-1	Isophorone	62	< 62 U
88-75-5	2-Nitrophenol	62	< 62 U
105-67-9	2,4-Dimethylphenol	62	< 62 U
65-85-0	Benzoic Acid	620	< 620 U
111-91-1	bis(2-Chloroethoxy) Methane	62	< 62 U
120-83-2	2,4-Dichlorophenol	310	< 310 U
120-82-1	1,2,4-Trichlorobenzene	62	< 62 U
91-20-3	Naphthalene	62	< 62 U
106-47-8	4-Chloroaniline	310	< 310 U
87-68-3	Hexachlorobutadiene	62	< 62 U
59-50-7	4-Chloro-3-methylphenol	310	< 310 U
91-57-6	2-Methylnaphthalene	62	< 62 U
77-47-4	Hexachlorocyclopentadiene	310	< 310 U
88-06-2	2,4,6-Trichlorophenol	310	< 310 U
95-95-4	2,4,5-Trichlorophenol	310	< 310 U
91-58-7	2-Chloronaphthalene	62	< 62 U
88-74-4	2-Nitroaniline	310	< 310 U
131-11-3	Dimethylphthalate	62	< 62 U
208-96-8	Acenaphthylene	62	< 62 U
99-09-2	3-Nitroaniline	310	< 310 U
83-32-9	Acenaphthene	62	< 62 U
51-28-5	2,4-Dinitrophenol	620	< 620 U
100-02-7	4-Nitrophenol	310	< 310 U
132-64-9	Dibenzofuran	62	< 62 U
606-20-2	2,6-Dinitrotoluene	310	< 310 U
121-14-2	2,4-Dinitrotoluene	310	< 310 U
84-66-2	Diethylphthalate	62	< 62 U
7005-72-3	4-Chlorophenyl-phenylether	62	< 62 U
86-73-7	Fluorene	62	< 62 U
100-01-6	4-Nitroaniline	310	< 310 U
534-52-1	4,6-Dinitro-2-Methylphenol	620	< 620 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS

Sample ID: JF-T2B1-SO-13
SAMPLE

Lab Sample ID: SE66J
LIMS ID: 11-773
Matrix: Soil
Date Analyzed: 01/21/11 01:11

QC Report No: SE66-The Boeing Company
Project: Jorgensen Forge PLO
7KPL2JOR

CAS Number	Analyte	RL	Result
86-30-6	N-Nitrosodiphenylamine	62	< 62 U
101-55-3	4-Bromophenyl-phenylether	62	< 62 U
118-74-1	Hexachlorobenzene	62	< 62 U
87-86-5	Pentachlorophenol	310	< 310 U
85-01-8	Phenanthrene	62	< 62 U
86-74-8	Carbazole	62	< 62 U
120-12-7	Anthracene	62	< 62 U
84-74-2	Di-n-Butylphthalate	62	< 62 U
206-44-0	Fluoranthene	62	< 62 U
129-00-0	Pyrene	62	< 62 U
85-68-7	Butylbenzylphthalate	62	< 62 U
91-94-1	3,3'-Dichlorobenzidine	310	< 310 U
56-55-3	Benzo(a)anthracene	62	< 62 U
117-81-7	bis(2-Ethylhexyl)phthalate	62	< 62 U
218-01-9	Chrysene	62	< 62 U
117-84-0	Di-n-Octyl phthalate	62	< 62 U
50-32-8	Benzo(a)pyrene	62	< 62 U
193-39-5	Indeno(1,2,3-cd)pyrene	62	< 62 U
53-70-3	Dibenz(a,h)anthracene	62	< 62 U
191-24-2	Benzo(g,h,i)perylene	62	< 62 U
90-12-0	1-Methylnaphthalene	62	< 62 U
TOTBFA	Total Benzofluoranthenes	62	< 62 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	58.8%	2-Fluorobiphenyl	66.0%
d14-p-Terphenyl	76.8%	d4-1,2-Dichlorobenzene	62.8%
d5-Phenol	61.9%	2-Fluorophenol	57.1%
2,4,6-Tribromophenol	79.2%	d4-2-Chlorophenol	62.9%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS

Sample ID: JF-T2B2-SO-03
SAMPLE

Lab Sample ID: SE66K
LIMS ID: 11-774
Matrix: Soil
Data Release Authorized:
Reported: 01/24/11

QC Report No: SE66-The Boeing Company
Project: Jorgensen Forge PLO
7KPL2JOR
Date Sampled: 01/13/11
Date Received: 01/13/11

Date Extracted: 01/17/11
Date Analyzed: 01/21/11 01:44
Instrument/Analyst: NT4/JZ
GPC Cleanup: Yes

Sample Amount: 8.24 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 25.7%

CAS Number	Analyte	RL	Result
108-95-2	Phenol	61	< 61 U
111-44-4	Bis-(2-Chloroethyl) Ether	61	< 61 U
95-57-8	2-Chlorophenol	61	< 61 U
541-73-1	1,3-Dichlorobenzene	61	< 61 U
106-46-7	1,4-Dichlorobenzene	61	< 61 U
100-51-6	Benzyl Alcohol	300	< 300 U
95-50-1	1,2-Dichlorobenzene	61	< 61 U
95-48-7	2-Methylphenol	61	< 61 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	61	< 61 U
106-44-5	4-Methylphenol	61	< 61 U
621-64-7	N-Nitroso-Di-N-Propylamine	61	< 61 U
67-72-1	Hexachloroethane	61	< 61 U
98-95-3	Nitrobenzene	61	< 61 U
78-59-1	Isophorone	61	< 61 U
88-75-5	2-Nitrophenol	61	< 61 U
105-67-9	2,4-Dimethylphenol	61	< 61 U
65-85-0	Benzoic Acid	610	< 610 U
111-91-1	bis(2-Chloroethoxy) Methane	61	< 61 U
120-83-2	2,4-Dichlorophenol	300	< 300 U
120-82-1	1,2,4-Trichlorobenzene	61	< 61 U
91-20-3	Naphthalene	61	< 61 U
106-47-8	4-Chloroaniline	300	< 300 U
87-68-3	Hexachlorobutadiene	61	< 61 U
59-50-7	4-Chloro-3-methylphenol	300	< 300 U
91-57-6	2-Methylnaphthalene	61	< 61 U
77-47-4	Hexachlorocyclopentadiene	300	< 300 U
88-06-2	2,4,6-Trichlorophenol	300	< 300 U
~~95-95-4~~	~~2,4,5-Trichlorophenol~~	~~300~~	~~< 300 U~~
91-58-7	2-Chloronaphthalene	61	< 61 U
88-74-4	2-Nitroaniline	300	< 300 U
131-11-3	Dimethylphthalate	61	< 61 U
208-96-8	Acenaphthylene	61	< 61 U
99-09-2	3-Nitroaniline	300	< 300 U
83-32-9	Acenaphthene	61	< 61 U
51-28-5	2,4-Dinitrophenol	610	< 610 U
100-02-7	4-Nitrophenol	300	< 300 U
132-64-9	Dibenzofuran	61	< 61 U
606-20-2	2,6-Dinitrotoluene	300	< 300 U
121-14-2	2,4-Dinitrotoluene	300	< 300 U
84-66-2	Diethylphthalate	61	< 61 U
7005-72-3	4-Chlorophenyl-phenylether	61	< 61 U
86-73-7	**Fluorene**	**61**	**73**
100-01-6	4-Nitroaniline	300	< 300 U
534-52-1	4,6-Dinitro-2-Methylphenol	610	< 610 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS

Sample ID: JF-T2B2-SO-03
SAMPLE

Lab Sample ID: SE66K
LIMS ID: 11-774
Matrix: Soil
Date Analyzed: 01/21/11 01:44

QC Report No: SE66-The Boeing Company
Project: Jorgensen Forge PLO
7KPL2JOR

CAS Number	Analyte	RL	Result
86-30-6	N-Nitrosodiphenylamine	61	< 61 U
101-55-3	4-Bromophenyl-phenylether	61	< 61 U
118-74-1	Hexachlorobenzene	61	< 61 U
87-86-5	Pentachlorophenol	300	< 300 U
85-01-8	**Phenanthrene**	**61**	**630**
86-74-8	Carbazole	61	< 61 U
120-12-7	**Anthracene**	**61**	**120**
84-74-2	Di-n-Butylphthalate	61	< 61 U
206-44-0	**Fluoranthene**	**61**	**610 Q**
129-00-0	**Pyrene**	**61**	**600**
85-68-7	Butylbenzylphthalate	61	< 61 U
91-94-1	3,3'-Dichlorobenzidine	300	< 300 U
56-55-3	**Benzo(a)anthracene**	**61**	**260**
117-81-7	bis(2-Ethylhexyl)phthalate	61	< 61 U
218-01-9	**Chrysene**	**61**	**270**
117-84-0	Di-n-Octyl phthalate	61	< 61 U
50-32-8	**Benzo(a)pyrene**	**61**	**260**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**61**	**89**
53-70-3	Dibenz(a,h)anthracene	61	< 61 U
191-24-2	**Benzo(g,h,i)perylene**	**61**	**86**
90-12-0	1-Methylnaphthalene	61	< 61 U
TOTBFA	**Total Benzofluoranthenes**	**61**	**380**

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	58.4%	2-Fluorobiphenyl	70.0%
d14-p-Terphenyl	78.0%	d4-1,2-Dichlorobenzene	58.4%
d5-Phenol	61.3%	2-Fluorophenol	50.1%
2,4,6-Tribromophenol	81.1%	d4-2-Chlorophenol	61.1%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS

Sample ID: JF-T2B2-SO-08
SAMPLE

Lab Sample ID: SE66L
LIMS ID: 11-775
Matrix: Soil
Data Release Authorized:
Reported: 01/24/11

QC Report No: SE66-The Boeing Company
Project: Jorgensen Forge PLO
7KPL2JOR
Date Sampled: 01/13/11
Date Received: 01/13/11

Date Extracted: 01/17/11
Date Analyzed: 01/21/11 16:28
Instrument/Analyst: NT4/JZ
GPC Cleanup: Yes

Sample Amount: 7.98 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 28.3%

CAS Number	Analyte	RL	Result
108-95-2	Phenol	63	< 63 U
111-44-4	Bis-(2-Chloroethyl) Ether	63	< 63 U
95-57-8	2-Chlorophenol	63	< 63 U
541-73-1	1,3-Dichlorobenzene	63	< 63 U
106-46-7	1,4-Dichlorobenzene	63	< 63 U
100-51-6	Benzyl Alcohol	310	< 310 U
95-50-1	1,2-Dichlorobenzene	63	< 63 U
95-48-7	2-Methylphenol	63	< 63 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	63	< 63 U
106-44-5	4-Methylphenol	63	< 63 U
621-64-7	N-Nitroso-Di-N-Propylamine	63	< 63 U
67-72-1	Hexachloroethane	63	< 63 U
98-95-3	Nitrobenzene	63	< 63 U
78-59-1	Isophorone	63	< 63 U
88-75-5	2-Nitrophenol	63	< 63 U
105-67-9	2,4-Dimethylphenol	63	< 63 U
65-85-0	Benzoic Acid	630	< 630 U
111-91-1	bis(2-Chloroethoxy) Methane	63	< 63 U
120-83-2	2,4-Dichlorophenol	310	< 310 U
120-82-1	1,2,4-Trichlorobenzene	63	< 63 U
91-20-3	Naphthalene	63	< 63 U
106-47-8	4-Chloroaniline	310	< 310 U
87-68-3	Hexachlorobutadiene	63	< 63 U
59-50-7	4-Chloro-3-methylphenol	310	< 310 U
91-57-6	2-Methylnaphthalene	63	< 63 U
77-47-4	Hexachlorocyclopentadiene	310	< 310 U
88-06-2	2,4,6-Trichlorophenol	310	< 310 U
95-95-4	2,4,5-Trichlorophenol	310	< 310 U
91-58-7	2-Chloronaphthalene	63	< 63 U
88-74-4	2-Nitroaniline	310	< 310 U
131-11-3	Dimethylphthalate	63	< 63 U
208-96-8	Acenaphthylene	63	< 63 U
99-09-2	3-Nitroaniline	310	< 310 U
83-32-9	Acenaphthene	63	< 63 U
51-28-5	2,4-Dinitrophenol	630	< 630 U
100-02-7	4-Nitrophenol	310	< 310 U
132-64-9	Dibenzofuran	63	< 63 U
606-20-2	2,6-Dinitrotoluene	310	< 310 U
121-14-2	2,4-Dinitrotoluene	310	< 310 U
84-66-2	Diethylphthalate	63	< 63 U
7005-72-3	4-Chlorophenyl-phenylether	63	< 63 U
86-73-7	Fluorene	63	< 63 U
100-01-6	4-Nitroaniline	310	< 310 U
534-52-1	4,6-Dinitro-2-Methylphenol	630	< 630 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS

Sample ID: JF-T2B2-SO-08
SAMPLE

Lab Sample ID: SE66L
LIMS ID: 11-775
Matrix: Soil
Date Analyzed: 01/21/11 16:28

QC Report No: SE66-The Boeing Company
Project: Jorgensen Forge PLO
7KPL2JOR

CAS Number	Analyte	RL	Result
86-30-6	N-Nitrosodiphenylamine	63	< 63 U
101-55-3	4-Bromophenyl-phenylether	63	< 63 U
118-74-1	Hexachlorobenzene	63	< 63 U
87-86-5	Pentachlorophenol	310	< 310 U
85-01-8	**Phenanthrene**	**63**	**84**
86-74-8	Carbazole	63	< 63 U
120-12-7	Anthracene	63	< 63 U
84-74-2	Di-n-Butylphthalate	63	< 63 U
206-44-0	**Fluoranthene**	**63**	**150 Q**
129-00-0	**Pyrene**	**63**	**160**
85-68-7	Butylbenzylphthalate	63	< 63 U
91-94-1	3,3'-Dichlorobenzidine	310	< 310 U
56-55-3	**Benzo(a)anthracene**	**63**	**230**
117-81-7	bis(2-Ethylhexyl)phthalate	63	< 63 U
218-01-9	**Chrysene**	**63**	**300**
117-84-0	Di-n-Octyl phthalate	63	< 63 U
50-32-8	**Benzo(a)pyrene**	**63**	**730**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**63**	**240**
53-70-3	**Dibenz(a,h)anthracene**	**63**	**420**
191-24-2	**Benzo(g,h,i)perylene**	**63**	**490**
90-12-0	1-Methylnaphthalene	63	< 63 U
TOTBFA	**Total Benzofluoranthenes**	**63**	**600**

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	56.8%	2-Fluorobiphenyl	67.6%
d14-p-Terphenyl	73.6%	d4-1,2-Dichlorobenzene	55.6%
d5-Phenol	59.2%	2-Fluorophenol	50.7%
2,4,6-Tribromophenol	77.9%	d4-2-Chlorophenol	58.7%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS

Sample ID: JF-T2B2-SO-13
SAMPLE

Lab Sample ID: SE66M
LIMS ID: 11-776
Matrix: Soil
Data Release Authorized:
Reported: 01/24/11

QC Report No: SE66-The Boeing Company
Project: Jorgensen Forge PLO
7KPL2JOR
Date Sampled: 01/13/11
Date Received: 01/13/11

Date Extracted: 01/17/11
Date Analyzed: 01/21/11 02:51
Instrument/Analyst: NT4/JZ
GPC Cleanup: Yes

Sample Amount: 7.67 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 23.9%

CAS Number	Analyte	RL	Result
108-95-2	Phenol	65	< 65 U
111-44-4	Bis-(2-Chloroethyl) Ether	65	< 65 U
95-57-8	2-Chlorophenol	65	< 65 U
541-73-1	1,3-Dichlorobenzene	65	< 65 U
106-46-7	1,4-Dichlorobenzene	65	< 65 U
100-51-6	Benzyl Alcohol	330	< 330 U
95-50-1	1,2-Dichlorobenzene	65	< 65 U
95-48-7	2-Methylphenol	65	< 65 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	65	< 65 U
106-44-5	4-Methylphenol	65	< 65 U
621-64-7	N-Nitroso-Di-N-Propylamine	65	< 65 U
67-72-1	Hexachloroethane	65	< 65 U
98-95-3	Nitrobenzene	65	< 65 U
78-59-1	Isophorone	65	< 65 U
88-75-5	2-Nitrophenol	65	< 65 U
105-67-9	2,4-Dimethylphenol	65	< 65 U
65-85-0	Benzoic Acid	650	< 650 U
111-91-1	bis(2-Chloroethoxy) Methane	65	< 65 U
120-83-2	2,4-Dichlorophenol	330	< 330 U
120-82-1	1,2,4-Trichlorobenzene	65	< 65 U
91-20-3	Naphthalene	65	< 65 U
106-47-8	4-Chloroaniline	330	< 330 U
87-68-3	Hexachlorobutadiene	65	< 65 U
59-50-7	4-Chloro-3-methylphenol	330	< 330 U
91-57-6	2-Methylnaphthalene	65	< 65 U
77-47-4	Hexachlorocyclopentadiene	330	< 330 U
88-06-2	2,4,6-Trichlorophenol	330	< 330 U
95-95-4	2,4,5-Trichlorophenol	330	< 330 U
91-58-7	2-Chloronaphthalene	65	< 65 U
88-74-4	2-Nitroaniline	330	< 330 U
131-11-3	Dimethylphthalate	65	< 65 U
208-96-8	Acenaphthylene	65	< 65 U
99-09-2	3-Nitroaniline	330	< 330 U
83-32-9	Acenaphthene	65	< 65 U
51-28-5	2,4-Dinitrophenol	650	< 650 U
100-02-7	4-Nitrophenol	330	< 330 U
132-64-9	Dibenzofuran	65	< 65 U
606-20-2	2,6-Dinitrotoluene	330	< 330 U
121-14-2	2,4-Dinitrotoluene	330	< 330 U
84-66-2	Diethylphthalate	65	< 65 U
7005-72-3	4-Chlorophenyl-phenylether	65	< 65 U
86-73-7	Fluorene	65	< 65 U
100-01-6	4-Nitroaniline	330	< 330 U
534-52-1	4,6-Dinitro-2-Methylphenol	650	< 650 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS

Sample ID: JF-T2B2-SO-13
SAMPLE

Lab Sample ID: SE66M
LIMS ID: 11-776
Matrix: Soil
Date Analyzed: 01/21/11 02:51

QC Report No: SE66-The Boeing Company
Project: Jorgensen Forge PLO
7KPL2JOR

CAS Number	Analyte	RL	Result
86-30-6	N-Nitrosodiphenylamine	65	< 65 U
101-55-3	4-Bromophenyl-phenylether	65	< 65 U
118-74-1	Hexachlorobenzene	65	< 65 U
87-86-5	Pentachlorophenol	330	< 330 U
85-01-8	Phenanthrene	65	< 65 U
86-74-8	Carbazole	65	< 65 U
120-12-7	Anthracene	65	< 65 U
84-74-2	Di-n-Butylphthalate	65	< 65 U
206-44-0	Fluoranthene	65	< 65 U
129-00-0	Pyrene	65	< 65 U
85-68-7	Butylbenzylphthalate	65	< 65 U
91-94-1	3,3'-Dichlorobenzidine	330	< 330 U
56-55-3	Benzo(a)anthracene	65	< 65 U
117-81-7	bis(2-Ethylhexyl)phthalate	65	< 65 U
218-01-9	Chrysene	65	< 65 U
117-84-0	Di-n-Octyl phthalate	65	< 65 U
50-32-8	Benzo(a)pyrene	65	< 65 U
193-39-5	Indeno(1,2,3-cd)pyrene	65	< 65 U
53-70-3	Dibenz(a,h)anthracene	65	< 65 U
191-24-2	Benzo(g,h,i)perylene	65	< 65 U
90-12-0	1-Methylnaphthalene	65	< 65 U
TOTBFA	Total Benzofluoranthenes	65	< 65 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	58.4%	2-Fluorobiphenyl	66.8%
d14-p-Terphenyl	76.4%	d4-1,2-Dichlorobenzene	62.4%
d5-Phenol	63.2%	2-Fluorophenol	58.7%
2,4,6-Tribromophenol	78.4%	d4-2-Chlorophenol	63.5%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS

Sample ID: JF-T2B3-SO-02
SAMPLE

Lab Sample ID: SE66N
LIMS ID: 11-777
Matrix: Soil
Data Release Authorized:
Reported: 01/24/11

QC Report No: SE66-The Boeing Company
Project: Jorgensen Forge PLO
7KPL2JOR
Date Sampled: 01/13/11
Date Received: 01/13/11

Date Extracted: 01/17/11
Date Analyzed: 01/21/11 12:34
Instrument/Analyst: NT4/JZ
GPC Cleanup: Yes

Sample Amount: 7.88 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 13.2%

CAS Number	Analyte	RL	Result
108-95-2	Phenol	64	< 64 U
111-44-4	Bis-(2-Chloroethyl) Ether	64	< 64 U
95-57-8	2-Chlorophenol	64	< 64 U
541-73-1	1,3-Dichlorobenzene	64	< 64 U
106-46-7	1,4-Dichlorobenzene	64	< 64 U
100-51-6	Benzyl Alcohol	320	< 320 U
95-50-1	1,2-Dichlorobenzene	64	< 64 U
95-48-7	2-Methylphenol	64	< 64 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	64	< 64 U
106-44-5	4-Methylphenol	64	< 64 U
621-64-7	N-Nitroso-Di-N-Propylamine	64	< 64 U
67-72-1	Hexachloroethane	64	< 64 U
98-95-3	Nitrobenzene	64	< 64 U
78-59-1	Isophorone	64	< 64 U
88-75-5	2-Nitrophenol	64	< 64 U
105-67-9	2,4-Dimethylphenol	64	< 64 U
65-85-0	Benzoic Acid	640	< 640 U
111-91-1	bis(2-Chloroethoxy) Methane	64	< 64 U
120-83-2	2,4-Dichlorophenol	320	< 320 U
120-82-1	1,2,4-Trichlorobenzene	64	< 64 U
91-20-3	Naphthalene	64	< 64 U
106-47-8	4-Chloroaniline	320	< 320 U
87-68-3	Hexachlorobutadiene	64	< 64 U
59-50-7	4-Chloro-3-methylphenol	320	< 320 U
91-57-6	2-Methylnaphthalene	64	< 64 U
77-47-4	Hexachlorocyclopentadiene	320	< 320 U
88-06-2	2,4,6-Trichlorophenol	320	< 320 U
95-95-4	2,4,5-Trichlorophenol	320	< 320 U
91-58-7	2-Chloronaphthalene	64	< 64 U
88-74-4	2-Nitroaniline	320	< 320 U
131-11-3	Dimethylphthalate	64	< 64 U
208-96-8	Acenaphthylene	64	< 64 U
99-09-2	3-Nitroaniline	320	< 320 U
83-32-9	Acenaphthene	64	< 64 U
51-28-5	2,4-Dinitrophenol	640	< 640 U
100-02-7	4-Nitrophenol	320	< 320 U
132-64-9	Dibenzofuran	64	< 64 U
606-20-2	2,6-Dinitrotoluene	320	< 320 U
121-14-2	2,4-Dinitrotoluene	320	< 320 U
84-66-2	Diethylphthalate	64	< 64 U
7005-72-3	4-Chlorophenyl-phenylether	64	< 64 U
86-73-7	Fluorene	64	< 64 U
100-01-6	4-Nitroaniline	320	< 320 U
534-52-1	4,6-Dinitro-2-Methylphenol	640	< 640 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS

Sample ID: JF-T2B3-SO-02
SAMPLE

Lab Sample ID: SE66N
LIMS ID: 11-777
Matrix: Soil
Date Analyzed: 01/21/11 12:34

QC Report No: SE66-The Boeing Company
Project: Jorgensen Forge PLO
7KPL2JOR

CAS Number	Analyte	RL	Result
86-30-6	N-Nitrosodiphenylamine	64	< 64 U
101-55-3	4-Bromophenyl-phenylether	64	< 64 U
118-74-1	Hexachlorobenzene	64	< 64 U
87-86-5	Pentachlorophenol	320	< 320 U
85-01-8	Phenanthrene	64	< 64 U
86-74-8	Carbazole	64	< 64 U
120-12-7	Anthracene	64	< 64 U
84-74-2	Di-n-Butylphthalate	64	< 64 U
206-44-0	Fluoranthene	64	< 64 U
129-00-0	Pyrene	64	< 64 U
85-68-7	Butylbenzylphthalate	64	< 64 U
91-94-1	3,3'-Dichlorobenzidine	320	< 320 U
56-55-3	Benzo(a)anthracene	64	< 64 U
117-81-7	bis(2-Ethylhexyl)phthalate	64	< 64 U
218-01-9	Chrysene	64	< 64 U
117-84-0	Di-n-Octyl phthalate	64	< 64 U
50-32-8	Benzo(a)pyrene	64	< 64 U
193-39-5	Indeno(1,2,3-cd)pyrene	64	< 64 U
53-70-3	Dibenz(a,h)anthracene	64	< 64 U
191-24-2	Benzo(g,h,i)perylene	64	< 64 U
90-12-0	1-Methylnaphthalene	64	< 64 U
TOTBFA	Total Benzofluoranthenes	64	< 64 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	58.4%	2-Fluorobiphenyl	72.8%
d14-p-Terphenyl	81.2%	d4-1,2-Dichlorobenzene	58.8%
d5-Phenol	63.5%	2-Fluorophenol	53.1%
2,4,6-Tribromophenol	81.1%	d4-2-Chlorophenol	62.9%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS

Sample ID: JF-T2B3-SO-08
SAMPLE

Lab Sample ID: SE66O
LIMS ID: 11-778
Matrix: Soil
Data Release Authorized:
Reported: 01/24/11

QC Report No: SE66-The Boeing Company
Project: Jorgensen Forge PLO
7KPL2JOR
Date Sampled: 01/13/11
Date Received: 01/13/11

Date Extracted: 01/17/11
Date Analyzed: 01/21/11 13:07
Instrument/Analyst: NT4/JZ
GPC Cleanup: Yes

Sample Amount: 8.31 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 25.1%

CAS Number	Analyte	RL	Result
108-95-2	Phenol	60	< 60 U
111-44-4	Bis-(2-Chloroethyl) Ether	60	< 60 U
95-57-8	2-Chlorophenol	60	< 60 U
541-73-1	1,3-Dichlorobenzene	60	< 60 U
106-46-7	1,4-Dichlorobenzene	60	< 60 U
100-51-6	Benzyl Alcohol	300	< 300 U
95-50-1	1,2-Dichlorobenzene	60	< 60 U
95-48-7	2-Methylphenol	60	< 60 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	60	< 60 U
106-44-5	4-Methylphenol	60	< 60 U
621-64-7	N-Nitroso-Di-N-Propylamine	60	< 60 U
67-72-1	Hexachloroethane	60	< 60 U
98-95-3	Nitrobenzene	60	< 60 U
78-59-1	Isophorone	60	< 60 U
88-75-5	2-Nitrophenol	60	< 60 U
105-67-9	2,4-Dimethylphenol	60	< 60 U
65-85-0	Benzoic Acid	600	< 600 U
111-91-1	bis(2-Chloroethoxy) Methane	60	< 60 U
120-83-2	2,4-Dichlorophenol	300	< 300 U
120-82-1	1,2,4-Trichlorobenzene	60	< 60 U
91-20-3	Naphthalene	60	< 60 U
106-47-8	4-Chloroaniline	300	< 300 U
87-68-3	Hexachlorobutadiene	60	< 60 U
59-50-7	4-Chloro-3-methylphenol	300	< 300 U
91-57-6	2-Methylnaphthalene	60	< 60 U
77-47-4	Hexachlorocyclopentadiene	300	< 300 U
88-06-2	2,4,6-Trichlorophenol	300	< 300 U
95-95-4	2,4,5-Trichlorophenol	300	< 300 U
91-58-7	2-Chloronaphthalene	60	< 60 U
88-74-4	2-Nitroaniline	300	< 300 U
131-11-3	Dimethylphthalate	60	< 60 U
208-96-8	Acenaphthylene	60	< 60 U
99-09-2	3-Nitroaniline	300	< 300 U
83-32-9	Acenaphthene	60	< 60 U
51-28-5	2,4-Dinitrophenol	600	< 600 U
100-02-7	4-Nitrophenol	300	< 300 U
132-64-9	Dibenzofuran	60	< 60 U
606-20-2	2,6-Dinitrotoluene	300	< 300 U
121-14-2	2,4-Dinitrotoluene	300	< 300 U
84-66-2	Diethylphthalate	60	< 60 U
7005-72-3	4-Chlorophenyl-phenylether	60	< 60 U
86-73-7	Fluorene	60	< 60 U
100-01-6	4-Nitroaniline	300	< 300 U
534-52-1	4,6-Dinitro-2-Methylphenol	600	< 600 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS

Sample ID: JF-T2B3-SO-08
SAMPLE

Lab Sample ID: SE66O
LIMS ID: 11-778
Matrix: Soil
Date Analyzed: 01/21/11 13:07

QC Report No: SE66-The Boeing Company
Project: Jorgensen Forge PLO
7KPL2JOR

CAS Number	Analyte	RL	Result
86-30-6	N-Nitrosodiphenylamine	60	< 60 U
101-55-3	4-Bromophenyl-phenylether	60	< 60 U
118-74-1	Hexachlorobenzene	60	< 60 U
87-86-5	Pentachlorophenol	300	< 300 U
85-01-8	Phenanthrene	60	< 60 U
86-74-8	Carbazole	60	< 60 U
120-12-7	Anthracene	60	< 60 U
84-74-2	Di-n-Butylphthalate	60	< 60 U
206-44-0	**Fluoranthene**	**60**	**61 Q**
129-00-0	**Pyrene**	**60**	**72**
85-68-7	Butylbenzylphthalate	60	< 60 U
91-94-1	3,3'-Dichlorobenzidine	300	< 300 U
56-55-3	Benzo(a)anthracene	60	< 60 U
117-81-7	bis(2-Ethylhexyl)phthalate	60	< 60 U
218-01-9	Chrysene	60	< 60 U
117-84-0	Di-n-Octyl phthalate	60	< 60 U
50-32-8	Benzo(a)pyrene	60	< 60 U
193-39-5	Indeno(1,2,3-cd)pyrene	60	< 60 U
53-70-3	Dibenz(a,h)anthracene	60	< 60 U
191-24-2	Benzo(g,h,i)perylene	60	< 60 U
90-12-0	1-Methylnaphthalene	60	< 60 U
TOTBFA	**Total Benzofluoranthenes**	**60**	**81**

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	59.2%	2-Fluorobiphenyl	66.4%
d14-p-Terphenyl	75.6%	d4-1,2-Dichlorobenzene	61.6%
d5-Phenol	62.1%	2-Fluorophenol	56.3%
2,4,6-Tribromophenol	80.3%	d4-2-Chlorophenol	62.7%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS

Sample ID: JF-T2B3-SO-13
SAMPLE

Lab Sample ID: SE66P
LIMS ID: 11-779
Matrix: Soil
Data Release Authorized:
Reported: 01/24/11

QC Report No: SE66-The Boeing Company
Project: Jorgensen Forge PLO
7KPL2JOR
Date Sampled: 01/13/11
Date Received: 01/13/11

Date Extracted: 01/17/11
Date Analyzed: 01/21/11 13:40
Instrument/Analyst: NT4/JZ
GPC Cleanup: Yes

Sample Amount: 7.71 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 23.4%

CAS Number	Analyte	RL	Result
108-95-2	Phenol	65	< 65 U
111-44-4	Bis-(2-Chloroethyl) Ether	65	< 65 U
95-57-8	2-Chlorophenol	65	< 65 U
541-73-1	1,3-Dichlorobenzene	65	< 65 U
106-46-7	1,4-Dichlorobenzene	65	< 65 U
100-51-6	Benzyl Alcohol	320	< 320 U
95-50-1	1,2-Dichlorobenzene	65	< 65 U
95-48-7	2-Methylphenol	65	< 65 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	65	< 65 U
106-44-5	4-Methylphenol	65	< 65 U
621-64-7	N-Nitroso-Di-N-Propylamine	65	< 65 U
67-72-1	Hexachloroethane	65	< 65 U
98-95-3	Nitrobenzene	65	< 65 U
78-59-1	Isophorone	65	< 65 U
88-75-5	2-Nitrophenol	65	< 65 U
105-67-9	2,4-Dimethylphenol	65	< 65 U
65-85-0	Benzoic Acid	650	< 650 U
111-91-1	bis(2-Chloroethoxy) Methane	65	< 65 U
120-83-2	2,4-Dichlorophenol	320	< 320 U
120-82-1	1,2,4-Trichlorobenzene	65	< 65 U
91-20-3	Naphthalene	65	< 65 U
106-47-8	4-Chloroaniline	320	< 320 U
87-68-3	Hexachlorobutadiene	65	< 65 U
59-50-7	4-Chloro-3-methylphenol	320	< 320 U
91-57-6	2-Methylnaphthalene	65	< 65 U
77-47-4	Hexachlorocyclopentadiene	320	< 320 U
88-06-2	2,4,6-Trichlorophenol	320	< 320 U
95-95-4	2,4,5-Trichlorophenol	320	< 320 U
91-58-7	2-Chloronaphthalene	65	< 65 U
88-74-4	2-Nitroaniline	320	< 320 U
131-11-3	Dimethylphthalate	65	< 65 U
208-96-8	Acenaphthylene	65	< 65 U
99-09-2	3-Nitroaniline	320	< 320 U
83-32-9	Acenaphthene	65	< 65 U
51-28-5	2,4-Dinitrophenol	650	< 650 U
100-02-7	4-Nitrophenol	320	< 320 U
132-64-9	Dibenzofuran	65	< 65 U
606-20-2	2,6-Dinitrotoluene	320	< 320 U
121-14-2	2,4-Dinitrotoluene	320	< 320 U
84-66-2	Diethylphthalate	65	< 65 U
7005-72-3	4-Chlorophenyl-phenylether	65	< 65 U
86-73-7	Fluorene	65	< 65 U
100-01-6	4-Nitroaniline	320	< 320 U
534-52-1	4,6-Dinitro-2-Methylphenol	650	< 650 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS

Sample ID: JF-T2B3-SO-13
SAMPLE

Lab Sample ID: SE66P
LIMS ID: 11-779
Matrix: Soil
Date Analyzed: 01/21/11 13:40

QC Report No: SE66-The Boeing Company
Project: Jorgensen Forge PLO
7KPL2JOR

CAS Number	Analyte	RL	Result
86-30-6	N-Nitrosodiphenylamine	65	< 65 U
101-55-3	4-Bromophenyl-phenylether	65	< 65 U
118-74-1	Hexachlorobenzene	65	< 65 U
87-86-5	Pentachlorophenol	320	< 320 U
85-01-8	Phenanthrene	65	< 65 U
86-74-8	Carbazole	65	< 65 U
120-12-7	Anthracene	65	< 65 U
84-74-2	Di-n-Butylphthalate	65	< 65 U
206-44-0	**Fluoranthene**	**65**	**73 Q**
129-00-0	**Pyrene**	**65**	**82**
85-68-7	Butylbenzylphthalate	65	< 65 U
91-94-1	3,3'-Dichlorobenzidine	320	< 320 U
56-55-3	Benzo(a)anthracene	65	< 65 U
117-81-7	bis(2-Ethylhexyl)phthalate	65	< 65 U
218-01-9	Chrysene	65	< 65 U
117-84-0	Di-n-Octyl phthalate	65	< 65 U
50-32-8	Benzo(a)pyrene	65	< 65 U
193-39-5	Indeno(1,2,3-cd)pyrene	65	< 65 U
53-70-3	Dibenz(a,h)anthracene	65	< 65 U
191-24-2	Benzo(g,h,i)perylene	65	< 65 U
90-12-0	1-Methylnaphthalene	65	< 65 U
TOTBFA	**Total Benzofluoranthenes**	**65**	**67**

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	54.4%	2-Fluorobiphenyl	66.8%
d14-p-Terphenyl	75.6%	d4-1,2-Dichlorobenzene	55.6%
d5-Phenol	58.1%	2-Fluorophenol	51.5%
2,4,6-Tribromophenol	79.7%	d4-2-Chlorophenol	57.6%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS

Sample ID: JF-T2B4-SO-03
SAMPLE

Lab Sample ID: SE66Q
LIMS ID: 11-780
Matrix: Soil
Data Release Authorized:
Reported: 01/24/11

QC Report No: SE66-The Boeing Company
Project: Jorgensen Forge PLO
7KPL2JOR
Date Sampled: 01/13/11
Date Received: 01/13/11

Date Extracted: 01/17/11
Date Analyzed: 01/21/11 17:04
Instrument/Analyst: NT4/JZ
GPC Cleanup: Yes

Sample Amount: 7.95 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 12.0%

CAS Number	Analyte	RL	Result
108-95-2	Phenol	63	< 63 U
111-44-4	Bis-(2-Chloroethyl) Ether	63	< 63 U
95-57-8	2-Chlorophenol	63	< 63 U
541-73-1	1,3-Dichlorobenzene	63	< 63 U
106-46-7	1,4-Dichlorobenzene	63	< 63 U
100-51-6	Benzyl Alcohol	310	< 310 U
95-50-1	1,2-Dichlorobenzene	63	< 63 U
95-48-7	2-Methylphenol	63	< 63 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	63	< 63 U
106-44-5	4-Methylphenol	63	< 63 U
621-64-7	N-Nitroso-Di-N-Propylamine	63	< 63 U
67-72-1	Hexachloroethane	63	< 63 U
98-95-3	Nitrobenzene	63	< 63 U
78-59-1	Isophorone	63	< 63 U
88-75-5	2-Nitrophenol	63	< 63 U
105-67-9	2,4-Dimethylphenol	63	< 63 U
65-85-0	Benzoic Acid	630	< 630 U
111-91-1	bis(2-Chloroethoxy) Methane	63	< 63 U
120-83-2	2,4-Dichlorophenol	310	< 310 U
120-82-1	1,2,4-Trichlorobenzene	63	< 63 U
91-20-3	Naphthalene	63	< 63 U
106-47-8	4-Chloroaniline	310	< 310 U
87-68-3	Hexachlorobutadiene	63	< 63 U
59-50-7	4-Chloro-3-methylphenol	310	< 310 U
91-57-6	2-Methylnaphthalene	63	< 63 U
77-47-4	Hexachlorocyclopentadiene	310	< 310 U
88-06-2	2,4,6-Trichlorophenol	310	< 310 U
95-95-4	2,4,5-Trichlorophenol	310	< 310 U
91-58-7	2-Chloronaphthalene	63	< 63 U
88-74-4	2-Nitroaniline	310	< 310 U
131-11-3	Dimethylphthalate	63	< 63 U
208-96-8	Acenaphthylene	63	< 63 U
99-09-2	3-Nitroaniline	310	< 310 U
83-32-9	Acenaphthene	63	< 63 U
51-28-5	2,4-Dinitrophenol	630	< 630 U
100-02-7	4-Nitrophenol	310	< 310 U
132-64-9	Dibenzofuran	63	< 63 U
606-20-2	2,6-Dinitrotoluene	310	< 310 U
121-14-2	2,4-Dinitrotoluene	310	< 310 U
84-66-2	Diethylphthalate	63	< 63 U
7005-72-3	4-Chlorophenyl-phenylether	63	< 63 U
86-73-7	Fluorene	63	< 63 U
100-01-6	4-Nitroaniline	310	< 310 U
534-52-1	4,6-Dinitro-2-Methylphenol	630	< 630 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS

Sample ID: JF-T2B4-SO-03
SAMPLE

Lab Sample ID: SE66Q
LIMS ID: 11-780
Matrix: Soil
Date Analyzed: 01/21/11 17:04

QC Report No: SE66-The Boeing Company
Project: Jorgensen Forge PLO
7KPL2JOR

CAS Number	Analyte	RL	Result
86-30-6	N-Nitrosodiphenylamine	63	< 63 U
101-55-3	4-Bromophenyl-phenylether	63	< 63 U
118-74-1	Hexachlorobenzene	63	< 63 U
87-86-5	Pentachlorophenol	310	< 310 U
85-01-8	Phenanthrene	63	< 63 U
86-74-8	Carbazole	63	< 63 U
120-12-7	Anthracene	63	< 63 U
84-74-2	**Di-n-Butylphthalate**	**63**	**65**
206-44-0	Fluoranthene	63	< 63 U
129-00-0	Pyrene	63	< 63 U
85-68-7	Butylbenzylphthalate	63	< 63 U
91-94-1	3,3'-Dichlorobenzidine	310	< 310 U
56-55-3	Benzo(a)anthracene	63	< 63 U
117-81-7	bis(2-Ethylhexyl)phthalate	63	< 63 U
218-01-9	**Chrysene**	**63**	**81 M**
117-84-0	Di-n-Octyl phthalate	63	< 63 U
50-32-8	Benzo(a)pyrene	63	< 63 U
193-39-5	Indeno(1,2,3-cd)pyrene	63	< 63 U
53-70-3	Dibenz(a,h)anthracene	63	< 63 U
191-24-2	Benzo(g,h,i)perylene	63	< 63 U
90-12-0	1-Methylnaphthalene	63	< 63 U
TOTBFA	Total Benzofluoranthenes	63	< 63 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	63.6%	2-Fluorobiphenyl	79.6%
d14-p-Terphenyl	88.0%	d4-1,2-Dichlorobenzene	64.4%
d5-Phenol	75.5%	2-Fluorophenol	65.6%
2,4,6-Tribromophenol	89.3%	d4-2-Chlorophenol	74.1%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS

Sample ID: MB-011711
METHOD BLANK

Lab Sample ID: MB-011711
LIMS ID: 11-771
Matrix: Soil
Data Release Authorized:
Reported: 01/24/11

QC Report No: SE66-The Boeing Company
Project: Jorgensen Forge PLO
7KPL2JOR
Date Sampled: NA
Date Received: NA

Date Extracted: 01/17/11
Date Analyzed: 01/20/11 21:51
Instrument/Analyst: NT4/JZ
GPC Cleanup: Yes

Sample Amount: 7.50 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: NA

CAS Number	Analyte	RL	Result
108-95-2	Phenol	67	< 67 U
111-44-4	Bis-(2-Chloroethyl) Ether	67	< 67 U
95-57-8	2-Chlorophenol	67	< 67 U
541-73-1	1,3-Dichlorobenzene	67	< 67 U
106-46-7	1,4-Dichlorobenzene	67	< 67 U
100-51-6	Benzyl Alcohol	330	< 330 U
95-50-1	1,2-Dichlorobenzene	67	< 67 U
95-48-7	2-Methylphenol	67	< 67 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	67	< 67 U
106-44-5	4-Methylphenol	67	< 67 U
621-64-7	N-Nitroso-Di-N-Propylamine	67	< 67 U
67-72-1	Hexachloroethane	67	< 67 U
98-95-3	Nitrobenzene	67	< 67 U
78-59-1	Isophorone	67	< 67 U
88-75-5	2-Nitrophenol	67	< 67 U
105-67-9	2,4-Dimethylphenol	67	< 67 U
65-85-0	Benzoic Acid	670	< 670 U
111-91-1	bis(2-Chloroethoxy) Methane	67	< 67 U
120-83-2	2,4-Dichlorophenol	330	< 330 U
120-82-1	1,2,4-Trichlorobenzene	67	< 67 U
91-20-3	Naphthalene	67	< 67 U
106-47-8	4-Chloroaniline	330	< 330 U
87-68-3	Hexachlorobutadiene	67	< 67 U
59-50-7	4-Chloro-3-methylphenol	330	< 330 U
91-57-6	2-Methylnaphthalene	67	< 67 U
77-47-4	Hexachlorocyclopentadiene	330	< 330 U
88-06-2	2,4,6-Trichlorophenol	330	< 330 U
95-95-4	2,4,5-Trichlorophenol	330	< 330 U
91-58-7	2-Chloronaphthalene	67	< 67 U
88-74-4	2-Nitroaniline	330	< 330 U
131-11-3	Dimethylphthalate	67	< 67 U
208-96-8	Acenaphthylene	67	< 67 U
99-09-2	3-Nitroaniline	330	< 330 U
83-32-9	Acenaphthene	67	< 67 U
51-28-5	2,4-Dinitrophenol	670	< 670 U
100-02-7	4-Nitrophenol	330	< 330 U
132-64-9	Dibenzofuran	67	< 67 U
606-20-2	2,6-Dinitrotoluene	330	< 330 U
121-14-2	2,4-Dinitrotoluene	330	< 330 U
84-66-2	Diethylphthalate	67	< 67 U
7005-72-3	4-Chlorophenyl-phenylether	67	< 67 U
86-73-7	Fluorene	67	< 67 U
100-01-6	4-Nitroaniline	330	< 330 U
534-52-1	4,6-Dinitro-2-Methylphenol	670	< 670 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS

Sample ID: MB-011711
METHOD BLANK

Lab Sample ID: MB-011711
LIMS ID: 11-771
Matrix: Soil
Date Analyzed: 01/20/11 21:51

QC Report No: SE66-The Boeing Company
Project: Jorgensen Forge PLO
7KPL2JOR

CAS Number	Analyte	RL	Result
86-30-6	N-Nitrosodiphenylamine	67	< 67 U
101-55-3	4-Bromophenyl-phenylether	67	< 67 U
118-74-1	Hexachlorobenzene	67	< 67 U
87-86-5	Pentachlorophenol	330	< 330 U
85-01-8	Phenanthrene	67	< 67 U
86-74-8	Carbazole	67	< 67 U
120-12-7	Anthracene	67	< 67 U
84-74-2	Di-n-Butylphthalate	67	< 67 U
206-44-0	Fluoranthene	67	< 67 U
129-00-0	Pyrene	67	< 67 U
85-68-7	Butylbenzylphthalate	67	< 67 U
91-94-1	3,3'-Dichlorobenzidine	330	< 330 U
56-55-3	Benzo(a)anthracene	67	< 67 U
117-81-7	bis(2-Ethylhexyl)phthalate	67	< 67 U
218-01-9	Chrysene	67	< 67 U
117-84-0	Di-n-Octyl phthalate	67	< 67 U
50-32-8	Benzo(a)pyrene	67	< 67 U
193-39-5	Indeno(1,2,3-cd)pyrene	67	< 67 U
53-70-3	Dibenz(a,h)anthracene	67	< 67 U
191-24-2	Benzo(g,h,i)perylene	67	< 67 U
90-12-0	1-Methylnaphthalene	67	< 67 U
TOTBFA	Total Benzofluoranthenes	67	< 67 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	62.4%	2-Fluorobiphenyl	69.2%
d14-p-Terphenyl	84.8%	d4-1,2-Dichlorobenzene	65.6%
d5-Phenol	68.3%	2-Fluorophenol	62.7%
2,4,6-Tribromophenol	74.9%	d4-2-Chlorophenol	66.7%

ANALYTICAL RESOURCES INCORPORATED

SW8270 SEMIVOLATILES SOIL/SEDIMENT SURROGATE RECOVERY SUMMARY

Matrix: Soil

QC Report No: SE66-The Boeing Company
Project: Jorgensen Forge PLO
7KPL2JOR

Client ID	NBZ	FBP	TPH	DCB	PHL	2FP	TBP	2CP	TOT OUT
MB-011711	62.4%	69.2%	84.8%	65.6%	68.3%	62.7%	74.9%	66.7%	0
LCS-011711	70.8%	76.0%	93.6%	72.8%	73.3%	68.8%	96.5%	74.1%	0
LCSD-011711	69.2%	72.8%	91.6%	68.8%	71.7%	66.1%	93.6%	71.7%	0
JF-T2B1-SO-03	59.2%	72.0%	81.2%	59.6%	63.5%	52.8%	81.1%	61.6%	0
JF-T2B1-SO-08	67.2%	75.2%	89.6%	72.0%	72.0%	66.9%	89.3%	72.5%	0
JF-T2B1-SO-13	58.8%	66.0%	76.8%	62.8%	61.9%	57.1%	79.2%	62.9%	0
JF-T2B2-SO-03	58.4%	70.0%	78.0%	58.4%	61.3%	50.1%	81.1%	61.1%	0
JF-T2B2-SO-08	56.8%	67.6%	73.6%	55.6%	59.2%	50.7%	77.9%	58.7%	0
JF-T2B2-SO-13	58.4%	66.8%	76.4%	62.4%	63.2%	58.7%	78.4%	63.5%	0
JF-T2B3-SO-02	58.4%	72.8%	81.2%	58.8%	63.5%	53.1%	81.1%	62.9%	0
JF-T2B3-SO-08	59.2%	66.4%	75.6%	61.6%	62.1%	56.3%	80.3%	62.7%	0
JF-T2B3-SO-13	54.4%	66.8%	75.6%	55.6%	58.1%	51.5%	79.7%	57.6%	0
JF-T2B4-SO-03	63.6%	79.6%	88.0%	64.4%	75.5%	65.6%	89.3%	74.1%	0

	LCS/MB LIMITS	QC LIMITS
(NBZ) = d5-Nitrobenzene	(46-102)	(32-106)
(FBP) = 2-Fluorobiphenyl	(51-105)	(39-107)
(TPH) = d14-p-Terphenyl	(55-124)	(31-130)
(DCB) = d4-1,2-Dichlorobenzene	(48-104)	(38-102)
(PHL) = d5-Phenol	(44-110)	(27-112)
(2FP) = 2-Fluorophenol	(38-112)	(22-108)
(TBP) = 2,4,6-Tribromophenol	(54-120)	(31-131)
(2CP) = d4-2-Chlorophenol	(50-103)	(36-104)

Prep Method: SW3546
Log Number Range: 11-771 to 11-780

FORM-II SW8270

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS

Sample ID: LCS-011711
LCS/LCSD

Lab Sample ID: LCS-011711
LIMS ID: 11-771
Matrix: Soil
Data Release Authorized:
Reported: 01/24/11

QC Report No: SE66-The Boeing Company
Project: Jorgensen Forge PLO
7KPL2JOR
Date Sampled: 01/13/11
Date Received: 01/13/11

Date Extracted LCS/LCSD: 01/17/11

Date Analyzed LCS: 01/20/11 22:24
LCSD: 01/20/11 22:58
Instrument/Analyst LCS: NT4/JZ
LCSD: NT4/JZ
GPC Cleanup: Yes

Sample Amount LCS: 7.50 g
LCSD: 7.50 g
Final Extract Volume LCS: 0.5 mL
LCSD: 0.5 mL
Dilution Factor LCS: 1.00
LCSD: 1.00
Percent Moisture: NA

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Phenol	1220	1670	73.1%	1200	1670	71.9%	1.7%
Bis-(2-Chloroethyl) Ether	1140	1670	68.3%	1120	1670	67.1%	1.8%
2-Chlorophenol	1260	1670	75.4%	1240	1670	74.3%	1.6%
1,3-Dichlorobenzene	1160	1670	69.5%	1120	1670	67.1%	3.5%
1,4-Dichlorobenzene	1170	1670	70.1%	1130	1670	67.7%	3.5%
Benzyl Alcohol	2300	3330	69.1%	2260	3330	67.9%	1.8%
1,2-Dichlorobenzene	1170	1670	70.1%	1130	1670	67.7%	3.5%
2-Methylphenol	1110	1670	66.5%	1080	1670	64.7%	2.7%
2,2'-Oxybis(1-Chloropropane)	1070	1670	64.1%	1040	1670	62.3%	2.8%
4-Methylphenol	2270	3330	68.2%	2210	3330	66.4%	2.7%
N-Nitroso-Di-N-Propylamine	1250	1670	74.9%	1220	1670	73.1%	2.4%
Hexachloroethane	1110	1670	66.5%	1050	1670	62.9%	5.6%
Nitrobenzene	1200	1670	71.9%	1180	1670	70.7%	1.7%
Isophorone	1380	1670	82.6%	1350	1670	80.8%	2.2%
2-Nitrophenol	1350	1670	80.8%	1340	1670	80.2%	0.7%
2,4-Dimethylphenol	1140	1670	68.3%	1150	1670	68.9%	0.9%
Benzoic Acid	4070	5000	81.4%	3890	5000	77.8%	4.5%
bis(2-Chloroethoxy) Methane	1160	1670	69.5%	1130	1670	67.7%	2.6%
2,4-Dichlorophenol	1400	1670	83.8%	1370	1670	82.0%	2.2%
1,2,4-Trichlorobenzene	1240	1670	74.3%	1210	1670	72.5%	2.4%
Naphthalene	1320	1670	79.0%	1280	1670	76.6%	3.1%
4-Chloroaniline	3490	4000	87.2%	3530	4000	88.2%	1.1%
Hexachlorobutadiene	1290	1670	77.2%	1260	1670	75.4%	2.4%
4-Chloro-3-methylphenol	1470	1670	88.0%	1420	1670	85.0%	3.5%
2-Methylnaphthalene	1220	1670	73.1%	1200	1670	71.9%	1.7%
Hexachlorocyclopentadiene	3010	5000	60.2%	3150	5000	63.0%	4.5%
2,4,6-Trichlorophenol	1440	1670	86.2%	1390	1670	83.2%	3.5%
2,4,5-Trichlorophenol	1330	1670	79.6%	1300	1670	77.8%	2.3%
2-Chloronaphthalene	1300	1670	77.8%	1270	1670	76.0%	2.3%
2-Nitroaniline	1330	1670	79.6%	1300	1670	77.8%	2.3%
Dimethylphthalate	1390	1670	83.2%	1390	1670	83.2%	0.0%
Acenaphthylene	1390	1670	83.2%	1360	1670	81.4%	2.2%
3-Nitroaniline	4070	4270	95.3%	4160	4270	97.4%	2.2%
Acenaphthene	1360	1670	81.4%	1340	1670	80.2%	1.5%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS

Sample ID: LCSD-011711
LCS/LCSD

Lab Sample ID: LCS-011711
LIMS ID: 11-771
Matrix: Soil
Date Analyzed LCS: 01/20/11 22:24
LCSD: 01/20/11 22:58

QC Report No: SE66-The Boeing Company
Project: Jorgensen Forge PLO
7KPL2JOR

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
2,4-Dinitrophenol	3540 Q	5000	70.8%	3650 Q	5000	73.0%	3.1%
4-Nitrophenol	1940 Q	1670	116%	1960 Q	1670	117%	1.0%
Dibenzofuran	1350	1670	80.8%	1320	1670	79.0%	2.2%
2,6-Dinitrotoluene	1410	1670	84.4%	1410	1670	84.4%	0.0%
2,4-Dinitrotoluene	1520	1670	91.0%	1530	1670	91.6%	0.7%
Diethylphthalate	1400	1670	83.8%	1400	1670	83.8%	0.0%
4-Chlorophenyl-phenylether	1380	1670	82.6%	1360	1670	81.4%	1.5%
Fluorene	1460	1670	87.4%	1450	1670	86.8%	0.7%
4-Nitroaniline	1450	1670	86.8%	1480	1670	88.6%	2.0%
4,6-Dinitro-2-Methylphenol	4390	5000	87.8%	4590	5000	91.8%	4.5%
N-Nitrosodiphenylamine	1290	1670	77.2%	1340	1670	80.2%	3.8%
4-Bromophenyl-phenylether	1320	1670	79.0%	1320	1670	79.0%	0.0%
Hexachlorobenzene	1320	1670	79.0%	1330	1670	79.6%	0.8%
Pentachlorophenol	1530	1670	91.6%	1520	1670	91.0%	0.7%
Phenanthrene	1480	1670	88.6%	1490	1670	89.2%	0.7%
Carbazole	1410	1670	84.4%	1420	1670	85.0%	0.7%
Anthracene	1460	1670	87.4%	1470	1670	88.0%	0.7%
Di-n-Butylphthalate	1420	1670	85.0%	1430	1670	85.6%	0.7%
Fluoranthene	1590 Q	1670	95.2%	1580 Q	1670	94.6%	0.6%
Pyrene	1620	1670	97.0%	1600	1670	95.8%	1.2%
Butylbenzylphthalate	1450	1670	86.8%	1460	1670	87.4%	0.7%
3,3'-Dichlorobenzidine	4190	4270	98.1%	4300	4270	101%	2.6%
Benzo(a)anthracene	1620	1670	97.0%	1640	1670	98.2%	1.2%
bis(2-Ethylhexyl)phthalate	1360	1670	81.4%	1390	1670	83.2%	2.2%
Chrysene	1650	1670	98.8%	1640	1670	98.2%	0.6%
Di-n-Octyl phthalate	1210	1670	72.5%	1210	1670	72.5%	0.0%
Benzo(a)pyrene	1470	1670	88.0%	1480	1670	88.6%	0.7%
Indeno(1,2,3-cd)pyrene	1240	1670	74.3%	1250	1670	74.9%	0.8%
Dibenz(a,h)anthracene	1320	1670	79.0%	1320	1670	79.0%	0.0%
Benzo(g,h,i)perylene	1030	1670	61.7%	1040	1670	62.3%	1.0%
1-Methylnaphthalene	1300	1670	77.8%	1260	1670	75.4%	3.1%
Total Benzofluoranthenes	3230	3330	97.0%	3230	3330	97.0%	0.0%

Semivolatile Surrogate Recovery

	LCS	LCSD
d5-Nitrobenzene	70.8%	69.2%
2-Fluorobiphenyl	76.0%	72.8%
d14-p-Terphenyl	93.6%	91.6%
d4-1,2-Dichlorobenzene	72.8%	68.8%
d5-Phenol	73.3%	71.7%
2-Fluorophenol	68.8%	66.1%
2,4,6-Tribromophenol	96.5%	93.6%
d4-2-Chlorophenol	74.1%	71.7%

Reported in µg/kg (ppb)
RPD calculated using sample concentrations per SW846.

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS

Sample ID: JF-T3B1-SO-13-R
SAMPLE

Lab Sample ID: SE66G
LIMS ID: 11-770
Matrix: Water
Data Release Authorized:
Reported: 01/25/11

QC Report No: SE66-The Boeing Company
Project: Jorgensen Forge PLO
7KPL2JOR
Date Sampled: 01/13/11
Date Received: 01/13/11

Date Extracted: 01/17/11
Date Analyzed: 01/20/11 19:30
Instrument/Analyst: NT6/JZ

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
108-95-2	**Phenol**	**1.0**	**1.2 Q**
111-44-4	Bis-(2-Chloroethyl) Ether	1.0	< 1.0 U
95-57-8	2-Chlorophenol	1.0	< 1.0 U
541-73-1	1,3-Dichlorobenzene	1.0	< 1.0 U
106-46-7	1,4-Dichlorobenzene	1.0	< 1.0 U
100-51-6	Benzyl Alcohol	5.0	< 5.0 U
95-50-1	1,2-Dichlorobenzene	1.0	< 1.0 U
95-48-7	2-Methylphenol	1.0	< 1.0 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	1.0	< 1.0 U
106-44-5	4-Methylphenol	1.0	< 1.0 U
621-64-7	N-Nitroso-Di-N-Propylamine	1.0	< 1.0 U
67-72-1	Hexachloroethane	1.0	< 1.0 U
98-95-3	Nitrobenzene	1.0	< 1.0 U
78-59-1	Isophorone	1.0	< 1.0 U
88-75-5	2-Nitrophenol	5.0	< 5.0 U
105-67-9	2,4-Dimethylphenol	1.0	< 1.0 U
65-85-0	Benzoic Acid	10	< 10 U
111-91-1	bis(2-Chloroethoxy) Methane	1.0	< 1.0 U
120-83-2	2,4-Dichlorophenol	5.0	< 5.0 U
120-82-1	1,2,4-Trichlorobenzene	1.0	< 1.0 U
91-20-3	Naphthalene	1.0	< 1.0 U
106-47-8	4-Chloroaniline	5.0	< 5.0 U
87-68-3	Hexachlorobutadiene	1.0	< 1.0 U
59-50-7	4-Chloro-3-methylphenol	5.0	< 5.0 U
91-57-6	2-Methylnaphthalene	1.0	< 1.0 U
77-47-4	Hexachlorocyclopentadiene	5.0	< 5.0 U
88-06-2	2,4,6-Trichlorophenol	5.0	< 5.0 U
95-95-4	2,4,5-Trichlorophenol	5.0	< 5.0 U
91-58-7	2-Chloronaphthalene	1.0	< 1.0 U
88-74-4	2-Nitroaniline	5.0	< 5.0 U
131-11-3	Dimethylphthalate	1.0	< 1.0 U
208-96-8	Acenaphthylene	1.0	< 1.0 U
99-09-2	3-Nitroaniline	5.0	< 5.0 U
83-32-9	Acenaphthene	1.0	< 1.0 U
51-28-5	2,4-Dinitrophenol	10	< 10 U
100-02-7	4-Nitrophenol	5.0	< 5.0 U
132-64-9	Dibenzofuran	1.0	< 1.0 U
606-20-2	2,6-Dinitrotoluene	5.0	< 5.0 U
121-14-2	2,4-Dinitrotoluene	5.0	< 5.0 U
84-66-2	**Diethylphthalate**	**1.0**	**13**

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS

Sample ID: JF-T3B1-SO-13-R
SAMPLE

Lab Sample ID: SE66G
LIMS ID: 11-770
Matrix: Water
Date Analyzed: 01/20/11 19:30

QC Report No: SE66-The Boeing Company
Project: Jorgensen Forge PLO
7KPL2JOR

CAS Number	Analyte	RL	Result
7005-72-3	4-Chlorophenyl-phenylether	1.0	< 1.0 U
86-73-7	Fluorene	1.0	< 1.0 U
100-01-6	4-Nitroaniline	5.0	< 5.0 U
534-52-1	4,6-Dinitro-2-Methylphenol	10	< 10 U
86-30-6	N-Nitrosodiphenylamine	1.0	< 1.0 U
101-55-3	4-Bromophenyl-phenylether	1.0	< 1.0 U
118-74-1	Hexachlorobenzene	1.0	< 1.0 U
87-86-5	Pentachlorophenol	5.0	< 5.0 U
85-01-8	Phenanthrene	1.0	< 1.0 U
86-74-8	Carbazole	1.0	< 1.0 U
120-12-7	Anthracene	1.0	< 1.0 U
84-74-2	**Di-n-Butylphthalate**	**1.0**	**1.7**
206-44-0	Fluoranthene	1.0	< 1.0 U
129-00-0	Pyrene	1.0	< 1.0 U
85-68-7	Butylbenzylphthalate	1.0	< 1.0 U
91-94-1	3,3'-Dichlorobenzidine	5.0	< 5.0 U
56-55-3	Benzo(a)anthracene	1.0	< 1.0 U
117-81-7	bis(2-Ethylhexyl)phthalate	1.0	< 1.0 U
218-01-9	Chrysene	1.0	< 1.0 U
117-84-0	Di-n-Octyl phthalate	1.0	< 1.0 U
50-32-8	Benzo(a)pyrene	1.0	< 1.0 U
193-39-5	Indeno(1,2,3-cd)pyrene	1.0	< 1.0 U
53-70-3	Dibenz(a,h)anthracene	1.0	< 1.0 U
191-24-2	Benzo(g,h,i)perylene	1.0	< 1.0 U
90-12-0	1-Methylnaphthalene	1.0	< 1.0 U
TOTBFA	Total Benzofluoranthenes	1.0	< 1.0 U

Reported in µg/L (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	69.6%	2-Fluorobiphenyl	77.2%
d14-p-Terphenyl	81.2%	d4-1,2-Dichlorobenzene	65.2%
d5-Phenol	67.7%	2-Fluorophenol	72.3%
2,4,6-Tribromophenol	76.0%	d4-2-Chlorophenol	72.3%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS

Sample ID: MB-011711
METHOD BLANK

Lab Sample ID: MB-011711
LIMS ID: 11-770
Matrix: Water
Data Release Authorized: MW
Reported: 01/25/11

QC Report No: SE66-The Boeing Company
Project: Jorgensen Forge PLO
7KPL2JOR
Date Sampled: NA
Date Received: NA

Date Extracted: 01/17/11
Date Analyzed: 01/20/11 16:46
Instrument/Analyst: NT6/JZ

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
108-95-2	Phenol	1.0	< 1.0 U
111-44-4	Bis-(2-Chloroethyl) Ether	1.0	< 1.0 U
95-57-8	2-Chlorophenol	1.0	< 1.0 U
541-73-1	1,3-Dichlorobenzene	1.0	< 1.0 U
106-46-7	1,4-Dichlorobenzene	1.0	< 1.0 U
100-51-6	Benzyl Alcohol	5.0	< 5.0 U
95-50-1	1,2-Dichlorobenzene	1.0	< 1.0 U
95-48-7	2-Methylphenol	1.0	< 1.0 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	1.0	< 1.0 U
106-44-5	4-Methylphenol	1.0	< 1.0 U
621-64-7	N-Nitroso-Di-N-Propylamine	1.0	< 1.0 U
67-72-1	Hexachloroethane	1.0	< 1.0 U
98-95-3	Nitrobenzene	1.0	< 1.0 U
78-59-1	Isophorone	1.0	< 1.0 U
88-75-5	2-Nitrophenol	5.0	< 5.0 U
105-67-9	2,4-Dimethylphenol	1.0	< 1.0 U
65-85-0	Benzoic Acid	10	< 10 U
111-91-1	bis(2-Chloroethoxy) Methane	1.0	< 1.0 U
120-83-2	2,4-Dichlorophenol	5.0	< 5.0 U
120-82-1	1,2,4-Trichlorobenzene	1.0	< 1.0 U
91-20-3	Naphthalene	1.0	< 1.0 U
106-47-8	4-Chloroaniline	5.0	< 5.0 U
87-68-3	Hexachlorobutadiene	1.0	< 1.0 U
59-50-7	4-Chloro-3-methylphenol	5.0	< 5.0 U
91-57-6	2-Methylnaphthalene	1.0	< 1.0 U
77-47-4	Hexachlorocyclopentadiene	5.0	< 5.0 U
88-06-2	2,4,6-Trichlorophenol	5.0	< 5.0 U
95-95-4	2,4,5-Trichlorophenol	5.0	< 5.0 U
91-58-7	2-Chloronaphthalene	1.0	< 1.0 U
88-74-4	2-Nitroaniline	5.0	< 5.0 U
131-11-3	Dimethylphthalate	1.0	< 1.0 U
208-96-8	Acenaphthylene	1.0	< 1.0 U
99-09-2	3-Nitroaniline	5.0	< 5.0 U
83-32-9	Acenaphthene	1.0	< 1.0 U
51-28-5	2,4-Dinitrophenol	10	< 10 U
100-02-7	4-Nitrophenol	5.0	< 5.0 U
132-64-9	Dibenzofuran	1.0	< 1.0 U
606-20-2	2,6-Dinitrotoluene	5.0	< 5.0 U
121-14-2	2,4-Dinitrotoluene	5.0	< 5.0 U
84-66-2	Diethylphthalate	1.0	< 1.0 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS

Sample ID: MB-011711
METHOD BLANK

Lab Sample ID: MB-011711
LIMS ID: 11-770
Matrix: Water
Date Analyzed: 01/20/11 16:46

QC Report No: SE66-The Boeing Company
Project: Jorgensen Forge PLO
7KPL2JOR

CAS Number	Analyte	RL	Result
7005-72-3	4-Chlorophenyl-phenylether	1.0	< 1.0 U
86-73-7	Fluorene	1.0	< 1.0 U
100-01-6	4-Nitroaniline	5.0	< 5.0 U
534-52-1	4,6-Dinitro-2-Methylphenol	10	< 10 U
86-30-6	N-Nitrosodiphenylamine	1.0	< 1.0 U
101-55-3	4-Bromophenyl-phenylether	1.0	< 1.0 U
118-74-1	Hexachlorobenzene	1.0	< 1.0 U
87-86-5	Pentachlorophenol	5.0	< 5.0 U
85-01-8	Phenanthrene	1.0	< 1.0 U
86-74-8	Carbazole	1.0	< 1.0 U
120-12-7	Anthracene	1.0	< 1.0 U
84-74-2	Di-n-Butylphthalate	1.0	< 1.0 U
206-44-0	Fluoranthene	1.0	< 1.0 U
129-00-0	Pyrene	1.0	< 1.0 U
85-68-7	Butylbenzylphthalate	1.0	< 1.0 U
91-94-1	3,3'-Dichlorobenzidine	5.0	< 5.0 U
56-55-3	Benzo(a)anthracene	1.0	< 1.0 U
117-81-7	bis(2-Ethylhexyl)phthalate	1.0	< 1.0 U
218-01-9	Chrysene	1.0	< 1.0 U
117-84-0	Di-n-Octyl phthalate	1.0	< 1.0 U
50-32-8	Benzo(a)pyrene	1.0	< 1.0 U
193-39-5	Indeno(1,2,3-cd)pyrene	1.0	< 1.0 U
53-70-3	Dibenz(a,h)anthracene	1.0	< 1.0 U
191-24-2	Benzo(g,h,i)perylene	1.0	< 1.0 U
90-12-0	1-Methylnaphthalene	1.0	< 1.0 U

Reported in µg/L (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	79.2%	2-Fluorobiphenyl	84.8%
d14-p-Terphenyl	84.4%	d4-1,2-Dichlorobenzene	73.6%
d5-Phenol	74.7%	2-Fluorophenol	82.1%
2,4,6-Tribromophenol	80.8%	d4-2-Chlorophenol	82.1%

ANALYTICAL RESOURCES INCORPORATED

SW8270 SEMIVOLATILES WATER SURROGATE RECOVERY SUMMARY

Matrix: Water

QC Report No: SE66-The Boeing Company
Project: Jorgensen Forge PLO
7KPL2JOR

Client ID	NBZ	FBP	TPH	DCB	PHL	2FP	TBP	2CP	TOT OUT
MB-011711	79.2%	84.8%	84.4%	73.6%	74.7%	82.1%	80.8%	82.1%	0
LCS-011711	77.6%	90.0%	89.2%	65.6%	76.5%	75.5%	90.4%	79.2%	0
LCSD-011711	74.4%	87.6%	86.8%	63.2%	70.9%	71.7%	89.1%	74.7%	0
JF-T3B1-SO-13-R	69.6%	77.2%	81.2%	65.2%	67.7%	72.3%	76.0%	72.3%	0

	LCS/MB LIMITS	QC LIMITS
(NBZ) = d5-Nitrobenzene	(46-100)	(39-100)
(FBP) = 2-Fluorobiphenyl	(49-100)	(42-100)
(TPH) = d14-p-Terphenyl	(53-119)	(26-114)
(DCB) = d4-1,2-Dichlorobenzene	(38-100)	(32-100)
(PHL) = d5-Phenol	(50-100)	(41-100)
(2FP) = 2-Fluorophenol	(46-100)	(38-100)
(TBP) = 2,4,6-Tribromophenol	(52-123)	(48-118)
(2CP) = d4-2-Chlorophenol	(53-100)	(44-100)

Prep Method: SW3520C
Log Number Range: 11-770 to 11-770

FORM-II SW8270

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS

Sample ID: LCS-011711
LCS/LCSD

Lab Sample ID: LCS-011711
LIMS ID: 11-770
Matrix: Water
Data Release Authorized:
Reported: 01/25/11

QC Report No: SE66-The Boeing Company
Project: Jorgensen Forge PLO
7KPL2JOR
Date Sampled: 01/13/11
Date Received: 01/13/11

Date Extracted LCS/LCSD: 01/17/11

Date Analyzed LCS: 01/20/11 17:19
LCSD: 01/20/11 17:51
Instrument/Analyst LCS: NT6/JZ
LCSD: NT6/JZ
GPC Cleanup: NO

Sample Amount LCS: 500 mL
LCSD: 500 mL
Final Extract Volume LCS: 0.50 mL
LCSD: 0.50 mL
Dilution Factor LCS: 1.00
LCSD: 1.00

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Phenol	17.9 Q	25.0	71.6%	17.3 Q	25.0	69.2%	3.4%
Bis-(2-Chloroethyl) Ether	17.9	25.0	71.6%	17.5	25.0	70.0%	2.3%
2-Chlorophenol	19.7	25.0	78.8%	19.3	25.0	77.2%	2.1%
1,3-Dichlorobenzene	13.8	25.0	55.2%	13.1	25.0	52.4%	5.2%
1,4-Dichlorobenzene	14.2	25.0	56.8%	13.4	25.0	53.6%	5.8%
Benzyl Alcohol	33.8	50.0	67.6%	32.7	50.0	65.4%	3.3%
1,2-Dichlorobenzene	14.9	25.0	59.6%	14.1	25.0	56.4%	5.5%
2-Methylphenol	16.5	25.0	66.0%	16.4	25.0	65.6%	0.6%
2,2'-Oxybis(1-Chloropropane)	15.5 Q	25.0	62.0%	15.1 Q	25.0	60.4%	2.6%
4-Methylphenol	33.4	50.0	66.8%	32.7	50.0	65.4%	2.1%
N-Nitroso-Di-N-Propylamine	16.4 Q	25.0	65.6%	16.3 Q	25.0	65.2%	0.6%
Hexachloroethane	12.8	25.0	51.2%	11.5	25.0	46.0%	10.7%
Nitrobenzene	19.1	25.0	76.4%	18.6	25.0	74.4%	2.7%
Isophorone	21.2	25.0	84.8%	20.9	25.0	83.6%	1.4%
2-Nitrophenol	22.3	25.0	89.2%	22.0	25.0	88.0%	1.4%
2,4-Dimethylphenol	19.1	25.0	76.4%	19.3	25.0	77.2%	1.0%
Benzoic Acid	59.6	75.0	79.5%	62.0	75.0	82.7%	3.9%
bis(2-Chloroethoxy) Methane	18.8	25.0	75.2%	17.9	25.0	71.6%	4.9%
2,4-Dichlorophenol	22.0	25.0	88.0%	21.8	25.0	87.2%	0.9%
1,2,4-Trichlorobenzene	16.4	25.0	65.6%	15.6	25.0	62.4%	5.0%
Naphthalene	19.8	25.0	79.2%	19.3	25.0	77.2%	2.6%
4-Chloroaniline	57.8	60.0	96.3%	55.8	60.0	93.0%	3.5%
Hexachlorobutadiene	14.2	25.0	56.8%	12.9	25.0	51.6%	9.6%
4-Chloro-3-methylphenol	21.4	25.0	85.6%	21.0	25.0	84.0%	1.9%
2-Methylnaphthalene	17.5	25.0	70.0%	16.9	25.0	67.6%	3.5%
Hexachlorocyclopentadiene	31.4	75.0	41.9%	30.7	75.0	40.9%	2.3%
2,4,6-Trichlorophenol	24.2	25.0	96.8%	24.3	25.0	97.2%	0.4%
2,4,5-Trichlorophenol	21.9	25.0	87.6%	21.7	25.0	86.8%	0.9%
2-Chloronaphthalene	21.4	25.0	85.6%	20.7	25.0	82.8%	3.3%
2-Nitroaniline	20.3	25.0	81.2%	20.2	25.0	80.8%	0.5%
Dimethylphthalate	22.6	25.0	90.4%	22.8	25.0	91.2%	0.9%
Acenaphthylene	23.0	25.0	92.0%	22.7	25.0	90.8%	1.3%
3-Nitroaniline	68.7	64.0	107%	69.0	64.0	108%	0.4%
Acenaphthene	22.4	25.0	89.6%	21.9	25.0	87.6%	2.3%
2,4-Dinitrophenol	66.9 Q	75.0	89.2%	70.4 Q	75.0	93.9%	5.1%
4-Nitrophenol	24.6	25.0	98.4%	25.5	25.0	102%	3.6%
Dibenzofuran	21.3	25.0	85.2%	20.8	25.0	83.2%	2.4%
2,6-Dinitrotoluene	23.0	25.0	92.0%	22.9	25.0	91.6%	0.4%
2,4-Dinitrotoluene	22.8	25.0	91.2%	22.5	25.0	90.0%	1.3%
Diethylphthalate	21.8	25.0	87.2%	21.8	25.0	87.2%	0.0%
4-Chlorophenyl-phenylether	21.1	25.0	84.4%	20.1	25.0	80.4%	4.9%
Fluorene	23.4	25.0	93.6%	22.5	25.0	90.0%	3.9%
4-Nitroaniline	22.4	25.0	89.6%	22.2	25.0	88.8%	0.9%
4,6-Dinitro-2-Methylphenol	72.5	75.0	96.7%	76.7	75.0	102%	5.6%
N-Nitrosodiphenylamine	21.4	25.0	85.6%	20.9	25.0	83.6%	2.4%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS

Sample ID: LCS-011711
LCS/LCSD

Lab Sample ID: LCS-011711
LIMS ID: 11-770
Matrix: Water
Date Analyzed LCS: 01/20/11 17:19
LCSD: 01/20/11 17:51

QC Report No: SE66-The Boeing Company
Project: Jorgensen Forge PLO
7KPL2JOR

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
4-Bromophenyl-phenylether	22.1	25.0	88.4%	20.6	25.0	82.4%	7.0%
Hexachlorobenzene	21.4	25.0	85.6%	20.6	25.0	82.4%	3.8%
Pentachlorophenol	26.8	25.0	107%	26.9	25.0	108%	0.4%
Phenanthrene	24.9	25.0	99.6%	24.2	25.0	96.8%	2.9%
Carbazole	23.4	25.0	93.6%	23.0	25.0	92.0%	1.7%
Anthracene	24.4	25.0	97.6%	23.4	25.0	93.6%	4.2%
Di-n-Butylphthalate	23.9	25.0	95.6%	23.0	25.0	92.0%	3.8%
Fluoranthene	25.7	25.0	103%	24.8	25.0	99.2%	3.6%
Pyrene	24.2	25.0	96.8%	23.2	25.0	92.8%	4.2%
Butylbenzylphthalate	23.3	25.0	93.2%	22.1	25.0	88.4%	5.3%
3,3'-Dichlorobenzidine	61.3	64.0	95.8%	15.2	64.0	23.8%	121%
Benzo(a)anthracene	26.1	25.0	104%	25.3	25.0	101%	3.1%
bis(2-Ethylhexyl)phthalate	22.8	25.0	91.2%	22.5	25.0	90.0%	1.3%
Chrysene	26.7	25.0	107%	25.8	25.0	103%	3.4%
Di-n-Octyl phthalate	23.0	25.0	92.0%	22.4	25.0	89.6%	2.6%
Benzo(a)pyrene	23.3	25.0	93.2%	22.3	25.0	89.2%	4.4%
Indeno(1,2,3-cd)pyrene	30.5	25.0	122%	29.1	25.0	116%	4.7%
Dibenz(a,h)anthracene	30.8 Q	25.0	123%	29.4 Q	25.0	118%	4.7%
Benzo(g,h,i)perylene	30.7 Q	25.0	123%	28.7 Q	25.0	115%	6.7%
1-Methylnaphthalene	18.8	25.0	75.2%	18.2	25.0	72.8%	3.2%
Total Benzofluoranthenes	48.7	50.0	97.4%	46.6	50.0	93.2%	4.4%

Semivolatile Surrogate Recovery

	LCS	LCSD
d5-Nitrobenzene	77.6%	74.4%
2-Fluorobiphenyl	90.0%	87.6%
d14-p-Terphenyl	89.2%	86.8%
d4-1,2-Dichlorobenzene	65.6%	63.2%
d5-Phenol	76.5%	70.9%
2-Fluorophenol	75.5%	71.7%
2,4,6-Tribromophenol	90.4%	89.1%
d4-2-Chlorophenol	79.2%	74.7%

Results reported in µg/L
RPD calculated using sample concentrations per SW846.

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: JF-T2B2-GW-15
SAMPLE

Lab Sample ID: SE66A
LIMS ID: 11-764
Matrix: Water
Data Release Authorized: MW
Reported: 01/26/11

QC Report No: SE66-The Boeing Company
Project: Jorgensen Forge PLO
7KPL2JOR
Date Sampled: 01/13/11
Date Received: 01/13/11

Date Extracted: 01/18/11
Date Analyzed: 01/22/11 18:16
Instrument/Analyst: ECD7/AAR
GPC Cleanup: No
Sulfur Cleanup: Yes

Sample Amount: 1000 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00
Silica Gel: Yes
Acid Cleanup: Yes

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	0.010	< 0.010 U
53469-21-9	Aroclor 1242	0.010	< 0.010 U
12672-29-6	Aroclor 1248	0.010	< 0.010 U
11097-69-1	Aroclor 1254	0.010	< 0.010 U
11096-82-5	Aroclor 1260	0.010	< 0.010 U
11104-28-2	Aroclor 1221	0.010	< 0.010 U
11141-16-5	Aroclor 1232	0.010	< 0.010 U
37324-23-5	Aroclor 1262	0.010	< 0.010 U
11100-14-4	Aroclor 1268	0.010	< 0.010 U

Reported in µg/L (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	65.0%
Tetrachlorometaxylene	70.2%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: JF-T2B3-GW-15
SAMPLE

Lab Sample ID: SE66B
LIMS ID: 11-765
Matrix: Water
Data Release Authorized: MW
Reported: 01/26/11

QC Report No: SE66-The Boeing Company
Project: Jorgensen Forge PLO
7KPL2JOR
Date Sampled: 01/13/11
Date Received: 01/13/11

Date Extracted: 01/18/11
Date Analyzed: 01/22/11 18:40
Instrument/Analyst: ECD7/AAR
GPC Cleanup: No
Sulfur Cleanup: Yes

Sample Amount: 1000 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00
Silica Gel: Yes
Acid Cleanup: Yes

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	0.010	< 0.010 U
53469-21-9	Aroclor 1242	0.010	< 0.010 U
12672-29-6	Aroclor 1248	0.010	< 0.010 U
11097-69-1	Aroclor 1254	0.010	< 0.010 U
11096-82-5	Aroclor 1260	0.010	< 0.010 U
11104-28-2	Aroclor 1221	0.010	< 0.010 U
11141-16-5	Aroclor 1232	0.010	< 0.010 U
37324-23-5	Aroclor 1262	0.010	< 0.010 U
11100-14-4	Aroclor 1268	0.010	< 0.010 U

Reported in µg/L (ppb)

PCB Surrogate Recovery	
Decachlorobiphenyl	70.2%
Tetrachlorometaxylene	64.8%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: JF-T2B3-GW-15-D
SAMPLE

Lab Sample ID: SE66C
LIMS ID: 11-766
Matrix: Water
Data Release Authorized:
Reported: 01/26/11

QC Report No: SE66-The Boeing Company
Project: Jorgensen Forge PLO
7KPL2JOR
Date Sampled: 01/13/11
Date Received: 01/13/11

Date Extracted: 01/18/11
Date Analyzed: 01/22/11 19:03
Instrument/Analyst: ECD7/AAR
GPC Cleanup: No
Sulfur Cleanup: Yes

Sample Amount: 1000 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00
Silica Gel: Yes
Acid Cleanup: Yes

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	0.010	< 0.010 U
53469-21-9	Aroclor 1242	0.010	< 0.010 U
12672-29-6	Aroclor 1248	0.010	< 0.010 U
11097-69-1	Aroclor 1254	0.010	< 0.010 U
11096-82-5	Aroclor 1260	0.010	< 0.010 U
11104-28-2	Aroclor 1221	0.010	< 0.010 U
11141-16-5	Aroclor 1232	0.010	< 0.010 U
37324-23-5	Aroclor 1262	0.010	< 0.010 U
11100-14-4	Aroclor 1268	0.010	< 0.010 U

Reported in µg/L (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	66.0%
Tetrachlorometaxylene	61.0%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: JF-T2B4-GW-20
SAMPLE

Lab Sample ID: SE66D
LIMS ID: 11-767
Matrix: Water
Data Release Authorized:
Reported: 01/26/11

QC Report No: SE66-The Boeing Company
Project: Jorgensen Forge PLO
7KPL2JOR
Date Sampled: 01/13/11
Date Received: 01/13/11

Date Extracted: 01/18/11
Date Analyzed: 01/26/11 00:51
Instrument/Analyst: ECD5/AAR
GPC Cleanup: No
Sulfur Cleanup: Yes

Sample Amount: 1000 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 20.0
Silica Gel: Yes
Acid Cleanup: Yes

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	0.20	< 0.20 U
53469-21-9	Aroclor 1242	0.20	< 0.20 U
12672-29-6	**Aroclor 1248**	**0.20**	**1.8**
11097-69-1	**Aroclor 1254**	**0.20**	**2.5**
11096-82-5	Aroclor 1260	0.20	< 0.20 U
11104-28-2	Aroclor 1221	0.20	< 0.20 U
11141-16-5	Aroclor 1232	0.20	< 0.20 U
37324-23-5	Aroclor 1262	0.20	< 0.20 U
11100-14-4	Aroclor 1268	0.20	< 0.20 U

Reported in µg/L (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	94.0%
Tetrachlorometaxylene	83.0%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: JF-T3B4-GW-24
SAMPLE

Lab Sample ID: SE66E
LIMS ID: 11-768
Matrix: Water
Data Release Authorized: MW
Reported: 01/26/11

QC Report No: SE66-The Boeing Company
Project: Jorgensen Forge PLO
7KPL2JOR
Date Sampled: 01/13/11
Date Received: 01/13/11

Date Extracted: 01/18/11
Date Analyzed: 01/22/11 19:51
Instrument/Analyst: ECD7/AAR
GPC Cleanup: No
Sulfur Cleanup: Yes

Sample Amount: 1000 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00
Silica Gel: Yes
Acid Cleanup: Yes

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	0.010	< 0.010 U
53469-21-9	Aroclor 1242	0.010	< 0.010 U
12672-29-6	Aroclor 1248	0.010	< 0.010 U
11097-69-1	Aroclor 1254	0.010	< 0.010 U
11096-82-5	Aroclor 1260	0.010	< 0.010 U
11104-28-2	Aroclor 1221	0.010	< 0.010 U
11141-16-5	Aroclor 1232	0.010	< 0.010 U
37324-23-5	Aroclor 1262	0.010	< 0.010 U
11100-14-4	Aroclor 1268	0.010	< 0.010 U

Reported in µg/L (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	56.0%
Tetrachlorometaxylene	59.5%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: JF-T3B3-GW-15
SAMPLE

Lab Sample ID: SE66F
LIMS ID: 11-769
Matrix: Water
Data Release Authorized:
Reported: 01/26/11

QC Report No: SE66-The Boeing Company
Project: Jorgensen Forge PLO
7KPL2JOR
Date Sampled: 01/13/11
Date Received: 01/13/11

Date Extracted: 01/18/11
Date Analyzed: 01/22/11 20:15
Instrument/Analyst: ECD7/AAR
GPC Cleanup: No
Sulfur Cleanup: Yes

Sample Amount: 1000 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00
Silica Gel: Yes
Acid Cleanup: Yes

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	0.010	< 0.010 U
53469-21-9	Aroclor 1242	0.010	< 0.010 U
12672-29-6	Aroclor 1248	0.010	< 0.010 U
11097-69-1	**Aroclor 1254**	**0.010**	**0.018**
11096-82-5	**Aroclor 1260**	**0.010**	**0.017**
11104-28-2	Aroclor 1221	0.010	< 0.010 U
11141-16-5	Aroclor 1232	0.010	< 0.010 U
37324-23-5	Aroclor 1262	0.014	< 0.014 Y
11100-14-4	Aroclor 1268	0.010	< 0.010 U

Reported in µg/L (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	70.2%
Tetrachlorometaxylene	61.0%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: JF-T3B1-SO-13-R
SAMPLE

Lab Sample ID: SE66G
LIMS ID: 11-770
Matrix: Water
Data Release Authorized:
Reported: 01/26/11

QC Report No: SE66-The Boeing Company
Project: Jorgensen Forge PLO
7KPL2JOR
Date Sampled: 01/13/11
Date Received: 01/13/11

Date Extracted: 01/18/11
Date Analyzed: 01/22/11 20:38
Instrument/Analyst: ECD7/AAR
GPC Cleanup: No
Sulfur Cleanup: Yes

Sample Amount: 1000 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00
Silica Gel: Yes
Acid Cleanup: Yes

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	0.010	< 0.010 U
53469-21-9	Aroclor 1242	0.010	< 0.010 U
12672-29-6	Aroclor 1248	0.021	< 0.021 Y
11097-69-1	**Aroclor 1254**	**0.010**	**0.057**
11096-82-5	Aroclor 1260	0.010	< 0.010 U
11104-28-2	Aroclor 1221	0.010	< 0.010 U
11141-16-5	Aroclor 1232	0.010	< 0.010 U
37324-23-5	Aroclor 1262	0.010	< 0.010 U
11100-14-4	Aroclor 1268	0.010	< 0.010 U

Reported in µg/L (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	55.0%
Tetrachlorometaxylene	61.8%

ANALYTICAL RESOURCES INCORPORATED

SW8082/PCB WATER SURROGATE RECOVERY SUMMARY

Matrix: Water

QC Report No: SE66-The Boeing Company
Project: Jorgensen Forge PLO
7KPL2JOR

Client ID	DCBP % REC	DCBP LCL-UCL	TCMX % REC	TCMX LCL-UCL	TOT OUT
MB-011811	72.2%	32-108	59.0%	31-100	0
LCS-011811	77.8%	32-108	62.8%	31-100	0
LCSD-011811	70.5%	32-108	58.0%	31-100	0
JF-T2B2-GW-15	65.0%	19-111	70.2%	21-100	0
JF-T2B3-GW-15	70.2%	19-111	64.8%	21-100	0
JF-T2B3-GW-15-D	66.0%	19-111	61.0%	21-100	0
JF-T2B4-GW-20	94.0%	19-111	83.0%	21-100	0
JF-T3B4-GW-24	56.0%	19-111	59.5%	21-100	0
JF-T3B3-GW-15	70.2%	19-111	61.0%	21-100	0
JF-T3B1-SO-13-R	55.0%	19-111	61.8%	21-100	0

Prep Method: SW3510C
Log Number Range: 11-764 to 11-770

FORM-II SW8082

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: MB-011811
METHOD BLANK

Lab Sample ID: MB-011811
LIMS ID: 11-764
Matrix: Water
Data Release Authorized: MW
Reported: 01/26/11

QC Report No: SE66-The Boeing Company
Project: Jorgensen Forge PLO
7KPL2JOR
Date Sampled: NA
Date Received: NA

Date Extracted: 01/18/11
Date Analyzed: 01/22/11 17:05
Instrument/Analyst: ECD7/AAR
GPC Cleanup: No
Sulfur Cleanup: Yes

Sample Amount: 1000 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00
Silica Gel: Yes
Acid Cleanup: Yes

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	0.010	< 0.010 U
53469-21-9	Aroclor 1242	0.010	< 0.010 U
12672-29-6	Aroclor 1248	0.010	< 0.010 U
11097-69-1	Aroclor 1254	0.010	< 0.010 U
11096-82-5	Aroclor 1260	0.010	< 0.010 U
11104-28-2	Aroclor 1221	0.010	< 0.010 U
11141-16-5	Aroclor 1232	0.010	< 0.010 U
37324-23-5	Aroclor 1262	0.010	< 0.010 U
11100-14-4	Aroclor 1268	0.010	< 0.010 U

Reported in µg/L (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	72.2%
Tetrachlorometaxylene	59.0%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: LCS-011811
LCS/LCSD

Lab Sample ID: LCS-011811
LIMS ID: 11-764
Matrix: Water
Data Release Authorized: MW
Reported: 01/26/11

QC Report No: SE66-The Boeing Company
Project: Jorgensen Forge PLO
7KPL2JOR
Date Sampled: NA
Date Received: NA

Date Extracted LCS/LCSD: 01/18/11

Date Analyzed LCS: 01/22/11 17:29
LCSD: 01/22/11 17:52
Instrument/Analyst LCS: ECD7/AAR
LCSD: ECD7/AAR
GPC Cleanup: No
Sulfur Cleanup: Yes

Sample Amount LCS: 1000 mL
LCSD: 1000 mL
Final Extract Volume LCS: 0.50 mL
LCSD: 0.50 mL
Dilution Factor LCS: 1.00
LCSD: 1.00
Silica Gel: Yes
Acid Cleanup: Yes

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Aroclor 1016	0.041	0.050	82.0%	0.039	0.050	78.0%	5.0%
Aroclor 1260	0.042	0.050	84.0%	0.040	0.050	80.0%	4.9%

PCB Surrogate Recovery

	LCS	LCSD
Decachlorobiphenyl	77.8%	70.5%
Tetrachlorometaxylene	62.8%	58.0%

Results reported in µg/L
RPD calculated using sample concentrations per SW846.

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JF-T2B1-SO-03
SAMPLE

Lab Sample ID: SE66H
LIMS ID: 11-771
Matrix: Soil
Data Release Authorized:
Reported: 01/25/11

QC Report No: SE66-The Boeing Company
Project: Jorgensen Forge PLO
7KPL2JOR
Date Sampled: 01/13/11
Date Received: 01/13/11

Date Extracted: 01/17/11
Date Analyzed: 01/21/11 20:27
Instrument/Analyst: ECD5/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.1 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 5.00
Silica Gel: Yes

Percent Moisture: 16.6%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	4.0	< 4.0 U
53469-21-9	Aroclor 1242	4.0	< 4.0 U
12672-29-6	Aroclor 1248	4.0	< 4.0 U
11097-69-1	Aroclor 1254	4.0	< 4.0 U
11096-82-5	Aroclor 1260	4.0	< 4.0 U
11104-28-2	Aroclor 1221	4.0	< 4.0 U
11141-16-5	Aroclor 1232	4.0	< 4.0 U
37324-23-5	**Aroclor 1262**	**4.0**	**9.8**
11100-14-4	Aroclor 1268	4.0	< 4.0 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	99.1%
Tetrachlorometaxylene	72.1%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JF-T2B1-SO-08
SAMPLE

Lab Sample ID: SE66I
LIMS ID: 11-772
Matrix: Soil
Data Release Authorized:
Reported: 01/25/11

QC Report No: SE66-The Boeing Company
Project: Jorgensen Forge PLO
7KPL2JOR
Date Sampled: 01/13/11
Date Received: 01/13/11

Date Extracted: 01/17/11
Date Analyzed: 01/22/11 15:55
Instrument/Analyst: ECD5/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.8 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 5.00
Silica Gel: Yes

Percent Moisture: 19.6%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	3.9	< 3.9 U
53469-21-9	Aroclor 1242	3.9	< 3.9 U
12672-29-6	Aroclor 1248	3.9	< 3.9 U
11097-69-1	Aroclor 1254	3.9	< 3.9 U
11096-82-5	Aroclor 1260	3.9	< 3.9 U
11104-28-2	Aroclor 1221	3.9	< 3.9 U
11141-16-5	Aroclor 1232	3.9	< 3.9 U
37324-23-5	Aroclor 1262	3.9	< 3.9 U
11100-14-4	Aroclor 1268	3.9	< 3.9 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	110%
Tetrachlorometaxylene	72.9%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JF-T2B1-SO-13
SAMPLE

Lab Sample ID: SE66J
LIMS ID: 11-773
Matrix: Soil
Data Release Authorized:
Reported: 01/25/11

QC Report No: SE66-The Boeing Company
Project: Jorgensen Forge PLO
7KPL2JOR
Date Sampled: 01/13/11
Date Received: 01/13/11

Date Extracted: 01/17/11
Date Analyzed: 01/22/11 16:14
Instrument/Analyst: ECD5/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.5 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 5.00
Silica Gel: Yes

Percent Moisture: 27.1%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	3.9	< 3.9 U
53469-21-9	Aroclor 1242	3.9	< 3.9 U
12672-29-6	Aroclor 1248	3.9	< 3.9 U
11097-69-1	Aroclor 1254	3.9	< 3.9 U
11096-82-5	Aroclor 1260	3.9	< 3.9 U
11104-28-2	Aroclor 1221	3.9	< 3.9 U
11141-16-5	Aroclor 1232	3.9	< 3.9 U
37324-23-5	Aroclor 1262	3.9	< 3.9 U
11100-14-4	Aroclor 1268	3.9	< 3.9 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	96.4%
Tetrachlorometaxylene	71.5%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JF-T2B2-SO-03
SAMPLE

Lab Sample ID: SE66K
LIMS ID: 11-774
Matrix: Soil
Data Release Authorized:
Reported: 01/25/11

QC Report No: SE66-The Boeing Company
Project: Jorgensen Forge PLO
7KPL2JOR
Date Sampled: 01/13/11
Date Received: 01/13/11

Date Extracted: 01/17/11
Date Analyzed: 01/21/11 21:24
Instrument/Analyst: ECD5/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.8 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 5.00
Silica Gel: Yes

Percent Moisture: 25.7%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	3.9	< 3.9 U
53469-21-9	Aroclor 1242	3.9	< 3.9 U
12672-29-6	Aroclor 1248	3.9	< 3.9 U
11097-69-1	Aroclor 1254	3.9	< 3.9 U
11096-82-5	Aroclor 1260	3.9	< 3.9 U
11104-28-2	Aroclor 1221	3.9	< 3.9 U
11141-16-5	Aroclor 1232	3.9	< 3.9 U
37324-23-5	**Aroclor 1262**	**3.9**	**4.5**
11100-14-4	Aroclor 1268	3.9	< 3.9 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	92.5%
Tetrachlorometaxylene	73.2%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JF-T2B2-SO-08
SAMPLE

Lab Sample ID: SE66L
LIMS ID: 11-775
Matrix: Soil
Data Release Authorized:
Reported: 01/25/11

QC Report No: SE66-The Boeing Company
Project: Jorgensen Forge PLO
7KPL2JOR
Date Sampled: 01/13/11
Date Received: 01/13/11

Date Extracted: 01/17/11
Date Analyzed: 01/22/11 16:33
Instrument/Analyst: ECD5/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.6 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 5.00
Silica Gel: Yes

Percent Moisture: 28.3%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	3.9	< 3.9 U
53469-21-9	Aroclor 1242	3.9	< 3.9 U
12672-29-6	Aroclor 1248	3.9	< 3.9 U
11097-69-1	Aroclor 1254	3.9	< 3.9 U
11096-82-5	Aroclor 1260	4.9	< 4.9 Y
11104-28-2	Aroclor 1221	3.9	< 3.9 U
11141-16-5	Aroclor 1232	3.9	< 3.9 U
37324-23-5	Aroclor 1262	3.9	< 3.9 U
11100-14-4	Aroclor 1268	3.9	< 3.9 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	93.9%
Tetrachlorometaxylene	72.0%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JF-T2B2-SO-13
SAMPLE

Lab Sample ID: SE66M
LIMS ID: 11-776
Matrix: Soil
Data Release Authorized:
Reported: 01/25/11

QC Report No: SE66-The Boeing Company
Project: Jorgensen Forge PLO
7KPL2JOR
Date Sampled: 01/13/11
Date Received: 01/13/11

Date Extracted: 01/17/11
Date Analyzed: 01/21/11 22:02
Instrument/Analyst: ECD5/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.1 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 5.00
Silica Gel: Yes

Percent Moisture: 23.9%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	4.0	< 4.0 U
53469-21-9	Aroclor 1242	4.0	< 4.0 U
12672-29-6	Aroclor 1248	4.0	< 4.0 U
11097-69-1	Aroclor 1254	4.0	< 4.0 U
11096-82-5	Aroclor 1260	4.0	< 4.0 U
11104-28-2	Aroclor 1221	4.0	< 4.0 U
11141-16-5	Aroclor 1232	4.0	< 4.0 U
37324-23-5	Aroclor 1262	4.0	< 4.0 U
11100-14-4	Aroclor 1268	4.0	< 4.0 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	98.6%
Tetrachlorometaxylene	79.0%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JF-T2B3-SO-02
SAMPLE

Lab Sample ID: SE66N
LIMS ID: 11-777
Matrix: Soil
Data Release Authorized:
Reported: 01/25/11

QC Report No: SE66-The Boeing Company
Project: Jorgensen Forge PLO 7KPL2JOR
Date Sampled: 01/13/11
Date Received: 01/13/11

Date Extracted: 01/17/11
Date Analyzed: 01/21/11 22:20
Instrument/Analyst: ECD5/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 12.7 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 5.00
Silica Gel: Yes

Percent Moisture: 13.2%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	7.9	< 7.9 U
53469-21-9	Aroclor 1242	7.9	< 7.9 U
12672-29-6	Aroclor 1248	7.9	< 7.9 U
11097-69-1	**Aroclor 1254**	**7.9**	**34**
11096-82-5	**Aroclor 1260**	**7.9**	**51**
11104-28-2	Aroclor 1221	7.9	< 7.9 U
11141-16-5	Aroclor 1232	7.9	< 7.9 U
37324-23-5	Aroclor 1262	7.9	< 7.9 U
11100-14-4	Aroclor 1268	7.9	< 7.9 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	99.2%
Tetrachlorometaxylene	83.6%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JF-T2B3-SO-08
SAMPLE

Lab Sample ID: SE66O
LIMS ID: 11-778
Matrix: Soil
Data Release Authorized:
Reported: 01/25/11

QC Report No: SE66-The Boeing Company
Project: Jorgensen Forge PLO
7KPL2JOR
Date Sampled: 01/13/11
Date Received: 01/13/11

Date Extracted: 01/17/11
Date Analyzed: 01/22/11 16:52
Instrument/Analyst: ECD5/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.7 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 5.00
Silica Gel: Yes

Percent Moisture: 25.1%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	3.9	< 3.9 U
53469-21-9	Aroclor 1242	3.9	< 3.9 U
12672-29-6	Aroclor 1248	3.9	< 3.9 U
11097-69-1	Aroclor 1254	3.9	< 3.9 U
11096-82-5	Aroclor 1260	3.9	< 3.9 U
11104-28-2	Aroclor 1221	3.9	< 3.9 U
11141-16-5	Aroclor 1232	3.9	< 3.9 U
37324-23-5	**Aroclor 1262**	**3.9**	**6.7**
11100-14-4	Aroclor 1268	3.9	< 3.9 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	100%
Tetrachlorometaxylene	75.0%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JF-T2B3-SO-13
SAMPLE

Lab Sample ID: SE66P
LIMS ID: 11-779
Matrix: Soil
Data Release Authorized:
Reported: 01/25/11

QC Report No: SE66-The Boeing Company
Project: Jorgensen Forge PLO
7KPL2JOR
Date Sampled: 01/13/11
Date Received: 01/13/11

Date Extracted: 01/17/11
Date Analyzed: 01/22/11 17:10
Instrument/Analyst: ECD5/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.7 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 5.00
Silica Gel: Yes

Percent Moisture: 23.4%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	3.9	< 3.9 U
53469-21-9	Aroclor 1242	3.9	< 3.9 U
12672-29-6	Aroclor 1248	3.9	< 3.9 U
11097-69-1	Aroclor 1254	3.9	< 3.9 U
11096-82-5	Aroclor 1260	3.9	< 3.9 U
11104-28-2	Aroclor 1221	3.9	< 3.9 U
11141-16-5	Aroclor 1232	3.9	< 3.9 U
37324-23-5	**Aroclor 1262**	**3.9**	**4.0**
11100-14-4	Aroclor 1268	3.9	< 3.9 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	94.5%
Tetrachlorometaxylene	66.1%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JF-T2B4-SO-03
SAMPLE

Lab Sample ID: SE66Q
LIMS ID: 11-780
Matrix: Soil
Data Release Authorized:
Reported: 01/25/11

QC Report No: SE66-The Boeing Company
Project: Jorgensen Forge PLO
7KPL2JOR
Date Sampled: 01/13/11
Date Received: 01/13/11

Date Extracted: 01/17/11
Date Analyzed: 01/22/11 17:29
Instrument/Analyst: ECD5/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 6.75 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 50.0
Silica Gel: Yes

Percent Moisture: 12.0%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	150	< 150 U
53469-21-9	Aroclor 1242	150	< 150 U
12672-29-6	Aroclor 1248	440	< 440 Y
11097-69-1	**Aroclor 1254**	**150**	**1,300**
11096-82-5	**Aroclor 1260**	**150**	**240**
11104-28-2	Aroclor 1221	150	< 150 U
11141-16-5	Aroclor 1232	150	< 150 U
37324-23-5	Aroclor 1262	150	< 150 U
11100-14-4	Aroclor 1268	150	< 150 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	D
Tetrachlorometaxylene	D

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: MB-011711
METHOD BLANK

Lab Sample ID: MB-011711
LIMS ID: 11-771
Matrix: Soil
Data Release Authorized:
Reported: 01/25/11

QC Report No: SE66-The Boeing Company
Project: Jorgensen Forge PLO
7KPL2JOR
Date Sampled: NA
Date Received: NA

Date Extracted: 01/17/11
Date Analyzed: 01/21/11 19:31
Instrument/Analyst: ECD5/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.0 g
Final Extract Volume: 1.0 mL
Dilution Factor: 5.00
Silica Gel: Yes

Percent Moisture: NA

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	4.0	< 4.0 U
53469-21-9	Aroclor 1242	4.0	< 4.0 U
12672-29-6	Aroclor 1248	4.0	< 4.0 U
11097-69-1	Aroclor 1254	4.0	< 4.0 U
11096-82-5	Aroclor 1260	4.0	< 4.0 U
11104-28-2	Aroclor 1221	4.0	< 4.0 U
11141-16-5	Aroclor 1232	4.0	< 4.0 U
37324-23-5	Aroclor 1262	4.0	< 4.0 U
11100-14-4	Aroclor 1268	4.0	< 4.0 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	105%
Tetrachlorometaxylene	65.9%

ANALYTICAL RESOURCES INCORPORATED

SW8082/PCB SOIL/SEDIMENT SURROGATE RECOVERY SUMMARY

Matrix: Soil

QC Report No: SE66-The Boeing Company
Project: Jorgensen Forge PLO
7KPL2JOR

Client ID	DCBP % REC	DCBP LCL-UCL	TCMX % REC	TCMX LCL-UCL	TOT OUT
MB-011711	105%	40-109	65.9%	35-100	0
LCS-011711	104%	40-109	68.2%	35-100	0
LCSD-011711	105%	40-109	68.9%	35-100	0
JF-T2B1-SO-03	99.1%	34-141	72.1%	38-102	0
JF-T2B1-SO-08	110%	34-141	72.9%	38-102	0
JF-T2B1-SO-13	96.4%	34-141	71.5%	38-102	0
JF-T2B2-SO-03	92.5%	34-141	73.2%	38-102	0
JF-T2B2-SO-08	93.9%	34-141	72.0%	38-102	0
JF-T2B2-SO-13	98.6%	34-141	79.0%	38-102	0
JF-T2B3-SO-02	99.2%	34-141	83.6%	38-102	0
JF-T2B3-SO-08	100%	34-141	75.0%	38-102	0
JF-T2B3-SO-13	94.5%	34-141	66.1%	38-102	0
JF-T2B4-SO-03	D	34-141	D	38-102	0

Low Level PSDDA Control Limits
Prep Method: SW3550C
Log Number Range: 11-771 to 11-780

FORM-II SW8082

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: LCS-011711
LCS/LCSD

Lab Sample ID: LCS-011711
LIMS ID: 11-771
Matrix: Soil
Data Release Authorized:
Reported: 01/25/11

QC Report No: SE66-The Boeing Company
Project: Jorgensen Forge PLO
7KPL2JOR
Date Sampled: NA
Date Received: NA

Date Extracted LCS/LCSD: 01/17/11

Date Analyzed LCS: 01/21/11 19:50
LCSD: 01/21/11 20:09
Instrument/Analyst LCS: ECD5/JGR
LCSD: ECD5/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount LCS: 25.0 g-dry-wt
LCSD: 25.0 g-dry-wt
Final Extract Volume LCS: 1.0 mL
LCSD: 1.0 mL
Dilution Factor LCS: 5.00
LCSD: 5.00
Silica Gel: Yes

Percent Moisture: NA

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Aroclor 1016	15.8	20.0	79.0%	16.0	20.0	80.0%	1.3%
Aroclor 1260	18.0	20.0	90.0%	18.5	20.0	92.5%	2.7%

PCB Surrogate Recovery

	LCS	LCSD
Decachlorobiphenyl	104%	105%
Tetrachlorometaxylene	68.2%	68.9%

Results reported in µg/kg (ppb)
RPD calculated using sample concentrations per SW846.

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
TOTAL DIESEL RANGE HYDROCARBONS
NWTPHD by GC/FID-Silica and Acid Cleaned

Matrix: Soil

QC Report No: SE66-The Boeing Company
Project: Jorgensen Forge PLO
7KPL2JOR

Data Release Authorized: VB
Reported: 01/22/11

ARI ID	Sample ID	Extraction Date	Analysis Date	EFV DL	Range	RL	Result
MB-011411	Method Blank	01/14/11	01/21/11	1.00	Diesel	5.0	< 5.0 U
11-771	HC ID: ---		FID3B	1.0	Motor Oil	10	< 10 U
					Mineral Oil	10	< 10 U
					o-Terphenyl		98.6%
SE66H	JF-T2B1-SO-03	01/14/11	01/21/11	1.00	**Diesel**	**6.0**	**20**
11-771	HC ID: **DIESEL/MOTOR OIL**		FID3B	1.0	**Motor Oil**	**12**	**58**
					Mineral Oil	**12**	**53**
					o-Terphenyl		96.3%
SE66I	JF-T2B1-SO-08	01/14/11	01/21/11	1.00	Diesel	6.2	< 6.2 U
11-772	HC ID: ---		FID3B	1.0	Motor Oil	12	< 12 U
					Mineral Oil	12	< 12 U
					o-Terphenyl		93.0%
SE66J	JF-T2B1-SO-13	01/14/11	01/21/11	1.00	**Diesel**	**6.8**	**16**
11-773	HC ID: **DRO/MOTOR OIL**		FID3B	1.0	**Motor Oil**	**14**	**52**
					Mineral Oil	**14**	**48**
					o-Terphenyl		92.2%
SE66K	JF-T2B2-SO-03	01/14/11	01/21/11	1.00	**Diesel**	**6.7**	**21**
11-774	HC ID: **DIESEL/MOTOR OIL**		FID3B	1.0	**Motor Oil**	**13**	**46**
					Mineral Oil	**13**	**42**
					o-Terphenyl		90.2%
SE66L	JF-T2B2-SO-08	01/14/11	01/21/11	1.00	**Diesel**	**34**	**270**
11-775	HC ID: **DIESEL/MOTOR OIL**		FID3B	5.0	**Motor Oil**	**69**	**570**
					Mineral Oil	**69**	**520**
					o-Terphenyl		82.6%
SE66M	JF-T2B2-SO-13	01/14/11	01/21/11	1.00	Diesel	6.5	< 6.5 U
11-776	HC ID: ---		FID3B	1.0	Motor Oil	13	< 13 U
					Mineral Oil	13	< 13 U
					o-Terphenyl		93.5%
SE66N	JF-T2B3-SO-02	01/14/11	01/21/11	1.00	**Diesel**	**5.8**	**7.8**
11-777	HC ID: **DRO/MOTOR OIL**		FID3B	1.0	**Motor Oil**	**12**	**220**
					Mineral Oil	**12**	**200**
					o-Terphenyl		92.9%
SE66O	JF-T2B3-SO-08	01/14/11	01/21/11	1.00	**Diesel**	**6.6**	**8.2**
11-778	HC ID: **DRO/MOTOR OIL**		FID3B	1.0	**Motor Oil**	**13**	**25**
					Mineral Oil	**13**	**22**
					o-Terphenyl		92.2%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
TOTAL DIESEL RANGE HYDROCARBONS
NWTPHD by GC/FID-Silica and Acid Cleaned

Matrix: Soil

QC Report No: SE66-The Boeing Company
Project: Jorgensen Forge PLO
7KPL2JOR

Data Release Authorized: VB
Reported: 01/22/11

ARI ID	Sample ID	Extraction Date	Analysis Date	EFV DL	Range	RL	Result
SE66P	JF-T2B3-SO-13	01/14/11	01/21/11	1.00	**Diesel**	**6.5**	**110**
11-779	HC ID: **DIESEL/MOTOR OIL**		FID3B	1.0	**Motor Oil**	**13**	**120**
					Mineral Oil	**13**	**110**
					o-Terphenyl		79.6%
SE66Q	JF-T2B4-SO-03	01/14/11	01/21/11	1.00	**Diesel**	**5.6**	**42**
11-780	HC ID: **DRO/MOTOR OIL**		FID3B	1.0	**Motor Oil**	**11**	**550**
					Mineral Oil	**11**	**500**
					o-Terphenyl		91.7%

Reported in mg/kg (ppm)

EFV-Effective Final Volume in mL.
DL-Dilution of extract prior to analysis.
RL-Reporting limit.

Diesel quantitation on total peaks in the range from C12 to C24.
Motor Oil quantitation on total peaks in the range from C24 to C38.
Mineral Oil quantitation on total peaks in the range from C24 to C38.
HC ID: DRO/RRO indicate results of organics or additional hydrocarbons in ranges are not identifiable.

ANALYTICAL RESOURCES INCORPORATED

CLEANED TPHD SURROGATE RECOVERY SUMMARY

Matrix: Soil

QC Report No: SE66-The Boeing Company
Project: Jorgensen Forge PLO
7KPL2JOR

Client ID	OTER	TOT OUT
MB-011411	98.6%	0
LCS-011411	93.0%	0
LCSD-011411	98.6%	0
JF-T2B1-SO-03	96.3%	0
JF-T2B1-SO-08	93.0%	0
JF-T2B1-SO-13	92.2%	0
JF-T2B2-SO-03	90.2%	0
JF-T2B2-SO-08	82.6%	0
JF-T2B2-SO-13	93.5%	0
JF-T2B3-SO-02	92.9%	0
JF-T2B3-SO-08	92.2%	0
JF-T2B3-SO-13	79.6%	0
JF-T2B4-SO-03	91.7%	0

	LCS/MB LIMITS	QC LIMITS
(OTER) = o-Terphenyl	(59-134)	(43-137)

Prep Method: SW3546
Log Number Range: 11-771 to 11-780

FORM-II TPHD

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
NWTPHD by GC/FID-Silica and Acid Cleaned

Sample ID: LCS-011411
LCS/LCSD

Lab Sample ID: LCS-011411
LIMS ID: 11-771
Matrix: Soil
Data Release Authorized: VB
Reported: 01/22/11

QC Report No: SE66-The Boeing Company
Project: Jorgensen Forge PLO
7KPL2JOR
Date Sampled: 01/13/11
Date Received: 01/13/11

Date Extracted LCS/LCSD: 01/14/11

Date Analyzed LCS: 01/21/11 10:31
LCSD: 01/21/11 10:56
Instrument/Analyst LCS: FID/MS
LCSD: FID/MS

Sample Amount LCS: 10.0 g
LCSD: 10.0 g
Final Extract Volume LCS: 1.0 mL
LCSD: 1.0 mL
Dilution Factor LCS: 1.0
LCSD: 1.0

Range	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Diesel	131	150	87.3%	130	150	86.7%	0.8%

TPHD Surrogate Recovery

	LCS	LCSD
o-Terphenyl	93.0%	98.6%

Results reported in mg/kg
RPD calculated using sample concentrations per SW846.

ANALYTICAL RESOURCES INCORPORATED

TOTAL DIESEL RANGE HYDROCARBONS-EXTRACTION REPORT

ARI Job: SE66
Project: Jorgensen Forge PLO
7KPL2JOR

Matrix: Soil
Date Received: 01/13/11

ARI ID	Client ID	Client Amt	Final Vol	Basis	Prep Date
11-771-011411MB1	Method Blank	10.0 g	1.00 mL	-	01/14/11
11-771-011411LCS1	Lab Control	10.0 g	1.00 mL	-	01/14/11
11-771-011411LCSD1	Lab Control Dup	10.0 g	1.00 mL	-	01/14/11
11-771-SE66H	JF-T2B1-SO-03	8.37 g	1.00 mL	D	01/14/11
11-772-SE66I	JF-T2B1-SO-08	8.06 g	1.00 mL	D	01/14/11
11-773-SE66J	JF-T2B1-SO-13	7.33 g	1.00 mL	D	01/14/11
11-774-SE66K	JF-T2B2-SO-03	7.49 g	1.00 mL	D	01/14/11
11-775-SE66L	JF-T2B2-SO-08	7.26 g	1.00 mL	D	01/14/11
11-776-SE66M	JF-T2B2-SO-13	7.72 g	1.00 mL	D	01/14/11
11-777-SE66N	JF-T2B3-SO-02	8.70 g	1.00 mL	D	01/14/11
11-778-SE66O	JF-T2B3-SO-08	7.53 g	1.00 mL	D	01/14/11
11-779-SE66P	JF-T2B3-SO-13	7.69 g	1.00 mL	D	01/14/11
11-780-SE66Q	JF-T2B4-SO-03	8.85 g	1.00 mL	D	01/14/11

Basis: D=Dry Weight W=As Received

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
TOTAL DIESEL RANGE HYDROCARBONS
NWTPHD by GC/FID-Silica and Acid Cleaned
Page 1 of 1
Matrix: Water

QC Report No: SE66-The Boeing Company
Project: Jorgensen Forge PLO
7KPL2JOR

Data Release Authorized: VB
Reported: 01/22/11

ARI ID	Sample ID	Extraction Date	Analysis Date	EFV DL	Range	RL	Result
MB-011711	Method Blank	01/17/11	01/21/11	1.00	Diesel	0.10	< 0.10 U
11-770	HC ID: ---		FID3B	1.0	Motor Oil	0.20	< 0.20 U
					Mineral Oil	0.20	< 0.20 U
					o-Terphenyl		86.5%
SE66G	JF-T3B1-SO-13-R	01/17/11	01/21/11	1.00	Diesel	0.10	< 0.10 U
11-770	HC ID: ---		FID3B	1.0	Motor Oil	0.20	< 0.20 U
					Mineral Oil	0.20	< 0.20 U
					o-Terphenyl		88.0%

Reported in mg/L (ppm)

EFV-Effective Final Volume in mL.
DL-Dilution of extract prior to analysis.
RL-Reporting limit.

Diesel quantitation on total peaks in the range from C12 to C24.
Motor Oil quantitation on total peaks in the range from C24 to C38.
Mineral Oil quantitation on total peaks in the range from C24 to C38.
HC ID: DRO/RRO indicate results of organics or additional hydrocarbons in ranges are not identifiable.

ANALYTICAL RESOURCES INCORPORATED

CLEANED TPHD SURROGATE RECOVERY SUMMARY

Matrix: Water

QC Report No: SE66-The Boeing Company
Project: Jorgensen Forge PLO 7KPL2JOR

Client ID	OTER	TOT OUT
MB-011711	86.5%	0
LCS-011711	94.0%	0
LCSD-011711	92.0%	0
JF-T3B1-SO-13-R	88.0%	0

	LCS/MB LIMITS	QC LIMITS
(OTER) = o-Terphenyl	(53-123)	(49-118)

Prep Method: SW3510C
Log Number Range: 11-770 to 11-770

FORM-II TPHD

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
NWTPHD by GC/FID-Silica and Acid Cleaned **Sample ID: LCS-011711**
 LCS/LCSD

Lab Sample ID: LCS-011711
LIMS ID: 11-770
Matrix: Water
Data Release Authorized: VD
Reported: 01/22/11

QC Report No: SE66-The Boeing Company
Project: Jorgensen Forge PLO
7KPL2JOR
Date Sampled: 01/13/11
Date Received: 01/13/11

Date Extracted LCS/LCSD: 01/17/11

Date Analyzed LCS: 01/21/11 17:57
LCSD: 01/21/11 18:22
Instrument/Analyst LCS: FID/JGR
LCSD: FID/JGR

Sample Amount LCS: 500 mL
LCSD: 500 mL
Final Extract Volume LCS: 1.0 mL
LCSD: 1.0 mL
Dilution Factor LCS: 1.00
LCSD: 1.00

Range	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Diesel	2.43	3.00	81.0%	2.31	3.00	77.0%	5.1%

TPHD Surrogate Recovery

	LCS	LCSD
o-Terphenyl	94.0%	92.0%

Results reported in mg/L
RPD calculated using sample concentrations per SW846.

ANALYTICAL RESOURCES INCORPORATED

TOTAL DIESEL RANGE HYDROCARBONS-EXTRACTION REPORT

ARI Job: SE66
Matrix: Water
Project: Jorgensen Forge PLO
Date Received: 01/13/11
7KPL2JOR

ARI ID	Client ID	Samp Amt	Final Vol	Prep Date
11-770-011711MB1	Method Blank	500 mL	1.00 mL	01/17/11
11-770-011711LCS1	Lab Control	500 mL	1.00 mL	01/17/11
11-770-011711LCSD1	Lab Control Dup	500 mL	1.00 mL	01/17/11
11-770-SE66G	JF-T3B1-SO-13-R	500 mL	1.00 mL	01/17/11

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: JF-T2B1-SO-03
SAMPLE

Lab Sample ID: SE66H
LIMS ID: 11-771
Matrix: Soil
Data Release Authorized:
Reported: 01/19/11

QC Report No: SE66-The Boeing Company
Project: Jorgensen Forge PLO
7KPL2JOR
Date Sampled: 01/13/11
Date Received: 01/13/11

Percent Total Solids: 81.8%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	01/17/11	6010B	01/19/11	7440-38-2	Arsenic	6	6	U
3050B	01/17/11	6010B	01/19/11	**7440-43-9**	**Cadmium**	0.2	**0.4**	
3050B	01/17/11	6010B	01/19/11	**7440-50-8**	**Copper**	0.2	**17.4**	
3050B	01/17/11	6010B	01/19/11	**7439-92-1**	**Lead**	2	**8**	
3050B	01/17/11	6010B	01/19/11	**7440-02-0**	**Nickel**	1	**18**	
3050B	01/17/11	6010B	01/19/11	**7440-66-6**	**Zinc**	1	**42**	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: JF-T2B1-SO-08
SAMPLE

Lab Sample ID: SE66I
LIMS ID: 11-772
Matrix: Soil
Data Release Authorized:
Reported: 01/19/11

QC Report No: SE66-The Boeing Company
Project: Jorgensen Forge PLO
7KPL2JOR
Date Sampled: 01/13/11
Date Received: 01/13/11

Percent Total Solids: 80.6%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	01/17/11	6010B	01/19/11	**7440-38-2**	**Arsenic**	6	**6**	
3050B	01/17/11	6010B	01/19/11	7440-43-9	Cadmium	0.2	0.2	U
3050B	01/17/11	6010B	01/19/11	**7440-50-8**	**Copper**	0.2	**20.9**	
3050B	01/17/11	6010B	01/19/11	**7439-92-1**	**Lead**	2	**6**	
3050B	01/17/11	6010B	01/19/11	**7440-02-0**	**Nickel**	1	**13**	
3050B	01/17/11	6010B	01/19/11	**7440-66-6**	**Zinc**	1	**36**	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: JF-T2B1-SO-13
SAMPLE

Lab Sample ID: SE66J
LIMS ID: 11-773
Matrix: Soil
Data Release Authorized:
Reported: 01/19/11

QC Report No: SE66-The Boeing Company
Project: Jorgensen Forge PLO
7KPL2JOR
Date Sampled: 01/13/11
Date Received: 01/13/11

Percent Total Solids: 72.6%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	01/17/11	6010B	01/19/11	7440-38-2	Arsenic	7	7	U
3050B	01/17/11	6010B	01/19/11	**7440-43-9**	**Cadmium**	0.3	**0.4**	
3050B	01/17/11	6010B	01/19/11	**7440-50-8**	**Copper**	0.3	**20.5**	
3050B	01/17/11	6010B	01/19/11	7439-92-1	Lead	3	3	U
3050B	01/17/11	6010B	01/19/11	**7440-02-0**	**Nickel**	1	**18**	
3050B	01/17/11	6010B	01/19/11	**7440-66-6**	**Zinc**	1	**35**	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: JF-T2B2-SO-03
SAMPLE

Lab Sample ID: SE66K
LIMS ID: 11-774
Matrix: Soil
Data Release Authorized:
Reported: 01/19/11

QC Report No: SE66-The Boeing Company
Project: Jorgensen Forge PLO
7KPL2JOR
Date Sampled: 01/13/11
Date Received: 01/13/11

Percent Total Solids: 74.8%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	01/17/11	6010B	01/19/11	**7440-38-2**	**Arsenic**	7	**19**	
3050B	01/17/11	6010B	01/19/11	**7440-43-9**	**Cadmium**	0.3	**0.3**	
3050B	01/17/11	6010B	01/19/11	**7440-50-8**	**Copper**	0.3	**44.5**	
3050B	01/17/11	6010B	01/19/11	**7439-92-1**	**Lead**	3	**36**	
3050B	01/17/11	6010B	01/19/11	**7440-02-0**	**Nickel**	1	**10**	
3050B	01/17/11	6010B	01/19/11	**7440-66-6**	**Zinc**	1	**67**	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: JF-T2B2-SO-08
SAMPLE

Lab Sample ID: SE66L
LIMS ID: 11-775
Matrix: Soil
Data Release Authorized:
Reported: 01/19/11

QC Report No: SE66-The Boeing Company
Project: Jorgensen Forge PLO
7KPL2JOR
Date Sampled: 01/13/11
Date Received: 01/13/11

Percent Total Solids: 73.1%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	01/17/11	6010B	01/19/11	**7440-38-2**	**Arsenic**	6	**7**	
3050B	01/17/11	6010B	01/19/11	**7440-43-9**	**Cadmium**	0.3	**0.3**	
3050B	01/17/11	6010B	01/19/11	**7440-50-8**	**Copper**	0.3	**25.7**	
3050B	01/17/11	6010B	01/19/11	**7439-92-1**	**Lead**	3	**46**	
3050B	01/17/11	6010B	01/19/11	**7440-02-0**	**Nickel**	1	**10**	
3050B	01/17/11	6010B	01/19/11	**7440-66-6**	**Zinc**	1	**79**	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: JF-T2B2-SO-13
SAMPLE

Lab Sample ID: SE66M
LIMS ID: 11-776
Matrix: Soil
Data Release Authorized:
Reported: 01/19/11

QC Report No: SE66-The Boeing Company
Project: Jorgensen Forge PLO
7KPL2JOR
Date Sampled: 01/13/11
Date Received: 01/13/11

Percent Total Solids: 76.2%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	01/17/11	6010B	01/19/11	7440-38-2	Arsenic	6	6	U
3050B	01/17/11	6010B	01/19/11	7440-43-9	Cadmium	0.3	0.3	U
3050B	01/17/11	6010B	01/19/11	**7440-50-8**	**Copper**	0.3	**17.0**	
3050B	01/17/11	6010B	01/19/11	**7439-92-1**	**Lead**	3	**5**	
3050B	01/17/11	6010B	01/19/11	**7440-02-0**	**Nickel**	1	**13**	
3050B	01/17/11	6010B	01/19/11	**7440-66-6**	**Zinc**	1	**695**	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: JF-T2B3-SO-02
SAMPLE

Lab Sample ID: SE66N
LIMS ID: 11-777
Matrix: Soil
Data Release Authorized:
Reported: 01/19/11

QC Report No: SE66-The Boeing Company
Project: Jorgensen Forge PLO
7KPL2JOR
Date Sampled: 01/13/11
Date Received: 01/13/11

Percent Total Solids: 83.8%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	01/17/11	6010B	01/19/11	**7440-38-2**	**Arsenic**	6	**8**	
3050B	01/17/11	6010B	01/19/11	**7440-43-9**	**Cadmium**	0.2	**0.4**	
3050B	01/17/11	6010B	01/19/11	**7440-50-8**	**Copper**	0.2	**37.8**	
3050B	01/17/11	6010B	01/19/11	**7439-92-1**	**Lead**	2	**22**	
3050B	01/17/11	6010B	01/19/11	**7440-02-0**	**Nickel**	1	**18**	
3050B	01/17/11	6010B	01/19/11	**7440-66-6**	**Zinc**	1	**119**	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: JF-T2B3-SO-08
SAMPLE

Lab Sample ID: SE66O
LIMS ID: 11-778
Matrix: Soil
Data Release Authorized:
Reported: 01/19/11

QC Report No: SE66-The Boeing Company
Project: Jorgensen Forge PLO
7KPL2JOR
Date Sampled: 01/13/11
Date Received: 01/13/11

Percent Total Solids: 74.6%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	01/17/11	6010B	01/19/11	**7440-38-2**	**Arsenic**	6	**8**	
3050B	01/17/11	6010B	01/19/11	**7440-43-9**	**Cadmium**	0.2	**0.3**	
3050B	01/17/11	6010B	01/19/11	**7440-50-8**	**Copper**	0.2	**43.3**	
3050B	01/17/11	6010B	01/19/11	**7439-92-1**	**Lead**	2	**31**	
3050B	01/17/11	6010B	01/19/11	**7440-02-0**	**Nickel**	1	**11**	
3050B	01/17/11	6010B	01/19/11	**7440-66-6**	**Zinc**	1	**59**	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: JF-T2B3-SO-13
SAMPLE

Lab Sample ID: SE66P
LIMS ID: 11-779
Matrix: Soil
Data Release Authorized:
Reported: 01/19/11

QC Report No: SE66-The Boeing Company
Project: Jorgensen Forge PLO
7KPL2JOR
Date Sampled: 01/13/11
Date Received: 01/13/11

Percent Total Solids: 76.0%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	01/17/11	6010B	01/19/11	**7440-38-2**	**Arsenic**	6	**7**	
3050B	01/17/11	6010B	01/19/11	**7440-43-9**	**Cadmium**	0.2	**0.3**	
3050B	01/17/11	6010B	01/19/11	**7440-50-8**	**Copper**	0.2	**30.6**	
3050B	01/17/11	6010B	01/19/11	**7439-92-1**	**Lead**	2	**30**	
3050B	01/17/11	6010B	01/19/11	**7440-02-0**	**Nickel**	1	**11**	
3050B	01/17/11	6010B	01/19/11	**7440-66-6**	**Zinc**	1	**60**	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: JF-T2B4-SO-03
SAMPLE

Lab Sample ID: SE66Q
LIMS ID: 11-780
Matrix: Soil
Data Release Authorized:
Reported: 01/19/11

QC Report No: SE66-The Boeing Company
Project: Jorgensen Forge PLO
7KPL2JOR
Date Sampled: 01/13/11
Date Received: 01/13/11

Percent Total Solids: 87.2%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	01/17/11	6010B	01/19/11	**7440-38-2**	**Arsenic**	5	**8**	
3050B	01/17/11	6010B	01/19/11	**7440-43-9**	**Cadmium**	0.2	**0.8**	
3050B	01/17/11	6010B	01/19/11	**7440-50-8**	**Copper**	0.2	**48.2**	
3050B	01/17/11	6010B	01/19/11	**7439-92-1**	**Lead**	2	**87**	
3050B	01/17/11	6010B	01/19/11	**7440-02-0**	**Nickel**	1	**24**	
3050B	01/17/11	6010B	01/19/11	**7440-66-6**	**Zinc**	1	**225**	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: METHOD BLANK

Lab Sample ID: SE66MB
LIMS ID: 11-771
Matrix: Soil
Data Release Authorized:
Reported: 01/19/11

QC Report No: SE66-The Boeing Company
Project: Jorgensen Forge PLO
7KPL2JOR
Date Sampled: NA
Date Received: NA

Percent Total Solids: NA

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	01/17/11	6010B	01/19/11	7440-38-2	Arsenic	5	5	U
3050B	01/17/11	6010B	01/19/11	7440-43-9	Cadmium	0.2	0.2	U
3050B	01/17/11	6010B	01/19/11	7440-50-8	Copper	0.2	0.2	U
3050B	01/17/11	6010B	01/19/11	7439-92-1	Lead	2	2	U
3050B	01/17/11	6010B	01/19/11	7440-02-0	Nickel	1	1	U
3050B	01/17/11	6010B	01/19/11	7440-66-6	Zinc	1	1	U

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: LAB CONTROL

Lab Sample ID: SE66LCS
LIMS ID: 11-771
Matrix: Soil
Data Release Authorized:
Reported: 01/19/11

QC Report No: SE66-The Boeing Company
Project: Jorgensen Forge PLO
7KPL2JOR
Date Sampled: NA
Date Received: NA

BLANK SPIKE QUALITY CONTROL REPORT

Analyte	Analysis Method	Spike Found	Spike Added	% Recovery	Q
Arsenic	6010B	203	200	102%	
Cadmium	6010B	51.7	50.0	103%	
Copper	6010B	52.0	50.0	104%	
Lead	6010B	199	200	99.5%	
Nickel	6010B	50	50	100%	
Zinc	6010B	51	50	102%	

Reported in mg/kg-dry

N-Control limit not met
NA-Not Applicable, Analyte Not Spiked
Control Limits: 80-120%

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: JF-T3B1-SO-13-R
SAMPLE

Lab Sample ID: SE66G
LIMS ID: 11-770
Matrix: Water
Data Release Authorized:
Reported: 01/19/11

QC Report No: SE66-The Boeing Company
Project: Jorgensen Forge PLO
7KPL2JOR
Date Sampled: 01/13/11
Date Received: 01/13/11

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/L	Q
3010A	01/14/11	6010B	01/19/11	7440-38-2	Arsenic	0.05	0.05	U
3010A	01/14/11	6010B	01/19/11	7440-43-9	Cadmium	0.002	0.002	U
3010A	01/14/11	6010B	01/19/11	7440-50-8	Copper	0.002	0.002	U
3010A	01/14/11	6010B	01/19/11	7439-92-1	Lead	0.02	0.02	U
3010A	01/14/11	6010B	01/19/11	7440-02-0	Nickel	0.01	0.01	U
3010A	01/14/11	6010B	01/19/11	7440-66-6	Zinc	0.01	0.01	U

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: METHOD BLANK

Lab Sample ID: SE66MB
LIMS ID: 11-770
Matrix: Water
Data Release Authorized:
Reported: 01/19/11

QC Report No: SE66-The Boeing Company
Project: Jorgensen Forge PLO
7KPL2JOR
Date Sampled: NA
Date Received: NA

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/L	Q
3010A	01/14/11	6010B	01/19/11	7440-38-2	Arsenic	0.05	0.05	U
3010A	01/14/11	6010B	01/19/11	7440-43-9	Cadmium	0.002	0.002	U
3010A	01/14/11	6010B	01/19/11	7440-50-8	Copper	0.002	0.002	U
3010A	01/14/11	6010B	01/19/11	7439-92-1	Lead	0.02	0.02	U
3010A	01/14/11	6010B	01/19/11	7440-02-0	Nickel	0.01	0.01	U
3010A	01/14/11	6010B	01/19/11	7440-66-6	Zinc	0.01	0.01	U

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: LAB CONTROL

Lab Sample ID: SE66LCS
LIMS ID: 11-770
Matrix: Water
Data Release Authorized:
Reported: 01/19/11

QC Report No: SE66-The Boeing Company
Project: Jorgensen Forge PLO
7KPL2JOR
Date Sampled: NA
Date Received: NA

BLANK SPIKE QUALITY CONTROL REPORT

Analyte	Analysis Method	Spike Found	Spike Added	% Recovery	Q
Arsenic	6010B	2.04	2.00	102%	
Cadmium	6010B	0.512	0.500	102%	
Copper	6010B	0.516	0.500	103%	
Lead	6010B	1.99	2.00	99.5%	
Nickel	6010B	0.51	0.50	102%	
Zinc	6010B	0.51	0.50	102%	

Reported in mg/L

N-Control limit not met
Control Limits: 80-120%

Analytical Resources, Incorporated
Analytical Chemists and Consultants

January 27, 2011

Tom Colligan
Floyd Snider
601 Union Street, Suite 600
Seattle, WA 98101-2341

RE: Project: Jorgensen Forge PLO
ARI Job No: SE66 (Level III Package Addendum March 22, 2011)
Revised on 4/7/11

Dear Tom:

Please find enclosed analytical results and the original Chain of Custody documentation (COC) for the project referenced above. Analytical Resources, Incorporated (ARI) accepted seven water samples, ten soil samples and a trip blank on January 13, 2011. The samples were received in good condition.

The samples were analyzed for Total Metals, SVOCs, VOCs, PCBs and NWTPH-Dx, as requested.

The SVOCs water 1/20/11 CCAL is out of control low for phenol, N-Nitroso-di-n-propylamine, 2,2-oxybis (1-Chloropropane) and 2,4-Dinitrophenol are out of control low and benzo (g,h,i) perylene and dibenzo (a,h) anthracene are out of control high. All associated samples that contain analyte have been flagged with a "Q" qualifier.

The SVOCs water 1/20/11 LCS is out of control high for chrysene, Indeno (1,2,3-cd) pyrene and dibenzo (a,h) anthracene. The LCSD is in control and no action was taken.

The SVOCs 1/20/11 soil CCAL is out of control low for 2,4-Dinitrophenol and out of control high for 4-Nitrophenol, benzo(b)fluoranthene and fluoranthene. All associated samples that contain analyte have been flagged with a "Q" qualifier.

The SVOCs 1/21/11 soil CCAL is out of control high for 4-Nitrophenol and fluoranthene. All associated samples that contain analyte have been flagged with a "Q" qualifier.

The VOCs 1/17/11 CCAL is out of control low for 2-Chloroethylvinylether. All associated samples that contain analyte have been flagged with a "Q" qualifier.

The VOCs 1/17/11 LCS and LCSD are out of control low for 2-Chloroethylvinylether and out of control high for methyl iodide. No action was taken.

Upon further review it was noted that the 1/21/11 NWTPH-Dx continuing calibrations #2 and #3 were out of control high for Mineral Oil. The samples contained a mixture of motor oil and mineral oil and were identified as motor oil. No corrective action was taken.

No other analytical complications were noted for these analyses. Quality control results are included for your review.

A copy of the reports and all associated raw data will remain on file with ARI. If you have any questions or require additional information, please contact me at your convenience.

Sincerely,

ANALYTICAL RESOURCES, INC.

Kelly Bottem
Client Services Manager
kellyb@arilabs.com

4611 South 134th Place, Suite 100 • Tukwila WA 98168 • **206-695-6200** • **206-695-6201** fax

Analytical Resources, Incorporated
Analytical Chemists and Consultants

January 26, 2011

Tom Colligan
Floyd Snider
601 Union Street, Suite 600
Seattle, WA 98101-2341

RE: Project: Jorgensen Forge PLO
ARI Job No: SE67

Dear Tom:

Please find enclosed analytical results and the original Chain of Custody documentation (COC) for the project referenced above. Analytical Resources, Incorporated (ARI) accepted fifteen soil samples on January 13, 2011. The samples were received in good condition.

The samples were analyzed for Total Metals, SVOCs, PCBs and NWTPH-Dx, as requested.

The SVOCs 1/21/11 CCAL is out of control low for 2,2-oxybis (1-Chloropropane) and 2,4-Dinitrophenol are out of control low. All associated samples that contain analyte have been flagged with a "Q" qualifier.

The SVOCs 1/24/11 CCAL is out of control low for Benzidine and 2,4-Dinitrophenol and out of control high for Indeno (1,2,3-cd)pyrene, Dibenzo (a,h)anthracene and Benzo(g,h,i) perylene. All associated samples that contain analyte have been flagged with a "Q" qualifier.

The SVOCs sample JF-T3B4-SO-13 was analyzed at a dilution due to matrix effects.

The PCB surrogate DCBP is out of control high for the 1/18/11 LCS. The spike recoveries are in control and no action was taken.

The PCB surrogate TCMX is out of control high for sample JF-T3B3-SO-08. No action was taken.

The PCBs matrix spike and matrix spike duplicate for sample JF-T3B3-SO-03 are out of control high for aroclor 1260 due to matrix effects.

The total metals matrix spike is out of control high for zinc with RPDs for copper and zinc outside of the +/- 20% control limits for sample JF-T3B3-SO-03.

No other analytical complications were noted for these analyses. Quality control results are included for your review.

A copy of the reports and all associated raw data will remain on file with ARI. If you have any questions or require additional information, please contact me at your convenience.

Sincerely,

ANALYTICAL RESOURCES, INC.

Kelly Bottem
Client Services Manager
kellyb@arilabs.com
206-695-6211
Enclosures

4611 South 134th Place, Suite 100 • Tukwila WA 98168 • **206-695-6200** • **206-695-6201** fax

Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: 567	Turn-around Requested: STANDARD
ARI Client Company: FIS	Phone: 206-292-2078
Client Contact: NICK GARSON and TOM COLLIGAN	
Client Project Name: Jorgensen Forge PLO	
Client Project #: 7KPL2JOR	Samplers: DEAN BRAME / LISA MEOLI

Page: 3	of 4
Date: 1/13/11	Ice Present?
No. of Coolers:	Cooler Temps:

Analytical Resources, Incorporated
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6201 (fax)

Sample ID	Date	Time	Matrix	No. Containers	METALS As, Cd, Cu, Pb Ni, Zn	SVOCs	TPH-D	PCBs					Notes/Comments
JF-T3B2-SO-08	1/13/11	1535	SO	2	x	x	x	x					
JF-T3B2-SO-13	↓	1550	↓	↓	↓	↓	↓	↓					
JF-T3B2-SO-13-D	↓	1550	↓	↓	↓	↓	↓	↓					
JF-T3B1-SO-03	↓	1620	↓	↓	↓	↓	↓	↓					
JF-T3B1-SO-08	↓	1625	↓	↓	↓	↓	↓	↓					
JF-T3B1-SO-13	↓	1630	↓	↓	↓	↓	↓	↓					

Comments/Special Instructions				
Relinquished by: (Signature)	Received by: (Signature)	Relinquished by: (Signature)	Received by: (Signature)
Printed Name: DEAN BRAME	Printed Name: C. OREIRO	Printed Name:	Printed Name:
Company: FIS	Company: ARI	Company:	Company:
Date & Time: 1/13/11 1755	Date & Time: 1/13/11 1755	Date & Time:	Date & Time:

Limits of Liability: *ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, not withstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.*

Sample Retention Policy: All samples submitted to ARI will be appropriately discarded no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer, unless alternate retention schedules have been established by work-order or contract.

Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: 5767	Turn-around Requested: STANDARD	Page: 4 of 4	
ARI Client Company: FIS	Phone: 206-292-2078	Date: 1/13/11	Ice Present?
Client Contact: NICK GARSON and TOM COLLIGAN		No. of Coolers:	Cooler Temps:
Client Project Name: Jorgensen Forge PLO			
Client Project #: 7KPL2JOR	Samplers: DEAN BRAME / LISA MEOLI		

Analytical Resources, Incorporated
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6201 (fax)

Sample ID	Date	Time	Matrix	No. Containers	METALS As, Cd, Cu, Pb, Ni, Zn	SVOCs	TPH-D	PCBs					Notes/Comments
JF-T2B4-SO-18	1/13/11	1120	SO	2	x	x	x	x					
JF-T2B4-SO-23	1/13/11	1125	SO										
~~JF-T2~~													
JF-T3B4-SO-03	1/13/11	1350	SO										
JF-T3B4-SO-13		1405											
JF-T3B4-SO-23		1420											
JF-T3B3-SO-03		1445											MS/MSD
JF-T3B3-SO-08		1455											1/13/11
JF-T3B3-SO-13		1510											
JF-T3B2-SO-03		1525											

Comments/Special Instructions	Relinquished by:	Received by:	Relinquished by:	Received by:
	(Signature) [signature]	(Signature) [signature]	(Signature)	(Signature)
	Printed Name: 1/13/11 DEAN BRAME	Printed Name: C. OREIRO	Printed Name:	Printed Name:
	Company: FIS	Company: ARI	Company:	Company:
	Date & Time: 1/13/11 1755	Date & Time: 1/13/11 1755	Date & Time:	Date & Time:

Limits of Liability: *ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, not withstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.*

Sample Retention Policy: All samples submitted to ARI will be appropriately discarded no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer, unless alternate retention schedules have been established by work-order or contract.

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: Boeing
Project Name: Jorgensen Forge PLO
COC No(s): _____ (NA)
Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____
Assigned ARI Job No: SE67
Tracking No: _____ (NA)

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of to cooler?	YES	NO
Were custody papers included with the cooler?	YES	NO
Were custody papers properly filled out (ink, signed, etc.)	YES	NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)..... 5.9 4.3 4.3 ___ ___ ___

If cooler temperature is out of compliance fill out form 00070F — Temp Gun ID#: 909411619

Cooler Accepted by: W Date: 1/13/11 Time: 1755

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler?		YES	NO
What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: _____			
Was sufficient ice used (if appropriate)?	NA	YES	NO
Were all bottles sealed in individual plastic bags?		YES	NO
Did all bottles arrive in good condition (unbroken)?		YES	NO
Were all bottle labels complete and legible?		YES	NO
Did the number of containers listed on COC match with the number of containers received?		YES	NO
Did all bottle labels and tags agree with custody papers?		YES	NO
Were all bottles used correct for the requested analyses?		YES	NO
Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs)...	NA	YES	NO
Were all VOC vials free of air bubbles?	NA	YES	NO
Was sufficient amount of sample sent in each bottle?		YES	NO
Date VOC Trip Blank was made at ARI	NA		

Was Sample Split by ARI : NA YES Date/Time: _____ Equipment: _____ Split by: _____

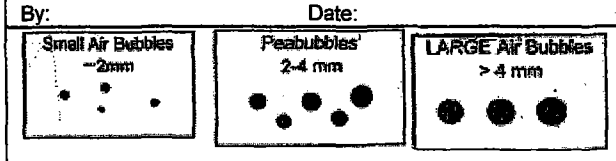
Samples Logged by: [illegible] Date: 1/14/11 Time: 1021

***** Notify Project Manager of discrepancies or concerns *****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: Date:



Small → "sm"	
Peabubbles → "pb"	
Large → "lg"	
Headspace → "hs"	

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS

Sample ID: JF-T3B2-SO-08
SAMPLE

Lab Sample ID: SE67A
LIMS ID: 11-781
Matrix: Soil
Data Release Authorized:
Reported: 01/25/11

QC Report No: SE67-The Boeing Company
Project: Jorgensen Forge PLO
7KPL2JOR
Date Sampled: 01/13/11
Date Received: 01/13/11

Date Extracted: 01/18/11
Date Analyzed: 01/21/11 17:42
Instrument/Analyst: NT6/JZ
GPC Cleanup: Yes

Sample Amount: 7.62 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 24.6%

CAS Number	Analyte	RL	Result
108-95-2	Phenol	66	< 66 U
111-44-4	Bis-(2-Chloroethyl) Ether	66	< 66 U
95-57-8	2-Chlorophenol	66	< 66 U
541-73-1	1,3-Dichlorobenzene	66	< 66 U
106-46-7	1,4-Dichlorobenzene	66	< 66 U
100-51-6	Benzyl Alcohol	330	< 330 U
95-50-1	1,2-Dichlorobenzene	66	< 66 U
95-48-7	2-Methylphenol	66	< 66 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	66	< 66 U
106-44-5	4-Methylphenol	66	< 66 U
621-64-7	N-Nitroso-Di-N-Propylamine	66	< 66 U
67-72-1	Hexachloroethane	66	< 66 U
98-95-3	Nitrobenzene	66	< 66 U
78-59-1	Isophorone	66	< 66 U
88-75-5	2-Nitrophenol	66	< 66 U
105-67-9	2,4-Dimethylphenol	66	< 66 U
65-85-0	Benzoic Acid	660	< 660 U
111-91-1	bis(2-Chloroethoxy) Methane	66	< 66 U
120-83-2	2,4-Dichlorophenol	330	< 330 U
120-82-1	1,2,4-Trichlorobenzene	66	< 66 U
91-20-3	Naphthalene	66	< 66 U
106-47-8	4-Chloroaniline	330	< 330 U
87-68-3	Hexachlorobutadiene	66	< 66 U
59-50-7	4-Chloro-3-methylphenol	330	< 330 U
91-57-6	2-Methylnaphthalene	66	< 66 U
77-47-4	Hexachlorocyclopentadiene	330	< 330 U
88-06-2	2,4,6-Trichlorophenol	330	< 330 U
95-95-4	2,4,5-Trichlorophenol	330	< 330 U
91-58-7	2-Chloronaphthalene	66	< 66 U
88-74-4	2-Nitroaniline	330	< 330 U
131-11-3	Dimethylphthalate	66	< 66 U
208-96-8	Acenaphthylene	66	< 66 U
99-09-2	3-Nitroaniline	330	< 330 U
83-32-9	Acenaphthene	66	< 66 U
51-28-5	2,4-Dinitrophenol	660	< 660 U
100-02-7	4-Nitrophenol	330	< 330 U
132-64-9	Dibenzofuran	66	< 66 U
606-20-2	2,6-Dinitrotoluene	330	< 330 U
121-14-2	2,4-Dinitrotoluene	330	< 330 U
84-66-2	Diethylphthalate	66	< 66 U
7005-72-3	4-Chlorophenyl-phenylether	66	< 66 U
86-73-7	Fluorene	66	< 66 U
100-01-6	4-Nitroaniline	330	< 330 U
534-52-1	4,6-Dinitro-2-Methylphenol	660	< 660 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS

Sample ID: JF-T3B2-SO-08
SAMPLE

Lab Sample ID: SE67A
LIMS ID: 11-781
Matrix: Soil
Date Analyzed: 01/21/11 17:42

QC Report No: SE67-The Boeing Company
Project: Jorgensen Forge PLO
7KPL2JOR

CAS Number	Analyte	RL	Result
86-30-6	N-Nitrosodiphenylamine	66	< 66 U
101-55-3	4-Bromophenyl-phenylether	66	< 66 U
118-74-1	Hexachlorobenzene	66	< 66 U
87-86-5	Pentachlorophenol	330	< 330 U
85-01-8	Phenanthrene	66	< 66 U
86-74-8	Carbazole	66	< 66 U
120-12-7	Anthracene	66	< 66 U
84-74-2	Di-n-Butylphthalate	66	< 66 U
206-44-0	Fluoranthene	66	< 66 U
129-00-0	Pyrene	66	< 66 U
85-68-7	Butylbenzylphthalate	66	< 66 U
91-94-1	3,3'-Dichlorobenzidine	330	< 330 U
56-55-3	Benzo(a)anthracene	66	< 66 U
117-81-7	bis(2-Ethylhexyl)phthalate	66	< 66 U
218-01-9	Chrysene	66	< 66 U
117-84-0	Di-n-Octyl phthalate	66	< 66 U
50-32-8	Benzo(a)pyrene	66	< 66 U
193-39-5	Indeno(1,2,3-cd)pyrene	66	< 66 U
53-70-3	Dibenz(a,h)anthracene	66	< 66 U
191-24-2	Benzo(g,h,i)perylene	66	< 66 U
90-12-0	1-Methylnaphthalene	66	< 66 U
TOTBFA	Total Benzofluoranthenes	66	< 66 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	58.4%	2-Fluorobiphenyl	65.6%
d14-p-Terphenyl	86.0%	d4-1,2-Dichlorobenzene	61.2%
d5-Phenol	63.7%	2-Fluorophenol	58.9%
2,4,6-Tribromophenol	56.5%	d4-2-Chlorophenol	63.5%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS

Sample ID: JF-T3B2-SO-13
SAMPLE

Lab Sample ID: SE67B
LIMS ID: 11-782
Matrix: Soil
Data Release Authorized:
Reported: 01/25/11

QC Report No: SE67-The Boeing Company
Project: Jorgensen Forge PLO
7KPL2JOR
Date Sampled: 01/13/11
Date Received: 01/13/11

Date Extracted: 01/18/11
Date Analyzed: 01/21/11 18:15
Instrument/Analyst: NT6/JZ
GPC Cleanup: Yes

Sample Amount: 8.08 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 26.9%

CAS Number	Analyte	RL	Result
108-95-2	Phenol	62	< 62 U
111-44-4	Bis-(2-Chloroethyl) Ether	62	< 62 U
95-57-8	2-Chlorophenol	62	< 62 U
541-73-1	1,3-Dichlorobenzene	62	< 62 U
106-46-7	1,4-Dichlorobenzene	62	< 62 U
100-51-6	Benzyl Alcohol	310	< 310 U
95-50-1	1,2-Dichlorobenzene	62	< 62 U
95-48-7	2-Methylphenol	62	< 62 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	62	< 62 U
106-44-5	4-Methylphenol	62	< 62 U
621-64-7	N-Nitroso-Di-N-Propylamine	62	< 62 U
67-72-1	Hexachloroethane	62	< 62 U
98-95-3	Nitrobenzene	62	< 62 U
78-59-1	Isophorone	62	< 62 U
88-75-5	2-Nitrophenol	62	< 62 U
105-67-9	2,4-Dimethylphenol	62	< 62 U
65-85-0	Benzoic Acid	620	< 620 U
111-91-1	bis(2-Chloroethoxy) Methane	62	< 62 U
120-83-2	2,4-Dichlorophenol	310	< 310 U
120-82-1	1,2,4-Trichlorobenzene	62	< 62 U
91-20-3	Naphthalene	62	< 62 U
106-47-8	4-Chloroaniline	310	< 310 U
87-68-3	Hexachlorobutadiene	62	< 62 U
59-50-7	4-Chloro-3-methylphenol	310	< 310 U
91-57-6	2-Methylnaphthalene	62	< 62 U
77-47-4	Hexachlorocyclopentadiene	310	< 310 U
88-06-2	2,4,6-Trichlorophenol	310	< 310 U
95-95-4	2,4,5-Trichlorophenol	310	< 310 U
91-58-7	2-Chloronaphthalene	62	< 62 U
88-74-4	2-Nitroaniline	310	< 310 U
131-11-3	Dimethylphthalate	62	< 62 U
208-96-8	Acenaphthylene	62	< 62 U
99-09-2	3-Nitroaniline	310	< 310 U
83-32-9	Acenaphthene	62	< 62 U
51-28-5	2,4-Dinitrophenol	620	< 620 U
100-02-7	4-Nitrophenol	310	< 310 U
132-64-9	Dibenzofuran	62	< 62 U
606-20-2	2,6-Dinitrotoluene	310	< 310 U
121-14-2	2,4-Dinitrotoluene	310	< 310 U
84-66-2	Diethylphthalate	62	< 62 U
7005-72-3	4-Chlorophenyl-phenylether	62	< 62 U
86-73-7	Fluorene	62	< 62 U
100-01-6	4-Nitroaniline	310	< 310 U
534-52-1	4,6-Dinitro-2-Methylphenol	620	< 620 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS

Sample ID: JF-T3B2-SO-13
SAMPLE

Lab Sample ID: SE67B
LIMS ID: 11-782
Matrix: Soil
Date Analyzed: 01/21/11 18:15

QC Report No: SE67-The Boeing Company
Project: Jorgensen Forge PLO
7KPL2JOR

CAS Number	Analyte	RL	Result
86-30-6	N-Nitrosodiphenylamine	62	< 62 U
101-55-3	4-Bromophenyl-phenylether	62	< 62 U
118-74-1	Hexachlorobenzene	62	< 62 U
87-86-5	Pentachlorophenol	310	< 310 U
85-01-8	Phenanthrene	62	< 62 U
86-74-8	Carbazole	62	< 62 U
120-12-7	Anthracene	62	< 62 U
84-74-2	Di-n-Butylphthalate	62	< 62 U
206-44-0	Fluoranthene	62	< 62 U
129-00-0	Pyrene	62	< 62 U
85-68-7	Butylbenzylphthalate	62	< 62 U
91-94-1	3,3'-Dichlorobenzidine	310	< 310 U
56-55-3	Benzo(a)anthracene	62	< 62 U
117-81-7	bis(2-Ethylhexyl)phthalate	62	< 62 U
218-01-9	Chrysene	62	< 62 U
117-84-0	Di-n-Octyl phthalate	62	< 62 U
50-32-8	Benzo(a)pyrene	62	< 62 U
193-39-5	Indeno(1,2,3-cd)pyrene	62	< 62 U
53-70-3	Dibenz(a,h)anthracene	62	< 62 U
191-24-2	Benzo(g,h,i)perylene	62	< 62 U
90-12-0	1-Methylnaphthalene	62	< 62 U
TOTBFA	Total Benzofluoranthenes	62	< 62 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	62.8%	2-Fluorobiphenyl	68.4%
d14-p-Terphenyl	79.6%	d4-1,2-Dichlorobenzene	64.8%
d5-Phenol	66.9%	2-Fluorophenol	64.3%
2,4,6-Tribromophenol	57.1%	d4-2-Chlorophenol	68.5%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS

Sample ID: JF-T3B2-SO-13-D
SAMPLE

Lab Sample ID: SE67C
LIMS ID: 11-783
Matrix: Soil
Data Release Authorized:
Reported: 01/25/11

QC Report No: SE67-The Boeing Company
Project: Jorgensen Forge PLO
7KPL2JOR
Date Sampled: 01/13/11
Date Received: 01/13/11

Date Extracted: 01/18/11
Date Analyzed: 01/21/11 18:47
Instrument/Analyst: NT6/JZ
GPC Cleanup: Yes

Sample Amount: 8.18 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 26.2%

CAS Number	Analyte	RL	Result
108-95-2	Phenol	61	< 61 U
111-44-4	Bis-(2-Chloroethyl) Ether	61	< 61 U
95-57-8	2-Chlorophenol	61	< 61 U
541-73-1	1,3-Dichlorobenzene	61	< 61 U
106-46-7	1,4-Dichlorobenzene	61	< 61 U
100-51-6	Benzyl Alcohol	310	< 310 U
95-50-1	1,2-Dichlorobenzene	61	< 61 U
95-48-7	2-Methylphenol	61	< 61 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	61	< 61 U
106-44-5	4-Methylphenol	61	< 61 U
621-64-7	N-Nitroso-Di-N-Propylamine	61	< 61 U
67-72-1	Hexachloroethane	61	< 61 U
98-95-3	Nitrobenzene	61	< 61 U
78-59-1	Isophorone	61	< 61 U
88-75-5	2-Nitrophenol	61	< 61 U
105-67-9	2,4-Dimethylphenol	61	< 61 U
65-85-0	Benzoic Acid	610	< 610 U
111-91-1	bis(2-Chloroethoxy) Methane	61	< 61 U
120-83-2	2,4-Dichlorophenol	310	< 310 U
120-82-1	1,2,4-Trichlorobenzene	61	< 61 U
91-20-3	Naphthalene	61	< 61 U
106-47-8	4-Chloroaniline	310	< 310 U
87-68-3	Hexachlorobutadiene	61	< 61 U
59-50-7	4-Chloro-3-methylphenol	310	< 310 U
91-57-6	2-Methylnaphthalene	61	< 61 U
77-47-4	Hexachlorocyclopentadiene	310	< 310 U
88-06-2	2,4,6-Trichlorophenol	310	< 310 U
95-95-4	2,4,5-Trichlorophenol	310	< 310 U
91-58-7	2-Chloronaphthalene	61	< 61 U
88-74-4	2-Nitroaniline	310	< 310 U
131-11-3	Dimethylphthalate	61	< 61 U
208-96-8	Acenaphthylene	61	< 61 U
99-09-2	3-Nitroaniline	310	< 310 U
83-32-9	Acenaphthene	61	< 61 U
51-28-5	2,4-Dinitrophenol	610	< 610 U
100-02-7	4-Nitrophenol	310	< 310 U
132-64-9	Dibenzofuran	61	< 61 U
606-20-2	2,6-Dinitrotoluene	310	< 310 U
121-14-2	2,4-Dinitrotoluene	310	< 310 U
84-66-2	Diethylphthalate	61	< 61 U
7005-72-3	4-Chlorophenyl-phenylether	61	< 61 U
86-73-7	Fluorene	61	< 61 U
100-01-6	4-Nitroaniline	310	< 310 U
534-52-1	4,6-Dinitro-2-Methylphenol	610	< 610 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS

Sample ID: JF-T3B2-SO-13-D
SAMPLE

Lab Sample ID: SE67C
LIMS ID: 11-783
Matrix: Soil
Date Analyzed: 01/21/11 18:47

QC Report No: SE67-The Boeing Company
Project: Jorgensen Forge PLO
7KPL2JOR

CAS Number	Analyte	RL	Result
86-30-6	N-Nitrosodiphenylamine	61	< 61 U
101-55-3	4-Bromophenyl-phenylether	61	< 61 U
118-74-1	Hexachlorobenzene	61	< 61 U
87-86-5	Pentachlorophenol	310	< 310 U
85-01-8	Phenanthrene	61	< 61 U
86-74-8	Carbazole	61	< 61 U
120-12-7	Anthracene	61	< 61 U
84-74-2	Di-n-Butylphthalate	61	< 61 U
206-44-0	Fluoranthene	61	< 61 U
129-00-0	Pyrene	61	< 61 U
85-68-7	Butylbenzylphthalate	61	< 61 U
91-94-1	3,3'-Dichlorobenzidine	310	< 310 U
56-55-3	Benzo(a)anthracene	61	< 61 U
117-81-7	bis(2-Ethylhexyl)phthalate	61	< 61 U
218-01-9	Chrysene	61	< 61 U
117-84-0	Di-n-Octyl phthalate	61	< 61 U
50-32-8	Benzo(a)pyrene	61	< 61 U
193-39-5	Indeno(1,2,3-cd)pyrene	61	< 61 U
53-70-3	Dibenz(a,h)anthracene	61	< 61 U
191-24-2	Benzo(g,h,i)perylene	61	< 61 U
90-12-0	1-Methylnaphthalene	61	< 61 U
TOTBFA	Total Benzofluoranthenes	61	< 61 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	64.0%	2-Fluorobiphenyl	70.8%
d14-p-Terphenyl	81.6%	d4-1,2-Dichlorobenzene	67.2%
d5-Phenol	69.9%	2-Fluorophenol	66.7%
2,4,6-Tribromophenol	57.3%	d4-2-Chlorophenol	70.7%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS

Sample ID: JF-T3B1-SO-03
SAMPLE

Lab Sample ID: SE67D
LIMS ID: 11-784
Matrix: Soil
Data Release Authorized:
Reported: 01/25/11

QC Report No: SE67-The Boeing Company
Project: Jorgensen Forge PLO
7KPL2JOR
Date Sampled: 01/13/11
Date Received: 01/13/11

Date Extracted: 01/18/11
Date Analyzed: 01/21/11 19:20
Instrument/Analyst: NT6/JZ
GPC Cleanup: Yes

Sample Amount: 7.77 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 23.1%

CAS Number	Analyte	RL	Result
108-95-2	Phenol	64	< 64 U
111-44-4	Bis-(2-Chloroethyl) Ether	64	< 64 U
95-57-8	2-Chlorophenol	64	< 64 U
541-73-1	1,3-Dichlorobenzene	64	< 64 U
106-46-7	1,4-Dichlorobenzene	64	< 64 U
100-51-6	Benzyl Alcohol	320	< 320 U
95-50-1	1,2-Dichlorobenzene	64	< 64 U
95-48-7	2-Methylphenol	64	< 64 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	64	< 64 U
106-44-5	4-Methylphenol	64	< 64 U
621-64-7	N-Nitroso-Di-N-Propylamine	64	< 64 U
67-72-1	Hexachloroethane	64	< 64 U
98-95-3	Nitrobenzene	64	< 64 U
78-59-1	Isophorone	64	< 64 U
88-75-5	2-Nitrophenol	64	< 64 U
105-67-9	2,4-Dimethylphenol	64	< 64 U
65-85-0	Benzoic Acid	640	< 640 U
111-91-1	bis(2-Chloroethoxy) Methane	64	< 64 U
120-83-2	2,4-Dichlorophenol	320	< 320 U
120-82-1	1,2,4-Trichlorobenzene	64	< 64 U
91-20-3	Naphthalene	64	< 64 U
106-47-8	4-Chloroaniline	320	< 320 U
87-68-3	Hexachlorobutadiene	64	< 64 U
59-50-7	4-Chloro-3-methylphenol	320	< 320 U
91-57-6	2-Methylnaphthalene	64	< 64 U
77-47-4	Hexachlorocyclopentadiene	320	< 320 U
88-06-2	2,4,6-Trichlorophenol	320	< 320 U
95-95-4	2,4,5-Trichlorophenol	320	< 320 U
91-58-7	2-Chloronaphthalene	64	< 64 U
88-74-4	2-Nitroaniline	320	< 320 U
131-11-3	Dimethylphthalate	64	< 64 U
208-96-8	Acenaphthylene	64	< 64 U
99-09-2	3-Nitroaniline	320	< 320 U
83-32-9	Acenaphthene	64	< 64 U
51-28-5	2,4-Dinitrophenol	640	< 640 U
100-02-7	4-Nitrophenol	320	< 320 U
132-64-9	Dibenzofuran	64	< 64 U
606-20-2	2,6-Dinitrotoluene	320	< 320 U
121-14-2	2,4-Dinitrotoluene	320	< 320 U
84-66-2	Diethylphthalate	64	< 64 U
7005-72-3	4-Chlorophenyl-phenylether	64	< 64 U
86-73-7	Fluorene	64	< 64 U
100-01-6	4-Nitroaniline	320	< 320 U
534-52-1	4,6-Dinitro-2-Methylphenol	640	< 640 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS

Sample ID: JF-T3B1-SO-03
SAMPLE

Lab Sample ID: SE67D
LIMS ID: 11-784
Matrix: Soil
Date Analyzed: 01/21/11 19:20

QC Report No: SE67-The Boeing Company
Project: Jorgensen Forge PLO
7KPL2JOR

CAS Number	Analyte	RL	Result
86-30-6	N-Nitrosodiphenylamine	64	< 64 U
101-55-3	4-Bromophenyl-phenylether	64	< 64 U
118-74-1	Hexachlorobenzene	64	< 64 U
87-86-5	Pentachlorophenol	320	< 320 U
85-01-8	Phenanthrene	64	< 64 U
86-74-8	Carbazole	64	< 64 U
120-12-7	Anthracene	64	< 64 U
84-74-2	Di-n-Butylphthalate	64	< 64 U
206-44-0	Fluoranthene	64	< 64 U
129-00-0	Pyrene	64	< 64 U
85-68-7	Butylbenzylphthalate	64	< 64 U
91-94-1	3,3'-Dichlorobenzidine	320	< 320 U
56-55-3	Benzo(a)anthracene	64	< 64 U
117-81-7	bis(2-Ethylhexyl)phthalate	64	< 64 U
218-01-9	Chrysene	64	< 64 U
117-84-0	Di-n-Octyl phthalate	64	< 64 U
50-32-8	Benzo(a)pyrene	64	< 64 U
193-39-5	Indeno(1,2,3-cd)pyrene	64	< 64 U
53-70-3	Dibenz(a,h)anthracene	64	< 64 U
191-24-2	Benzo(g,h,i)perylene	64	< 64 U
90-12-0	1-Methylnaphthalene	64	< 64 U
TOTBFA	Total Benzofluoranthenes	64	< 64 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	67.6%	2-Fluorobiphenyl	73.6%
d14-p-Terphenyl	86.4%	d4-1,2-Dichlorobenzene	69.6%
d5-Phenol	71.5%	2-Fluorophenol	68.3%
2,4,6-Tribromophenol	62.4%	d4-2-Chlorophenol	72.3%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS

Sample ID: JF-T3B1-SO-08
SAMPLE

Lab Sample ID: SE67E
LIMS ID: 11-785
Matrix: Soil
Data Release Authorized:
Reported: 01/25/11

QC Report No: SE67-The Boeing Company
Project: Jorgensen Forge PLO
7KPL2JOR
Date Sampled: 01/13/11
Date Received: 01/13/11

Date Extracted: 01/18/11
Date Analyzed: 01/21/11 19:53
Instrument/Analyst: NT6/JZ
GPC Cleanup: Yes

Sample Amount: 8.31 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 18.0%

CAS Number	Analyte	RL	Result
108-95-2	Phenol	60	< 60 U
111-44-4	Bis-(2-Chloroethyl) Ether	60	< 60 U
95-57-8	2-Chlorophenol	60	< 60 U
541-73-1	1,3-Dichlorobenzene	60	< 60 U
106-46-7	1,4-Dichlorobenzene	60	< 60 U
100-51-6	Benzyl Alcohol	300	< 300 U
95-50-1	1,2-Dichlorobenzene	60	< 60 U
95-48-7	2-Methylphenol	60	< 60 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	60	< 60 U
106-44-5	4-Methylphenol	60	< 60 U
621-64-7	N-Nitroso-Di-N-Propylamine	60	< 60 U
67-72-1	Hexachloroethane	60	< 60 U
98-95-3	Nitrobenzene	60	< 60 U
78-59-1	Isophorone	60	< 60 U
88-75-5	2-Nitrophenol	60	< 60 U
105-67-9	2,4-Dimethylphenol	60	< 60 U
65-85-0	Benzoic Acid	600	< 600 U
111-91-1	bis(2-Chloroethoxy) Methane	60	< 60 U
120-83-2	2,4-Dichlorophenol	300	< 300 U
120-82-1	1,2,4-Trichlorobenzene	60	< 60 U
91-20-3	Naphthalene	60	< 60 U
106-47-8	4-Chloroaniline	300	< 300 U
87-68-3	Hexachlorobutadiene	60	< 60 U
59-50-7	4-Chloro-3-methylphenol	300	< 300 U
91-57-6	2-Methylnaphthalene	60	< 60 U
77-47-4	Hexachlorocyclopentadiene	300	< 300 U
88-06-2	2,4,6-Trichlorophenol	300	< 300 U
95-95-4	2,4,5-Trichlorophenol	300	< 300 U
91-58-7	2-Chloronaphthalene	60	< 60 U
88-74-4	2-Nitroaniline	300	< 300 U
131-11-3	Dimethylphthalate	60	< 60 U
208-96-8	Acenaphthylene	60	< 60 U
99-09-2	3-Nitroaniline	300	< 300 U
83-32-9	Acenaphthene	60	< 60 U
51-28-5	2,4-Dinitrophenol	600	< 600 U
100-02-7	4-Nitrophenol	300	< 300 U
132-64-9	Dibenzofuran	60	< 60 U
606-20-2	2,6-Dinitrotoluene	300	< 300 U
121-14-2	2,4-Dinitrotoluene	300	< 300 U
84-66-2	Diethylphthalate	60	< 60 U
7005-72-3	4-Chlorophenyl-phenylether	60	< 60 U
86-73-7	Fluorene	60	< 60 U
100-01-6	4-Nitroaniline	300	< 300 U
534-52-1	4,6-Dinitro-2-Methylphenol	600	< 600 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS

Sample ID: JF-T3B1-SO-08
SAMPLE

Lab Sample ID: SE67E
LIMS ID: 11-785
Matrix: Soil
Date Analyzed: 01/21/11 19:53

QC Report No: SE67-The Boeing Company
Project: Jorgensen Forge PLO
7KPL2JOR

CAS Number	Analyte	RL	Result
86-30-6	N-Nitrosodiphenylamine	60	< 60 U
101-55-3	4-Bromophenyl-phenylether	60	< 60 U
118-74-1	Hexachlorobenzene	60	< 60 U
87-86-5	Pentachlorophenol	300	< 300 U
85-01-8	Phenanthrene	60	< 60 U
86-74-8	Carbazole	60	< 60 U
120-12-7	Anthracene	60	< 60 U
84-74-2	Di-n-Butylphthalate	60	< 60 U
206-44-0	Fluoranthene	60	< 60 U
129-00-0	Pyrene	60	< 60 U
85-68-7	Butylbenzylphthalate	60	< 60 U
91-94-1	3,3'-Dichlorobenzidine	300	< 300 U
56-55-3	Benzo(a)anthracene	60	< 60 U
117-81-7	bis(2-Ethylhexyl)phthalate	60	< 60 U
218-01-9	Chrysene	60	< 60 U
117-84-0	Di-n-Octyl phthalate	60	< 60 U
50-32-8	Benzo(a)pyrene	60	< 60 U
193-39-5	Indeno(1,2,3-cd)pyrene	60	< 60 U
53-70-3	Dibenz(a,h)anthracene	60	< 60 U
191-24-2	Benzo(g,h,i)perylene	60	< 60 U
90-12-0	1-Methylnaphthalene	60	< 60 U
TOTBFA	Total Benzofluoranthenes	60	< 60 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	62.0%	2-Fluorobiphenyl	68.8%
d14-p-Terphenyl	89.6%	d4-1,2-Dichlorobenzene	63.6%
d5-Phenol	67.5%	2-Fluorophenol	62.4%
2,4,6-Tribromophenol	61.3%	d4-2-Chlorophenol	66.7%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS

Sample ID: JF-T3B1-SO-13
SAMPLE

Lab Sample ID: SE67F
LIMS ID: 11-786
Matrix: Soil
Data Release Authorized:
Reported: 01/25/11

QC Report No: SE67-The Boeing Company
Project: Jorgensen Forge PLO
7KPL2JOR
Date Sampled: 01/13/11
Date Received: 01/13/11

Date Extracted: 01/18/11
Date Analyzed: 01/21/11 20:26
Instrument/Analyst: NT6/JZ
GPC Cleanup: Yes

Sample Amount: 8.10 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 26.9%

CAS Number	Analyte	RL	Result
108-95-2	Phenol	62	< 62 U
111-44-4	Bis-(2-Chloroethyl) Ether	62	< 62 U
95-57-8	2-Chlorophenol	62	< 62 U
541-73-1	1,3-Dichlorobenzene	62	< 62 U
106-46-7	1,4-Dichlorobenzene	62	< 62 U
100-51-6	Benzyl Alcohol	310	< 310 U
95-50-1	1,2-Dichlorobenzene	62	< 62 U
95-48-7	2-Methylphenol	62	< 62 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	62	< 62 U
106-44-5	4-Methylphenol	62	< 62 U
621-64-7	N-Nitroso-Di-N-Propylamine	62	< 62 U
67-72-1	Hexachloroethane	62	< 62 U
98-95-3	Nitrobenzene	62	< 62 U
78-59-1	Isophorone	62	< 62 U
88-75-5	2-Nitrophenol	62	< 62 U
105-67-9	2,4-Dimethylphenol	62	< 62 U
65-85-0	Benzoic Acid	620	< 620 U
111-91-1	bis(2-Chloroethoxy) Methane	62	< 62 U
120-83-2	2,4-Dichlorophenol	310	< 310 U
120-82-1	1,2,4-Trichlorobenzene	62	< 62 U
91-20-3	Naphthalene	62	< 62 U
106-47-8	4-Chloroaniline	310	< 310 U
87-68-3	Hexachlorobutadiene	62	< 62 U
59-50-7	4-Chloro-3-methylphenol	310	< 310 U
91-57-6	2-Methylnaphthalene	62	< 62 U
77-47-4	Hexachlorocyclopentadiene	310	< 310 U
88-06-2	2,4,6-Trichlorophenol	310	< 310 U
95-95-4	2,4,5-Trichlorophenol	310	< 310 U
91-58-7	2-Chloronaphthalene	62	< 62 U
88-74-4	2-Nitroaniline	310	< 310 U
131-11-3	Dimethylphthalate	62	< 62 U
208-96-8	Acenaphthylene	62	< 62 U
99-09-2	3-Nitroaniline	310	< 310 U
83-32-9	Acenaphthene	62	< 62 U
51-28-5	2,4-Dinitrophenol	620	< 620 U
100-02-7	4-Nitrophenol	310	< 310 U
132-64-9	Dibenzofuran	62	< 62 U
606-20-2	2,6-Dinitrotoluene	310	< 310 U
121-14-2	2,4-Dinitrotoluene	310	< 310 U
84-66-2	Diethylphthalate	62	< 62 U
7005-72-3	4-Chlorophenyl-phenylether	62	< 62 U
86-73-7	Fluorene	62	< 62 U
100-01-6	4-Nitroaniline	310	< 310 U
534-52-1	4,6-Dinitro-2-Methylphenol	620	< 620 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS

Sample ID: JF-T3B1-SO-13
SAMPLE

Lab Sample ID: SE67F
LIMS ID: 11-786
Matrix: Soil
Date Analyzed: 01/21/11 20:26

QC Report No: SE67-The Boeing Company
Project: Jorgensen Forge PLO
7KPL2JOR

CAS Number	Analyte	RL	Result
86-30-6	N-Nitrosodiphenylamine	62	< 62 U
101-55-3	4-Bromophenyl-phenylether	62	< 62 U
118-74-1	Hexachlorobenzene	62	< 62 U
87-86-5	Pentachlorophenol	310	< 310 U
85-01-8	**Phenanthrene**	**62**	**67**
86-74-8	Carbazole	62	< 62 U
120-12-7	Anthracene	62	< 62 U
84-74-2	Di-n-Butylphthalate	62	< 62 U
206-44-0	Fluoranthene	62	< 62 U
129-00-0	Pyrene	62	< 62 U
85-68-7	Butylbenzylphthalate	62	< 62 U
91-94-1	3,3'-Dichlorobenzidine	310	< 310 U
56-55-3	Benzo(a)anthracene	62	< 62 U
117-81-7	bis(2-Ethylhexyl)phthalate	62	< 62 U
218-01-9	Chrysene	62	< 62 U
117-84-0	Di-n-Octyl phthalate	62	< 62 U
50-32-8	Benzo(a)pyrene	62	< 62 U
193-39-5	Indeno(1,2,3-cd)pyrene	62	< 62 U
53-70-3	Dibenz(a,h)anthracene	62	< 62 U
191-24-2	Benzo(g,h,i)perylene	62	< 62 U
90-12-0	1-Methylnaphthalene	62	< 62 U
TOTBFA	Total Benzofluoranthenes	62	< 62 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	73.2%	2-Fluorobiphenyl	73.6%
d14-p-Terphenyl	77.6%	d4-1,2-Dichlorobenzene	66.0%
d5-Phenol	69.1%	2-Fluorophenol	65.3%
2,4,6-Tribromophenol	73.1%	d4-2-Chlorophenol	69.3%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS

Sample ID: JF-T2B4-SO-18
SAMPLE

Lab Sample ID: SE67G
LIMS ID: 11-787
Matrix: Soil
Data Release Authorized:
Reported: 01/25/11

QC Report No: SE67-The Boeing Company
Project: Jorgensen Forge PLO
7KPL2JOR
Date Sampled: 01/13/11
Date Received: 01/13/11

Date Extracted: 01/18/11
Date Analyzed: 01/21/11 20:59
Instrument/Analyst: NT6/JZ
GPC Cleanup: Yes

Sample Amount: 4.12 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 31.6%

CAS Number	Analyte	RL	Result
108-95-2	Phenol	120	< 120 U
111-44-4	Bis-(2-Chloroethyl) Ether	120	< 120 U
95-57-8	2-Chlorophenol	120	< 120 U
541-73-1	1,3-Dichlorobenzene	120	< 120 U
106-46-7	**1,4-Dichlorobenzene**	**120**	**150**
100-51-6	Benzyl Alcohol	610	< 610 U
95-50-1	**1,2-Dichlorobenzene**	**120**	**270**
95-48-7	2-Methylphenol	120	< 120 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	120	< 120 U
106-44-5	4-Methylphenol	120	< 120 U
621-64-7	N-Nitroso-Di-N-Propylamine	120	< 120 U
67-72-1	Hexachloroethane	120	< 120 U
98-95-3	Nitrobenzene	120	< 120 U
78-59-1	Isophorone	120	< 120 U
88-75-5	2-Nitrophenol	120	< 120 U
105-67-9	2,4-Dimethylphenol	120	< 120 U
65-85-0	Benzoic Acid	1,200	< 1,200 U
111-91-1	bis(2-Chloroethoxy) Methane	120	< 120 U
120-83-2	2,4-Dichlorophenol	610	< 610 U
120-82-1	1,2,4-Trichlorobenzene	120	< 120 U
91-20-3	**Naphthalene**	**120**	**130**
106-47-8	4-Chloroaniline	610	< 610 U
87-68-3	Hexachlorobutadiene	120	< 120 U
59-50-7	4-Chloro-3-methylphenol	610	< 610 U
91-57-6	2-Methylnaphthalene	120	< 120 U
77-47-4	Hexachlorocyclopentadiene	610	< 610 U
88-06-2	2,4,6-Trichlorophenol	610	< 610 U
95-95-4	2,4,5-Trichlorophenol	610	< 610 U
91-58-7	2-Chloronaphthalene	120	< 120 U
88-74-4	2-Nitroaniline	610	< 610 U
131-11-3	Dimethylphthalate	120	< 120 U
208-96-8	Acenaphthylene	120	< 120 U
99-09-2	3-Nitroaniline	610	< 610 U
83-32-9	Acenaphthene	120	< 120 U
51-28-5	2,4-Dinitrophenol	1,200	< 1,200 U
100-02-7	4-Nitrophenol	610	< 610 U
132-64-9	Dibenzofuran	120	< 120 U
606-20-2	2,6-Dinitrotoluene	610	< 610 U
121-14-2	2,4-Dinitrotoluene	610	< 610 U
84-66-2	Diethylphthalate	120	< 120 U
7005-72-3	4-Chlorophenyl-phenylether	120	< 120 U
86-73-7	Fluorene	120	< 120 U
100-01-6	4-Nitroaniline	610	< 610 U
534-52-1	4,6-Dinitro-2-Methylphenol	1,200	< 1,200 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS

Sample ID: JF-T2B4-SO-18
SAMPLE

Lab Sample ID: SE67G
LIMS ID: 11-787
Matrix: Soil
Date Analyzed: 01/21/11 20:59

QC Report No: SE67-The Boeing Company
Project: Jorgensen Forge PLO
7KPL2JOR

CAS Number	Analyte	RL	Result
86-30-6	N-Nitrosodiphenylamine	120	< 120 U
101-55-3	4-Bromophenyl-phenylether	120	< 120 U
118-74-1	Hexachlorobenzene	120	< 120 U
87-86-5	Pentachlorophenol	610	< 610 U
85-01-8	Phenanthrene	120	< 120 U
86-74-8	Carbazole	120	< 120 U
120-12-7	Anthracene	120	< 120 U
84-74-2	Di-n-Butylphthalate	120	< 120 U
206-44-0	Fluoranthene	120	< 120 U
129-00-0	Pyrene	120	< 120 U
85-68-7	Butylbenzylphthalate	120	< 120 U
91-94-1	3,3'-Dichlorobenzidine	610	< 610 U
56-55-3	Benzo(a)anthracene	120	< 120 U
117-81-7	**bis(2-Ethylhexyl)phthalate**	**120**	**16,000 ES**
218-01-9	Chrysene	120	< 120 U
117-84-0	Di-n-Octyl phthalate	120	< 120 U
50-32-8	Benzo(a)pyrene	120	< 120 U
193-39-5	Indeno(1,2,3-cd)pyrene	120	< 120 U
53-70-3	Dibenz(a,h)anthracene	120	< 120 U
191-24-2	Benzo(g,h,i)perylene	120	< 120 U
90-12-0	1-Methylnaphthalene	120	< 120 U
TOTBFA	Total Benzofluoranthenes	120	< 120 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	70.4%	2-Fluorobiphenyl	84.8%
d14-p-Terphenyl	90.0%	d4-1,2-Dichlorobenzene	66.8%
d5-Phenol	70.1%	2-Fluorophenol	58.9%
2,4,6-Tribromophenol	90.1%	d4-2-Chlorophenol	68.5%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS

Sample ID: JF-T2B4-SO-18
DILUTION

Lab Sample ID: SE67G
LIMS ID: 11-787
Matrix: Soil
Data Release Authorized:
Reported: 01/25/11

QC Report No: SE67-The Boeing Company
Project: Jorgensen Forge PLO
7KPL2JOR
Date Sampled: 01/13/11
Date Received: 01/13/11

Date Extracted: 01/18/11
Date Analyzed: 01/24/11 23:52
Instrument/Analyst: NT6/JZ
GPC Cleanup: Yes

Sample Amount: 4.12 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 5.00
Percent Moisture: 31.6%

CAS Number	Analyte	RL	Result
108-95-2	Phenol	610	< 610 U
111-44-4	Bis-(2-Chloroethyl) Ether	610	< 610 U
95-57-8	2-Chlorophenol	610	< 610 U
541-73-1	1,3-Dichlorobenzene	610	< 610 U
106-46-7	1,4-Dichlorobenzene	610	< 610 U
100-51-6	Benzyl Alcohol	3,000	< 3,000 U
95-50-1	1,2-Dichlorobenzene	610	< 610 U
95-48-7	2-Methylphenol	610	< 610 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	610	< 610 U
106-44-5	4-Methylphenol	610	< 610 U
621-64-7	N-Nitroso-Di-N-Propylamine	610	< 610 U
67-72-1	Hexachloroethane	610	< 610 U
98-95-3	Nitrobenzene	610	< 610 U
78-59-1	Isophorone	610	< 610 U
88-75-5	2-Nitrophenol	610	< 610 U
105-67-9	2,4-Dimethylphenol	610	< 610 U
65-85-0	Benzoic Acid	6,100	< 6,100 U
111-91-1	bis(2-Chloroethoxy) Methane	610	< 610 U
120-83-2	2,4-Dichlorophenol	3,000	< 3,000 U
120-82-1	1,2,4-Trichlorobenzene	610	< 610 U
91-20-3	Naphthalene	610	< 610 U
106-47-8	4-Chloroaniline	3,000	< 3,000 U
87-68-3	Hexachlorobutadiene	610	< 610 U
59-50-7	4-Chloro-3-methylphenol	3,000	< 3,000 U
91-57-6	2-Methylnaphthalene	610	< 610 U
77-47-4	Hexachlorocyclopentadiene	3,000	< 3,000 U
88-06-2	2,4,6-Trichlorophenol	3,000	< 3,000 U
95-95-4	2,4,5-Trichlorophenol	3,000	< 3,000 U
91-58-7	2-Chloronaphthalene	610	< 610 U
88-74-4	2-Nitroaniline	3,000	< 3,000 U
131-11-3	Dimethylphthalate	610	< 610 U
208-96-8	Acenaphthylene	610	< 610 U
99-09-2	3-Nitroaniline	3,000	< 3,000 U
83-32-9	Acenaphthene	610	< 610 U
51-28-5	2,4-Dinitrophenol	6,100	< 6,100 U
100-02-7	4-Nitrophenol	3,000	< 3,000 U
132-64-9	Dibenzofuran	610	< 610 U
606-20-2	2,6-Dinitrotoluene	3,000	< 3,000 U
121-14-2	2,4-Dinitrotoluene	3,000	< 3,000 U
84-66-2	Diethylphthalate	610	< 610 U
7005-72-3	4-Chlorophenyl-phenylether	610	< 610 U
86-73-7	Fluorene	610	< 610 U
100-01-6	4-Nitroaniline	3,000	< 3,000 U
534-52-1	4,6-Dinitro-2-Methylphenol	6,100	< 6,100 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS

Sample ID: JF-T2B4-SO-18
DILUTION

Lab Sample ID: SE67G
LIMS ID: 11-787
Matrix: Soil
Date Analyzed: 01/24/11 23:52

QC Report No: SE67-The Boeing Company
Project: Jorgensen Forge PLO
7KPL2JOR

CAS Number	Analyte	RL	Result
86-30-6	N-Nitrosodiphenylamine	610	< 610 U
101-55-3	4-Bromophenyl-phenylether	610	< 610 U
118-74-1	Hexachlorobenzene	610	< 610 U
87-86-5	Pentachlorophenol	3,000	< 3,000 U
85-01-8	Phenanthrene	610	< 610 U
86-74-8	Carbazole	610	< 610 U
120-12-7	Anthracene	610	< 610 U
84-74-2	**Di-n-Butylphthalate**	**610**	**2,100**
206-44-0	Fluoranthene	610	< 610 U
129-00-0	Pyrene	610	< 610 U
85-68-7	Butylbenzylphthalate	610	< 610 U
91-94-1	3,3'-Dichlorobenzidine	3,000	< 3,000 U
56-55-3	Benzo(a)anthracene	610	< 610 U
117-81-7	**bis(2-Ethylhexyl)phthalate**	**610**	**16,000**
218-01-9	Chrysene	610	< 610 U
117-84-0	Di-n-Octyl phthalate	610	< 610 U
50-32-8	Benzo(a)pyrene	610	< 610 U
193-39-5	Indeno(1,2,3-cd)pyrene	610	< 610 U
53-70-3	Dibenz(a,h)anthracene	610	< 610 U
191-24-2	Benzo(g,h,i)perylene	610	< 610 U
90-12-0	1-Methylnaphthalene	610	< 610 U
TOTBFA	Total Benzofluoranthenes	610	< 610 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	65.8%	2-Fluorobiphenyl	84.2%
d14-p-Terphenyl	81.4%	d4-1,2-Dichlorobenzene	68.4%
d5-Phenol	67.9%	2-Fluorophenol	54.7%
2,4,6-Tribromophenol	69.9%	d4-2-Chlorophenol	67.1%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS

Sample ID: JF-T2B4-SO-23
SAMPLE

Lab Sample ID: SE67H
LIMS ID: 11-788
Matrix: Soil
Data Release Authorized:
Reported: 01/25/11

QC Report No: SE67-The Boeing Company
Project: Jorgensen Forge PLO
7KPL2JOR
Date Sampled: 01/13/11
Date Received: 01/13/11

Date Extracted: 01/18/11
Date Analyzed: 01/25/11 00:25
Instrument/Analyst: NT6/JZ
GPC Cleanup: Yes

Sample Amount: 8.07 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 20.0%

CAS Number	Analyte	RL	Result
108-95-2	Phenol	62	< 62 U
111-44-4	Bis-(2-Chloroethyl) Ether	62	< 62 U
95-57-8	2-Chlorophenol	62	< 62 U
541-73-1	1,3-Dichlorobenzene	62	< 62 U
106-46-7	1,4-Dichlorobenzene	62	< 62 U
100-51-6	Benzyl Alcohol	310	< 310 U
95-50-1	1,2-Dichlorobenzene	62	< 62 U
95-48-7	2-Methylphenol	62	< 62 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	62	< 62 U
106-44-5	4-Methylphenol	62	< 62 U
621-64-7	N-Nitroso-Di-N-Propylamine	62	< 62 U
67-72-1	Hexachloroethane	62	< 62 U
98-95-3	Nitrobenzene	62	< 62 U
78-59-1	Isophorone	62	< 62 U
88-75-5	2-Nitrophenol	62	< 62 U
105-67-9	2,4-Dimethylphenol	62	< 62 U
65-85-0	Benzoic Acid	620	< 620 U
111-91-1	bis(2-Chloroethoxy) Methane	62	< 62 U
120-83-2	2,4-Dichlorophenol	310	< 310 U
120-82-1	1,2,4-Trichlorobenzene	62	< 62 U
91-20-3	**Naphthalene**	**62**	**780**
106-47-8	4-Chloroaniline	310	< 310 U
87-68-3	Hexachlorobutadiene	62	< 62 U
59-50-7	4-Chloro-3-methylphenol	310	< 310 U
91-57-6	**2-Methylnaphthalene**	**62**	**150**
77-47-4	Hexachlorocyclopentadiene	310	< 310 U
88-06-2	2,4,6-Trichlorophenol	310	< 310 U
95-95-4	2,4,5-Trichlorophenol	310	< 310 U
91-58-7	2-Chloronaphthalene	62	< 62 U
88-74-4	2-Nitroaniline	310	< 310 U
131-11-3	Dimethylphthalate	62	< 62 U
208-96-8	Acenaphthylene	62	< 62 U
99-09-2	3-Nitroaniline	310	< 310 U
83-32-9	**Acenaphthene**	**62**	**94**
51-28-5	2,4-Dinitrophenol	620	< 620 U
100-02-7	4-Nitrophenol	310	< 310 U
132-64-9	Dibenzofuran	62	< 62 U
606-20-2	2,6-Dinitrotoluene	310	< 310 U
121-14-2	2,4-Dinitrotoluene	310	< 310 U
84-66-2	Diethylphthalate	62	< 62 U
7005-72-3	4-Chlorophenyl-phenylether	62	< 62 U
86-73-7	Fluorene	62	< 62 U
100-01-6	4-Nitroaniline	310	< 310 U
534-52-1	4,6-Dinitro-2-Methylphenol	620	< 620 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS

Sample ID: JF-T2B4-SO-23
SAMPLE

Lab Sample ID: SE67H
LIMS ID: 11-788
Matrix: Soil
Date Analyzed: 01/25/11 00:25

QC Report No: SE67-The Boeing Company
Project: Jorgensen Forge PLO
7KPL2JOR

CAS Number	Analyte	RL	Result
86-30-6	N-Nitrosodiphenylamine	62	< 62 U
101-55-3	4-Bromophenyl-phenylether	62	< 62 U
118-74-1	Hexachlorobenzene	62	< 62 U
87-86-5	Pentachlorophenol	310	< 310 U
85-01-8	**Phenanthrene**	**62**	**130**
86-74-8	Carbazole	62	< 62 U
120-12-7	Anthracene	62	< 62 U
84-74-2	**Di-n-Butylphthalate**	**62**	**190**
206-44-0	Fluoranthene	62	< 62 U
129-00-0	**Pyrene**	**62**	**74**
85-68-7	Butylbenzylphthalate	62	< 62 U
91-94-1	3,3'-Dichlorobenzidine	310	< 310 U
56-55-3	Benzo(a)anthracene	62	< 62 U
117-81-7	**bis(2-Ethylhexyl)phthalate**	**62**	**820**
218-01-9	Chrysene	62	< 62 U
117-84-0	Di-n-Octyl phthalate	62	< 62 U
50-32-8	Benzo(a)pyrene	62	< 62 U
193-39-5	Indeno(1,2,3-cd)pyrene	62	< 62 U
53-70-3	Dibenz(a,h)anthracene	62	< 62 U
191-24-2	Benzo(g,h,i)perylene	62	< 62 U
90-12-0	**1-Methylnaphthalene**	**62**	**74**
TOTBFA	Total Benzofluoranthenes	62	< 62 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	65.2%	2-Fluorobiphenyl	78.4%
d14-p-Terphenyl	82.8%	d4-1,2-Dichlorobenzene	62.0%
d5-Phenol	70.9%	2-Fluorophenol	58.7%
2,4,6-Tribromophenol	91.2%	d4-2-Chlorophenol	68.8%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS

Sample ID: JF-T3B4-SO-03
SAMPLE

Lab Sample ID: SE67I
LIMS ID: 11-789
Matrix: Soil
Data Release Authorized:
Reported: 01/25/11

QC Report No: SE67-The Boeing Company
Project: Jorgensen Forge PLO
7KPL2JOR
Date Sampled: 01/13/11
Date Received: 01/13/11

Date Extracted: 01/18/11
Date Analyzed: 01/21/11 22:04
Instrument/Analyst: NT6/JZ
GPC Cleanup: Yes

Sample Amount: 7.91 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 21.7%

CAS Number	Analyte	RL	Result
108-95-2	Phenol	63	< 63 U
111-44-4	Bis-(2-Chloroethyl) Ether	63	< 63 U
95-57-8	2-Chlorophenol	63	< 63 U
541-73-1	1,3-Dichlorobenzene	63	< 63 U
106-46-7	1,4-Dichlorobenzene	63	< 63 U
100-51-6	Benzyl Alcohol	320	< 320 U
95-50-1	1,2-Dichlorobenzene	63	< 63 U
95-48-7	2-Methylphenol	63	< 63 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	63	< 63 U
106-44-5	4-Methylphenol	63	< 63 U
621-64-7	N-Nitroso-Di-N-Propylamine	63	< 63 U
67-72-1	Hexachloroethane	63	< 63 U
98-95-3	Nitrobenzene	63	< 63 U
78-59-1	Isophorone	63	< 63 U
88-75-5	2-Nitrophenol	63	< 63 U
105-67-9	2,4-Dimethylphenol	63	< 63 U
65-85-0	Benzoic Acid	630	< 630 U
111-91-1	bis(2-Chloroethoxy) Methane	63	< 63 U
120-83-2	2,4-Dichlorophenol	320	< 320 U
120-82-1	1,2,4-Trichlorobenzene	63	< 63 U
91-20-3	Naphthalene	63	< 63 U
106-47-8	4-Chloroaniline	320	< 320 U
87-68-3	Hexachlorobutadiene	63	< 63 U
59-50-7	4-Chloro-3-methylphenol	320	< 320 U
91-57-6	2-Methylnaphthalene	63	< 63 U
77-47-4	Hexachlorocyclopentadiene	320	< 320 U
88-06-2	2,4,6-Trichlorophenol	320	< 320 U
95-95-4	2,4,5-Trichlorophenol	320	< 320 U
91-58-7	2-Chloronaphthalene	63	< 63 U
88-74-4	2-Nitroaniline	320	< 320 U
131-11-3	Dimethylphthalate	63	< 63 U
208-96-8	Acenaphthylene	63	< 63 U
99-09-2	3-Nitroaniline	320	< 320 U
83-32-9	Acenaphthene	63	< 63 U
51-28-5	2,4-Dinitrophenol	630	< 630 U
100-02-7	4-Nitrophenol	320	< 320 U
132-64-9	Dibenzofuran	63	< 63 U
606-20-2	2,6-Dinitrotoluene	320	< 320 U
121-14-2	2,4-Dinitrotoluene	320	< 320 U
84-66-2	Diethylphthalate	63	< 63 U
7005-72-3	4-Chlorophenyl-phenylether	63	< 63 U
86-73-7	Fluorene	63	< 63 U
100-01-6	4-Nitroaniline	320	< 320 U
534-52-1	4,6-Dinitro-2-Methylphenol	630	< 630 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS

Sample ID: JF-T3B4-SO-03
SAMPLE

Lab Sample ID: SE67I
LIMS ID: 11-789
Matrix: Soil
Date Analyzed: 01/21/11 22:04

QC Report No: SE67-The Boeing Company
Project: Jorgensen Forge PLO
7KPL2JOR

CAS Number	Analyte	RL	Result
86-30-6	N-Nitrosodiphenylamine	63	< 63 U
101-55-3	4-Bromophenyl-phenylether	63	< 63 U
118-74-1	Hexachlorobenzene	63	< 63 U
87-86-5	Pentachlorophenol	320	< 320 U
85-01-8	Phenanthrene	63	< 63 U
86-74-8	Carbazole	63	< 63 U
120-12-7	Anthracene	63	< 63 U
84-74-2	**Di-n-Butylphthalate**	**63**	**380**
206-44-0	Fluoranthene	63	< 63 U
129-00-0	Pyrene	63	< 63 U
85-68-7	Butylbenzylphthalate	63	< 63 U
91-94-1	3,3'-Dichlorobenzidine	320	< 320 U
56-55-3	Benzo(a)anthracene	63	< 63 U
117-81-7	**bis(2-Ethylhexyl)phthalate**	**63**	**590**
218-01-9	**Chrysene**	**63**	**88**
117-84-0	Di-n-Octyl phthalate	63	< 63 U
50-32-8	Benzo(a)pyrene	63	< 63 U
193-39-5	Indeno(1,2,3-cd)pyrene	63	< 63 U
53-70-3	Dibenz(a,h)anthracene	63	< 63 U
191-24-2	Benzo(g,h,i)perylene	63	< 63 U
90-12-0	1-Methylnaphthalene	63	< 63 U
TOTBFA	**Total Benzofluoranthenes**	**63**	**66**

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	66.0%	2-Fluorobiphenyl	78.8%
d14-p-Terphenyl	74.4%	d4-1,2-Dichlorobenzene	64.8%
d5-Phenol	70.7%	2-Fluorophenol	64.3%
2,4,6-Tribromophenol	80.8%	d4-2-Chlorophenol	70.9%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS

Sample ID: JF-T3B4-SO-13
SAMPLE

Lab Sample ID: SE67J
LIMS ID: 11-790
Matrix: Soil
Data Release Authorized:
Reported: 01/25/11

QC Report No: SE67-The Boeing Company
Project: Jorgensen Forge PLO
7KPL2JOR
Date Sampled: 01/13/11
Date Received: 01/13/11

Date Extracted: 01/18/11
Date Analyzed: 01/21/11 22:37
Instrument/Analyst: NT6/JZ
GPC Cleanup: Yes

Sample Amount: 8.25 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 3.00
Percent Moisture: 9.2%

CAS Number	Analyte	RL	Result
108-95-2	Phenol	180	< 180 U
111-44-4	Bis-(2-Chloroethyl) Ether	180	< 180 U
95-57-8	2-Chlorophenol	180	< 180 U
541-73-1	1,3-Dichlorobenzene	180	< 180 U
106-46-7	1,4-Dichlorobenzene	180	< 180 U
100-51-6	Benzyl Alcohol	910	< 910 U
95-50-1	1,2-Dichlorobenzene	180	< 180 U
95-48-7	2-Methylphenol	180	< 180 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	180	< 180 U
106-44-5	4-Methylphenol	180	< 180 U
621-64-7	N-Nitroso-Di-N-Propylamine	180	< 180 U
67-72-1	Hexachloroethane	180	< 180 U
98-95-3	Nitrobenzene	180	< 180 U
78-59-1	Isophorone	180	< 180 U
88-75-5	2-Nitrophenol	180	< 180 U
105-67-9	2,4-Dimethylphenol	180	< 180 U
65-85-0	Benzoic Acid	1,800	< 1,800 U
111-91-1	bis(2-Chloroethoxy) Methane	180	< 180 U
120-83-2	2,4-Dichlorophenol	910	< 910 U
120-82-1	1,2,4-Trichlorobenzene	180	< 180 U
91-20-3	Naphthalene	180	< 180 U
106-47-8	4-Chloroaniline	910	< 910 U
87-68-3	Hexachlorobutadiene	180	< 180 U
59-50-7	4-Chloro-3-methylphenol	910	< 910 U
91-57-6	2-Methylnaphthalene	180	< 180 U
77-47-4	Hexachlorocyclopentadiene	910	< 910 U
88-06-2	2,4,6-Trichlorophenol	910	< 910 U
95-95-4	2,4,5-Trichlorophenol	910	< 910 U
91-58-7	2-Chloronaphthalene	180	< 180 U
88-74-4	2-Nitroaniline	910	< 910 U
131-11-3	Dimethylphthalate	180	< 180 U
208-96-8	Acenaphthylene	180	< 180 U
99-09-2	3-Nitroaniline	910	< 910 U
83-32-9	Acenaphthene	180	< 180 U
51-28-5	2,4-Dinitrophenol	1,800	< 1,800 U
100-02-7	4-Nitrophenol	910	< 910 U
132-64-9	Dibenzofuran	180	< 180 U
606-20-2	2,6-Dinitrotoluene	910	< 910 U
121-14-2	2,4-Dinitrotoluene	910	< 910 U
84-66-2	Diethylphthalate	180	< 180 U
7005-72-3	4-Chlorophenyl-phenylether	180	< 180 U
86-73-7	Fluorene	180	< 180 U
100-01-6	4-Nitroaniline	910	< 910 U
534-52-1	4,6-Dinitro-2-Methylphenol	1,800	< 1,800 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS

Sample ID: JF-T3B4-SO-13
SAMPLE

Lab Sample ID: SE67J
LIMS ID: 11-790
Matrix: Soil
Date Analyzed: 01/21/11 22:37

QC Report No: SE67-The Boeing Company
Project: Jorgensen Forge PLO
7KPL2JOR

CAS Number	Analyte	RL	Result
86-30-6	N-Nitrosodiphenylamine	180	< 180 U
101-55-3	4-Bromophenyl-phenylether	180	< 180 U
118-74-1	Hexachlorobenzene	180	< 180 U
87-86-5	Pentachlorophenol	910	< 910 U
85-01-8	Phenanthrene	180	< 180 U
86-74-8	Carbazole	180	< 180 U
120-12-7	Anthracene	180	< 180 U
84-74-2	Di-n-Butylphthalate	180	< 180 U
206-44-0	Fluoranthene	180	< 180 U
129-00-0	Pyrene	180	< 180 U
85-68-7	Butylbenzylphthalate	180	< 180 U
91-94-1	3,3'-Dichlorobenzidine	910	< 910 U
56-55-3	Benzo(a)anthracene	180	< 180 U
117-81-7	bis(2-Ethylhexyl)phthalate	180	< 180 U
218-01-9	Chrysene	180	< 180 U
117-84-0	Di-n-Octyl phthalate	180	< 180 U
50-32-8	Benzo(a)pyrene	180	< 180 U
193-39-5	Indeno(1,2,3-cd)pyrene	180	< 180 U
53-70-3	Dibenz(a,h)anthracene	180	< 180 U
191-24-2	Benzo(g,h,i)perylene	180	< 180 U
90-12-0	1-Methylnaphthalene	180	< 180 U
TOTBFA	Total Benzofluoranthenes	180	< 180 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	69.2%	2-Fluorobiphenyl	79.1%
d14-p-Terphenyl	73.8%	d4-1,2-Dichlorobenzene	68.5%
d5-Phenol	73.8%	2-Fluorophenol	69.1%
2,4,6-Tribromophenol	72.3%	d4-2-Chlorophenol	74.5%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS

Sample ID: JF-T3B4-SO-23
SAMPLE

Lab Sample ID: SE67K
LIMS ID: 11-791
Matrix: Soil
Data Release Authorized:
Reported: 01/25/11

QC Report No: SE67-The Boeing Company
Project: Jorgensen Forge PLO
7KPL2JOR
Date Sampled: 01/13/11
Date Received: 01/13/11

Date Extracted: 01/18/11
Date Analyzed: 01/21/11 23:10
Instrument/Analyst: NT6/JZ
GPC Cleanup: Yes

Sample Amount: 7.91 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 28.7%

CAS Number	Analyte	RL	Result
108-95-2	Phenol	63	< 63 U
111-44-4	Bis-(2-Chloroethyl) Ether	63	< 63 U
95-57-8	2-Chlorophenol	63	< 63 U
541-73-1	1,3-Dichlorobenzene	63	< 63 U
106-46-7	1,4-Dichlorobenzene	63	< 63 U
100-51-6	Benzyl Alcohol	320	< 320 U
95-50-1	1,2-Dichlorobenzene	63	< 63 U
95-48-7	2-Methylphenol	63	< 63 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	63	< 63 U
106-44-5	4-Methylphenol	63	< 63 U
621-64-7	N-Nitroso-Di-N-Propylamine	63	< 63 U
67-72-1	Hexachloroethane	63	< 63 U
98-95-3	Nitrobenzene	63	< 63 U
78-59-1	Isophorone	63	< 63 U
88-75-5	2-Nitrophenol	63	< 63 U
105-67-9	2,4-Dimethylphenol	63	< 63 U
65-85-0	Benzoic Acid	630	< 630 U
111-91-1	bis(2-Chloroethoxy) Methane	63	< 63 U
120-83-2	2,4-Dichlorophenol	320	< 320 U
120-82-1	1,2,4-Trichlorobenzene	63	< 63 U
91-20-3	Naphthalene	63	< 63 U
106-47-8	4-Chloroaniline	320	< 320 U
87-68-3	Hexachlorobutadiene	63	< 63 U
59-50-7	4-Chloro-3-methylphenol	320	< 320 U
91-57-6	2-Methylnaphthalene	63	< 63 U
77-47-4	Hexachlorocyclopentadiene	320	< 320 U
88-06-2	2,4,6-Trichlorophenol	320	< 320 U
95-95-4	2,4,5-Trichlorophenol	320	< 320 U
91-58-7	2-Chloronaphthalene	63	< 63 U
88-74-4	2-Nitroaniline	320	< 320 U
131-11-3	Dimethylphthalate	63	< 63 U
208-96-8	Acenaphthylene	63	< 63 U
99-09-2	3-Nitroaniline	320	< 320 U
83-32-9	Acenaphthene	63	< 63 U
51-28-5	2,4-Dinitrophenol	630	< 630 U
100-02-7	4-Nitrophenol	320	< 320 U
132-64-9	Dibenzofuran	63	< 63 U
606-20-2	2,6-Dinitrotoluene	320	< 320 U
121-14-2	2,4-Dinitrotoluene	320	< 320 U
84-66-2	Diethylphthalate	63	< 63 U
7005-72-3	4-Chlorophenyl-phenylether	63	< 63 U
86-73-7	Fluorene	63	< 63 U
100-01-6	4-Nitroaniline	320	< 320 U
534-52-1	4,6-Dinitro-2-Methylphenol	630	< 630 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS

Sample ID: JF-T3B4-SO-23
SAMPLE

Lab Sample ID: SE67K
LIMS ID: 11-791
Matrix: Soil
Date Analyzed: 01/21/11 23:10

QC Report No: SE67-The Boeing Company
Project: Jorgensen Forge PLO
7KPL2JOR

CAS Number	Analyte	RL	Result
86-30-6	N-Nitrosodiphenylamine	63	< 63 U
101-55-3	4-Bromophenyl-phenylether	63	< 63 U
118-74-1	Hexachlorobenzene	63	< 63 U
87-86-5	Pentachlorophenol	320	< 320 U
85-01-8	Phenanthrene	63	< 63 U
86-74-8	Carbazole	63	< 63 U
120-12-7	Anthracene	63	< 63 U
84-74-2	Di-n-Butylphthalate	63	< 63 U
206-44-0	Fluoranthene	63	< 63 U
129-00-0	Pyrene	63	< 63 U
85-68-7	Butylbenzylphthalate	63	< 63 U
91-94-1	3,3'-Dichlorobenzidine	320	< 320 U
56-55-3	Benzo(a)anthracene	63	< 63 U
117-81-7	bis(2-Ethylhexyl)phthalate	63	< 63 U
218-01-9	Chrysene	63	< 63 U
117-84-0	Di-n-Octyl phthalate	63	< 63 U
50-32-8	Benzo(a)pyrene	63	< 63 U
193-39-5	Indeno(1,2,3-cd)pyrene	63	< 63 U
53-70-3	Dibenz(a,h)anthracene	63	< 63 U
191-24-2	Benzo(g,h,i)perylene	63	< 63 U
90-12-0	1-Methylnaphthalene	63	< 63 U
TOTBFA	Total Benzofluoranthenes	63	< 63 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	70.0%	2-Fluorobiphenyl	80.0%
d14-p-Terphenyl	77.2%	d4-1,2-Dichlorobenzene	72.8%
d5-Phenol	72.5%	2-Fluorophenol	66.4%
2,4,6-Tribromophenol	76.8%	d4-2-Chlorophenol	73.9%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS

Sample ID: JF-T3B3-SO-03
SAMPLE

Lab Sample ID: SE67L
LIMS ID: 11-792
Matrix: Soil
Data Release Authorized:
Reported: 01/25/11

QC Report No: SE67-The Boeing Company
Project: Jorgensen Forge PLO
7KPL2JOR
Date Sampled: 01/13/11
Date Received: 01/13/11

Date Extracted: 01/18/11
Date Analyzed: 01/21/11 23:43
Instrument/Analyst: NT6/JZ
GPC Cleanup: Yes

Sample Amount: 7.82 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 14.0%

CAS Number	Analyte	RL	Result
108-95-2	Phenol	64	< 64 U
111-44-4	Bis-(2-Chloroethyl) Ether	64	< 64 U
95-57-8	2-Chlorophenol	64	< 64 U
541-73-1	1,3-Dichlorobenzene	64	< 64 U
106-46-7	1,4-Dichlorobenzene	64	< 64 U
100-51-6	Benzyl Alcohol	320	< 320 U
95-50-1	1,2-Dichlorobenzene	64	< 64 U
95-48-7	2-Methylphenol	64	< 64 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	64	< 64 U
106-44-5	4-Methylphenol	64	< 64 U
621-64-7	N-Nitroso-Di-N-Propylamine	64	< 64 U
67-72-1	Hexachloroethane	64	< 64 U
98-95-3	Nitrobenzene	64	< 64 U
78-59-1	Isophorone	64	< 64 U
88-75-5	2-Nitrophenol	64	< 64 U
105-67-9	2,4-Dimethylphenol	64	< 64 U
65-85-0	Benzoic Acid	640	< 640 U
111-91-1	bis(2-Chloroethoxy) Methane	64	< 64 U
120-83-2	2,4-Dichlorophenol	320	< 320 U
120-82-1	1,2,4-Trichlorobenzene	64	< 64 U
91-20-3	Naphthalene	64	< 64 U
106-47-8	4-Chloroaniline	320	< 320 U
87-68-3	Hexachlorobutadiene	64	< 64 U
59-50-7	4-Chloro-3-methylphenol	320	< 320 U
91-57-6	2-Methylnaphthalene	64	< 64 U
77-47-4	Hexachlorocyclopentadiene	320	< 320 U
88-06-2	2,4,6-Trichlorophenol	320	< 320 U
95-95-4	2,4,5-Trichlorophenol	320	< 320 U
91-58-7	2-Chloronaphthalene	64	< 64 U
88-74-4	2-Nitroaniline	320	< 320 U
131-11-3	Dimethylphthalate	64	< 64 U
208-96-8	Acenaphthylene	64	< 64 U
99-09-2	3-Nitroaniline	320	< 320 U
83-32-9	Acenaphthene	64	< 64 U
51-28-5	2,4-Dinitrophenol	640	< 640 U
100-02-7	4-Nitrophenol	320	< 320 U
132-64-9	Dibenzofuran	64	< 64 U
606-20-2	2,6-Dinitrotoluene	320	< 320 U
121-14-2	2,4-Dinitrotoluene	320	< 320 U
84-66-2	Diethylphthalate	64	< 64 U
7005-72-3	4-Chlorophenyl-phenylether	64	< 64 U
86-73-7	Fluorene	64	< 64 U
100-01-6	4-Nitroaniline	320	< 320 U
534-52-1	4,6-Dinitro-2-Methylphenol	640	< 640 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS

Sample ID: JF-T3B3-SO-03
SAMPLE

Lab Sample ID: SE67L
LIMS ID: 11-792
Matrix: Soil
Date Analyzed: 01/21/11 23:43

QC Report No: SE67-The Boeing Company
Project: Jorgensen Forge PLO
7KPL2JOR

CAS Number	Analyte	RL	Result
86-30-6	N-Nitrosodiphenylamine	64	< 64 U
101-55-3	4-Bromophenyl-phenylether	64	< 64 U
118-74-1	Hexachlorobenzene	64	< 64 U
87-86-5	Pentachlorophenol	320	< 320 U
85-01-8	Phenanthrene	64	< 64 U
86-74-8	Carbazole	64	< 64 U
120-12-7	Anthracene	64	< 64 U
84-74-2	**Di-n-Butylphthalate**	**64**	**120**
206-44-0	Fluoranthene	64	< 64 U
129-00-0	Pyrene	64	< 64 U
85-68-7	Butylbenzylphthalate	64	< 64 U
91-94-1	3,3'-Dichlorobenzidine	320	< 320 U
56-55-3	Benzo(a)anthracene	64	< 64 U
117-81-7	bis(2-Ethylhexyl)phthalate	64	< 64 U
218-01-9	Chrysene	64	< 64 U
117-84-0	Di-n-Octyl phthalate	64	< 64 U
50-32-8	Benzo(a)pyrene	64	< 64 U
193-39-5	Indeno(1,2,3-cd)pyrene	64	< 64 U
53-70-3	Dibenz(a,h)anthracene	64	< 64 U
191-24-2	Benzo(g,h,i)perylene	64	< 64 U
90-12-0	1-Methylnaphthalene	64	< 64 U
TOTBFA	Total Benzofluoranthenes	64	< 64 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	66.0%	2-Fluorobiphenyl	79.6%
d14-p-Terphenyl	76.0%	d4-1,2-Dichlorobenzene	68.4%
d5-Phenol	69.1%	2-Fluorophenol	59.2%
2,4,6-Tribromophenol	76.0%	d4-2-Chlorophenol	69.3%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS

Sample ID: JF-T3B3-SO-03
MATRIX SPIKE

Lab Sample ID: SE67L
LIMS ID: 11-792
Matrix: Soil
Data Release Authorized:
Reported: 01/25/11

QC Report No: SE67-The Boeing Company
Project: Jorgensen Forge PLO
7KPL2JOR
Date Sampled: 01/13/11
Date Received: 01/13/11

Date Extracted: 01/18/11
Date Analyzed: 01/22/11 00:15
Instrument/Analyst: NT6/JZ
GPC Cleanup: Yes

Sample Amount: 7.77 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 14.0%

CAS Number	Analyte	RL	Result
108-95-2	Phenol	64	---
111-44-4	Bis-(2-Chloroethyl) Ether	64	---
95-57-8	2-Chlorophenol	64	---
541-73-1	1,3-Dichlorobenzene	64	---
106-46-7	1,4-Dichlorobenzene	64	---
100-51-6	Benzyl Alcohol	320	---
95-50-1	1,2-Dichlorobenzene	64	---
95-48-7	2-Methylphenol	64	---
108-60-1	2,2'-Oxybis(1-Chloropropane)	64	---
106-44-5	4-Methylphenol	64	---
621-64-7	N-Nitroso-Di-N-Propylamine	64	---
67-72-1	Hexachloroethane	64	---
98-95-3	Nitrobenzene	64	---
78-59-1	Isophorone	64	---
88-75-5	2-Nitrophenol	64	---
105-67-9	2,4-Dimethylphenol	64	---
65-85-0	Benzoic Acid	640	---
111-91-1	bis(2-Chloroethoxy) Methane	64	---
120-83-2	2,4-Dichlorophenol	320	---
120-82-1	1,2,4-Trichlorobenzene	64	---
91-20-3	Naphthalene	64	---
106-47-8	4-Chloroaniline	320	---
87-68-3	Hexachlorobutadiene	64	---
59-50-7	4-Chloro-3-methylphenol	320	---
91-57-6	2-Methylnaphthalene	64	---
77-47-4	Hexachlorocyclopentadiene	320	---
88-06-2	2,4,6-Trichlorophenol	320	---
95-95-4	2,4,5-Trichlorophenol	320	---
91-58-7	2-Chloronaphthalene	64	---
88-74-4	2-Nitroaniline	320	---
131-11-3	Dimethylphthalate	64	---
208-96-8	Acenaphthylene	64	---
99-09-2	3-Nitroaniline	320	---
83-32-9	Acenaphthene	64	---
51-28-5	2,4-Dinitrophenol	640	---
100-02-7	4-Nitrophenol	320	---
132-64-9	Dibenzofuran	64	---
606-20-2	2,6-Dinitrotoluene	320	---
121-14-2	2,4-Dinitrotoluene	320	---
84-66-2	Diethylphthalate	64	---
7005-72-3	4-Chlorophenyl-phenylether	64	---
86-73-7	Fluorene	64	---
100-01-6	4-Nitroaniline	320	---
534-52-1	4,6-Dinitro-2-Methylphenol	640	---

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS

Sample ID: JF-T3B3-SO-03
MATRIX SPIKE

Lab Sample ID: SE67L
LIMS ID: 11-792
Matrix: Soil
Date Analyzed: 01/22/11 00:15

QC Report No: SE67-The Boeing Company
Project: Jorgensen Forge PLO
7KPL2JOR

CAS Number	Analyte	RL	Result
86-30-6	N-Nitrosodiphenylamine	64	---
101-55-3	4-Bromophenyl-phenylether	64	---
118-74-1	Hexachlorobenzene	64	---
87-86-5	Pentachlorophenol	320	---
85-01-8	Phenanthrene	64	---
86-74-8	Carbazole	64	---
120-12-7	Anthracene	64	---
84-74-2	Di-n-Butylphthalate	64	---
206-44-0	Fluoranthene	64	---
129-00-0	Pyrene	64	---
85-68-7	Butylbenzylphthalate	64	---
91-94-1	3,3'-Dichlorobenzidine	320	---
56-55-3	Benzo(a)anthracene	64	---
117-81-7	bis(2-Ethylhexyl)phthalate	64	---
218-01-9	Chrysene	64	---
117-84-0	Di-n-Octyl phthalate	64	---
50-32-8	Benzo(a)pyrene	64	---
193-39-5	Indeno(1,2,3-cd)pyrene	64	---
53-70-3	Dibenz(a,h)anthracene	64	---
191-24-2	Benzo(g,h,i)perylene	64	---
90-12-0	1-Methylnaphthalene	64	---
TOTBFA	Total Benzofluoranthenes	64	---

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	68.8%	2-Fluorobiphenyl	80.4%
d14-p-Terphenyl	74.4%	d4-1,2-Dichlorobenzene	70.0%
d5-Phenol	73.3%	2-Fluorophenol	68.8%
2,4,6-Tribromophenol	87.7%	d4-2-Chlorophenol	73.3%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS

Sample ID: JF-T3B3-SO-03
MATRIX SPIKE DUPLICATE

Lab Sample ID: SE67L
LIMS ID: 11-792
Matrix: Soil
Data Release Authorized:
Reported: 01/25/11

QC Report No: SE67-The Boeing Company
Project: Jorgensen Forge PLO
7KPL2JOR
Date Sampled: 01/13/11
Date Received: 01/13/11

Date Extracted: 01/18/11
Date Analyzed: 01/22/11 00:48
Instrument/Analyst: NT6/JZ
GPC Cleanup: Yes

Sample Amount: 7.80 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 14.0%

CAS Number	Analyte	RL	Result
108-95-2	Phenol	64	---
111-44-4	Bis-(2-Chloroethyl) Ether	64	---
95-57-8	2-Chlorophenol	64	---
541-73-1	1,3-Dichlorobenzene	64	---
106-46-7	1,4-Dichlorobenzene	64	---
100-51-6	Benzyl Alcohol	320	---
95-50-1	1,2-Dichlorobenzene	64	---
95-48-7	2-Methylphenol	64	---
108-60-1	2,2'-Oxybis(1-Chloropropane)	64	---
106-44-5	4-Methylphenol	64	---
621-64-7	N-Nitroso-Di-N-Propylamine	64	---
67-72-1	Hexachloroethane	64	---
98-95-3	Nitrobenzene	64	---
78-59-1	Isophorone	64	---
88-75-5	2-Nitrophenol	64	---
105-67-9	2,4-Dimethylphenol	64	---
65-85-0	Benzoic Acid	640	---
111-91-1	bis(2-Chloroethoxy) Methane	64	---
120-83-2	2,4-Dichlorophenol	320	---
120-82-1	1,2,4-Trichlorobenzene	64	---
91-20-3	Naphthalene	64	---
106-47-8	4-Chloroaniline	320	---
87-68-3	Hexachlorobutadiene	64	---
59-50-7	4-Chloro-3-methylphenol	320	---
91-57-6	2-Methylnaphthalene	64	---
77-47-4	Hexachlorocyclopentadiene	320	---
88-06-2	2,4,6-Trichlorophenol	320	---
95-95-4	2,4,5-Trichlorophenol	320	---
91-58-7	2-Chloronaphthalene	64	---
88-74-4	2-Nitroaniline	320	---
131-11-3	Dimethylphthalate	64	---
208-96-8	Acenaphthylene	64	---
99-09-2	3-Nitroaniline	320	---
83-32-9	Acenaphthene	64	---
51-28-5	2,4-Dinitrophenol	640	---
100-02-7	4-Nitrophenol	320	---
132-64-9	Dibenzofuran	64	---
606-20-2	2,6-Dinitrotoluene	320	---
121-14-2	2,4-Dinitrotoluene	320	---
84-66-2	Diethylphthalate	64	---
7005-72-3	4-Chlorophenyl-phenylether	64	---
86-73-7	Fluorene	64	---
100-01-6	4-Nitroaniline	320	---
534-52-1	4,6-Dinitro-2-Methylphenol	640	---

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS

Sample ID: JF-T3B3-SO-03
MATRIX SPIKE DUPLICATE

Lab Sample ID: SE67L
LIMS ID: 11-792
Matrix: Soil
Date Analyzed: 01/22/11 00:48

QC Report No: SE67-The Boeing Company
Project: Jorgensen Forge PLO
7KPL2JOR

CAS Number	Analyte	RL	Result
86-30-6	N-Nitrosodiphenylamine	64	---
101-55-3	4-Bromophenyl-phenylether	64	---
118-74-1	Hexachlorobenzene	64	---
87-86-5	Pentachlorophenol	320	---
85-01-8	Phenanthrene	64	---
86-74-8	Carbazole	64	---
120-12-7	Anthracene	64	---
84-74-2	Di-n-Butylphthalate	64	---
206-44-0	Fluoranthene	64	---
129-00-0	Pyrene	64	---
85-68-7	Butylbenzylphthalate	64	---
91-94-1	3,3'-Dichlorobenzidine	320	---
56-55-3	Benzo(a)anthracene	64	---
117-81-7	bis(2-Ethylhexyl)phthalate	64	---
218-01-9	Chrysene	64	---
117-84-0	Di-n-Octyl phthalate	64	---
50-32-8	Benzo(a)pyrene	64	---
193-39-5	Indeno(1,2,3-cd)pyrene	64	---
53-70-3	Dibenz(a,h)anthracene	64	---
191-24-2	Benzo(g,h,i)perylene	64	---
90-12-0	1-Methylnaphthalene	64	---
TOTBFA	Total Benzofluoranthenes	64	---

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	64.0%	2-Fluorobiphenyl	75.2%
d14-p-Terphenyl	71.2%	d4-1,2-Dichlorobenzene	65.2%
d5-Phenol	68.8%	2-Fluorophenol	64.8%
2,4,6-Tribromophenol	84.0%	d4-2-Chlorophenol	69.6%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS

Sample ID: JF-T3B3-SO-08
SAMPLE

Lab Sample ID: SE67M
LIMS ID: 11-793
Matrix: Soil
Data Release Authorized:
Reported: 01/25/11

QC Report No: SE67-The Boeing Company
Project: Jorgensen Forge PLO
7KPL2JOR
Date Sampled: 01/13/11
Date Received: 01/13/11

Date Extracted: 01/18/11
Date Analyzed: 01/22/11 01:21
Instrument/Analyst: NT6/JZ
GPC Cleanup: Yes

Sample Amount: 7.96 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 20.6%

CAS Number	Analyte	RL	Result
108-95-2	Phenol	63	< 63 U
111-44-4	Bis-(2-Chloroethyl) Ether	63	< 63 U
95-57-8	2-Chlorophenol	63	< 63 U
541-73-1	1,3-Dichlorobenzene	63	< 63 U
106-46-7	1,4-Dichlorobenzene	63	< 63 U
100-51-6	Benzyl Alcohol	310	< 310 U
95-50-1	1,2-Dichlorobenzene	63	< 63 U
95-48-7	2-Methylphenol	63	< 63 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	63	< 63 U
106-44-5	4-Methylphenol	63	< 63 U
621-64-7	N-Nitroso-Di-N-Propylamine	63	< 63 U
67-72-1	Hexachloroethane	63	< 63 U
98-95-3	Nitrobenzene	63	< 63 U
78-59-1	Isophorone	63	< 63 U
88-75-5	2-Nitrophenol	63	< 63 U
105-67-9	2,4-Dimethylphenol	63	< 63 U
65-85-0	Benzoic Acid	630	< 630 U
111-91-1	bis(2-Chloroethoxy) Methane	63	< 63 U
120-83-2	2,4-Dichlorophenol	310	< 310 U
120-82-1	1,2,4-Trichlorobenzene	63	< 63 U
91-20-3	Naphthalene	63	< 63 U
106-47-8	4-Chloroaniline	310	< 310 U
87-68-3	Hexachlorobutadiene	63	< 63 U
59-50-7	4-Chloro-3-methylphenol	310	< 310 U
91-57-6	2-Methylnaphthalene	63	< 63 U
77-47-4	Hexachlorocyclopentadiene	310	< 310 U
88-06-2	2,4,6-Trichlorophenol	310	< 310 U
95-95-4	2,4,5-Trichlorophenol	310	< 310 U
91-58-7	2-Chloronaphthalene	63	< 63 U
88-74-4	2-Nitroaniline	310	< 310 U
131-11-3	Dimethylphthalate	63	< 63 U
208-96-8	Acenaphthylene	63	< 63 U
99-09-2	3-Nitroaniline	310	< 310 U
83-32-9	Acenaphthene	63	< 63 U
51-28-5	2,4-Dinitrophenol	630	< 630 U
100-02-7	4-Nitrophenol	310	< 310 U
132-64-9	Dibenzofuran	63	< 63 U
606-20-2	2,6-Dinitrotoluene	310	< 310 U
121-14-2	2,4-Dinitrotoluene	310	< 310 U
84-66-2	Diethylphthalate	63	< 63 U
7005-72-3	4-Chlorophenyl-phenylether	63	< 63 U
86-73-7	Fluorene	63	< 63 U
100-01-6	4-Nitroaniline	310	< 310 U
534-52-1	4,6-Dinitro-2-Methylphenol	630	< 630 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS

Sample ID: JF-T3B3-SO-08
SAMPLE

Lab Sample ID: SE67M
LIMS ID: 11-793
Matrix: Soil
Date Analyzed: 01/22/11 01:21

QC Report No: SE67-The Boeing Company
Project: Jorgensen Forge PLO
7KPL2JOR

CAS Number	Analyte	RL	Result
86-30-6	N-Nitrosodiphenylamine	63	< 63 U
101-55-3	4-Bromophenyl-phenylether	63	< 63 U
118-74-1	Hexachlorobenzene	63	< 63 U
87-86-5	Pentachlorophenol	310	< 310 U
85-01-8	**Phenanthrene**	**63**	**91**
86-74-8	Carbazole	63	< 63 U
120-12-7	Anthracene	63	< 63 U
84-74-2	**Di-n-Butylphthalate**	**63**	**790**
206-44-0	Fluoranthene	63	< 63 U
129-00-0	Pyrene	63	< 63 U
85-68-7	Butylbenzylphthalate	63	< 63 U
91-94-1	3,3'-Dichlorobenzidine	310	< 310 U
56-55-3	Benzo(a)anthracene	63	< 63 U
117-81-7	bis(2-Ethylhexyl)phthalate	63	< 63 U
218-01-9	Chrysene	63	< 63 U
117-84-0	Di-n-Octyl phthalate	63	< 63 U
50-32-8	Benzo(a)pyrene	63	< 63 U
193-39-5	Indeno(1,2,3-cd)pyrene	63	< 63 U
53-70-3	Dibenz(a,h)anthracene	63	< 63 U
191-24-2	Benzo(g,h,i)perylene	63	< 63 U
90-12-0	1-Methylnaphthalene	63	< 63 U
TOTBFA	Total Benzofluoranthenes	63	< 63 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	59.6%	2-Fluorobiphenyl	74.4%
d14-p-Terphenyl	69.2%	d4-1,2-Dichlorobenzene	61.2%
d5-Phenol	64.3%	2-Fluorophenol	58.4%
2,4,6-Tribromophenol	76.0%	d4-2-Chlorophenol	64.3%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS

Sample ID: JF-T3B3-SO-13
SAMPLE

Lab Sample ID: SE67N
LIMS ID: 11-794
Matrix: Soil
Data Release Authorized:
Reported: 01/25/11

QC Report No: SE67-The Boeing Company
Project: Jorgensen Forge PLO
7KPL2JOR
Date Sampled: 01/13/11
Date Received: 01/13/11

Date Extracted: 01/18/11
Date Analyzed: 01/22/11 01:54
Instrument/Analyst: NT6/JZ
GPC Cleanup: Yes

Sample Amount: 8.12 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 27.0%

CAS Number	Analyte	RL	Result
108-95-2	Phenol	62	< 62 U
111-44-4	Bis-(2-Chloroethyl) Ether	62	< 62 U
95-57-8	2-Chlorophenol	62	< 62 U
541-73-1	1,3-Dichlorobenzene	62	< 62 U
106-46-7	1,4-Dichlorobenzene	62	< 62 U
100-51-6	Benzyl Alcohol	310	< 310 U
95-50-1	1,2-Dichlorobenzene	62	< 62 U
95-48-7	2-Methylphenol	62	< 62 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	62	< 62 U
106-44-5	4-Methylphenol	62	< 62 U
621-64-7	N-Nitroso-Di-N-Propylamine	62	< 62 U
67-72-1	Hexachloroethane	62	< 62 U
98-95-3	Nitrobenzene	62	< 62 U
78-59-1	Isophorone	62	< 62 U
88-75-5	2-Nitrophenol	62	< 62 U
105-67-9	2,4-Dimethylphenol	62	< 62 U
65-85-0	Benzoic Acid	620	< 620 U
111-91-1	bis(2-Chloroethoxy) Methane	62	< 62 U
120-83-2	2,4-Dichlorophenol	310	< 310 U
120-82-1	1,2,4-Trichlorobenzene	62	< 62 U
91-20-3	Naphthalene	62	< 62 U
106-47-8	4-Chloroaniline	310	< 310 U
87-68-3	Hexachlorobutadiene	62	< 62 U
59-50-7	4-Chloro-3-methylphenol	310	< 310 U
91-57-6	2-Methylnaphthalene	62	< 62 U
77-47-4	Hexachlorocyclopentadiene	310	< 310 U
88-06-2	2,4,6-Trichlorophenol	310	< 310 U
95-95-4	2,4,5-Trichlorophenol	310	< 310 U
91-58-7	2-Chloronaphthalene	62	< 62 U
88-74-4	2-Nitroaniline	310	< 310 U
131-11-3	Dimethylphthalate	62	< 62 U
208-96-8	Acenaphthylene	62	< 62 U
99-09-2	3-Nitroaniline	310	< 310 U
83-32-9	Acenaphthene	62	< 62 U
51-28-5	2,4-Dinitrophenol	620	< 620 U
100-02-7	4-Nitrophenol	310	< 310 U
132-64-9	Dibenzofuran	62	< 62 U
606-20-2	2,6-Dinitrotoluene	310	< 310 U
121-14-2	2,4-Dinitrotoluene	310	< 310 U
84-66-2	Diethylphthalate	62	< 62 U
7005-72-3	4-Chlorophenyl-phenylether	62	< 62 U
86-73-7	Fluorene	62	< 62 U
100-01-6	4-Nitroaniline	310	< 310 U
534-52-1	4,6-Dinitro-2-Methylphenol	620	< 620 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS

Sample ID: JF-T3B3-SO-13
SAMPLE

Lab Sample ID: SE67N
LIMS ID: 11-794
Matrix: Soil
Date Analyzed: 01/22/11 01:54

QC Report No: SE67-The Boeing Company
Project: Jorgensen Forge PLO
7KPL2JOR

CAS Number	Analyte	RL	Result
86-30-6	N-Nitrosodiphenylamine	62	< 62 U
101-55-3	4-Bromophenyl-phenylether	62	< 62 U
118-74-1	Hexachlorobenzene	62	< 62 U
87-86-5	Pentachlorophenol	310	< 310 U
85-01-8	Phenanthrene	62	< 62 U
86-74-8	Carbazole	62	< 62 U
120-12-7	Anthracene	62	< 62 U
84-74-2	Di-n-Butylphthalate	62	< 62 U
206-44-0	Fluoranthene	62	< 62 U
129-00-0	Pyrene	62	< 62 U
85-68-7	Butylbenzylphthalate	62	< 62 U
91-94-1	3,3'-Dichlorobenzidine	310	< 310 U
56-55-3	Benzo(a)anthracene	62	< 62 U
117-81-7	bis(2-Ethylhexyl)phthalate	62	< 62 U
218-01-9	Chrysene	62	< 62 U
117-84-0	Di-n-Octyl phthalate	62	< 62 U
50-32-8	Benzo(a)pyrene	62	< 62 U
193-39-5	Indeno(1,2,3-cd)pyrene	62	< 62 U
53-70-3	Dibenz(a,h)anthracene	62	< 62 U
191-24-2	Benzo(g,h,i)perylene	62	< 62 U
90-12-0	1-Methylnaphthalene	62	< 62 U
TOTBFA	Total Benzofluoranthenes	62	< 62 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	56.0%	2-Fluorobiphenyl	67.2%
d14-p-Terphenyl	68.0%	d4-1,2-Dichlorobenzene	57.2%
d5-Phenol	58.7%	2-Fluorophenol	54.7%
2,4,6-Tribromophenol	68.5%	d4-2-Chlorophenol	59.2%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS

Sample ID: JF-T3B2-SO-03
SAMPLE

Lab Sample ID: SE67O
LIMS ID: 11-795
Matrix: Soil
Data Release Authorized:
Reported: 01/25/11

QC Report No: SE67-The Boeing Company
Project: Jorgensen Forge PLO
7KPL2JOR
Date Sampled: 01/13/11
Date Received: 01/13/11

Date Extracted: 01/18/11
Date Analyzed: 01/22/11 02:26
Instrument/Analyst: NT6/JZ
GPC Cleanup: Yes

Sample Amount: 8.31 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 8.4%

CAS Number	Analyte	RL	Result
108-95-2	Phenol	60	< 60 U
111-44-4	Bis-(2-Chloroethyl) Ether	60	< 60 U
95-57-8	2-Chlorophenol	60	< 60 U
541-73-1	1,3-Dichlorobenzene	60	< 60 U
106-46-7	1,4-Dichlorobenzene	60	< 60 U
100-51-6	Benzyl Alcohol	300	< 300 U
95-50-1	1,2-Dichlorobenzene	60	< 60 U
95-48-7	2-Methylphenol	60	< 60 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	60	< 60 U
106-44-5	4-Methylphenol	60	< 60 U
621-64-7	N-Nitroso-Di-N-Propylamine	60	< 60 U
67-72-1	Hexachloroethane	60	< 60 U
98-95-3	Nitrobenzene	60	< 60 U
78-59-1	Isophorone	60	< 60 U
88-75-5	2-Nitrophenol	60	< 60 U
105-67-9	2,4-Dimethylphenol	60	< 60 U
65-85-0	Benzoic Acid	600	< 600 U
111-91-1	bis(2-Chloroethoxy) Methane	60	< 60 U
120-83-2	2,4-Dichlorophenol	300	< 300 U
120-82-1	1,2,4-Trichlorobenzene	60	< 60 U
91-20-3	Naphthalene	60	< 60 U
106-47-8	4-Chloroaniline	300	< 300 U
87-68-3	Hexachlorobutadiene	60	< 60 U
59-50-7	4-Chloro-3-methylphenol	300	< 300 U
91-57-6	2-Methylnaphthalene	60	< 60 U
77-47-4	Hexachlorocyclopentadiene	300	< 300 U
88-06-2	2,4,6-Trichlorophenol	300	< 300 U
95-95-4	2,4,5-Trichlorophenol	300	< 300 U
91-58-7	2-Chloronaphthalene	60	< 60 U
88-74-4	2-Nitroaniline	300	< 300 U
131-11-3	Dimethylphthalate	60	< 60 U
208-96-8	Acenaphthylene	60	< 60 U
99-09-2	3-Nitroaniline	300	< 300 U
83-32-9	Acenaphthene	60	< 60 U
51-28-5	2,4-Dinitrophenol	600	< 600 U
100-02-7	4-Nitrophenol	300	< 300 U
132-64-9	Dibenzofuran	60	< 60 U
606-20-2	2,6-Dinitrotoluene	300	< 300 U
121-14-2	2,4-Dinitrotoluene	300	< 300 U
84-66-2	Diethylphthalate	60	< 60 U
7005-72-3	4-Chlorophenyl-phenylether	60	< 60 U
86-73-7	Fluorene	60	< 60 U
100-01-6	4-Nitroaniline	300	< 300 U
534-52-1	4,6-Dinitro-2-Methylphenol	600	< 600 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS

Sample ID: JF-T3B2-SO-03
SAMPLE

Lab Sample ID: SE67O
LIMS ID: 11-795
Matrix: Soil
Date Analyzed: 01/22/11 02:26

QC Report No: SE67-The Boeing Company
Project: Jorgensen Forge PLO
7KPL2JOR

CAS Number	Analyte	RL	Result
86-30-6	N-Nitrosodiphenylamine	60	< 60 U
101-55-3	4-Bromophenyl-phenylether	60	< 60 U
118-74-1	Hexachlorobenzene	60	< 60 U
87-86-5	Pentachlorophenol	300	< 300 U
85-01-8	Phenanthrene	60	< 60 U
86-74-8	Carbazole	60	< 60 U
120-12-7	Anthracene	60	< 60 U
84-74-2	Di-n-Butylphthalate	60	< 60 U
206-44-0	Fluoranthene	60	< 60 U
129-00-0	Pyrene	60	< 60 U
85-68-7	Butylbenzylphthalate	60	< 60 U
91-94-1	3,3'-Dichlorobenzidine	300	< 300 U
56-55-3	Benzo(a)anthracene	60	< 60 U
117-81-7	bis(2-Ethylhexyl)phthalate	60	< 60 U
218-01-9	Chrysene	60	< 60 U
117-84-0	Di-n-Octyl phthalate	60	< 60 U
50-32-8	Benzo(a)pyrene	60	< 60 U
193-39-5	Indeno(1,2,3-cd)pyrene	60	< 60 U
53-70-3	Dibenz(a,h)anthracene	60	< 60 U
191-24-2	Benzo(g,h,i)perylene	60	< 60 U
90-12-0	1-Methylnaphthalene	60	< 60 U
TOTBFA	Total Benzofluoranthenes	60	< 60 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	59.2%	2-Fluorobiphenyl	70.4%
d14-p-Terphenyl	70.8%	d4-1,2-Dichlorobenzene	62.0%
d5-Phenol	58.4%	2-Fluorophenol	49.6%
2,4,6-Tribromophenol	62.7%	d4-2-Chlorophenol	60.3%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS

Sample ID: MB-011811
METHOD BLANK

Lab Sample ID: MB-011811
LIMS ID: 11-792
Matrix: Soil
Data Release Authorized:
Reported: 01/25/11

QC Report No: SE67-The Boeing Company
Project: Jorgensen Forge PLO
7KPL2JOR
Date Sampled: NA
Date Received: NA

Date Extracted: 01/18/11
Date Analyzed: 01/21/11 15:31
Instrument/Analyst: NT6/JZ
GPC Cleanup: Yes

Sample Amount: 7.50 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: NA

CAS Number	Analyte	RL	Result
108-95-2	Phenol	67	< 67 U
111-44-4	Bis-(2-Chloroethyl) Ether	67	< 67 U
95-57-8	2-Chlorophenol	67	< 67 U
541-73-1	1,3-Dichlorobenzene	67	< 67 U
106-46-7	1,4-Dichlorobenzene	67	< 67 U
100-51-6	Benzyl Alcohol	330	< 330 U
95-50-1	1,2-Dichlorobenzene	67	< 67 U
95-48-7	2-Methylphenol	67	< 67 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	67	< 67 U
106-44-5	4-Methylphenol	67	< 67 U
621-64-7	N-Nitroso-Di-N-Propylamine	67	< 67 U
67-72-1	Hexachloroethane	67	< 67 U
98-95-3	Nitrobenzene	67	< 67 U
78-59-1	Isophorone	67	< 67 U
88-75-5	2-Nitrophenol	67	< 67 U
105-67-9	2,4-Dimethylphenol	67	< 67 U
65-85-0	Benzoic Acid	670	< 670 U
111-91-1	bis(2-Chloroethoxy) Methane	67	< 67 U
120-83-2	2,4-Dichlorophenol	330	< 330 U
120-82-1	1,2,4-Trichlorobenzene	67	< 67 U
91-20-3	Naphthalene	67	< 67 U
106-47-8	4-Chloroaniline	330	< 330 U
87-68-3	Hexachlorobutadiene	67	< 67 U
59-50-7	4-Chloro-3-methylphenol	330	< 330 U
91-57-6	2-Methylnaphthalene	67	< 67 U
77-47-4	Hexachlorocyclopentadiene	330	< 330 U
88-06-2	2,4,6-Trichlorophenol	330	< 330 U
95-95-4	2,4,5-Trichlorophenol	330	< 330 U
91-58-7	2-Chloronaphthalene	67	< 67 U
88-74-4	2-Nitroaniline	330	< 330 U
131-11-3	Dimethylphthalate	67	< 67 U
208-96-8	Acenaphthylene	67	< 67 U
99-09-2	3-Nitroaniline	330	< 330 U
83-32-9	Acenaphthene	67	< 67 U
51-28-5	2,4-Dinitrophenol	670	< 670 U
100-02-7	4-Nitrophenol	330	< 330 U
132-64-9	Dibenzofuran	67	< 67 U
606-20-2	2,6-Dinitrotoluene	330	< 330 U
121-14-2	2,4-Dinitrotoluene	330	< 330 U
84-66-2	Diethylphthalate	67	< 67 U
7005-72-3	4-Chlorophenyl-phenylether	67	< 67 U
86-73-7	Fluorene	67	< 67 U
100-01-6	4-Nitroaniline	330	< 330 U
534-52-1	4,6-Dinitro-2-Methylphenol	670	< 670 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS

Sample ID: MB-011811
METHOD BLANK

Lab Sample ID: MB-011811
LIMS ID: 11-792
Matrix: Soil
Date Analyzed: 01/21/11 15:31

QC Report No: SE67-The Boeing Company
Project: Jorgensen Forge PLO
7KPL2JOR

CAS Number	Analyte	RL	Result
86-30-6	N-Nitrosodiphenylamine	67	< 67 U
101-55-3	4-Bromophenyl-phenylether	67	< 67 U
118-74-1	Hexachlorobenzene	67	< 67 U
87-86-5	Pentachlorophenol	330	< 330 U
85-01-8	Phenanthrene	67	< 67 U
86-74-8	Carbazole	67	< 67 U
120-12-7	Anthracene	67	< 67 U
84-74-2	Di-n-Butylphthalate	67	< 67 U
206-44-0	Fluoranthene	67	< 67 U
129-00-0	Pyrene	67	< 67 U
85-68-7	Butylbenzylphthalate	67	< 67 U
91-94-1	3,3'-Dichlorobenzidine	330	< 330 U
56-55-3	Benzo(a)anthracene	67	< 67 U
117-81-7	bis(2-Ethylhexyl)phthalate	67	< 67 U
218-01-9	Chrysene	67	< 67 U
117-84-0	Di-n-Octyl phthalate	67	< 67 U
50-32-8	Benzo(a)pyrene	67	< 67 U
193-39-5	Indeno(1,2,3-cd)pyrene	67	< 67 U
53-70-3	Dibenz(a,h)anthracene	67	< 67 U
191-24-2	Benzo(g,h,i)perylene	67	< 67 U
90-12-0	1-Methylnaphthalene	67	< 67 U
TOTBFA	Total Benzofluoranthenes	67	< 67 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	70.4%	2-Fluorobiphenyl	77.6%
d14-p-Terphenyl	97.2%	d4-1,2-Dichlorobenzene	74.4%
d5-Phenol	77.1%	2-Fluorophenol	72.3%
2,4,6-Tribromophenol	71.2%	d4-2-Chlorophenol	76.8%

ANALYTICAL RESOURCES INCORPORATED

SW8270 SEMIVOLATILES SOIL/SEDIMENT SURROGATE RECOVERY SUMMARY

Matrix: Soil

QC Report No: SE67-The Boeing Company
Project: Jorgensen Forge PLO
7KPL2JOR

Client ID	NBZ	FBP	TPH	DCB	PHL	2FP	TBP	2CP	TOT OUT
JF-T3B2-SO-08	58.4%	65.6%	86.0%	61.2%	63.7%	58.9%	56.5%	63.5%	0
JF-T3B2-SO-13	62.8%	68.4%	79.6%	64.8%	66.9%	64.3%	57.1%	68.5%	0
JF-T3B2-SO-13-D	64.0%	70.8%	81.6%	67.2%	69.9%	66.7%	57.3%	70.7%	0
JF-T3B1-SO-03	67.6%	73.6%	86.4%	69.6%	71.5%	68.3%	62.4%	72.3%	0
JF-T3B1-SO-08	62.0%	68.8%	89.6%	63.6%	67.5%	62.4%	61.3%	66.7%	0
JF-T3B1-SO-13	73.2%	73.6%	77.6%	66.0%	69.1%	65.3%	73.1%	69.3%	0
JF-T2B4-SO-18	70.4%	84.8%	90.0%	66.8%	70.1%	58.9%	90.1%	68.5%	0
JF-T2B4-SO-18 DL	65.8%	84.2%	81.4%	68.4%	67.9%	54.7%	69.9%	67.1%	0
JF-T2B4-SO-23	65.2%	78.4%	82.8%	62.0%	70.9%	58.7%	91.2%	68.8%	0
JF-T3B4-SO-03	66.0%	78.8%	74.4%	64.8%	70.7%	64.3%	80.8%	70.9%	0
JF-T3B4-SO-13	69.2%	79.1%	73.8%	68.5%	73.8%	69.1%	72.3%	74.5%	0
JF-T3B4-SO-23	70.0%	80.0%	77.2%	72.8%	72.5%	66.4%	76.8%	73.9%	0
MB-011811	70.4%	77.6%	97.2%	74.4%	77.1%	72.3%	71.2%	76.8%	0
LCS-011811	72.0%	81.6%	100%	72.4%	76.8%	73.9%	79.2%	77.6%	0
LCSD-011811	72.0%	82.0%	97.6%	72.4%	77.6%	73.3%	82.9%	77.3%	0
JF-T3B3-SO-03	66.0%	79.6%	76.0%	68.4%	69.1%	59.2%	76.0%	69.3%	0
JF-T3B3-SO-03 MS	68.8%	80.4%	74.4%	70.0%	73.3%	68.8%	87.7%	73.3%	0
JF-T3B3-SO-03 MSD	64.0%	75.2%	71.2%	65.2%	68.8%	64.8%	84.0%	69.6%	0
JF-T3B3-SO-08	59.6%	74.4%	69.2%	61.2%	64.3%	58.4%	76.0%	64.3%	0
JF-T3B3-SO-13	56.0%	67.2%	68.0%	57.2%	58.7%	54.7%	68.5%	59.2%	0
JF-T3B2-SO-03	59.2%	70.4%	70.8%	62.0%	58.4%	49.6%	62.7%	60.3%	0

	LCS/MB LIMITS	QC LIMITS
(NBZ) = d5-Nitrobenzene	(46-102)	(32-106)
(FBP) = 2-Fluorobiphenyl	(51-105)	(39-107)
(TPH) = d14-p-Terphenyl	(55-124)	(31-130)
(DCB) = d4-1,2-Dichlorobenzene	(48-104)	(38-102)
(PHL) = d5-Phenol	(44-110)	(27-112)
(2FP) = 2-Fluorophenol	(38-112)	(22-108)
(TBP) = 2,4,6-Tribromophenol	(54-120)	(31-131)
(2CP) = d4-2-Chlorophenol	(50-103)	(36-104)

Prep Method: SW3546
Log Number Range: 11-781 to 11-795

FORM-II SW8270

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS

Sample ID: LCS-011811
LCS/LCSD

Lab Sample ID: LCS-011811
LIMS ID: 11-792
Matrix: Soil
Data Release Authorized:
Reported: 01/25/11

QC Report No: SE67-The Boeing Company
Project: Jorgensen Forge PLO
7KPL2JOR
Date Sampled: 01/13/11
Date Received: 01/13/11

Date Extracted LCS/LCSD: 01/18/11

Date Analyzed LCS: 01/21/11 16:03
LCSD: 01/21/11 16:36
Instrument/Analyst LCS: NT6/JZ
LCSD: NT6/JZ
GPC Cleanup: Yes

Sample Amount LCS: 7.50 g
LCSD: 7.50 g
Final Extract Volume LCS: 0.5 mL
LCSD: 0.5 mL
Dilution Factor LCS: 1.00
LCSD: 1.00
Percent Moisture: NA

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Phenol	1190	1670	71.3%	1240	1670	74.3%	4.1%
Bis-(2-Chloroethyl) Ether	1170	1670	70.1%	1210	1670	72.5%	3.4%
2-Chlorophenol	1300	1670	77.8%	1350	1670	80.8%	3.8%
1,3-Dichlorobenzene	1150	1670	68.9%	1210	1670	72.5%	5.1%
1,4-Dichlorobenzene	1160	1670	69.5%	1210	1670	72.5%	4.2%
Benzyl Alcohol	2200	3330	66.1%	2320	3330	69.7%	5.3%
1,2-Dichlorobenzene	1180	1670	70.7%	1240	1670	74.3%	5.0%
2-Methylphenol	1100	1670	65.9%	1150	1670	68.9%	4.4%
2,2'-Oxybis(1-Chloropropane)	985 Q	1670	59.0%	1030 Q	1670	61.7%	4.5%
4-Methylphenol	2210	3330	66.4%	2320	3330	69.7%	4.9%
N-Nitroso-Di-N-Propylamine	1060	1670	63.5%	1130	1670	67.7%	6.4%
Hexachloroethane	1170	1670	70.1%	1220	1670	73.1%	4.2%
Nitrobenzene	1170	1670	70.1%	1220	1670	73.1%	4.2%
Isophorone	1280	1670	76.6%	1360	1670	81.4%	6.1%
2-Nitrophenol	1400	1670	83.8%	1460	1670	87.4%	4.2%
2,4-Dimethylphenol	1090	1670	65.3%	1150	1670	68.9%	5.4%
Benzoic Acid	3480	5000	69.6%	4030	5000	80.6%	14.6%
bis(2-Chloroethoxy) Methane	1140	1670	68.3%	1210	1670	72.5%	6.0%
2,4-Dichlorophenol	1390	1670	83.2%	1460	1670	87.4%	4.9%
1,2,4-Trichlorobenzene	1230	1670	73.7%	1280	1670	76.6%	4.0%
Naphthalene	1320	1670	79.0%	1380	1670	82.6%	4.4%
4-Chloroaniline	3440	4000	86.0%	3720	4000	93.0%	7.8%
Hexachlorobutadiene	1220	1670	73.1%	1270	1670	76.0%	4.0%
4-Chloro-3-methylphenol	1300	1670	77.8%	1400	1670	83.8%	7.4%
2-Methylnaphthalene	1160	1670	69.5%	1220	1670	73.1%	5.0%
Hexachlorocyclopentadiene	3510	5000	70.2%	3840	5000	76.8%	9.0%
2,4,6-Trichlorophenol	1430	1670	85.6%	1510	1670	90.4%	5.4%
2,4,5-Trichlorophenol	1280	1670	76.6%	1370	1670	82.0%	6.8%
2-Chloronaphthalene	1330	1670	79.6%	1400	1670	83.8%	5.1%
2-Nitroaniline	1170	1670	70.1%	1250	1670	74.9%	6.6%
Dimethylphthalate	1300	1670	77.8%	1400	1670	83.8%	7.4%
Acenaphthylene	1410	1670	84.4%	1480	1670	88.6%	4.8%
3-Nitroaniline	3710	4270	86.9%	4150	4270	97.2%	11.2%
Acenaphthene	1350	1670	80.8%	1430	1670	85.6%	5.8%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS

Sample ID: LCSD-011811
LCS/LCSD

Lab Sample ID: LCS-011811
LIMS ID: 11-792
Matrix: Soil
Date Analyzed LCS: 01/21/11 16:03
LCSD: 01/21/11 16:36

QC Report No: SE67-The Boeing Company
Project: Jorgensen Forge PLO
7KPL2JOR

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
2,4-Dinitrophenol	3240 Q	5000	64.8%	4140 Q	5000	82.8%	24.4%
4-Nitrophenol	1450	1670	86.8%	1620	1670	97.0%	11.1%
Dibenzofuran	1270	1670	76.0%	1340	1670	80.2%	5.4%
2,6-Dinitrotoluene	1330	1670	79.6%	1430	1670	85.6%	7.2%
2,4-Dinitrotoluene	1320	1670	79.0%	1410	1670	84.4%	6.6%
Diethylphthalate	1260	1670	75.4%	1340	1670	80.2%	6.2%
4-Chlorophenyl-phenylether	1240	1670	74.3%	1330	1670	79.6%	7.0%
Fluorene	1380	1670	82.6%	1460	1670	87.4%	5.6%
4-Nitroaniline	1160	1670	69.5%	1370	1670	82.0%	16.6%
4,6-Dinitro-2-Methylphenol	4250	5000	85.0%	4940	5000	98.8%	15.0%
N-Nitrosodiphenylamine	1310	1670	78.4%	1400	1670	83.8%	6.6%
4-Bromophenyl-phenylether	1280	1670	76.6%	1370	1670	82.0%	6.8%
Hexachlorobenzene	1250	1670	74.9%	1340	1670	80.2%	6.9%
Pentachlorophenol	1490	1670	89.2%	1630	1670	97.6%	9.0%
Phenanthrene	1440	1670	86.2%	1540	1670	92.2%	6.7%
Carbazole	1230	1670	73.7%	1380	1670	82.6%	11.5%
Anthracene	1400	1670	83.8%	1490	1670	89.2%	6.2%
Di-n-Butylphthalate	1330	1670	79.6%	1450	1670	86.8%	8.6%
Fluoranthene	1390	1670	83.2%	1520	1670	91.0%	8.9%
Pyrene	1770	1670	106%	1780	1670	107%	0.6%
Butylbenzylphthalate	1570	1670	94.0%	1660	1670	99.4%	5.6%
3,3'-Dichlorobenzidine	3400	4270	79.6%	3890	4270	91.1%	13.4%
Benzo(a)anthracene	1540	1670	92.2%	1620	1670	97.0%	5.1%
bis(2-Ethylhexyl)phthalate	1390	1670	83.2%	1410	1670	84.4%	1.4%
Chrysene	1550	1670	92.8%	1640	1670	98.2%	5.6%
Di-n-Octyl phthalate	1190	1670	71.3%	1210	1670	72.5%	1.7%
Benzo(a)pyrene	1380	1670	82.6%	1480	1670	88.6%	7.0%
Indeno(1,2,3-cd)pyrene	1770	1670	106%	1910	1670	114%	7.6%
Dibenz(a,h)anthracene	1740	1670	104%	1920	1670	115%	9.8%
Benzo(g,h,i)perylene	1840	1670	110%	2000	1670	120%	8.3%
1-Methylnaphthalene	1220	1670	73.1%	1290	1670	77.2%	5.6%
Total Benzofluoranthenes	2960	3330	88.9%	3190	3330	95.8%	7.5%

Semivolatile Surrogate Recovery

	LCS	LCSD
d5-Nitrobenzene	72.0%	72.0%
2-Fluorobiphenyl	81.6%	82.0%
d14-p-Terphenyl	100%	97.6%
d4-1,2-Dichlorobenzene	72.4%	72.4%
d5-Phenol	76.8%	77.6%
2-Fluorophenol	73.9%	73.3%
2,4,6-Tribromophenol	79.2%	82.9%
d4-2-Chlorophenol	77.6%	77.3%

Reported in µg/kg (ppb)
RPD calculated using sample concentrations per SW846.

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS

Sample ID: JF-T3B3-SO-03
MS/MSD

Lab Sample ID: SE67L
LIMS ID: 11-792
Matrix: Soil
Data Release Authorized:
Reported: 01/25/11

QC Report No: SE67-The Boeing Company
Project: Jorgensen Forge PLO
7KPL2JOR
Date Sampled: 01/13/11
Date Received: 01/13/11

Date Extracted MS/MSD: 01/18/11

Date Analyzed MS: 01/22/11 00:15
MSD: 01/22/11 00:48
Instrument/Analyst MS: NT6/JZ
MSD: NT6/JZ
GPC Cleanup: Yes

Sample Amount MS: 7.77 g-dry-wt
MSD: 7.80 g-dry-wt
Final Extract Volume MS: 0.5 mL
MSD: 0.5 mL
Dilution Factor MS: 1.00
MSD: 1.00
Percent Moisture: 14.0 %

Analyte	Sample	MS	Spike Added-MS	MS Recovery	MSD	Spike Added-MSD	MSD Recovery	RPD
Phenol	< 63.9 U	1080	1610	67.1%	1070	1600	66.9%	0.9%
Bis-(2-Chloroethyl) Ether	< 63.9 U	1090	1610	67.7%	1080	1600	67.5%	0.9%
2-Chlorophenol	< 63.9 U	1200	1610	74.5%	1170	1600	73.1%	2.5%
1,3-Dichlorobenzene	< 63.9 U	1060	1610	65.8%	1040	1600	65.0%	1.9%
1,4-Dichlorobenzene	< 63.9 U	1070	1610	66.5%	1050	1600	65.6%	1.9%
Benzyl Alcohol	< 320 U	2040	3220	63.4%	2000	3210	62.3%	2.0%
1,2-Dichlorobenzene	< 63.9 U	1090	1610	67.7%	1060	1600	66.2%	2.8%
2-Methylphenol	< 63.9 U	983	1610	61.1%	958	1600	59.9%	2.6%
2,2'-Oxybis(1-Chloropropane	< 63.9 U	963 Q	1610	59.8%	948 Q	1600	59.2%	1.6%
4-Methylphenol	< 63.9 U	2000	3220	62.1%	1990	3210	62.0%	0.5%
N-Nitroso-Di-N-Propylamine	< 63.9 U	989	1610	61.4%	971	1600	60.7%	1.8%
Hexachloroethane	< 63.9 U	1020	1610	63.4%	1010	1600	63.1%	1.0%
Nitrobenzene	< 63.9 U	1080	1610	67.1%	1080	1600	67.5%	0.0%
Isophorone	< 63.9 U	1180	1610	73.3%	1160	1600	72.5%	1.7%
2-Nitrophenol	< 63.9 U	1250	1610	77.6%	1260	1600	78.8%	0.8%
2,4-Dimethylphenol	< 63.9 U	702	1610	43.6%	676	1600	42.2%	3.8%
Benzoic Acid	< 639 U	1690	4830	35.0%	1690	4810	35.1%	0.0%
bis(2-Chloroethoxy) Methane	< 63.9 U	1070	1610	66.5%	1060	1600	66.2%	0.9%
2,4-Dichlorophenol	< 320 U	1330	1610	82.6%	1320	1600	82.5%	0.8%
1,2,4-Trichlorobenzene	< 63.9 U	1160	1610	72.0%	1160	1600	72.5%	0.0%
Naphthalene	< 63.9 U	1240	1610	77.0%	1230	1600	76.9%	0.8%
4-Chloroaniline	< 320 U	2850	3860	73.8%	2890	3850	75.1%	1.4%
Hexachlorobutadiene	< 63.9 U	1150	1610	71.4%	1140	1600	71.2%	0.9%
4-Chloro-3-methylphenol	< 320 U	1220	1610	75.8%	1240	1600	77.5%	1.6%
2-Methylnaphthalene	< 63.9 U	1120	1610	69.6%	1120	1600	70.0%	0.0%
Hexachlorocyclopentadiene	< 320 U	2220	4830	46.0%	2170	4810	45.1%	2.3%
2,4,6-Trichlorophenol	< 320 U	1380	1610	85.7%	1370	1600	85.6%	0.7%
2,4,5-Trichlorophenol	< 320 U	1250	1610	77.6%	1260	1600	78.8%	0.8%
2-Chloronaphthalene	< 63.9 U	1270	1610	78.9%	1250	1600	78.1%	1.6%
2-Nitroaniline	< 320 U	1130	1610	70.2%	1130	1600	70.6%	0.0%
Dimethylphthalate	< 63.9 U	1220	1610	75.8%	1210	1600	75.6%	0.8%
Acenaphthylene	< 63.9 U	1320	1610	82.0%	1290	1600	80.6%	2.3%
3-Nitroaniline	< 320 U	3330	4120	80.8%	3380	4100	82.4%	1.5%
Acenaphthene	< 63.9 U	1290	1610	80.1%	1280	1600	80.0%	0.8%
2,4-Dinitrophenol	< 639 U	858 Q	4830	17.8%	1120 Q	4810	23.3%	26.5%
4-Nitrophenol	< 320 U	1280	1610	79.5%	1310	1600	81.9%	2.3%
Dibenzofuran	< 63.9 U	1210	1610	75.2%	1210	1600	75.6%	0.0%
2,6-Dinitrotoluene	< 320 U	1240	1610	77.0%	1240	1600	77.5%	0.0%
2,4-Dinitrotoluene	< 320 U	1220	1610	75.8%	1230	1600	76.9%	0.8%
Diethylphthalate	< 63.9 U	1190	1610	73.9%	1190	1600	74.4%	0.0%
4-Chlorophenyl-phenylether	< 63.9 U	1210	1610	75.2%	1200	1600	75.0%	0.8%
Fluorene	< 63.9 U	1330	1610	82.6%	1320	1600	82.5%	0.8%
4-Nitroaniline	< 320 U	1140	1610	70.8%	1140	1600	71.2%	0.0%
4,6-Dinitro-2-Methylphenol	< 639 U	1590	4830	32.9%	1920	4810	39.9%	18.8%
N-Nitrosodiphenylamine	< 63.9 U	1200	1610	74.5%	1220	1600	76.2%	1.7%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS

Sample ID: JF-T3B3-SO-03
MS/MSD

Lab Sample ID: SE67L
LIMS ID: 11-792
Matrix: Soil
Date Analyzed MS: 01/22/11 00:15
MSD: 01/22/11 00:48

QC Report No: SE67-The Boeing Company
Project: Jorgensen Forge PLO
7KPL2JOR

Analyte	Sample	MS	Spike Added-MS	MS Recovery	MSD	Spike Added-MSD	MSD Recovery	RPD
4-Bromophenyl-phenylether	< 63.9 U	1230	1610	76.4%	1240	1600	77.5%	0.8%
Hexachlorobenzene	< 63.9 U	1280	1610	79.5%	1280	1600	80.0%	0.0%
Pentachlorophenol	< 320 U	1430	1610	88.8%	1450	1600	90.6%	1.4%
Phenanthrene	< 63.9 U	1400	1610	87.0%	1400	1600	87.5%	0.0%
Carbazole	< 63.9 U	1310	1610	81.4%	1310	1600	81.9%	0.0%
Anthracene	< 63.9 U	1300	1610	80.7%	1320	1600	82.5%	1.5%
Di-n-Butylphthalate	120	1390	1610	78.9%	1420	1600	81.2%	2.1%
Fluoranthene	< 63.9 U	1480	1610	91.9%	1490	1600	93.1%	0.7%
Pyrene	< 63.9 U	1250	1610	77.6%	1280	1600	80.0%	2.4%
Butylbenzylphthalate	< 63.9 U	1190	1610	73.9%	1190	1600	74.4%	0.0%
3,3'-Dichlorobenzidine	< 320 U	2510	4120	60.9%	2640	4100	64.4%	5.0%
Benzo(a)anthracene	< 63.9 U	1400	1610	87.0%	1410	1600	88.1%	0.7%
bis(2-Ethylhexyl)phthalate	< 63.9 U	1150	1610	71.4%	1180	1600	73.8%	2.6%
Chrysene	< 63.9 U	1400	1610	87.0%	1400	1600	87.5%	0.0%
Di-n-Octyl phthalate	< 63.9 U	1060	1610	65.8%	1090	1600	68.1%	2.8%
Benzo(a)pyrene	< 63.9 U	1290	1610	80.1%	1320	1600	82.5%	2.3%
Indeno(1,2,3-cd)pyrene	< 63.9 U	1320	1610	82.0%	1360	1600	85.0%	3.0%
Dibenz(a,h)anthracene	< 63.9 U	1400	1610	87.0%	1430	1600	89.4%	2.1%
Benzo(g,h,i)perylene	< 63.9 U	1170	1610	72.7%	1200	1600	75.0%	2.5%
1-Methylnaphthalene	< 63.9 U	1170	1610	72.7%	1160	1600	72.5%	0.9%
Total Benzofluoranthenes	< 63.9 U	2850	3220	88.5%	2900	3210	90.3%	1.7%

Reported in µg/kg (ppb)
RPD calculated using sample concentrations per SW846.

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JF-T3B2-SO-08
SAMPLE

Lab Sample ID: SE67A
LIMS ID: 11-781
Matrix: Soil
Data Release Authorized:
Reported: 01/26/11

QC Report No: SE67-The Boeing Company
Project: Jorgensen Forge PLO
7KPL2JOR
Date Sampled: 01/13/11
Date Received: 01/13/11

Date Extracted: 01/18/11
Date Analyzed: 01/22/11 20:00
Instrument/Analyst: ECD5/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.7 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 5.00
Silica Gel: Yes

Percent Moisture: 24.6%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	3.9	< 3.9 U
53469-21-9	Aroclor 1242	3.9	< 3.9 U
12672-29-6	Aroclor 1248	3.9	< 3.9 U
11097-69-1	Aroclor 1254	3.9	< 3.9 U
11096-82-5	Aroclor 1260	3.9	< 3.9 U
11104-28-2	Aroclor 1221	3.9	< 3.9 U
11141-16-5	Aroclor 1232	3.9	< 3.9 U
37324-23-5	Aroclor 1262	3.9	< 3.9 U
11100-14-4	Aroclor 1268	3.9	< 3.9 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	105%
Tetrachlorometaxylene	69.4%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JF-T3B2-SO-13
SAMPLE

Lab Sample ID: SE67B
LIMS ID: 11-782
Matrix: Soil
Data Release Authorized:
Reported: 01/26/11

QC Report No: SE67-The Boeing Company
Project: Jorgensen Forge PLO
7KPL2JOR
Date Sampled: 01/13/11
Date Received: 01/13/11

Date Extracted: 01/18/11
Date Analyzed: 01/22/11 20:18
Instrument/Analyst: ECD5/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 15.1 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 5.00
Silica Gel: Yes

Percent Moisture: 26.9%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	6.6	< 6.6 U
53469-21-9	Aroclor 1242	6.6	< 6.6 U
12672-29-6	Aroclor 1248	17	< 17 Y
11097-69-1	**Aroclor 1254**	**6.6**	**34**
11096-82-5	Aroclor 1260	6.6	< 6.6 U
11104-28-2	Aroclor 1221	6.6	< 6.6 U
11141-16-5	Aroclor 1232	6.6	< 6.6 U
37324-23-5	Aroclor 1262	6.6	< 6.6 U
11100-14-4	Aroclor 1268	6.6	< 6.6 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	111%
Tetrachlorometaxylene	76.1%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JF-T3B2-SO-13-D
SAMPLE

Lab Sample ID: SE67C
LIMS ID: 11-783
Matrix: Soil
Data Release Authorized:
Reported: 01/26/11

QC Report No: SE67-The Boeing Company
Project: Jorgensen Forge PLO
7KPL2JOR
Date Sampled: 01/13/11
Date Received: 01/13/11

Date Extracted: 01/18/11
Date Analyzed: 01/22/11 20:37
Instrument/Analyst: ECD5/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 11.9 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 5.00
Silica Gel: Yes

Percent Moisture: 26.2%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	8.4	< 8.4 U
53469-21-9	Aroclor 1242	8.4	< 8.4 U
12672-29-6	Aroclor 1248	21	< 21 Y
11097-69-1	**Aroclor 1254**	**8.4**	**54**
11096-82-5	Aroclor 1260	8.4	< 8.4 U
11104-28-2	Aroclor 1221	8.4	< 8.4 U
11141-16-5	Aroclor 1232	8.4	< 8.4 U
37324-23-5	Aroclor 1262	8.4	< 8.4 U
11100-14-4	Aroclor 1268	8.4	< 8.4 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	116%
Tetrachlorometaxylene	82.8%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JF-T3B1-SO-03
SAMPLE

Lab Sample ID: SE67D
LIMS ID: 11-784
Matrix: Soil
Data Release Authorized:
Reported: 01/26/11

QC Report No: SE67-The Boeing Company
Project: Jorgensen Forge PLO
7KPL2JOR
Date Sampled: 01/13/11
Date Received: 01/13/11

Date Extracted: 01/18/11
Date Analyzed: 01/22/11 20:56
Instrument/Analyst: ECD5/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.4 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 5.00
Silica Gel: Yes

Percent Moisture: 23.1%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	3.9	< 3.9 U
53469-21-9	Aroclor 1242	3.9	< 3.9 U
12672-29-6	Aroclor 1248	3.9	< 3.9 U
11097-69-1	Aroclor 1254	3.9	< 3.9 U
11096-82-5	Aroclor 1260	3.9	< 3.9 U
11104-28-2	Aroclor 1221	3.9	< 3.9 U
11141-16-5	Aroclor 1232	3.9	< 3.9 U
37324-23-5	Aroclor 1262	3.9	< 3.9 U
11100-14-4	Aroclor 1268	3.9	< 3.9 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	110%
Tetrachlorometaxylene	79.1%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JF-T3B1-SO-08
SAMPLE

Lab Sample ID: SE67E
LIMS ID: 11-785
Matrix: Soil
Data Release Authorized:
Reported: 01/26/11

QC Report No: SE67-The Boeing Company
Project: Jorgensen Forge PLO
7KPL2JOR
Date Sampled: 01/13/11
Date Received: 01/13/11

Date Extracted: 01/18/11
Date Analyzed: 01/22/11 21:15
Instrument/Analyst: ECD5/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.8 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 5.00
Silica Gel: Yes

Percent Moisture: 18.0%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	3.9	< 3.9 U
53469-21-9	Aroclor 1242	3.9	< 3.9 U
12672-29-6	Aroclor 1248	3.9	< 3.9 U
11097-69-1	Aroclor 1254	3.9	< 3.9 U
11096-82-5	Aroclor 1260	3.9	< 3.9 U
11104-28-2	Aroclor 1221	3.9	< 3.9 U
11141-16-5	Aroclor 1232	3.9	< 3.9 U
37324-23-5	Aroclor 1262	3.9	< 3.9 U
11100-14-4	Aroclor 1268	3.9	< 3.9 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	110%
Tetrachlorometaxylene	77.8%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JF-T3B1-SO-13
SAMPLE

Lab Sample ID: SE67F
LIMS ID: 11-786
Matrix: Soil
Data Release Authorized:
Reported: 01/26/11

QC Report No: SE67-The Boeing Company
Project: Jorgensen Forge PLO
7KPL2JOR
Date Sampled: 01/13/11
Date Received: 01/13/11

Date Extracted: 01/18/11
Date Analyzed: 01/22/11 21:34
Instrument/Analyst: ECD5/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 11.7 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 5.00
Silica Gel: Yes

Percent Moisture: 26.9%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	8.5	< 8.5 U
53469-21-9	Aroclor 1242	8.5	< 8.5 U
12672-29-6	Aroclor 1248	17	< 17 Y
11097-69-1	**Aroclor 1254**	**8.5**	**37**
11096-82-5	Aroclor 1260	8.5	< 8.5 U
11104-28-2	Aroclor 1221	8.5	< 8.5 U
11141-16-5	Aroclor 1232	8.5	< 8.5 U
37324-23-5	**Aroclor 1262**	**8.5**	**28**
11100-14-4	Aroclor 1268	8.5	< 8.5 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	97.2%
Tetrachlorometaxylene	59.1%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JF-T2B4-SO-18
SAMPLE

Lab Sample ID: SE67G
LIMS ID: 11-787
Matrix: Soil
Data Release Authorized:
Reported: 01/24/11

QC Report No: SE67-The Boeing Company
Project: Jorgensen Forge PLO
7KPL2JOR
Date Sampled: 01/13/11
Date Received: 01/13/11

Date Extracted: 01/18/11
Date Analyzed: 01/21/11 06:21
Instrument/Analyst: ECD5/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 0.69 g-dry-wt
Final Extract Volume: 40 mL
Dilution Factor: 10.0
Silica Gel: Yes

Percent Moisture: 31.6%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	12,000	< 12,000 U
53469-21-9	Aroclor 1242	12,000	< 12,000 U
12672-29-6	Aroclor 1248	120,000	< 120,000 Y
11097-69-1	**Aroclor 1254**	**12,000**	**220,000**
11096-82-5	**Aroclor 1260**	**12,000**	**54,000**
11104-28-2	Aroclor 1221	12,000	< 12,000 U
11141-16-5	Aroclor 1232	12,000	< 12,000 U
37324-23-5	Aroclor 1262	12,000	< 12,000 U
11100-14-4	Aroclor 1268	12,000	< 12,000 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	132%
Tetrachlorometaxylene	88.5%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JF-T2B4-SO-23
SAMPLE

Lab Sample ID: SE67H
LIMS ID: 11-788
Matrix: Soil
Data Release Authorized:
Reported: 01/24/11

QC Report No: SE67-The Boeing Company
Project: Jorgensen Forge PLO
7KPL2JOR
Date Sampled: 01/13/11
Date Received: 01/13/11

Date Extracted: 01/18/11
Date Analyzed: 01/21/11 06:40
Instrument/Analyst: ECD5/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 2.06 g-dry-wt
Final Extract Volume: 40 mL
Dilution Factor: 10.0
Silica Gel: Yes

Percent Moisture: 20.0%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	3,900	< 3,900 U
53469-21-9	Aroclor 1242	3,900	< 3,900 U
12672-29-6	Aroclor 1248	29,000	< 29,000 Y
11097-69-1	**Aroclor 1254**	**3,900**	**61,000**
11096-82-5	**Aroclor 1260**	**3,900**	**11,000**
11104-28-2	Aroclor 1221	3,900	< 3,900 U
11141-16-5	Aroclor 1232	3,900	< 3,900 U
37324-23-5	Aroclor 1262	3,900	< 3,900 U
11100-14-4	Aroclor 1268	3,900	< 3,900 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	106%
Tetrachlorometaxylene	85.2%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JF-T3B4-SO-03
SAMPLE

Lab Sample ID: SE67I
LIMS ID: 11-789
Matrix: Soil
Data Release Authorized:
Reported: 01/26/11

QC Report No: SE67-The Boeing Company
Project: Jorgensen Forge PLO
7KPL2JOR
Date Sampled: 01/13/11
Date Received: 01/13/11

Date Extracted: 01/18/11
Date Analyzed: 01/22/11 21:52
Instrument/Analyst: ECD5/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 7.46 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 5.00
Silica Gel: Yes

Percent Moisture: 21.7%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	13	< 13 U
53469-21-9	Aroclor 1242	13	< 13 U
12672-29-6	Aroclor 1248	170	< 170 Y
11097-69-1	**Aroclor 1254**	**13**	**540**
11096-82-5	**Aroclor 1260**	**13**	**290**
11104-28-2	Aroclor 1221	13	< 13 U
11141-16-5	Aroclor 1232	13	< 13 U
37324-23-5	Aroclor 1262	13	< 13 U
11100-14-4	Aroclor 1268	13	< 13 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	123%
Tetrachlorometaxylene	92.6%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JF-T3B4-SO-13
SAMPLE

Lab Sample ID: SE67J
LIMS ID: 11-790
Matrix: Soil
Data Release Authorized:
Reported: 01/26/11

QC Report No: SE67-The Boeing Company
Project: Jorgensen Forge PLO 7KPL2JOR
Date Sampled: 01/13/11
Date Received: 01/13/11

Date Extracted: 01/18/11
Date Analyzed: 01/22/11 22:49
Instrument/Analyst: ECD5/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 26.0 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 5.00
Silica Gel: Yes

Percent Moisture: 9.2%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	3.8	< 3.8 U
53469-21-9	Aroclor 1242	3.8	< 3.8 U
12672-29-6	Aroclor 1248	3.8	< 3.8 U
11097-69-1	**Aroclor 1254**	**3.8**	**16**
11096-82-5	**Aroclor 1260**	**3.8**	**11**
11104-28-2	Aroclor 1221	3.8	< 3.8 U
11141-16-5	Aroclor 1232	3.8	< 3.8 U
37324-23-5	Aroclor 1262	3.8	< 3.8 U
11100-14-4	Aroclor 1268	3.8	< 3.8 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	105%
Tetrachlorometaxylene	83.5%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JF-T3B4-SO-13
DILUTION

Lab Sample ID: SE67J
LIMS ID: 11-790
Matrix: Soil
Data Release Authorized:
Reported: 01/26/11

QC Report No: SE67-The Boeing Company
Project: Jorgensen Forge PLO
7KPL2JOR
Date Sampled: 01/13/11
Date Received: 01/13/11

Date Extracted: 01/18/11
Date Analyzed: 01/25/11 15:46
Instrument/Analyst: ECD5/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 26.0 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 10.0
Silica Gel: Yes

Percent Moisture: 9.2%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	7.7	< 7.7 U
53469-21-9	Aroclor 1242	7.7	< 7.7 U
12672-29-6	Aroclor 1248	7.7	< 7.7 U
11097-69-1	**Aroclor 1254**	**7.7**	**17**
11096-82-5	**Aroclor 1260**	**7.7**	**10**
11104-28-2	Aroclor 1221	7.7	< 7.7 U
11141-16-5	Aroclor 1232	7.7	< 7.7 U
37324-23-5	Aroclor 1262	7.7	< 7.7 U
11100-14-4	Aroclor 1268	7.7	< 7.7 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	103%
Tetrachlorometaxylene	85.8%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JF-T3B4-SO-23
SAMPLE

Lab Sample ID: SE67K
LIMS ID: 11-791
Matrix: Soil
Data Release Authorized:
Reported: 01/26/11

QC Report No: SE67-The Boeing Company
Project: Jorgensen Forge PLO
7KPL2JOR
Date Sampled: 01/13/11
Date Received: 01/13/11

Date Extracted: 01/18/11
Date Analyzed: 01/22/11 23:08
Instrument/Analyst: ECD5/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.7 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 5.00
Silica Gel: Yes

Percent Moisture: 28.7%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	3.9	< 3.9 U
53469-21-9	Aroclor 1242	3.9	< 3.9 U
12672-29-6	Aroclor 1248	3.9	< 3.9 U
11097-69-1	**Aroclor 1254**	**3.9**	**4.5**
11096-82-5	Aroclor 1260	3.9	< 3.9 U
11104-28-2	Aroclor 1221	3.9	< 3.9 U
11141-16-5	Aroclor 1232	3.9	< 3.9 U
37324-23-5	Aroclor 1262	3.9	< 3.9 U
11100-14-4	Aroclor 1268	3.9	< 3.9 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	95.4%
Tetrachlorometaxylene	72.8%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JF-T3B4-SO-23
DILUTION

Lab Sample ID: SE67K
LIMS ID: 11-791
Matrix: Soil
Data Release Authorized:
Reported: 01/26/11

QC Report No: SE67-The Boeing Company
Project: Jorgensen Forge PLO
7KPL2JOR
Date Sampled: 01/13/11
Date Received: 01/13/11

Date Extracted: 01/18/11
Date Analyzed: 01/25/11 16:05
Instrument/Analyst: ECD5/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.7 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 10.0
Silica Gel: Yes

Percent Moisture: 28.7%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	7.8	< 7.8 U
53469-21-9	Aroclor 1242	7.8	< 7.8 U
12672-29-6	Aroclor 1248	7.8	< 7.8 U
11097-69-1	Aroclor 1254	7.8	< 7.8 U
11096-82-5	Aroclor 1260	7.8	< 7.8 U
11104-28-2	Aroclor 1221	7.8	< 7.8 U
11141-16-5	Aroclor 1232	7.8	< 7.8 U
37324-23-5	Aroclor 1262	7.8	< 7.8 U
11100-14-4	Aroclor 1268	7.8	< 7.8 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	100%
Tetrachlorometaxylene	82.2%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JF-T3B3-SO-03
SAMPLE

Lab Sample ID: SE67L
LIMS ID: 11-792
Matrix: Soil
Data Release Authorized:
Reported: 01/26/11

QC Report No: SE67-The Boeing Company
Project: Jorgensen Forge PLO
7KPL2JOR
Date Sampled: 01/13/11
Date Received: 01/13/11

Date Extracted: 01/18/11
Date Analyzed: 01/22/11 23:26
Instrument/Analyst: ECD5/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 11.7 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 5.00
Silica Gel: Yes

Percent Moisture: 14.0%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	8.5	< 8.5 U
53469-21-9	Aroclor 1242	8.5	< 8.5 U
12672-29-6	Aroclor 1248	8.5	< 8.5 U
11097-69-1	Aroclor 1254	13	< 13 Y
11096-82-5	Aroclor 1260	8.5	< 8.5 U
11104-28-2	Aroclor 1221	8.5	< 8.5 U
11141-16-5	Aroclor 1232	8.5	< 8.5 U
37324-23-5	**Aroclor 1262**	**8.5**	**140**
11100-14-4	Aroclor 1268	8.5	< 8.5 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	NR
Tetrachlorometaxylene	83.5%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JF-T3B3-SO-03
MATRIX SPIKE

Lab Sample ID: SE67L
LIMS ID: 11-792
Matrix: Soil
Data Release Authorized:
Reported: 01/26/11

QC Report No: SE67-The Boeing Company
Project: Jorgensen Forge PLO
7KPL2JOR
Date Sampled: 01/13/11
Date Received: 01/13/11

Date Extracted: 01/18/11
Date Analyzed: 01/22/11 23:45
Instrument/Analyst: ECD5/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 11.5 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 5.00
Silica Gel: Yes

Percent Moisture: 14.0%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	8.7	---
53469-21-9	Aroclor 1242	8.7	< 8.7 U
12672-29-6	Aroclor 1248	8.7	< 8.7 U
11097-69-1	Aroclor 1254	8.7	< 8.7 U
11096-82-5	Aroclor 1260	8.7	---
11104-28-2	Aroclor 1221	8.7	< 8.7 U
11141-16-5	Aroclor 1232	8.7	< 8.7 U
37324-23-5	**Aroclor 1262**	**8.7**	**170**
11100-14-4	Aroclor 1268	8.7	< 8.7 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	NR
Tetrachlorometaxylene	90.1%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JF-T3B3-SO-03
MATRIX SPIKE DUP

Lab Sample ID: SE67L
LIMS ID: 11-792
Matrix: Soil
Data Release Authorized:
Reported: 01/26/11

QC Report No: SE67-The Boeing Company
Project: Jorgensen Forge PLO
7KPL2JOR
Date Sampled: 01/13/11
Date Received: 01/13/11

Date Extracted: 01/18/11
Date Analyzed: 01/23/11 00:04
Instrument/Analyst: ECD5/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 11.7 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 5.00
Silica Gel: Yes

Percent Moisture: 14.0%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	8.5	---
53469-21-9	Aroclor 1242	8.5	< 8.5 U
12672-29-6	Aroclor 1248	8.5	< 8.5 U
11097-69-1	Aroclor 1254	8.5	< 8.5 U
11096-82-5	Aroclor 1260	8.5	---
11104-28-2	Aroclor 1221	8.5	< 8.5 U
11141-16-5	Aroclor 1232	8.5	< 8.5 U
37324-23-5	**Aroclor 1262**	**8.5**	**170**
11100-14-4	Aroclor 1268	8.5	< 8.5 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	NR
Tetrachlorometaxylene	89.5%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JF-T3B3-SO-08
SAMPLE

Lab Sample ID: SE67M
LIMS ID: 11-793
Matrix: Soil
Data Release Authorized:
Reported: 01/26/11

QC Report No: SE67-The Boeing Company
Project: Jorgensen Forge PLO
7KPL2JOR
Date Sampled: 01/13/11
Date Received: 01/13/11

Date Extracted: 01/18/11
Date Analyzed: 01/25/11 12:19
Instrument/Analyst: ECD5/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.4 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 25.0
Silica Gel: Yes

Percent Moisture: 20.6%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	20	< 20 U
53469-21-9	Aroclor 1242	20	< 20 U
12672-29-6	Aroclor 1248	79	< 79 Y
11097-69-1	**Aroclor 1254**	**20**	**270**
11096-82-5	**Aroclor 1260**	**20**	**400**
11104-28-2	Aroclor 1221	20	< 20 U
11141-16-5	Aroclor 1232	20	< 20 U
37324-23-5	Aroclor 1262	20	< 20 U
11100-14-4	Aroclor 1268	20	< 20 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	NR
Tetrachlorometaxylene	104%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JF-T3B3-SO-13
SAMPLE

Lab Sample ID: SE67N
LIMS ID: 11-794
Matrix: Soil
Data Release Authorized:
Reported: 01/26/11

QC Report No: SE67-The Boeing Company
Project: Jorgensen Forge PLO
7KPL2JOR
Date Sampled: 01/13/11
Date Received: 01/13/11

Date Extracted: 01/18/11
Date Analyzed: 01/23/11 00:41
Instrument/Analyst: ECD5/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 11.4 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 5.00
Silica Gel: Yes

Percent Moisture: 27.0%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	8.8	< 8.8 U
53469-21-9	Aroclor 1242	8.8	< 8.8 U
12672-29-6	Aroclor 1248	8.8	< 8.8 U
11097-69-1	Aroclor 1254	22	< 22 Y
11096-82-5	**Aroclor 1260**	**8.8**	**54**
11104-28-2	Aroclor 1221	8.8	< 8.8 U
11141-16-5	Aroclor 1232	8.8	< 8.8 U
37324-23-5	Aroclor 1262	8.8	< 8.8 U
11100-14-4	Aroclor 1268	8.8	< 8.8 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	107%
Tetrachlorometaxylene	84.4%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JF-T3B2-SO-03
SAMPLE

Lab Sample ID: SE67O
LIMS ID: 11-795
Matrix: Soil
Data Release Authorized:
Reported: 01/26/11

QC Report No: SE67-The Boeing Company
Project: Jorgensen Forge PLO
7KPL2JOR
Date Sampled: 01/13/11
Date Received: 01/13/11

Date Extracted: 01/18/11
Date Analyzed: 01/23/11 01:00
Instrument/Analyst: ECD5/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 26.3 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 5.00
Silica Gel: Yes

Percent Moisture: 8.4%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	3.8	< 3.8 U
53469-21-9	Aroclor 1242	3.8	< 3.8 U
12672-29-6	Aroclor 1248	3.8	< 3.8 U
11097-69-1	Aroclor 1254	3.8	< 3.8 U
11096-82-5	Aroclor 1260	3.8	< 3.8 U
11104-28-2	Aroclor 1221	3.8	< 3.8 U
11141-16-5	Aroclor 1232	3.8	< 3.8 U
37324-23-5	**Aroclor 1262**	**3.8**	**13**
11100-14-4	Aroclor 1268	3.8	< 3.8 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	106%
Tetrachlorometaxylene	84.1%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: MB-011811
METHOD BLANK

Lab Sample ID: MB-011811
LIMS ID: 11-792
Matrix: Soil
Data Release Authorized:
Reported: 01/26/11

QC Report No: SE67-The Boeing Company
Project: Jorgensen Forge PLO
7KPL2JOR
Date Sampled: NA
Date Received: NA

Date Extracted: 01/18/11
Date Analyzed: 01/22/11 19:03
Instrument/Analyst: ECD5/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.0 g
Final Extract Volume: 1.0 mL
Dilution Factor: 5.00
Silica Gel: Yes

Percent Moisture: NA

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	4.0	< 4.0 U
53469-21-9	Aroclor 1242	4.0	< 4.0 U
12672-29-6	Aroclor 1248	4.0	< 4.0 U
11097-69-1	Aroclor 1254	4.0	< 4.0 U
11096-82-5	Aroclor 1260	4.0	< 4.0 U
11104-28-2	Aroclor 1221	4.0	< 4.0 U
11141-16-5	Aroclor 1232	4.0	< 4.0 U
37324-23-5	Aroclor 1262	4.0	< 4.0 U
11100-14-4	Aroclor 1268	4.0	< 4.0 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	102%
Tetrachlorometaxylene	61.6%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: MB-011811
METHOD BLANK

Lab Sample ID: MB-011811
LIMS ID: 11-787
Matrix: Soil
Data Release Authorized:
Reported: 01/24/11

QC Report No: SE67-The Boeing Company
Project: Jorgensen Forge PLO 7KPL2JOR
Date Sampled: NA
Date Received: NA

Date Extracted: 01/18/11
Date Analyzed: 01/21/11 05:25
Instrument/Analyst: ECD5/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 5.00 g
Final Extract Volume: 40 mL
Dilution Factor: 5.00
Silica Gel: Yes

Percent Moisture: NA

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	800	< 800 U
53469-21-9	Aroclor 1242	800	< 800 U
12672-29-6	Aroclor 1248	800	< 800 U
11097-69-1	Aroclor 1254	800	< 800 U
11096-82-5	Aroclor 1260	800	< 800 U
11104-28-2	Aroclor 1221	800	< 800 U
11141-16-5	Aroclor 1232	800	< 800 U
37324-23-5	Aroclor 1262	800	< 800 U
11100-14-4	Aroclor 1268	800	< 800 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	97.8%
Tetrachlorometaxylene	81.8%

ANALYTICAL RESOURCES INCORPORATED

SW8082/PCB SOIL/SEDIMENT SURROGATE RECOVERY SUMMARY

Matrix: Soil

QC Report No: SE67-The Boeing Company
Project: Jorgensen Forge PLO
7KPL2JOR

Client ID	DCBP % REC	DCBP LCL-UCL	TCMX % REC	TCMX LCL-UCL	TOT OUT
JF-T3B2-SO-08	105%	34-141	69.4%	38-102	0
JF-T3B2-SO-13	111%	34-141	76.1%	38-102	0
JF-T3B2-SO-13-D	116%	34-141	82.8%	38-102	0
JF-T3B1-SO-03	110%	34-141	79.1%	38-102	0
JF-T3B1-SO-08	110%	34-141	77.8%	38-102	0
JF-T3B1-SO-13	97.2%	34-141	59.1%	38-102	0
MB-011811	97.8%	51-127	81.8%	49-110	0
LCS-011811	96.4%	51-127	84.4%	49-110	0
LCSD-011811	93.0%	51-127	80.4%	49-110	0
JF-T2B4-SO-18	132%	22-168	88.5%	28-106	0
JF-T2B4-SO-23	106%	22-168	85.2%	28-106	0
JF-T3B4-SO-03	123%	34-141	92.6%	38-102	0
JF-T3B4-SO-13	105%	34-141	83.5%	38-102	0
JF-T3B4-SO-13 DL	103%	34-141	85.8%	38-102	0
JF-T3B4-SO-23	95.4%	34-141	72.8%	38-102	0
JF-T3B4-SO-23 DL	100%	34-141	82.2%	38-102	0
MB-011811	102%	40-109	61.6%	35-100	0
LCS-011811	110%*	40-109	69.9%	35-100	1
LCSD-011811	109%	40-109	74.8%	35-100	0
JF-T3B3-SO-03	NR	34-141	83.5%	38-102	0
JF-T3B3-SO-03 MS	NR	34-141	90.1%	38-102	0
JF-T3B3-SO-03 MSD	NR	34-141	89.5%	38-102	0
JF-T3B3-SO-08	NR	34-141	104%*	38-102	1
JF-T3B3-SO-13	107%	34-141	84.4%	38-102	0
JF-T3B2-SO-03	106%	34-141	84.1%	38-102	0

Low Level PSDDA Control Limits
Prep Method: SW3550C
Log Number Range: 11-781 to 11-795

FORM-II SW8082

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: LCS-011811
LCS/LCSD

Lab Sample ID: LCS-011811
LIMS ID: 11-792
Matrix: Soil
Data Release Authorized:
Reported: 01/26/11

QC Report No: SE67-The Boeing Company
Project: Jorgensen Forge PLO
7KPL2JOR
Date Sampled: NA
Date Received: NA

Date Extracted LCS/LCSD: 01/18/11

Date Analyzed LCS: 01/22/11 19:22
LCSD: 01/22/11 19:41
Instrument/Analyst LCS: ECD5/JGR
LCSD: ECD5/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount LCS: 25.0 g-dry-wt
LCSD: 25.0 g-dry-wt
Final Extract Volume LCS: 1.0 mL
LCSD: 1.0 mL
Dilution Factor LCS: 5.00
LCSD: 5.00
Silica Gel: Yes

Percent Moisture: NA

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Aroclor 1016	16.3	20.0	81.5%	17.1	20.0	85.5%	4.8%
Aroclor 1260	19.8	20.0	99.0%	20.1	20.0	100%	1.5%

PCB Surrogate Recovery

	LCS	LCSD
Decachlorobiphenyl	110%	109%
Tetrachlorometaxylene	69.9%	74.8%

Results reported in µg/kg (ppb)
RPD calculated using sample concentrations per SW846.

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: LCS-011811
LCS/LCSD

Lab Sample ID: LCS-011811
LIMS ID: 11-787
Matrix: Soil
Data Release Authorized:
Reported: 01/24/11

QC Report No: SE67-The Boeing Company
Project: Jorgensen Forge PLO
7KPL2JOR
Date Sampled: NA
Date Received: NA

Date Extracted LCS/LCSD: 01/18/11

Date Analyzed LCS: 01/21/11 05:44
LCSD: 01/21/11 06:02
Instrument/Analyst LCS: ECD5/JGR
LCSD: ECD5/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount LCS: 5.00 g-dry-wt
LCSD: 5.00 g-dry-wt
Final Extract Volume LCS: 40 mL
LCSD: 40 mL
Dilution Factor LCS: 5.00
LCSD: 5.00
Silica Gel: Yes

Percent Moisture: NA

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Aroclor 1016	3650	4000	91.2%	3470	4000	86.8%	5.1%
Aroclor 1260	4400	4000	110%	4260	4000	106%	3.2%

PCB Surrogate Recovery

	LCS	LCSD
Decachlorobiphenyl	96.4%	93.0%
Tetrachlorometaxylene	84.4%	80.4%

Results reported in µg/kg (ppb)
RPD calculated using sample concentrations per SW846.

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JF-T3B3-SO-03
MS/MSD

Lab Sample ID: SE67L
LIMS ID: 11-792
Matrix: Soil
Data Release Authorized:
Reported: 01/26/11

QC Report No: SE67-The Boeing Company
Project: Jorgensen Forge PLO
7KPL2JOR
Date Sampled: 01/13/11
Date Received: 01/13/11

Date Extracted MS/MSD: 01/18/11

Date Analyzed MS: 01/22/11 23:45
MSD: 01/23/11 00:04
Instrument/Analyst MS: ECD5/JGR
MSD: ECD5/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount MS: 11.5 g-dry-wt
MSD: 11.7 g-dry-wt
Final Extract Volume MS: 1.0 mL
MSD: 1.0 mL
Dilution Factor MS: 5.00
MSD: 5.00
Silica Gel: Yes

Percent Moisture: 14.0%

Analyte	Sample	MS	Spike Added-MS	MS Recovery	MSD	Spike Added-MSD	MSD Recovery	RPD
Aroclor 1016	< 8.5 U	39.6	43.6	90.8%	41.2	42.7	96.5%	4.0%
Aroclor 1260	< 8.5 U	226	43.6	518%	226	42.7	529%	0.0%

Results reported in µg/kg (ppb)
RPD calculated using sample concentrations per SW846.

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
TOTAL DIESEL RANGE HYDROCARBONS
NWTPHD by GC/FID-Silica and Acid Cleaned

Matrix: Soil

QC Report No: SE67-The Boeing Company
Project: Jorgensen Forge PLO
7KPL2JOR

Data Release Authorized: VB
Reported: 01/22/11

ARI ID	Sample ID	Extraction Date	Analysis Date	EFV DL	Range	RL	Result
SE67A	JF-T3B2-SO-08	01/17/11	01/20/11	1.00	Diesel	6.6	< 6.6 U
11-781	HC ID: ---		FID3B	1.0	Motor Oil	13	< 13 U
					Mineral Oil	13	< 13 U
					o-Terphenyl		91.0%
SE67B	JF-T3B2-SO-13	01/17/11	01/20/11	1.00	Diesel	6.8	< 6.8 U
11-782	HC ID: ---		FID3B	1.0	Motor Oil	14	< 14 U
					Mineral Oil	14	< 14 U
					o-Terphenyl		88.6%
SE67C	JF-T3B2-SO-13-D	01/17/11	01/20/11	1.00	Diesel	6.7	< 6.7 U
11-783	HC ID: ---		FID3B	1.0	Motor Oil	14	< 14 U
					Mineral Oil	14	< 14 U
					o-Terphenyl		97.8%
SE67D	JF-T3B1-SO-03	01/17/11	01/21/11	1.00	Diesel	6.5	< 6.5 U
11-784	HC ID: ---		FID3B	1.0	Motor Oil	13	< 13 U
					Mineral Oil	13	< 13 U
					o-Terphenyl		99.8%
SE67E	JF-T3B1-SO-08	01/17/11	01/21/11	1.00	Diesel	6.1	< 6.1 U
11-785	HC ID: ---		FID3B	1.0	Motor Oil	12	< 12 U
					Mineral Oil	12	< 12 U
					o-Terphenyl		99.2%
SE67F	JF-T3B1-SO-13	01/17/11	01/21/11	1.00	**Diesel**	**34**	**220**
11-786	HC ID: **DIESEL/MOTOR OIL**		FID3B	5.0	**Motor Oil**	**68**	**600**
					Mineral Oil	**68**	**540**
					o-Terphenyl		94.1%
SE67G	JF-T2B4-SO-18	01/17/11	01/21/11	1.00	**Diesel**	**360**	**2400**
11-787	HC ID: **DIESEL/MOTOR OIL**		FID3B	50	**Motor Oil**	**720**	**4300**
					Mineral Oil	**720**	**3900**
					o-Terphenyl		D
SE67H	JF-T2B4-SO-23	01/17/11	01/21/11	1.00	**Diesel**	**62**	**310**
11-788	HC ID: **DIESEL/MOTOR OIL**		FID3B	10	**Motor Oil**	**120**	**1200**
					Mineral Oil	**120**	**1100**
					o-Terphenyl		102%
SE67I	JF-T3B4-SO-03	01/17/11	01/21/11	1.00	**Diesel**	**6.3**	**42**
11-789	HC ID: **DIESEL/MOTOR OIL**		FID3B	1.0	**Motor Oil**	**13**	**380**
					Mineral Oil	**13**	**350**
					o-Terphenyl		91.0%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
TOTAL DIESEL RANGE HYDROCARBONS
NWTPHD by GC/FID-Silica and Acid Cleaned

Matrix: Soil

QC Report No: SE67-The Boeing Company
Project: Jorgensen Forge PLO
7KPL2JOR

Data Release Authorized: VJB
Reported: 01/22/11

ARI ID	Sample ID	Extraction Date	Analysis Date	EFV DL	Range	RL	Result
SE67J	JF-T3B4-SO-13	01/17/11	01/21/11	1.00	**Diesel**	**54**	**59**
11-790	HC ID: **DRO/MOTOR OIL**		FID3B	10	**Motor Oil**	**110**	**2600**
					Mineral Oil	**110**	**2400**
					o-Terphenyl		92.2%
SE67K	JF-T3B4-SO-23	01/17/11	01/21/11	1.00	Diesel	7.0	< 7.0 U
11-791	HC ID: ---		FID3B	1.0	Motor Oil	14	< 14 U
					Mineral Oil	14	< 14 U
					o-Terphenyl		104%
MB-011711	Method Blank	01/17/11	01/20/11	1.00	Diesel	5.0	< 5.0 U
11-792	HC ID: ---		FID3B	1.0	Motor Oil	10	< 10 U
					Mineral Oil	10	< 10 U
					o-Terphenyl		104%
SE67L	JF-T3B3-SO-03	01/17/11	01/21/11	1.00	**Diesel**	**5.8**	**9.4**
11-792	HC ID: **DRO/MOTOR OIL**		FID3B	1.0	**Motor Oil**	**12**	**40**
					Mineral Oil	**12**	**36**
					o-Terphenyl		91.7%
SE67M	JF-T3B3-SO-08	01/17/11	01/21/11	1.00	**Diesel**	**6.2**	**46**
11-793	HC ID: **DIESEL/MOTOR OIL**		FID3B	1.0	**Motor Oil**	**12**	**200**
					Mineral Oil	**12**	**190**
					o-Terphenyl		97.7%
SE67N	JF-T3B3-SO-13	01/17/11	01/21/11	1.00	**Diesel**	**6.8**	**7.7**
11-794	HC ID: **DRO/MOTOR OIL**		FID3B	1.0	**Motor Oil**	**14**	**31**
					Mineral Oil	**14**	**28**
					o-Terphenyl		96.4%
SE67O	JF-T3B2-SO-03	01/17/11	01/21/11	1.00	**Diesel**	**5.4**	**9.3**
11-795	HC ID: **DRO/MOTOR OIL**		FID3B	1.0	**Motor Oil**	**11**	**36**
					Mineral Oil	**11**	**33**
					o-Terphenyl		97.3%

Reported in mg/kg (ppm)

EFV-Effective Final Volume in mL.
DL-Dilution of extract prior to analysis.
RL-Reporting limit.

Diesel quantitation on total peaks in the range from C12 to C24.
Motor Oil quantitation on total peaks in the range from C24 to C38.
Mineral Oil quantitation on total peaks in the range from C24 to C38.
HC ID: DRO/RRO indicate results of organics or additional hydrocarbons in ranges are not identifiable.

FORM I

ANALYTICAL RESOURCES INCORPORATED

CLEANED TPHD SURROGATE RECOVERY SUMMARY

Matrix: Soil

QC Report No: SE67-The Boeing Company
Project: Jorgensen Forge PLO
7KPL2JOR

Client ID	OTER	TOT OUT
JF-T3B2-SO-08	91.0%	0
JF-T3B2-SO-13	88.6%	0
JF-T3B2-SO-13-D	97.8%	0
JF-T3B1-SO-03	99.8%	0
JF-T3B1-SO-08	99.2%	0
JF-T3B1-SO-13	94.1%	0
JF-T2B4-SO-18	D	0
JF-T2B4-SO-23	102%	0
JF-T3B4-SO-03	91.0%	0
JF-T3B4-SO-13	92.2%	0
JF-T3B4-SO-23	104%	0
MB-011711	104%	0
LCS-011711	98.2%	0
LCSD-011711	106%	0
JF-T3B3-SO-03	91.7%	0
JF-T3B3-SO-03 MS	86.0%	0
JF-T3B3-SO-08	97.7%	0
JF-T3B3-SO-13	96.4%	0
JF-T3B2-SO-03	97.3%	0

	LCS/MB LIMITS	QC LIMITS
(OTER) = o-Terphenyl	(59-134)	(43-137)

Prep Method: SW3546
Log Number Range: 11-781 to 11-795

FORM-II TPHD

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
NWTPHD by GC/FID-Silica and Acid Cleaned

Sample ID: LCS-011711
LCS/LCSD

Lab Sample ID: LCS-011711
LIMS ID: 11-792
Matrix: Soil
Data Release Authorized: VIB
Reported: 01/22/11

QC Report No: SE67-The Boeing Company
Project: Jorgensen Forge PLO
7KPL2JOR
Date Sampled: 01/13/11
Date Received: 01/13/11

Date Extracted LCS/LCSD: 01/17/11

Date Analyzed LCS: 01/20/11 21:47
LCSD: 01/20/11 22:12
Instrument/Analyst LCS: FID/MS
LCSD: FID/MS

Sample Amount LCS: 10.0 g
LCSD: 10.0 g
Final Extract Volume LCS: 1.0 mL
LCSD: 1.0 mL
Dilution Factor LCS: 1.0
LCSD: 1.0

Range	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Diesel	135	150	90.0%	134	150	89.3%	0.7%

TPHD Surrogate Recovery

	LCS	LCSD
o-Terphenyl	98.2%	106%

Results reported in mg/kg
RPD calculated using sample concentrations per SW846.

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
NWTPHD by GC/FID-Silica and Acid Cleaned

Sample ID: JF-T3B3-SO-03
MATRIX SPIKE

Lab Sample ID: SE67L
LIMS ID: 11-792
Matrix: Soil
Data Release Authorized: VD
Reported: 01/22/11

QC Report No: SE67-The Boeing Company
Project: Jorgensen Forge PLO 7KPL2JOR
Date Sampled: 01/13/11
Date Received: 01/13/11

Date Extracted: 01/17/11
Date Analyzed: 01/21/11 05:11
Instrument/Analyst: FID/MS

Sample Amount: 8.69 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1.0
Percent Moisture: 14.0%

Range	Sample	Matrix Spike	Spike Added	Recovery
Diesel	9.4	149	173	80.7%

Results reported in mg/kg

ANALYTICAL RESOURCES INCORPORATED

TOTAL DIESEL RANGE HYDROCARBONS-EXTRACTION REPORT

ARI Job: SE67
Project: Jorgensen Forge PLO
7KPL2JOR

Matrix: Soil
Date Received: 01/13/11

ARI ID	Client ID	Client Amt	Final Vol	Basis	Prep Date
11-781-SE67A	JF-T3B2-SO-08	7.60 g	1.00 mL	D	01/17/11
11-782-SE67B	JF-T3B2-SO-13	7.38 g	1.00 mL	D	01/17/11
11-783-SE67C	JF-T3B2-SO-13-D	7.43 g	1.00 mL	D	01/17/11
11-784-SE67D	JF-T3B1-SO-03	7.70 g	1.00 mL	D	01/17/11
11-785-SE67E	JF-T3B1-SO-08	8.23 g	1.00 mL	D	01/17/11
11-786-SE67F	JF-T3B1-SO-13	7.38 g	1.00 mL	D	01/17/11
11-787-SE67G	JF-T2B4-SO-18	6.90 g	1.00 mL	D	01/17/11
11-788-SE67H	JF-T2B4-SO-23	8.10 g	1.00 mL	D	01/17/11
11-789-SE67I	JF-T3B4-SO-03	7.92 g	1.00 mL	D	01/17/11
11-790-SE67J	JF-T3B4-SO-13	9.17 g	1.00 mL	D	01/17/11
11-791-SE67K	JF-T3B4-SO-23	7.19 g	1.00 mL	D	01/17/11
11-792-011711MB1	Method Blank	10.0 g	1.00 mL	-	01/17/11
11-792-011711LCS1	Lab Control	10.0 g	1.00 mL	-	01/17/11
11-792-011711LCSD1	Lab Control Dup	10.0 g	1.00 mL	-	01/17/11
11-792-SE67L	JF-T3B3-SO-03	8.70 g	1.00 mL	D	01/17/11
11-792-SE67LMS	JF-T3B3-SO-03	8.69 g	1.00 mL	D	01/17/11
11-793-SE67M	JF-T3B3-SO-08	8.00 g	1.00 mL	D	01/17/11
11-794-SE67N	JF-T3B3-SO-13	7.37 g	1.00 mL	D	01/17/11
11-795-SE67O	JF-T3B2-SO-03	9.18 g	1.00 mL	D	01/17/11

Basis: D=Dry Weight W=As Received

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: JF-T3B2-SO-08
SAMPLE

Lab Sample ID: SE67A
LIMS ID: 11-781
Matrix: Soil
Data Release Authorized:
Reported: 01/19/11

QC Report No: SE67-The Boeing Company
Project: Jorgensen Forge PLO
7KPL2JOR
Date Sampled: 01/13/11
Date Received: 01/13/11

Percent Total Solids: 74.4%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	01/17/11	6010B	01/19/11	7440-38-2	Arsenic	6	6	U
3050B	01/17/11	6010B	01/19/11	7440-43-9	Cadmium	0.3	0.3	U
3050B	01/17/11	6010B	01/19/11	**7440-50-8**	**Copper**	0.3	**22.0**	
3050B	01/17/11	6010B	01/19/11	**7439-92-1**	**Lead**	3	**3**	
3050B	01/17/11	6010B	01/19/11	**7440-02-0**	**Nickel**	1	**13**	
3050B	01/17/11	6010B	01/19/11	**7440-66-6**	**Zinc**	1	**31**	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: JF-T3B2-SO-13
SAMPLE

Lab Sample ID: SE67B
LIMS ID: 11-782
Matrix: Soil
Data Release Authorized:
Reported: 01/19/11

QC Report No: SE67-The Boeing Company
Project: Jorgensen Forge PLO
7KPL2JOR
Date Sampled: 01/13/11
Date Received: 01/13/11

Percent Total Solids: 73.2%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	01/17/11	6010B	01/19/11	7440-38-2	Arsenic	6	6	U
3050B	01/17/11	6010B	01/19/11	7440-43-9	Cadmium	0.3	0.3	U
3050B	01/17/11	6010B	01/19/11	**7440-50-8**	**Copper**	0.3	**24.9**	
3050B	01/17/11	6010B	01/19/11	**7439-92-1**	**Lead**	3	**3**	
3050B	01/17/11	6010B	01/19/11	**7440-02-0**	**Nickel**	1	**14**	
3050B	01/17/11	6010B	01/19/11	**7440-66-6**	**Zinc**	1	**37**	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: JF-T3B2-SO-13-D
SAMPLE

Lab Sample ID: SE67C
LIMS ID: 11-783
Matrix: Soil
Data Release Authorized:
Reported: 01/19/11

QC Report No: SE67-The Boeing Company
Project: Jorgensen Forge PLO
7KPL2JOR
Date Sampled: 01/13/11
Date Received: 01/13/11

Percent Total Solids: 73.5%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	01/17/11	6010B	01/19/11	7440-38-2	Arsenic	6	6	U
3050B	01/17/11	6010B	01/19/11	7440-43-9	Cadmium	0.2	0.2	U
3050B	01/17/11	6010B	01/19/11	**7440-50-8**	**Copper**	0.2	**25.1**	
3050B	01/17/11	6010B	01/19/11	**7439-92-1**	**Lead**	2	**3**	
3050B	01/17/11	6010B	01/19/11	**7440-02-0**	**Nickel**	1	**14**	
3050B	01/17/11	6010B	01/19/11	**7440-66-6**	**Zinc**	1	**39**	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: JF-T3B1-SO-03
SAMPLE

Lab Sample ID: SE67D
LIMS ID: 11-784
Matrix: Soil
Data Release Authorized:
Reported: 01/19/11

QC Report No: SE67-The Boeing Company
Project: Jorgensen Forge PLO
7KPL2JOR
Date Sampled: 01/13/11
Date Received: 01/13/11

Percent Total Solids: 77.9%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	01/17/11	6010B	01/19/11	7440-38-2	Arsenic	6	6	U
3050B	01/17/11	6010B	01/19/11	7440-43-9	Cadmium	0.2	0.2	U
3050B	01/17/11	6010B	01/19/11	**7440-50-8**	**Copper**	0.2	**15.4**	
3050B	01/17/11	6010B	01/19/11	7439-92-1	Lead	2	2	U
3050B	01/17/11	6010B	01/19/11	**7440-02-0**	**Nickel**	1	**9**	
3050B	01/17/11	6010B	01/19/11	**7440-66-6**	**Zinc**	1	**26**	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: JF-T3B1-SO-08
SAMPLE

Lab Sample ID: SE67E
LIMS ID: 11-785
Matrix: Soil
Data Release Authorized
Reported: 01/19/11

QC Report No: SE67-The Boeing Company
Project: Jorgensen Forge PLO
7KPL2JOR
Date Sampled: 01/13/11
Date Received: 01/13/11

Percent Total Solids: 83.0%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	01/17/11	6010B	01/19/11	7440-38-2	Arsenic	6	6	U
3050B	01/17/11	6010B	01/19/11	7440-43-9	Cadmium	0.2	0.2	U
3050B	01/17/11	6010B	01/19/11	**7440-50-8**	**Copper**	0.2	**14.7**	
3050B	01/17/11	6010B	01/19/11	**7439-92-1**	**Lead**	2	**2**	
3050B	01/17/11	6010B	01/19/11	**7440-02-0**	**Nickel**	1	**11**	
3050B	01/17/11	6010B	01/19/11	**7440-66-6**	**Zinc**	1	**34**	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: JF-T3B1-SO-13
SAMPLE

Lab Sample ID: SE67F
LIMS ID: 11-786
Matrix: Soil
Data Release Authorized:
Reported: 01/19/11

QC Report No: SE67-The Boeing Company
Project: Jorgensen Forge PLO
7KPL2JOR
Date Sampled: 01/13/11
Date Received: 01/13/11

Percent Total Solids: 72.4%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	01/17/11	6010B	01/19/11	**7440-38-2**	**Arsenic**	7	**7**	
3050B	01/17/11	6010B	01/19/11	7440-43-9	Cadmium	0.3	0.3	U
3050B	01/17/11	6010B	01/19/11	**7440-50-8**	**Copper**	0.3	**29.2**	
3050B	01/17/11	6010B	01/19/11	**7439-92-1**	**Lead**	3	**3**	
3050B	01/17/11	6010B	01/19/11	**7440-02-0**	**Nickel**	1	**16**	
3050B	01/17/11	6010B	01/19/11	**7440-66-6**	**Zinc**	1	**37**	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: JF-T2B4-SO-18
SAMPLE

Lab Sample ID: SE67G
LIMS ID: 11-787
Matrix: Soil
Data Release Authorized:
Reported: 01/19/11

QC Report No: SE67-The Boeing Company
Project: Jorgensen Forge PLO
7KPL2JOR
Date Sampled: 01/13/11
Date Received: 01/13/11

Percent Total Solids: 64.7%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	01/17/11	6010B	01/19/11	**7440-38-2**	**Arsenic**	7	**14**	
3050B	01/17/11	6010B	01/19/11	**7440-43-9**	**Cadmium**	0.3	**29.4**	
3050B	01/17/11	6010B	01/19/11	**7440-50-8**	**Copper**	0.3	**688**	
3050B	01/17/11	6010B	01/19/11	**7439-92-1**	**Lead**	3	**886**	
3050B	01/17/11	6010B	01/19/11	**7440-02-0**	**Nickel**	1	**202**	
3050B	01/17/11	6010B	01/19/11	**7440-66-6**	**Zinc**	1	**5,630**	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: JF-T2B4-SO-23
SAMPLE

Lab Sample ID: SE67H
LIMS ID: 11-788
Matrix: Soil
Data Release Authorized:
Reported: 01/19/11

QC Report No: SE67-The Boeing Company
Project: Jorgensen Forge PLO
7KPL2JOR
Date Sampled: 01/13/11
Date Received: 01/13/11

Percent Total Solids: 79.4%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	01/17/11	6010B	01/19/11	**7440-38-2**	**Arsenic**	20	**180**	
3050B	01/17/11	6010B	01/19/11	**7440-43-9**	**Cadmium**	0.6	**2.1**	
3050B	01/17/11	6010B	01/19/11	**7440-50-8**	**Copper**	0.6	**209**	
3050B	01/17/11	6010B	01/19/11	**7439-92-1**	**Lead**	6	**300**	
3050B	01/17/11	6010B	01/19/11	**7440-02-0**	**Nickel**	3	**34**	
3050B	01/17/11	6010B	01/19/11	**7440-66-6**	**Zinc**	3	**1,520**	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: JF-T3B4-SO-13
SAMPLE

Lab Sample ID: SE67J
LIMS ID: 11-790
Matrix: Soil
Data Release Authorized:
Reported: 01/19/11

QC Report No: SE67-The Boeing Company
Project: Jorgensen Forge PLO
7KPL2JOR
Date Sampled: 01/13/11
Date Received: 01/13/11

Percent Total Solids: 88.3%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	01/17/11	6010B	01/19/11	**7440-38-2**	**Arsenic**	6	**7**	
3050B	01/17/11	6010B	01/19/11	7440-43-9	Cadmium	0.2	0.2	U
3050B	01/17/11	6010B	01/19/11	**7440-50-8**	**Copper**	0.2	**51.8**	
3050B	01/17/11	6010B	01/19/11	**7439-92-1**	**Lead**	2	**7**	
3050B	01/17/11	6010B	01/19/11	**7440-02-0**	**Nickel**	1	**29**	
3050B	01/17/11	6010B	01/19/11	**7440-66-6**	**Zinc**	1	**142**	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: JF-T3B4-SO-23
SAMPLE

Lab Sample ID: SE67K
LIMS ID: 11-791
Matrix: Soil
Data Release Authorized:
Reported: 01/19/11

QC Report No: SE67-The Boeing Company
Project: Jorgensen Forge PLO
7KPL2JOR
Date Sampled: 01/13/11
Date Received: 01/13/11

Percent Total Solids: 79.6%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	01/17/11	6010B	01/19/11	7440-38-2	Arsenic	6	6	U
3050B	01/17/11	6010B	01/19/11	7440-43-9	Cadmium	0.2	0.2	U
3050B	01/17/11	6010B	01/19/11	**7440-50-8**	**Copper**	0.2	**10.5**	
3050B	01/17/11	6010B	01/19/11	7439-92-1	Lead	2	2	U
3050B	01/17/11	6010B	01/19/11	**7440-02-0**	**Nickel**	1	**10**	
3050B	01/17/11	6010B	01/19/11	**7440-66-6**	**Zinc**	1	**29**	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: JF-T3B4-SO-03
SAMPLE

Lab Sample ID: SE67I
LIMS ID: 11-789
Matrix: Soil
Data Release Authorized:
Reported: 01/19/11

QC Report No: SE67-The Boeing Company
Project: Jorgensen Forge PLO
7KPL2JOR
Date Sampled: 01/13/11
Date Received: 01/13/11

Percent Total Solids: 81.4%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	01/17/11	6010B	01/19/11	7440-38-2	Arsenic	10	10	U
3050B	01/17/11	6010B	01/19/11	**7440-43-9**	**Cadmium**	0.6	**6.9**	
3050B	01/17/11	6010B	01/19/11	**7440-50-8**	**Copper**	0.6	**111**	
3050B	01/17/11	6010B	01/19/11	**7439-92-1**	**Lead**	6	**259**	
3050B	01/17/11	6010B	01/19/11	**7440-02-0**	**Nickel**	3	**160**	
3050B	01/17/11	6010B	01/19/11	**7440-66-6**	**Zinc**	3	**4,720**	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: JF-T3B3-SO-03
SAMPLE

Lab Sample ID: SE67L
LIMS ID: 11-792
Matrix: Soil
Data Release Authorized:
Reported: 01/19/11

QC Report No: SE67-The Boeing Company
Project: Jorgensen Forge PLO
7KPL2JOR
Date Sampled: 01/13/11
Date Received: 01/13/11

Percent Total Solids: 86.5%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	01/17/11	6010B	01/19/11	7440-38-2	Arsenic	6	6	U
3050B	01/17/11	6010B	01/19/11	**7440-43-9**	**Cadmium**	0.2	**2.1**	
3050B	01/17/11	6010B	01/19/11	**7440-50-8**	**Copper**	0.2	**62.6**	
3050B	01/17/11	6010B	01/19/11	**7439-92-1**	**Lead**	2	**27**	
3050B	01/17/11	6010B	01/19/11	**7440-02-0**	**Nickel**	1	**60**	
3050B	01/17/11	6010B	01/19/11	**7440-66-6**	**Zinc**	1	**116**	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: JF-T3B3-SO-03
DUPLICATE

Lab Sample ID: SE67L
LIMS ID: 11-792
Matrix: Soil
Data Release Authorized:
Reported: 01/19/11

QC Report No: SE67-The Boeing Company
Project: Jorgensen Forge PLO
7KPL2JOR
Date Sampled: 01/13/11
Date Received: 01/13/11

MATRIX DUPLICATE QUALITY CONTROL REPORT

Analyte	Analysis Method	Sample	Duplicate	RPD	Control Limit	Q
Arsenic	6010B	6 U	6 U	0.0%	+/- 6	L
Cadmium	6010B	2.1	2.2	4.7%	+/- 20%	
Copper	6010B	62.6	50.1	22.2%	+/- 20%	*
Lead	6010B	27	29	7.1%	+/- 20%	
Nickel	6010B	60	58	3.4%	+/- 20%	
Zinc	6010B	116	151	26.2%	+/- 20%	*

Reported in mg/kg-dry

*-Control Limit Not Met
L-RPD Invalid, Limit = Detection Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: JF-T3B3-SO-03
MATRIX SPIKE

Lab Sample ID: SE67L
LIMS ID: 11-792
Matrix: Soil
Data Release Authorized:
Reported: 01/19/11

QC Report No: SE67-The Boeing Company
Project: Jorgensen Forge PLO
7KPL2JOR
Date Sampled: 01/13/11
Date Received: 01/13/11

MATRIX SPIKE QUALITY CONTROL REPORT

Analyte	Analysis Method	Sample	Spike	Spike Added	% Recovery	Q
Arsenic	6010B	6 U	226	227	99.6%	
Cadmium	6010B	2.1	61.0	56.7	104%	
Copper	6010B	62.6	110	56.7	83.6%	
Lead	6010B	27	253	227	99.6%	
Nickel	6010B	60	116	56.7	98.8%	
Zinc	6010B	116	196	56.7	141%	N

Reported in mg/kg-dry

N-Control Limit Not Met
H-% Recovery Not Applicable, Sample Concentration Too High
NA-Not Applicable, Analyte Not Spiked

Percent Recovery Limits: 75-125%

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: JF-T3B3-SO-08
SAMPLE

Lab Sample ID: SE67M
LIMS ID: 11-793
Matrix: Soil
Data Release Authorized:
Reported: 01/19/11

QC Report No: SE67-The Boeing Company
Project: Jorgensen Forge PLO
7KPL2JOR
Date Sampled: 01/13/11
Date Received: 01/13/11

Percent Total Solids: 80.0%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	01/17/11	6010B	01/19/11	7440-38-2	Arsenic	20	20	U
3050B	01/17/11	6010B	01/19/11	**7440-43-9**	**Cadmium**	0.6	**6.5**	
3050B	01/17/11	6010B	01/19/11	**7440-50-8**	**Copper**	0.6	**354**	
3050B	01/17/11	6010B	01/19/11	**7439-92-1**	**Lead**	6	**208**	
3050B	01/17/11	6010B	01/19/11	**7440-02-0**	**Nickel**	3	**151**	
3050B	01/17/11	6010B	01/19/11	**7440-66-6**	**Zinc**	3	**6,960**	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: JF-T3B3-SO-13
SAMPLE

Lab Sample ID: SE67N
LIMS ID: 11-794
Matrix: Soil
Data Release Authorized:
Reported: 01/19/11

QC Report No: SE67-The Boeing Company
Project: Jorgensen Forge PLO
7KPL2JOR
Date Sampled: 01/13/11
Date Received: 01/13/11

Percent Total Solids: 74.3%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	01/17/11	6010B	01/19/11	7440-38-2	Arsenic	6	6	U
3050B	01/17/11	6010B	01/19/11	**7440-43-9**	**Cadmium**	0.3	**0.5**	
3050B	01/17/11	6010B	01/19/11	**7440-50-8**	**Copper**	0.3	**38.8**	
3050B	01/17/11	6010B	01/19/11	**7439-92-1**	**Lead**	3	**24**	
3050B	01/17/11	6010B	01/19/11	**7440-02-0**	**Nickel**	1	**19**	
3050B	01/17/11	6010B	01/19/11	**7440-66-6**	**Zinc**	1	**525**	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: JF-T3B2-SO-03
SAMPLE

Lab Sample ID: SE67O
LIMS ID: 11-795
Matrix: Soil
Data Release Authorized:
Reported: 01/19/11

QC Report No: SE67-The Boeing Company
Project: Jorgensen Forge PLO
7KPL2JOR
Date Sampled: 01/13/11
Date Received: 01/13/11

Percent Total Solids: 91.4%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	01/17/11	6010B	01/19/11	7440-38-2	Arsenic	5	5	U
3050B	01/17/11	6010B	01/19/11	7440-43-9	Cadmium	0.2	0.2	U
3050B	01/17/11	6010B	01/19/11	**7440-50-8**	**Copper**	0.2	**16.3**	
3050B	01/17/11	6010B	01/19/11	**7439-92-1**	**Lead**	2	**7**	
3050B	01/17/11	6010B	01/19/11	**7440-02-0**	**Nickel**	1	**16**	
3050B	01/17/11	6010B	01/19/11	**7440-66-6**	**Zinc**	1	**42**	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: METHOD BLANK

Lab Sample ID: SE67MB
LIMS ID: 11-793
Matrix: Soil
Data Release Authorized:
Reported: 01/19/11

QC Report No: SE67-The Boeing Company
Project: Jorgensen Forge PLO
7KPL2JOR
Date Sampled: NA
Date Received: NA

Percent Total Solids: NA

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	01/17/11	6010B	01/19/11	7440-38-2	Arsenic	5	5	U
3050B	01/17/11	6010B	01/19/11	7440-43-9	Cadmium	0.2	0.2	U
3050B	01/17/11	6010B	01/19/11	7440-50-8	Copper	0.2	0.2	U
3050B	01/17/11	6010B	01/19/11	7439-92-1	Lead	2	2	U
3050B	01/17/11	6010B	01/19/11	7440-02-0	Nickel	1	1	U
3050B	01/17/11	6010B	01/19/11	7440-66-6	Zinc	1	1	U

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: LAB CONTROL

Lab Sample ID: SE67LCS
LIMS ID: 11-793
Matrix: Soil
Data Release Authorized:
Reported: 01/19/11

QC Report No: SE67-The Boeing Company
Project: Jorgensen Forge PLO
7KPL2JOR
Date Sampled: NA
Date Received: NA

BLANK SPIKE QUALITY CONTROL REPORT

Analyte	Analysis Method	Spike Found	Spike Added	% Recovery	Q
Arsenic	6010B	186	200	93.0%	
Cadmium	6010B	47.5	50.0	95.0%	
Copper	6010B	48.3	50.0	96.6%	
Lead	6010B	186	200	93.0%	
Nickel	6010B	45	50	90.0%	
Zinc	6010B	46	50	92.0%	

Reported in mg/kg-dry

N-Control limit not met
NA-Not Applicable, Analyte Not Spiked
Control Limits: 80-120%

Analytical Resources, Incorporated
Analytical Chemists and Consultants

January 31, 2011

Tom Colligan
Floyd Snider
601 Union Street, Suite 600
Seattle, WA 98101-2341

RE: Project: Jorgensen Forge PLO
ARI Job No: SE82

Dear Tom:

Please find enclosed analytical results and the original Chain of Custody documentation (COC) for the project referenced above. Analytical Resources, Incorporated (ARI) accepted five water samples, twenty two soil samples and a trip blank on January 14, 2011. The samples were received in good condition. Select samples were placed on hold pending further instructions.

The samples were analyzed for Total Metals, SVOCs, VOCs, PCBs and NWTPH-Dx, as requested.

The soil PCBs LCSD surrogate DCBP is out of control high. The LCSD spike recoveries are in control and no action was taken.

The soil PCBs surrogate TCMX is out of control high for sample JF-T1B4-SO-03 due to matrix effects. No action was taken.

The SVOCs water 1/20/11 CCAL is out of control low for phenol, N-Nitroso-di-n-propylamine, 2,2-oxybis (1-Chloropropane) and 2,4-Dinitrophenol and benzo (g,h,i) perylene and dibenzo (a,h) anthracene are out of control high. All associated samples that contain analyte have been flagged with a "Q" qualifier.

The SVOCs water 1/20/11 LCS is out of control high for chrysene, Indeno (1,2,3-cd) pyrene and dibenzo (a,h) anthracene. The LCSD is in control and no action was taken.

The SVOCs 1/24/11 soil CCAL is out of control low for 2,4-Dinitrophenol and out of control high for Indeno(1,2,3-cd) pyrene, dibenzo (a,h) anthracene and benzo (g,h,i) perylene . All associated samples that contain analyte have been flagged with a "Q" qualifier.

The SVOCs 1/25/11 soil CCAL is out of control low for 4,6-Dinitro-2-methylphenol and 2,4-Dinitrophenol and out of control high for Indeno(1,2,3-cd) pyrene, dibenzo (a,h) anthracene and benzo (g,h,i) perylene . All associated samples that contain analyte have been flagged with a "Q" qualifier.

The SVOCs 1/26/11 soil CCAL is out of control low for 4-Nitroaniline and out of control high for 2,4-Dinitrophenol, Indeno(1,2,3-cd) pyrene, dibenzo (a,h) anthracene and benzo (g,h,i) perylene . All associated samples that contain analyte have been flagged with a "Q" qualifier.

The soil SVOCs surrogate TBP is out of control low for sample JF-T1B3-SO-08. No action was taken.

The total metals sample duplicate RPD for sample JF-T1B2-SO-03 is outside of the +/- 20% control limit for nickel. No action was taken.

The VOCs 1/17/11 CCAL is out of control low for 2-Chloroethylvinylether. All associated samples that contain analyte have been flagged with a "Q" qualifier.

Analytical Resources, Incorporated
Analytical Chemists and Consultants

The VOCs 1/18/11 CCAL is out of control low for 2-Chloroethylvinylether and out of control high for acrolein and methyl iodide. All associated samples that contain analyte have been flagged with a "Q" qualifier.

The VOCs 1/17/11 LCS and LCSD are out of control low for 2-Chloroethylvinylether and out of control high for methyl iodide. No action was taken.

The VOCs 1/18/11 LCS is out of control high for methyl iodide. No action was taken.

No other analytical complications were noted for these analyses. Quality control results are included for your review.

A copy of the reports and all associated raw data will remain on file with ARI. If you have any questions or require additional information, please contact me at your convenience.

Sincerely,

ANALYTICAL RESOURCES, INC.

Kelly Bottem
Client Services Manager
kellyb@arilabs.com
206-695-6211
Enclosures

Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: 3C82	Turn-around Requested: Standard TAT
ARI Client Company: Floyd / Snider	Phone: 206·292·2078
Client Contact: NICK GARSON / TOM COLLIGAN	
Client Project Name: Jorgensen Forge	
Client Project #: 7KPL2 JOR	Samplers: Lisa Meoli / Dean Brame

Page: 1 of 3

Date: 1/14/2011 | Ice Present? Y

No. of Coolers: 2 | Cooler Temps: 4.1, 4.3

Analytical Resources, Incorporated
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6201 (fax)

Sample ID	Date	Time	Matrix	No. Containers	METALS As, Cd, Cu, Pb, Ni, Zn	SVOCs	TPH-D	PCBs					Notes/Comments
JF-T4B3-SO-03	01/14/11	0830	SOIL	2	✓	✓	✓	✓					ARCHIVE
JF-T4B3-SO-08		0835											
JF-T4 B3-SO-13		0840											
JF-T4 B2-SO-03		0910											
JF-T4B2-SO-08		0915											
JF-T4B2-SO-13		0920											
JF-T5B3-SO-03		1045											
JF-T5B3-SO-08		1050											
JF-T5B3-SO-13		1055											
JF-T1B2-SO-03		1310											

Comments/Special Instructions	Relinquished by:	Received by:	Relinquished by:	Received by:
	(Signature) Lisa Meoli	(Signature)	(Signature)	(Signature)
	Printed Name: Lisa Meoli	Printed Name: DEAN BRAME	Printed Name: DEAN BRAME	Printed Name: A. Volgardsen
	Company: Floyd Snider	Company: F/S	Company: F/S	Company: ARI
	Date & Time: 1/14/2011 1600	Date & Time: 1/14/11 1705	Date & Time: 1/14/11 1710	Date & Time: 1/14/11 1720

Limits of Liability: *ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, not withstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.*

Sample Retention Policy: All samples submitted to ARI will be appropriately discarded no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer, unless alternate retention schedules have been established by work-order or contract.

Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number:	Turn-around Requested: STANDARD	Page: 2 of 3	
ARI Client Company: FLOYD / SNIDER	Phone: 206-292-2078	Date: 1/14/2011	Ice Present? Y
Client Contact: NICK GARSON / TOM COLLIGAN		No. of Coolers: 2	Cooler Temps: 4.1, 4.3
Client Project Name: JORGENSEN FORGE			
Client Project #: 7KPL2JOR	Samplers: LISA MEOLI / DEAN BRAME		

Analytical Resources, Incorporated
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6201 (fax)

Sample ID	Date	Time	Matrix	No. Containers	Metals As, Cd, Cu, Pb Ni, Zn	SVOCs	TPH-D	PCBs					Notes/Comments
JF-TIB1-SO-03	1/14/11	1600	Soil	2	x	x	x	x					
JF-TIB1-SO-08		1605											
JF-TIB1-SO-13		1610											
JF-TIB4-SO-03		1515											
JF-TIB4-SO-12		1525											
JF-TIB4-SO-18		1530											
JF-TIB2-SO-03		1410											
JF-TIB2-SO-08		1420											
JF-TIB2-SO-18		1430											
JF-TIB2-SO-03-D		1315											

Comments/Special Instructions	Relinquished by:	Received by:	Relinquished by:	Received by:
	(Signature)	(Signature)	(Signature)	(Signature)
	Printed Name: DEANBRAME	Printed Name: A. Volgardsen	Printed Name:	Printed Name:
	Company: F/S	Company: ARI	Company:	Company:
	Date & Time: 1/14/11 1705	Date & Time: 1/14/11 1720	Date & Time:	Date & Time:

Limits of Liability: *ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, not withstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.*

Sample Retention Policy: All samples submitted to ARI will be appropriately discarded no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer, unless alternate retention schedules have been established by work-order or contract.

Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number:	Turn-around Requested:
ARI Client Company: Floyd Snider	Phone: 206 292 2078
Client Contact: NICK GARSON / TOM COLLIGAN	
Client Project Name: JORGENSEN FORGE	
Client Project #: 7K PL2 JOR	Samplers: LISA MEOLI / DEAN BRAME

Page: 3 of 3

Date: 1/14/11 | Ice Present? Y

No. of Coolers: 2 | Cooler Temps: 4.1, 4.3

Analytical Resources, Incorporated
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6201 (fax)

Sample ID	Date	Time	Matrix	No. Containers	Metals As, Cd, Cu, Pb Ni, Zn	SVOC	TPH-D	PCB	Low Level PCB	VOCs			Notes/Comments
JF-T1B2-SO-08	1/14/11	1320	SOIL	2	x	x	x	x					
JF-T1B2-SO-13		1330	SOIL	2	x	x	x	x					
JF-T1B2-GW-15		1310	GW	5					x	x			
JF-T1B3-GW-20		1415	GW	5					x	x			
JF-T1B4-GW-20		1500	GW	5					x	x			
JF-T1B1-SO-13-R		1700	SWATER	10	x	x	x	x	x	x			
JF-T3B2-GW-15		1025	GW	5					x	x			

Comments/Special Instructions				
	Relinquished by: (Signature)	Received by: (Signature)	Relinquished by: (Signature)	Received by: (Signature)
	Printed Name: DEAN BRAME	Printed Name: A. Volgardsen	Printed Name:	Printed Name:
	Company: F/S	Company: ARI	Company:	Company:
	Date & Time: 1/14/11 1705	Date & Time: 1/14/11 1720	Date & Time:	Date & Time:

Limits of Liability: *ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, not withstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.*

Sample Retention Policy: All samples submitted to ARI will be appropriately discarded no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer, unless alternate retention schedules have been established by work-order or contract.

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Temperature Compliance Form

Cooler#: 1 (BOX)	Temperature(°C): 19.3	
Sample ID	**Bottle Count**	**Bottle Type**
JF-TIB1-SO-13-R	10	3 1-L Ag, 3 500ml Ag, 1 500 HDPE, 3 vial

Cooler#:	Temperature(°C):	
Sample ID	**Bottle Count**	**Bottle Type**

Cooler#:	Temperature(°C):	
Sample ID	**Bottle Count**	**Bottle Type**

Cooler#:	Temperature(°C):	
Sample ID	**Bottle Count**	**Bottle Type**

Completed by: AV Date: 1/14/11 Time: 1724

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: Boeing

Project Name: Jorgenson Forge

COC No(s): _____ (NA)

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____

Assigned ARI Job No: SE82

Tracking No: _____ (NA)

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of to cooler?	YES	(NO)
Were custody papers included with the cooler?	(YES)	NO
Were custody papers properly filled out (ink, signed, etc.)	(YES)	NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)..... 4.1 4.3 19.3 ___ ___

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID#: 90941619

Cooler Accepted by: AV Date: 1/14/11 Time: 1720

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler?		YES	(NO)
What kind of packing material was used? ... (Bubble Wrap) (Wet Ice) Gel Packs Baggies Foam Block Paper Other: _____			
Was sufficient ice used (if appropriate)?	NA	(YES)	(NO)
Were all bottles sealed in individual plastic bags?		YES	(NO)
Did all bottles arrive in good condition (unbroken)?		(YES)	NO
Were all bottle labels complete and legible?		(YES)	NO
Did the number of containers listed on COC match with the number of containers received?		(YES)	NO
Did all bottle labels and tags agree with custody papers?		YES	(NO)
Were all bottles used correct for the requested analyses?		(YES)	NO
Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs)...	NA	(YES)	NO
Were all VOC vials free of air bubbles?	NA	(YES)	NO
Was sufficient amount of sample sent in each bottle?		(YES)	NO
Date VOC Trip Blank was made at ARI	NA	1/5/11	

Was Sample Split by ARI : (NA) YES Date/Time: _____ Equipment: _____ Split by: _____

Samples Logged by: AV Date: 1/14/11 Time: 1740

***** Notify Project Manager of discrepancies or concerns *****

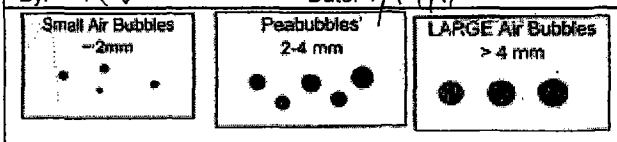
Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC
JF-TIB1-13-R	JF-TIB1-SO-13-R		
JF-TIB2-GW	JF-TIB2-GW-15		

Additional Notes, Discrepancies, & Resolutions:

19.3 = box w/ Rinsate Blank

Trip Blank = sm in 1 of 2

By: AV Date: 1/14/11



Small → "sm"
Peabubbles → "pb"
Large → "lg"
Headspace → "hs"

PRESERVATION VERIFICATION 01/14/11

ANALYTICAL RESOURCES INCORPORATED

ARI Job No: **SE82**

PC: Kelly
VTSR: 01/14/11

Inquiry Number: NONE
Analysis Requested: 01/17/11
Contact: Garson, Nick
Client: The Boeing Company
Logged by: AV
Sample Set Used: Yes-490
Validatable Package: No
Deliverables:

Project #: 7KPL2JDR
Project: Jorgenson Forge
Sample Site:
SDG No:
Analytical Protocol: In-house

LOGNUM ARI ID	CLIENT ID	CN >12	WAD >12	NH3 <2	COD <2	FOG <2	MET <2	PHEN <2	PHOS <2	TKN <2	NO23 <2	TOC <2	S2 >9	AK102 <2	Fe2+ <2	DMET FLT	DOC FLT	PARAMETER	ADJUSTED TO	LOT NUMBER	AMOUNT ADDED	DATE/BY
11-874 **SE82AA**	JF-T1B1-SO-13-R						TOT Pass															

Checked By AV Date 1/14/11

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Client: The Boeing Company	**ARI Job No.:** SE82
Client Project: Jorgenson Forge	**Client Project No.:** 7KPL2JDR

Case Narrative

1. Five samples were submitted for filtering on January 17, 2011.
2. The samples were filtered using all glass filtering equipment.
3. All equipment was decontaminated prior to use.
4. All of the water was filtered through a 1µm borosilicate glass, binder free filter. All of the filters were burned at 440 °C for 15 minutes prior to use.
5. The filtered sample was then placed into appropriate sample bottles for the requested analysis.
6. There were no other noted anomalies in the samples or methods on this project.

Approved by: _____ Date: 1/19/2011
Title: *Geotechnical Laboratory Technician*

4611 South 134th Place, Suite 100 • Tukwila WA 98168 • **206-695-6200** • **206-695-6201** fax

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JF-T1B2-SO-03
SAMPLE

Lab Sample ID: SE82J
LIMS ID: 11-857
Matrix: Soil
Data Release Authorized:
Reported: 01/27/11

QC Report No: SE82-The Boeing Company
Project: Jorgenson Forge
7KPL2JDR
Date Sampled: 01/14/11
Date Received: 01/14/11

Date Extracted: 01/19/11
Date Analyzed: 01/26/11 09:53
Instrument/Analyst: ECD5/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.2 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 5.00
Silica Gel: Yes

Percent Moisture: 18.7%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	4.0	< 4.0 U
53469-21-9	Aroclor 1242	4.0	< 4.0 U
12672-29-6	Aroclor 1248	4.0	< 4.0 U
11097-69-1	**Aroclor 1254**	**4.0**	**5.1**
11096-82-5	Aroclor 1260	4.0	< 4.0 U
11104-28-2	Aroclor 1221	4.0	< 4.0 U
11141-16-5	Aroclor 1232	4.0	< 4.0 U
37324-23-5	Aroclor 1262	4.0	< 4.0 U
11100-14-4	Aroclor 1268	4.0	< 4.0 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	105%
Tetrachlorometaxylene	78.1%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JF-T1B1-SO-03
SAMPLE

Lab Sample ID: SE82K
LIMS ID: 11-858
Matrix: Soil
Data Release Authorized:
Reported: 01/27/11

QC Report No: SE82-The Boeing Company
Project: Jorgenson Forge
7KPL2JDR
Date Sampled: 01/14/11
Date Received: 01/14/11

Date Extracted: 01/19/11
Date Analyzed: 01/26/11 10:11
Instrument/Analyst: ECD5/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 7.25 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 20.0
Silica Gel: Yes

Percent Moisture: 20.1%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	55	< 55 U
53469-21-9	Aroclor 1242	55	< 55 U
12672-29-6	Aroclor 1248	55	< 55 U
11097-69-1	Aroclor 1254	550	< 550 Y
11096-82-5	**Aroclor 1260**	**55**	**1,600**
11104-28-2	Aroclor 1221	55	< 55 U
11141-16-5	Aroclor 1232	55	< 55 U
37324-23-5	Aroclor 1262	55	< 55 U
11100-14-4	Aroclor 1268	55	< 55 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	117%
Tetrachlorometaxylene	88.0%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JF-T1B1-SO-08
SAMPLE

Lab Sample ID: SE82L
LIMS ID: 11-859
Matrix: Soil
Data Release Authorized: MW
Reported: 01/27/11

QC Report No: SE82-The Boeing Company
Project: Jorgenson Forge
7KPL2JDR
Date Sampled: 01/14/11
Date Received: 01/14/11

Date Extracted: 01/19/11
Date Analyzed: 01/26/11 10:30
Instrument/Analyst: ECD5/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.2 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 5.00
Silica Gel: Yes

Percent Moisture: 25.8%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	4.0	< 4.0 U
53469-21-9	Aroclor 1242	4.0	< 4.0 U
12672-29-6	Aroclor 1248	4.0	< 4.0 U
11097-69-1	**Aroclor 1254**	**4.0**	**4.2**
11096-82-5	**Aroclor 1260**	**4.0**	**7.8**
11104-28-2	Aroclor 1221	4.0	< 4.0 U
11141-16-5	Aroclor 1232	4.0	< 4.0 U
37324-23-5	Aroclor 1262	4.0	< 4.0 U
11100-14-4	Aroclor 1268	4.0	< 4.0 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	96.6%
Tetrachlorometaxylene	71.9%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JF-T1B1-SO-13
SAMPLE

Lab Sample ID: SE82M
LIMS ID: 11-860
Matrix: Soil
Data Release Authorized:
Reported: 01/27/11

QC Report No: SE82-The Boeing Company
Project: Jorgenson Forge
7KPL2JDR
Date Sampled: 01/14/11
Date Received: 01/14/11

Date Extracted: 01/19/11
Date Analyzed: 01/26/11 10:49
Instrument/Analyst: ECD5/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.7 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 5.00
Silica Gel: Yes

Percent Moisture: 28.8%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	3.9	< 3.9 U
53469-21-9	Aroclor 1242	3.9	< 3.9 U
12672-29-6	Aroclor 1248	3.9	< 3.9 U
11097-69-1	**Aroclor 1254**	**3.9**	**5.6**
11096-82-5	Aroclor 1260	3.9	< 3.9 U
11104-28-2	Aroclor 1221	3.9	< 3.9 U
11141-16-5	Aroclor 1232	5.8	< 5.8 Y
37324-23-5	Aroclor 1262	3.9	< 3.9 U
11100-14-4	Aroclor 1268	3.9	< 3.9 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	103%
Tetrachlorometaxylene	88.0%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JF-T1B4-SO-03
SAMPLE

Lab Sample ID: SE82N
LIMS ID: 11-861
Matrix: Soil
Data Release Authorized:
Reported: 01/27/11

QC Report No: SE82-The Boeing Company
Project: Jorgenson Forge
7KPL2JDR
Date Sampled: 01/14/11
Date Received: 01/14/11

Date Extracted: 01/19/11
Date Analyzed: 01/26/11 11:08
Instrument/Analyst: ECD5/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 13.8 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 5.00
Silica Gel: Yes

Percent Moisture: 19.8%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	7.2	< 7.2 U
53469-21-9	Aroclor 1242	7.2	< 7.2 U
12672-29-6	Aroclor 1248	25	< 25 Y
11097-69-1	Aroclor 1254	36	< 36 Y
11096-82-5	Aroclor 1260	7.2	< 7.2 U
11104-28-2	Aroclor 1221	7.2	< 7.2 U
11141-16-5	Aroclor 1232	7.2	< 7.2 U
37324-23-5	**Aroclor 1262**	**7.2**	**280**
11100-14-4	Aroclor 1268	7.2	< 7.2 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	NR
Tetrachlorometaxylene	117%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JF-T1B4-SO-12
SAMPLE

Lab Sample ID: SE820
LIMS ID: 11-862
Matrix: Soil
Data Release Authorized:
Reported: 01/27/11

QC Report No: SE82-The Boeing Company
Project: Jorgenson Forge
7KPL2JDR
Date Sampled: 01/14/11
Date Received: 01/14/11

Date Extracted: 01/19/11
Date Analyzed: 01/26/11 11:27
Instrument/Analyst: ECD5/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 19.9 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 5.00
Silica Gel: Yes

Percent Moisture: 17.4%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	5.0	< 5.0 U
53469-21-9	Aroclor 1242	5.0	< 5.0 U
12672-29-6	Aroclor 1248	50	< 50 Y
11097-69-1	**Aroclor 1254**	**5.0**	**180**
11096-82-5	**Aroclor 1260**	**5.0**	**28**
11104-28-2	Aroclor 1221	5.0	< 5.0 U
11141-16-5	Aroclor 1232	5.0	< 5.0 U
37324-23-5	Aroclor 1262	5.0	< 5.0 U
11100-14-4	Aroclor 1268	5.0	< 5.0 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	95.6%
Tetrachlorometaxylene	86.8%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JF-T1B4-SO-18
SAMPLE

Lab Sample ID: SE82P
LIMS ID: 11-863
Matrix: Soil
Data Release Authorized:
Reported: 01/27/11

QC Report No: SE82-The Boeing Company
Project: Jorgenson Forge
7KPL2JDR
Date Sampled: 01/14/11
Date Received: 01/14/11

Date Extracted: 01/19/11
Date Analyzed: 01/26/11 11:45
Instrument/Analyst: ECD5/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 19.7 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 5.00
Silica Gel: Yes

Percent Moisture: 21.5%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	5.1	< 5.1 U
53469-21-9	Aroclor 1242	5.1	< 5.1 U
12672-29-6	Aroclor 1248	38	< 38 Y
11097-69-1	**Aroclor 1254**	**5.1**	**110**
11096-82-5	**Aroclor 1260**	**5.1**	**35**
11104-28-2	Aroclor 1221	5.1	< 5.1 U
11141-16-5	Aroclor 1232	5.1	< 5.1 U
37324-23-5	Aroclor 1262	5.1	< 5.1 U
11100-14-4	Aroclor 1268	5.1	< 5.1 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	99.9%
Tetrachlorometaxylene	93.6%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JF-T1B3-SO-03
SAMPLE

Lab Sample ID: SE82Q
LIMS ID: 11-864
Matrix: Soil
Data Release Authorized: MW
Reported: 01/27/11

QC Report No: SE82-The Boeing Company
Project: Jorgenson Forge
7KPL2JDR
Date Sampled: 01/14/11
Date Received: 01/14/11

Date Extracted: 01/19/11
Date Analyzed: 01/26/11 12:04
Instrument/Analyst: ECD5/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.4 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 5.00
Silica Gel: Yes

Percent Moisture: 6.1%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	3.9	< 3.9 U
53469-21-9	Aroclor 1242	3.9	< 3.9 U
12672-29-6	Aroclor 1248	3.9	< 3.9 U
11097-69-1	Aroclor 1254	30	< 30 Y
11096-82-5	**Aroclor 1260**	**3.9**	**70**
11104-28-2	Aroclor 1221	3.9	< 3.9 U
11141-16-5	Aroclor 1232	3.9	< 3.9 U
37324-23-5	Aroclor 1262	3.9	< 3.9 U
11100-14-4	Aroclor 1268	3.9	< 3.9 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	101%
Tetrachlorometaxylene	84.0%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JF-T1B3-SO-08
SAMPLE

Lab Sample ID: SE82R
LIMS ID: 11-865
Matrix: Soil
Data Release Authorized:
Reported: 01/27/11

QC Report No: SE82-The Boeing Company
Project: Jorgenson Forge
7KPL2JDR
Date Sampled: 01/14/11
Date Received: 01/14/11

Date Extracted: 01/19/11
Date Analyzed: 01/26/11 12:23
Instrument/Analyst: ECD5/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 9.86 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 20.0
Silica Gel: Yes

Percent Moisture: 11.1%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	41	< 41 U
53469-21-9	Aroclor 1242	41	< 41 U
12672-29-6	Aroclor 1248	100	< 100 Y
11097-69-1	Aroclor 1254	810	< 810 Y
11096-82-5	**Aroclor 1260**	**41**	**1,800**
11104-28-2	Aroclor 1221	41	< 41 U
11141-16-5	Aroclor 1232	41	< 41 U
37324-23-5	Aroclor 1262	41	< 41 U
11100-14-4	Aroclor 1268	41	< 41 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	125%
Tetrachlorometaxylene	100%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JF-T1B3-SO-18
SAMPLE

Lab Sample ID: SE82S
LIMS ID: 11-866
Matrix: Soil
Data Release Authorized:
Reported: 01/27/11

QC Report No: SE82-The Boeing Company
Project: Jorgenson Forge
7KPL2JDR
Date Sampled: 01/14/11
Date Received: 01/14/11

Date Extracted: 01/19/11
Date Analyzed: 01/26/11 12:42
Instrument/Analyst: ECD5/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 1.30 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 20.0
Silica Gel: Yes

Percent Moisture: 38.9%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	310	< 310 U
53469-21-9	Aroclor 1242	310	< 310 U
12672-29-6	Aroclor 1248	1,200	< 1,200 Y
11097-69-1	**Aroclor 1254**	**310**	**3,900**
11096-82-5	**Aroclor 1260**	**310**	**4,200**
11104-28-2	Aroclor 1221	310	< 310 U
11141-16-5	Aroclor 1232	310	< 310 U
37324-23-5	Aroclor 1262	310	< 310 U
11100-14-4	Aroclor 1268	310	< 310 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	111%
Tetrachlorometaxylene	86.0%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JF-T1B2-SO-03-D
SAMPLE

Lab Sample ID: SE82T
LIMS ID: 11-867
Matrix: Soil
Data Release Authorized: MW
Reported: 01/27/11

QC Report No: SE82-The Boeing Company
Project: Jorgenson Forge
7KPL2JDR
Date Sampled: 01/14/11
Date Received: 01/14/11

Date Extracted: 01/19/11
Date Analyzed: 01/26/11 13:01
Instrument/Analyst: ECD5/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.7 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 5.00
Silica Gel: Yes

Percent Moisture: 17.3%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	3.9	< 3.9 U
53469-21-9	Aroclor 1242	3.9	< 3.9 U
12672-29-6	Aroclor 1248	3.9	< 3.9 U
11097-69-1	**Aroclor 1254**	**3.9**	**4.9**
11096-82-5	Aroclor 1260	3.9	< 3.9 U
11104-28-2	Aroclor 1221	3.9	< 3.9 U
11141-16-5	Aroclor 1232	3.9	< 3.9 U
37324-23-5	Aroclor 1262	3.9	< 3.9 U
11100-14-4	Aroclor 1268	3.9	< 3.9 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	103%
Tetrachlorometaxylene	81.4%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JF-T1B2-SO-08
SAMPLE

Lab Sample ID: SE82U
LIMS ID: 11-868
Matrix: Soil
Data Release Authorized:
Reported: 01/27/11

QC Report No: SE82-The Boeing Company
Project: Jorgenson Forge
7KPL2JDR
Date Sampled: 01/14/11
Date Received: 01/14/11

Date Extracted: 01/19/11
Date Analyzed: 01/26/11 13:19
Instrument/Analyst: ECD5/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.5 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 5.00
Silica Gel: Yes

Percent Moisture: 23.1%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	3.9	< 3.9 U
53469-21-9	Aroclor 1242	3.9	< 3.9 U
12672-29-6	Aroclor 1248	3.9	< 3.9 U
11097-69-1	**Aroclor 1254**	**3.9**	**7.0**
11096-82-5	Aroclor 1260	3.9	< 3.9 U
11104-28-2	Aroclor 1221	3.9	< 3.9 U
11141-16-5	Aroclor 1232	3.9	< 3.9 U
37324-23-5	Aroclor 1262	3.9	< 3.9 U
11100-14-4	Aroclor 1268	3.9	< 3.9 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	103%
Tetrachlorometaxylene	79.1%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JF-T1B2-SO-13
SAMPLE

Lab Sample ID: SE82V
LIMS ID: 11-869
Matrix: Soil
Data Release Authorized:
Reported: 01/27/11

QC Report No: SE82-The Boeing Company
Project: Jorgenson Forge
7KPL2JDR
Date Sampled: 01/14/11
Date Received: 01/14/11

Date Extracted: 01/19/11
Date Analyzed: 01/26/11 13:38
Instrument/Analyst: ECD5/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.6 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 5.00
Silica Gel: Yes

Percent Moisture: 27.0%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	3.9	< 3.9 U
53469-21-9	Aroclor 1242	3.9	< 3.9 U
12672-29-6	Aroclor 1248	3.9	< 3.9 U
11097-69-1	Aroclor 1254	3.9	< 3.9 U
11096-82-5	Aroclor 1260	3.9	< 3.9 U
11104-28-2	Aroclor 1221	3.9	< 3.9 U
11141-16-5	Aroclor 1232	3.9	< 3.9 U
37324-23-5	Aroclor 1262	3.9	< 3.9 U
11100-14-4	Aroclor 1268	3.9	< 3.9 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	97.9%
Tetrachlorometaxylene	79.5%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: MB-011911
METHOD BLANK

Lab Sample ID: MB-011911
LIMS ID: 11-857
Matrix: Soil
Data Release Authorized:
Reported: 01/27/11

QC Report No: SE82-The Boeing Company
Project: Jorgenson Forge
7KPL2JDR
Date Sampled: NA
Date Received: NA

Date Extracted: 01/19/11
Date Analyzed: 01/26/11 08:56
Instrument/Analyst: ECD5/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.0 g
Final Extract Volume: 1.0 mL
Dilution Factor: 5.00
Silica Gel: Yes

Percent Moisture: NA

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	4.0	< 4.0 U
53469-21-9	Aroclor 1242	4.0	< 4.0 U
12672-29-6	Aroclor 1248	4.0	< 4.0 U
11097-69-1	Aroclor 1254	4.0	< 4.0 U
11096-82-5	Aroclor 1260	4.0	< 4.0 U
11104-28-2	Aroclor 1221	4.0	< 4.0 U
11141-16-5	Aroclor 1232	4.0	< 4.0 U
37324-23-5	Aroclor 1262	4.0	< 4.0 U
11100-14-4	Aroclor 1268	4.0	< 4.0 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	105%
Tetrachlorometaxylene	73.8%

ANALYTICAL RESOURCES INCORPORATED

SW8082/PCB SOIL/SEDIMENT SURROGATE RECOVERY SUMMARY

Matrix: Soil

QC Report No: SE82-The Boeing Company
Project: Jorgenson Forge
7KPL2JDR

Client ID	DCBP % REC	DCBP LCL-UCL	TCMX % REC	TCMX LCL-UCL	TOT OUT
MB-011911	105%	40-109	73.8%	35-100	0
LCS-011911	107%	40-109	77.9%	35-100	0
LCSD-011911	110%*	40-109	80.6%	35-100	1
JF-T1B2-SO-03	105%	34-141	78.1%	38-102	0
JF-T1B1-SO-03	117%	34-141	88.0%	38-102	0
JF-T1B1-SO-08	96.6%	34-141	71.9%	38-102	0
JF-T1B1-SO-13	103%	34-141	88.0%	38-102	0
JF-T1B4-SO-03	NR	34-141	117%*	38-102	1
JF-T1B4-SO-12	95.6%	34-141	86.8%	38-102	0
JF-T1B4-SO-18	99.9%	34-141	93.6%	38-102	0
JF-T1B3-SO-03	101%	34-141	84.0%	38-102	0
JF-T1B3-SO-08	125%	34-141	100%	38-102	0
JF-T1B3-SO-18	111%	34-141	86.0%	38-102	0
JF-T1B2-SO-03-D	103%	34-141	81.4%	38-102	0
JF-T1B2-SO-08	103%	34-141	79.1%	38-102	0
JF-T1B2-SO-13	97.9%	34-141	79.5%	38-102	0

Low Level PSDDA Control Limits
Prep Method: SW3550C
Log Number Range: 11-857 to 11-869

FORM-II SW8082

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: LCS-011911
LCS/LCSD

Lab Sample ID: LCS-011911
LIMS ID: 11-857
Matrix: Soil
Data Release Authorized:
Reported: 01/27/11

QC Report No: SE82-The Boeing Company
Project: Jorgenson Forge
7KPL2JDR
Date Sampled: NA
Date Received: NA

Date Extracted LCS/LCSD: 01/19/11

Date Analyzed LCS: 01/26/11 09:15
LCSD: 01/26/11 09:34
Instrument/Analyst LCS: ECD5/JGR
LCSD: ECD5/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount LCS: 25.0 g-dry-wt
LCSD: 25.0 g-dry-wt
Final Extract Volume LCS: 1.0 mL
LCSD: 1.0 mL
Dilution Factor LCS: 5.00
LCSD: 5.00
Silica Gel: Yes

Percent Moisture: NA

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Aroclor 1016	17.4	20.0	87.0%	18.1	20.0	90.5%	3.9%
Aroclor 1260	18.8	20.0	94.0%	19.7	20.0	98.5%	4.7%

PCB Surrogate Recovery

	LCS	LCSD
Decachlorobiphenyl	107%	110%
Tetrachlorometaxylene	77.9%	80.6%

Results reported in µg/kg (ppb)
RPD calculated using sample concentrations per SW846.

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: JF-T1B2-GW-15
SAMPLE

Lab Sample ID: SE82W
LIMS ID: 11-870
Matrix: Water
Data Release Authorized: MW
Reported: 01/26/11

QC Report No: SE82-The Boeing Company
Project: Jorgenson Forge
7KPL2JDR
Date Sampled: 01/14/11
Date Received: 01/14/11

Date Extracted: 01/18/11
Date Analyzed: 01/22/11 21:50
Instrument/Analyst: ECD7/AAR
GPC Cleanup: No
Sulfur Cleanup: Yes

Sample Amount: 1000 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00
Silica Gel: Yes
Acid Cleanup: Yes

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	0.010	< 0.010 U
53469-21-9	Aroclor 1242	0.010	< 0.010 U
12672-29-6	Aroclor 1248	0.010	< 0.010 U
11097-69-1	Aroclor 1254	0.010	< 0.010 U
11096-82-5	Aroclor 1260	0.010	< 0.010 U
11104-28-2	Aroclor 1221	0.010	< 0.010 U
11141-16-5	Aroclor 1232	0.010	< 0.010 U
37324-23-5	Aroclor 1262	0.010	< 0.010 U
11100-14-4	Aroclor 1268	0.010	< 0.010 U

Reported in µg/L (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	73.0%
Tetrachlorometaxylene	55.8%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: JF-T1B3-GW-20
SAMPLE

Lab Sample ID: SE82X
LIMS ID: 11-871
Matrix: Water
Data Release Authorized:
Reported: 01/26/11

QC Report No: SE82-The Boeing Company
Project: Jorgenson Forge
7KPL2JDR
Date Sampled: 01/14/11
Date Received: 01/14/11

Date Extracted: 01/18/11
Date Analyzed: 01/22/11 22:13
Instrument/Analyst: ECD7/AAR
GPC Cleanup: No
Sulfur Cleanup: Yes

Sample Amount: 1000 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00
Silica Gel: Yes
Acid Cleanup: Yes

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	0.010	< 0.010 U
53469-21-9	Aroclor 1242	0.010	< 0.010 U
12672-29-6	Aroclor 1248	0.014	< 0.014 Y
11097-69-1	**Aroclor 1254**	**0.010**	**0.022**
11096-82-5	**Aroclor 1260**	**0.010**	**0.011**
11104-28-2	Aroclor 1221	0.010	< 0.010 U
11141-16-5	Aroclor 1232	0.010	< 0.010 U
37324-23-5	Aroclor 1262	0.010	< 0.010 U
11100-14-4	Aroclor 1268	0.010	< 0.010 U

Reported in µg/L (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	69.5%
Tetrachlorometaxylene	56.2%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: JF-T1B4-GW-20
SAMPLE

Lab Sample ID: SE82Y
LIMS ID: 11-872
Matrix: Water
Data Release Authorized:
Reported: 01/26/11

QC Report No: SE82-The Boeing Company
Project: Jorgenson Forge
7KPL2JDR
Date Sampled: 01/14/11
Date Received: 01/14/11

Date Extracted: 01/18/11
Date Analyzed: 01/22/11 22:37
Instrument/Analyst: ECD7/AAR
GPC Cleanup: No
Sulfur Cleanup: Yes

Sample Amount: 1000 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00
Silica Gel: Yes
Acid Cleanup: Yes

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	0.010	< 0.010 U
53469-21-9	Aroclor 1242	0.010	< 0.010 U
12672-29-6	Aroclor 1248	0.031	< 0.031 Y
11097-69-1	**Aroclor 1254**	**0.010**	**0.054**
11096-82-5	Aroclor 1260	0.010	< 0.010 U
11104-28-2	Aroclor 1221	0.010	< 0.010 U
11141-16-5	Aroclor 1232	0.010	< 0.010 U
37324-23-5	Aroclor 1262	0.010	< 0.010 U
11100-14-4	Aroclor 1268	0.010	< 0.010 U

Reported in µg/L (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	65.8%
Tetrachlorometaxylene	52.2%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: JF-T3B2-GW-15
SAMPLE

Lab Sample ID: SE82Z
LIMS ID: 11-873
Matrix: Water
Data Release Authorized:
Reported: 01/26/11

QC Report No: SE82-The Boeing Company
Project: Jorgenson Forge
7KPL2JDR
Date Sampled: 01/14/11
Date Received: 01/14/11

Date Extracted: 01/18/11
Date Analyzed: 01/22/11 23:01
Instrument/Analyst: ECD7/AAR
GPC Cleanup: No
Sulfur Cleanup: Yes

Sample Amount: 1000 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00
Silica Gel: Yes
Acid Cleanup: Yes

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	0.010	< 0.010 U
53469-21-9	Aroclor 1242	0.010	< 0.010 U
12672-29-6	Aroclor 1248	0.010	< 0.010 U
11097-69-1	Aroclor 1254	0.010	< 0.010 U
11096-82-5	Aroclor 1260	0.010	< 0.010 U
11104-28-2	Aroclor 1221	0.010	< 0.010 U
11141-16-5	Aroclor 1232	0.010	< 0.010 U
37324-23-5	Aroclor 1262	0.010	< 0.010 U
11100-14-4	Aroclor 1268	0.010	< 0.010 U

Reported in µg/L (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	64.0%
Tetrachlorometaxylene	55.5%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: JF-T1B1-SO-13-R
SAMPLE

Lab Sample ID: SE82AA
LIMS ID: 11-874
Matrix: Water
Data Release Authorized:
Reported: 01/26/11

QC Report No: SE82-The Boeing Company
Project: Jorgenson Forge
7KPL2JDR
Date Sampled: 01/14/11
Date Received: 01/14/11

Date Extracted: 01/18/11
Date Analyzed: 01/22/11 23:25
Instrument/Analyst: ECD7/AAR
GPC Cleanup: No
Sulfur Cleanup: Yes

Sample Amount: 1000 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00
Silica Gel: Yes
Acid Cleanup: Yes

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	0.010	< 0.010 U
53469-21-9	Aroclor 1242	0.010	< 0.010 U
12672-29-6	Aroclor 1248	0.010	< 0.010 U
11097-69-1	Aroclor 1254	0.010	< 0.010 U
11096-82-5	Aroclor 1260	0.010	< 0.010 U
11104-28-2	Aroclor 1221	0.010	< 0.010 U
11141-16-5	Aroclor 1232	0.010	< 0.010 U
37324-23-5	Aroclor 1262	0.010	< 0.010 U
11100-14-4	Aroclor 1268	0.010	< 0.010 U

Reported in µg/L (ppb)

PCB Surrogate Recovery	
Decachlorobiphenyl	62.5%
Tetrachlorometaxylene	59.8%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: MB-011811
METHOD BLANK

Lab Sample ID: MB-011811
LIMS ID: 11-870
Matrix: Water
Data Release Authorized:
Reported: 01/26/11

QC Report No: SE82-The Boeing Company
Project: Jorgenson Forge
7KPL2JDR
Date Sampled: NA
Date Received: NA

Date Extracted: 01/18/11
Date Analyzed: 01/22/11 17:05
Instrument/Analyst: ECD7/AAR
GPC Cleanup: No
Sulfur Cleanup: Yes

Sample Amount: 1000 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00
Silica Gel: Yes
Acid Cleanup: Yes

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	0.010	< 0.010 U
53469-21-9	Aroclor 1242	0.010	< 0.010 U
12672-29-6	Aroclor 1248	0.010	< 0.010 U
11097-69-1	Aroclor 1254	0.010	< 0.010 U
11096-82-5	Aroclor 1260	0.010	< 0.010 U
11104-28-2	Aroclor 1221	0.010	< 0.010 U
11141-16-5	Aroclor 1232	0.010	< 0.010 U
37324-23-5	Aroclor 1262	0.010	< 0.010 U
11100-14-4	Aroclor 1268	0.010	< 0.010 U

Reported in µg/L (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	72.2%
Tetrachlorometaxylene	59.0%

ANALYTICAL RESOURCES INCORPORATED

SW8082/PCB WATER SURROGATE RECOVERY SUMMARY

Matrix: Water

QC Report No: SE82-The Boeing Company
Project: Jorgenson Forge
7KPL2JDR

Client ID	DCBP % REC	DCBP LCL-UCL	TCMX % REC	TCMX LCL-UCL	TOT OUT
MB-011811	72.2%	32-108	59.0%	31-100	0
LCS-011811	77.8%	32-108	62.8%	31-100	0
LCSD-011811	70.5%	32-108	58.0%	31-100	0
JF-T1B2-GW-15	73.0%	19-111	55.8%	21-100	0
JF-T1B3-GW-20	69.5%	19-111	56.2%	21-100	0
JF-T1B4-GW-20	65.8%	19-111	52.2%	21-100	0
JF-T3B2-GW-15	64.0%	19-111	55.5%	21-100	0
JF-T1B1-SO-13-R	62.5%	19-111	59.8%	21-100	0

Prep Method: SW3510C
Log Number Range: 11-870 to 11-874

FORM-II SW8082

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: LCS-011811
LCS/LCSD

Lab Sample ID: LCS-011811
LIMS ID: 11-870
Matrix: Water
Data Release Authorized:
Reported: 01/26/11

QC Report No: SE82-The Boeing Company
Project: Jorgenson Forge
7KPL2JDR
Date Sampled: NA
Date Received: NA

Date Extracted LCS/LCSD: 01/18/11

Date Analyzed LCS: 01/22/11 17:29
LCSD: 01/22/11 17:52
Instrument/Analyst LCS: ECD7/AAR
LCSD: ECD7/AAR
GPC Cleanup: No
Sulfur Cleanup: Yes

Sample Amount LCS: 1000 mL
LCSD: 1000 mL
Final Extract Volume LCS: 0.50 mL
LCSD: 0.50 mL
Dilution Factor LCS: 1.00
LCSD: 1.00
Silica Gel: Yes
Acid Cleanup: Yes

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Aroclor 1016	0.041	0.050	82.0%	0.039	0.050	78.0%	5.0%
Aroclor 1260	0.042	0.050	84.0%	0.040	0.050	80.0%	4.9%

PCB Surrogate Recovery

	LCS	LCSD
Decachlorobiphenyl	77.8%	70.5%
Tetrachlorometaxylene	62.8%	58.0%

Results reported in µg/L
RPD calculated using sample concentrations per SW846.

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: JF-T1B2-GW-15**
 SAMPLE

Lab Sample ID: SE82W
LIMS ID: 11-870
Matrix: Water
Data Release Authorized:
Reported: 01/19/11

QC Report No: SE82-The Boeing Company
Project: Jorgenson Forge
7KPL2JDR
Date Sampled: 01/14/11
Date Received: 01/14/11

Instrument/Analyst: NT5/PAB
Date Analyzed: 01/17/11 14:36

Sample Amount: 10.0 mL
Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result	Q
74-87-3	Chloromethane	0.5	< 0.5	U
74-83-9	Bromomethane	1.0	< 1.0	U
75-01-4	Vinyl Chloride	0.2	< 0.2	U
75-00-3	Chloroethane	0.2	< 0.2	U
75-09-2	Methylene Chloride	0.5	< 0.5	U
67-64-1	Acetone	5.0	< 5.0	U
75-15-0	Carbon Disulfide	0.2	< 0.2	U
75-35-4	1,1-Dichloroethene	0.2	< 0.2	U
75-34-3	1,1-Dichloroethane	0.2	< 0.2	U
156-60-5	**trans-1,2-Dichloroethene**	**0.2**	**0.5**	
156-59-2	**cis-1,2-Dichloroethene**	**0.2**	**14**	
67-66-3	**Chloroform**	**0.2**	**0.5**	
107-06-2	1,2-Dichloroethane	0.2	< 0.2	U
78-93-3	2-Butanone	5.0	< 5.0	U
71-55-6	**1,1,1-Trichloroethane**	**0.2**	**0.3**	
56-23-5	Carbon Tetrachloride	0.2	< 0.2	U
108-05-4	Vinyl Acetate	1.0	< 1.0	U
75-27-4	Bromodichloromethane	0.2	< 0.2	U
78-87-5	1,2-Dichloropropane	0.2	< 0.2	U
10061-01-5	cis-1,3-Dichloropropene	0.2	< 0.2	U
79-01-6	**Trichloroethene**	**0.2**	**100**	**E**
124-48-1	Dibromochloromethane	0.2	< 0.2	U
79-00-5	1,1,2-Trichloroethane	0.2	< 0.2	U
71-43-2	Benzene	0.2	< 0.2	U
10061-02-6	trans-1,3-Dichloropropene	0.2	< 0.2	U
110-75-8	2-Chloroethylvinylether	1.0	< 1.0	U
75-25-2	Bromoform	0.2	< 0.2	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.0	< 5.0	U
591-78-6	2-Hexanone	5.0	< 5.0	U
127-18-4	**Tetrachloroethene**	**0.2**	**1.2**	
79-34-5	1,1,2,2-Tetrachloroethane	0.2	< 0.2	U
108-88-3	Toluene	0.2	< 0.2	U
108-90-7	Chlorobenzene	0.2	< 0.2	U
100-41-4	Ethylbenzene	0.2	< 0.2	U
100-42-5	Styrene	0.2	< 0.2	U
75-69-4	Trichlorofluoromethane	0.2	< 0.2	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	0.2	< 0.2	U
179601-23-1	m,p-Xylene	0.4	< 0.4	U
95-47-6	o-Xylene	0.2	< 0.2	U
95-50-1	1,2-Dichlorobenzene	0.2	< 0.2	U
541-73-1	1,3-Dichlorobenzene	0.2	< 0.2	U
106-46-7	1,4-Dichlorobenzene	0.2	< 0.2	U
107-02-8	Acrolein	5.0	< 5.0	U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: JF-T1B2-GW-15**
 SAMPLE

Lab Sample ID: SE82W
LIMS ID: 11-870
Matrix: Water
Date Analyzed: 01/17/11 14:36

QC Report No: SE82-The Boeing Company
Project: Jorgenson Forge
7KPL2JDR

CAS Number	Analyte	RL	Result	Q
74-88-4	Methyl Iodide	1.0	< 1.0	U
74-96-4	Bromoethane	0.2	< 0.2	U
107-13-1	Acrylonitrile	1.0	< 1.0	U
563-58-6	1,1-Dichloropropene	0.2	< 0.2	U
74-95-3	Dibromomethane	0.2	< 0.2	U
630-20-6	1,1,1,2-Tetrachloroethane	0.2	< 0.2	U
96-12-8	1,2-Dibromo-3-chloropropane	0.5	< 0.5	U
96-18-4	1,2,3-Trichloropropane	0.5	< 0.5	U
110-57-6	trans-1,4-Dichloro-2-butene	1.0	< 1.0	U
108-67-8	1,3,5-Trimethylbenzene	0.2	< 0.2	U
95-63-6	1,2,4-Trimethylbenzene	0.2	< 0.2	U
87-68-3	Hexachlorobutadiene	0.5	< 0.5	U
106-93-4	Ethylene Dibromide	0.2	< 0.2	U
74-97-5	Bromochloromethane	0.2	< 0.2	U
594-20-7	2,2-Dichloropropane	0.2	< 0.2	U
142-28-9	1,3-Dichloropropane	0.2	< 0.2	U
98-82-8	Isopropylbenzene	0.2	< 0.2	U
103-65-1	n-Propylbenzene	0.2	< 0.2	U
108-86-1	Bromobenzene	0.2	< 0.2	U
95-49-8	2-Chlorotoluene	0.2	< 0.2	U
106-43-4	4-Chlorotoluene	0.2	< 0.2	U
98-06-6	tert-Butylbenzene	0.2	< 0.2	U
135-98-8	sec-Butylbenzene	0.2	< 0.2	U
99-87-6	4-Isopropyltoluene	0.2	< 0.2	U
104-51-8	n-Butylbenzene	0.2	< 0.2	U
120-82-1	1,2,4-Trichlorobenzene	0.5	< 0.5	U
91-20-3	Naphthalene	0.5	< 0.5	U
87-61-6	1,2,3-Trichlorobenzene	0.5	< 0.5	U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	95.5%
d8-Toluene	91.1%
Bromofluorobenzene	88.7%
d4-1,2-Dichlorobenzene	97.5%

2-Chloroethylvinylether is an acid labile compound and may not be recovered from an acid preserved sample.

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: JF-T1B2-GW-15**
 DILUTION

Lab Sample ID: SE82W
LIMS ID: 11-870
Matrix: Water
Data Release Authorized:
Reported: 01/19/11

QC Report No: SE82-The Boeing Company
Project: Jorgenson Forge
7KPL2JDR
Date Sampled: 01/14/11
Date Received: 01/14/11

Instrument/Analyst: NT5/PAB
Date Analyzed: 01/18/11 12:03

Sample Amount: 2.00 mL
Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result	Q
74-87-3	Chloromethane	2.5	< 2.5	U
74-83-9	Bromomethane	5.0	< 5.0	U
75-01-4	Vinyl Chloride	1.0	< 1.0	U
75-00-3	Chloroethane	1.0	< 1.0	U
75-09-2	Methylene Chloride	2.5	< 2.5	U
67-64-1	Acetone	25	< 25	U
75-15-0	Carbon Disulfide	1.0	< 1.0	U
75-35-4	1,1-Dichloroethene	1.0	< 1.0	U
75-34-3	1,1-Dichloroethane	1.0	< 1.0	U
156-60-5	trans-1,2-Dichloroethene	1.0	< 1.0	U
156-59-2	**cis-1,2-Dichloroethene**	**1.0**	**14**	
67-66-3	Chloroform	1.0	< 1.0	U
107-06-2	1,2-Dichloroethane	1.0	< 1.0	U
78-93-3	2-Butanone	25	< 25	U
71-55-6	1,1,1-Trichloroethane	1.0	< 1.0	U
56-23-5	Carbon Tetrachloride	1.0	< 1.0	U
108-05-4	Vinyl Acetate	5.0	< 5.0	U
75-27-4	Bromodichloromethane	1.0	< 1.0	U
78-87-5	1,2-Dichloropropane	1.0	< 1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	< 1.0	U
79-01-6	**Trichloroethene**	**1.0**	**130**	
124-48-1	Dibromochloromethane	1.0	< 1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	< 1.0	U
71-43-2	Benzene	1.0	< 1.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	< 1.0	U
110-75-8	2-Chloroethylvinylether	5.0	< 5.0	U
75-25-2	Bromoform	1.0	< 1.0	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	25	< 25	U
591-78-6	2-Hexanone	25	< 25	U
127-18-4	**Tetrachloroethene**	**1.0**	**1.2**	
79-34-5	1,1,2,2-Tetrachloroethane	1.0	< 1.0	U
108-88-3	Toluene	1.0	< 1.0	U
108-90-7	Chlorobenzene	1.0	< 1.0	U
100-41-4	Ethylbenzene	1.0	< 1.0	U
100-42-5	Styrene	1.0	< 1.0	U
75-69-4	Trichlorofluoromethane	1.0	< 1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	1.0	< 1.0	U
179601-23-1	m,p-Xylene	2.0	< 2.0	U
95-47-6	o-Xylene	1.0	< 1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	< 1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	< 1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	< 1.0	U
107-02-8	Acrolein	25	< 25	U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: JF-T1B2-GW-15**
 DILUTION

Lab Sample ID: SE82W
LIMS ID: 11-870
Matrix: Water
Date Analyzed: 01/18/11 12:03

QC Report No: SE82-The Boeing Company
Project: Jorgenson Forge
7KPL2JDR

CAS Number	Analyte	RL	Result	Q
74-88-4	Methyl Iodide	5.0	< 5.0	U
74-96-4	Bromoethane	1.0	< 1.0	U
107-13-1	Acrylonitrile	5.0	< 5.0	U
563-58-6	1,1-Dichloropropene	1.0	< 1.0	U
74-95-3	Dibromomethane	1.0	< 1.0	U
630-20-6	1,1,1,2-Tetrachloroethane	1.0	< 1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	2.5	< 2.5	U
96-18-4	1,2,3-Trichloropropane	2.5	< 2.5	U
110-57-6	trans-1,4-Dichloro-2-butene	5.0	< 5.0	U
108-67-8	1,3,5-Trimethylbenzene	1.0	< 1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	< 1.0	U
87-68-3	Hexachlorobutadiene	2.5	< 2.5	U
106-93-4	Ethylene Dibromide	1.0	< 1.0	U
74-97-5	Bromochloromethane	1.0	< 1.0	U
594-20-7	2,2-Dichloropropane	1.0	< 1.0	U
142-28-9	1,3-Dichloropropane	1.0	< 1.0	U
98-82-8	Isopropylbenzene	1.0	< 1.0	U
103-65-1	n-Propylbenzene	1.0	< 1.0	U
108-86-1	Bromobenzene	1.0	< 1.0	U
95-49-8	2-Chlorotoluene	1.0	< 1.0	U
106-43-4	4-Chlorotoluene	1.0	< 1.0	U
98-06-6	tert-Butylbenzene	1.0	< 1.0	U
135-98-8	sec-Butylbenzene	1.0	< 1.0	U
99-87-6	4-Isopropyltoluene	1.0	< 1.0	U
104-51-8	n-Butylbenzene	1.0	< 1.0	U
120-82-1	1,2,4-Trichlorobenzene	2.5	< 2.5	U
91-20-3	Naphthalene	2.5	< 2.5	U
87-61-6	1,2,3-Trichlorobenzene	2.5	< 2.5	U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	94.8%
d8-Toluene	91.1%
Bromofluorobenzene	89.9%
d4-1,2-Dichlorobenzene	98.2%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: JF-T1B3-GW-20**
 SAMPLE

Lab Sample ID: SE82X
LIMS ID: 11-871
Matrix: Water
Data Release Authorized:
Reported: 01/19/11

QC Report No: SE82-The Boeing Company
Project: Jorgenson Forge
7KPL2JDR
Date Sampled: 01/14/11
Date Received: 01/14/11

Instrument/Analyst: NT5/PAB
Date Analyzed: 01/18/11 12:30

Sample Amount: 10.0 mL
Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result	Q
74-87-3	Chloromethane	0.5	< 0.5	U
74-83-9	Bromomethane	1.0	< 1.0	U
75-01-4	Vinyl Chloride	0.2	< 0.2	U
75-00-3	Chloroethane	0.2	< 0.2	U
75-09-2	Methylene Chloride	0.5	< 0.5	U
67-64-1	Acetone	5.0	< 5.0	U
75-15-0	Carbon Disulfide	0.2	< 0.2	U
75-35-4	1,1-Dichloroethene	0.2	< 0.2	U
75-34-3	1,1-Dichloroethane	0.2	< 0.2	U
156-60-5	**trans-1,2-Dichloroethene**	**0.2**	**0.2**	
156-59-2	**cis-1,2-Dichloroethene**	**0.2**	**1.5**	
67-66-3	Chloroform	0.2	< 0.2	U
107-06-2	1,2-Dichloroethane	0.2	< 0.2	U
78-93-3	2-Butanone	5.0	< 5.0	U
71-55-6	1,1,1-Trichloroethane	0.2	< 0.2	U
56-23-5	Carbon Tetrachloride	0.2	< 0.2	U
108-05-4	Vinyl Acetate	1.0	< 1.0	U
75-27-4	Bromodichloromethane	0.2	< 0.2	U
78-87-5	1,2-Dichloropropane	0.2	< 0.2	U
10061-01-5	cis-1,3-Dichloropropene	0.2	< 0.2	U
79-01-6	**Trichloroethene**	**0.2**	**3.1**	
124-48-1	Dibromochloromethane	0.2	< 0.2	U
79-00-5	1,1,2-Trichloroethane	0.2	< 0.2	U
71-43-2	Benzene	0.2	< 0.2	U
10061-02-6	trans-1,3-Dichloropropene	0.2	< 0.2	U
110-75-8	2-Chloroethylvinylether	1.0	< 1.0	U
75-25-2	Bromoform	0.2	< 0.2	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.0	< 5.0	U
591-78-6	2-Hexanone	5.0	< 5.0	U
127-18-4	Tetrachloroethene	0.2	< 0.2	U
79-34-5	1,1,2,2-Tetrachloroethane	0.2	< 0.2	U
108-88-3	Toluene	0.2	< 0.2	U
108-90-7	Chlorobenzene	0.2	< 0.2	U
100-41-4	Ethylbenzene	0.2	< 0.2	U
100-42-5	Styrene	0.2	< 0.2	U
75-69-4	Trichlorofluoromethane	0.2	< 0.2	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	0.2	< 0.2	U
179601-23-1	m,p-Xylene	0.4	< 0.4	U
95-47-6	o-Xylene	0.2	< 0.2	U
95-50-1	1,2-Dichlorobenzene	0.2	< 0.2	U
541-73-1	1,3-Dichlorobenzene	0.2	< 0.2	U
106-46-7	1,4-Dichlorobenzene	0.2	< 0.2	U
107-02-8	Acrolein	5.0	< 5.0	U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: JF-T1B3-GW-20**
 SAMPLE

Lab Sample ID: SE82X
LIMS ID: 11-871
Matrix: Water
Date Analyzed: 01/18/11 12:30

QC Report No: SE82-The Boeing Company
Project: Jorgenson Forge
7KPL2JDR

CAS Number	Analyte	RL	Result	Q
74-88-4	Methyl Iodide	1.0	< 1.0	U
74-96-4	Bromoethane	0.2	< 0.2	U
107-13-1	Acrylonitrile	1.0	< 1.0	U
563-58-6	1,1-Dichloropropene	0.2	< 0.2	U
74-95-3	Dibromomethane	0.2	< 0.2	U
630-20-6	1,1,1,2-Tetrachloroethane	0.2	< 0.2	U
96-12-8	1,2-Dibromo-3-chloropropane	0.5	< 0.5	U
96-18-4	1,2,3-Trichloropropane	0.5	< 0.5	U
110-57-6	trans-1,4-Dichloro-2-butene	1.0	< 1.0	U
108-67-8	1,3,5-Trimethylbenzene	0.2	< 0.2	U
95-63-6	1,2,4-Trimethylbenzene	0.2	< 0.2	U
87-68-3	Hexachlorobutadiene	0.5	< 0.5	U
106-93-4	Ethylene Dibromide	0.2	< 0.2	U
74-97-5	Bromochloromethane	0.2	< 0.2	U
594-20-7	2,2-Dichloropropane	0.2	< 0.2	U
142-28-9	1,3-Dichloropropane	0.2	< 0.2	U
98-82-8	Isopropylbenzene	0.2	< 0.2	U
103-65-1	n-Propylbenzene	0.2	< 0.2	U
108-86-1	Bromobenzene	0.2	< 0.2	U
95-49-8	2-Chlorotoluene	0.2	< 0.2	U
106-43-4	4-Chlorotoluene	0.2	< 0.2	U
98-06-6	tert-Butylbenzene	0.2	< 0.2	U
135-98-8	sec-Butylbenzene	0.2	< 0.2	U
99-87-6	4-Isopropyltoluene	0.2	< 0.2	U
104-51-8	n-Butylbenzene	0.2	< 0.2	U
120-82-1	1,2,4-Trichlorobenzene	0.5	< 0.5	U
91-20-3	Naphthalene	0.5	< 0.5	U
87-61-6	1,2,3-Trichlorobenzene	0.5	< 0.5	U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	97.8%
d8-Toluene	93.9%
Bromofluorobenzene	89.2%
d4-1,2-Dichlorobenzene	98.8%

2-Chloroethylvinylether is an acid labile compound and may not be recovered from an acid preserved sample.

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: JF-T1B4-GW-20**
 SAMPLE

Lab Sample ID: SE82Y
LIMS ID: 11-872
Matrix: Water
Data Release Authorized:
Reported: 01/19/11

QC Report No: SE82-The Boeing Company
Project: Jorgenson Forge
7KPL2JDR
Date Sampled: 01/14/11
Date Received: 01/14/11

Instrument/Analyst: NT5/PAB
Date Analyzed: 01/17/11 15:31

Sample Amount: 10.0 mL
Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result	Q
74-87-3	Chloromethane	0.5	< 0.5	U
74-83-9	Bromomethane	1.0	< 1.0	U
75-01-4	Vinyl Chloride	0.2	< 0.2	U
75-00-3	Chloroethane	0.2	< 0.2	U
75-09-2	Methylene Chloride	0.5	< 0.5	U
67-64-1	Acetone	5.0	< 5.0	U
75-15-0	Carbon Disulfide	0.2	< 0.2	U
75-35-4	1,1-Dichloroethene	0.2	< 0.2	U
75-34-3	1,1-Dichloroethane	0.2	< 0.2	U
156-60-5	**trans-1,2-Dichloroethene**	**0.2**	**0.2**	
156-59-2	**cis-1,2-Dichloroethene**	**0.2**	**3.0**	
67-66-3	Chloroform	0.2	< 0.2	U
107-06-2	1,2-Dichloroethane	0.2	< 0.2	U
78-93-3	2-Butanone	5.0	< 5.0	U
71-55-6	1,1,1-Trichloroethane	0.2	< 0.2	U
56-23-5	Carbon Tetrachloride	0.2	< 0.2	U
108-05-4	Vinyl Acetate	1.0	< 1.0	U
75-27-4	Bromodichloromethane	0.2	< 0.2	U
78-87-5	1,2-Dichloropropane	0.2	< 0.2	U
10061-01-5	cis-1,3-Dichloropropene	0.2	< 0.2	U
79-01-6	**Trichloroethene**	**0.2**	**5.2**	
124-48-1	Dibromochloromethane	0.2	< 0.2	U
79-00-5	1,1,2-Trichloroethane	0.2	< 0.2	U
71-43-2	Benzene	0.2	< 0.2	U
10061-02-6	trans-1,3-Dichloropropene	0.2	< 0.2	U
110-75-8	2-Chloroethylvinylether	1.0	< 1.0	U
75-25-2	Bromoform	0.2	< 0.2	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.0	< 5.0	U
591-78-6	2-Hexanone	5.0	< 5.0	U
127-18-4	Tetrachloroethene	0.2	< 0.2	U
79-34-5	1,1,2,2-Tetrachloroethane	0.2	< 0.2	U
108-88-3	Toluene	0.2	< 0.2	U
108-90-7	Chlorobenzene	0.2	< 0.2	U
100-41-4	Ethylbenzene	0.2	< 0.2	U
100-42-5	Styrene	0.2	< 0.2	U
75-69-4	Trichlorofluoromethane	0.2	< 0.2	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	0.2	< 0.2	U
179601-23-1	m,p-Xylene	0.4	< 0.4	U
95-47-6	o-Xylene	0.2	< 0.2	U
95-50-1	1,2-Dichlorobenzene	0.2	< 0.2	U
541-73-1	1,3-Dichlorobenzene	0.2	< 0.2	U
106-46-7	1,4-Dichlorobenzene	0.2	< 0.2	U
107-02-8	Acrolein	5.0	< 5.0	U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: JF-T1B4-GW-20**
 SAMPLE

Lab Sample ID: SE82Y
LIMS ID: 11-872
Matrix: Water
Date Analyzed: 01/17/11 15:31

QC Report No: SE82-The Boeing Company
Project: Jorgenson Forge
7KPL2JDR

CAS Number	Analyte	RL	Result	Q
74-88-4	Methyl Iodide	1.0	< 1.0	U
74-96-4	Bromoethane	0.2	< 0.2	U
107-13-1	Acrylonitrile	1.0	< 1.0	U
563-58-6	1,1-Dichloropropene	0.2	< 0.2	U
74-95-3	Dibromomethane	0.2	< 0.2	U
630-20-6	1,1,1,2-Tetrachloroethane	0.2	< 0.2	U
96-12-8	1,2-Dibromo-3-chloropropane	0.5	< 0.5	U
96-18-4	1,2,3-Trichloropropane	0.5	< 0.5	U
110-57-6	trans-1,4-Dichloro-2-butene	1.0	< 1.0	U
108-67-8	1,3,5-Trimethylbenzene	0.2	< 0.2	U
95-63-6	1,2,4-Trimethylbenzene	0.2	< 0.2	U
87-68-3	Hexachlorobutadiene	0.5	< 0.5	U
106-93-4	Ethylene Dibromide	0.2	< 0.2	U
74-97-5	Bromochloromethane	0.2	< 0.2	U
594-20-7	2,2-Dichloropropane	0.2	< 0.2	U
142-28-9	1,3-Dichloropropane	0.2	< 0.2	U
98-82-8	Isopropylbenzene	0.2	< 0.2	U
103-65-1	n-Propylbenzene	0.2	< 0.2	U
108-86-1	Bromobenzene	0.2	< 0.2	U
95-49-8	2-Chlorotoluene	0.2	< 0.2	U
106-43-4	4-Chlorotoluene	0.2	< 0.2	U
98-06-6	tert-Butylbenzene	0.2	< 0.2	U
135-98-8	sec-Butylbenzene	0.2	< 0.2	U
99-87-6	4-Isopropyltoluene	0.2	< 0.2	U
104-51-8	n-Butylbenzene	0.2	< 0.2	U
120-82-1	1,2,4-Trichlorobenzene	0.5	< 0.5	U
91-20-3	Naphthalene	0.5	< 0.5	U
87-61-6	1,2,3-Trichlorobenzene	0.5	< 0.5	U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	100%
d8-Toluene	93.4%
Bromofluorobenzene	87.4%
d4-1,2-Dichlorobenzene	99.7%

2-Chloroethylvinylether is an acid labile compound and may not be recovered from an acid preserved sample.

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: JF-T3B2-GW-15**
 SAMPLE

Lab Sample ID: SE82Z
LIMS ID: 11-873
Matrix: Water
Data Release Authorized:
Reported: 01/19/11

QC Report No: SE82-The Boeing Company
Project: Jorgenson Forge
7KPL2JDR
Date Sampled: 01/14/11
Date Received: 01/14/11

Instrument/Analyst: NT5/PAB
Date Analyzed: 01/17/11 15:58

Sample Amount: 10.0 mL
Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result	Q
74-87-3	Chloromethane	0.5	< 0.5	U
74-83-9	Bromomethane	1.0	< 1.0	U
75-01-4	**Vinyl Chloride**	**0.2**	**0.6**	
75-00-3	Chloroethane	0.2	< 0.2	U
75-09-2	Methylene Chloride	0.5	< 0.5	U
67-64-1	Acetone	5.0	< 5.0	U
75-15-0	Carbon Disulfide	0.2	< 0.2	U
75-35-4	1,1-Dichloroethene	0.2	< 0.2	U
75-34-3	1,1-Dichloroethane	0.2	< 0.2	U
156-60-5	trans-1,2-Dichloroethene	0.2	< 0.2	U
156-59-2	**cis-1,2-Dichloroethene**	**0.2**	**2.9**	
67-66-3	Chloroform	0.2	< 0.2	U
107-06-2	1,2-Dichloroethane	0.2	< 0.2	U
78-93-3	2-Butanone	5.0	< 5.0	U
71-55-6	1,1,1-Trichloroethane	0.2	< 0.2	U
56-23-5	Carbon Tetrachloride	0.2	< 0.2	U
108-05-4	Vinyl Acetate	1.0	< 1.0	U
75-27-4	Bromodichloromethane	0.2	< 0.2	U
78-87-5	1,2-Dichloropropane	0.2	< 0.2	U
10061-01-5	cis-1,3-Dichloropropene	0.2	< 0.2	U
79-01-6	**Trichloroethene**	**0.2**	**6.4**	
124-48-1	Dibromochloromethane	0.2	< 0.2	U
79-00-5	1,1,2-Trichloroethane	0.2	< 0.2	U
71-43-2	Benzene	0.2	< 0.2	U
10061-02-6	trans-1,3-Dichloropropene	0.2	< 0.2	U
110-75-8	2-Chloroethylvinylether	1.0	< 1.0	U
75-25-2	Bromoform	0.2	< 0.2	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.0	< 5.0	U
591-78-6	2-Hexanone	5.0	< 5.0	U
127-18-4	Tetrachloroethene	0.2	< 0.2	U
79-34-5	1,1,2,2-Tetrachloroethane	0.2	< 0.2	U
108-88-3	Toluene	0.2	< 0.2	U
108-90-7	Chlorobenzene	0.2	< 0.2	U
100-41-4	Ethylbenzene	0.2	< 0.2	U
100-42-5	Styrene	0.2	< 0.2	U
75-69-4	Trichlorofluoromethane	0.2	< 0.2	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	0.2	< 0.2	U
179601-23-1	m,p-Xylene	0.4	< 0.4	U
95-47-6	o-Xylene	0.2	< 0.2	U
95-50-1	1,2-Dichlorobenzene	0.2	< 0.2	U
541-73-1	1,3-Dichlorobenzene	0.2	< 0.2	U
106-46-7	1,4-Dichlorobenzene	0.2	< 0.2	U
107-02-8	Acrolein	5.0	< 5.0	U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: JF-T3B2-GW-15**
 SAMPLE

Lab Sample ID: SE82Z
LIMS ID: 11-873
Matrix: Water
Date Analyzed: 01/17/11 15:58

QC Report No: SE82-The Boeing Company
Project: Jorgenson Forge
7KPL2JDR

CAS Number	Analyte	RL	Result	Q
74-88-4	Methyl Iodide	1.0	< 1.0	U
74-96-4	Bromoethane	0.2	< 0.2	U
107-13-1	Acrylonitrile	1.0	< 1.0	U
563-58-6	1,1-Dichloropropene	0.2	< 0.2	U
74-95-3	Dibromomethane	0.2	< 0.2	U
630-20-6	1,1,1,2-Tetrachloroethane	0.2	< 0.2	U
96-12-8	1,2-Dibromo-3-chloropropane	0.5	< 0.5	U
96-18-4	1,2,3-Trichloropropane	0.5	< 0.5	U
110-57-6	trans-1,4-Dichloro-2-butene	1.0	< 1.0	U
108-67-8	1,3,5-Trimethylbenzene	0.2	< 0.2	U
95-63-6	1,2,4-Trimethylbenzene	0.2	< 0.2	U
87-68-3	Hexachlorobutadiene	0.5	< 0.5	U
106-93-4	Ethylene Dibromide	0.2	< 0.2	U
74-97-5	Bromochloromethane	0.2	< 0.2	U
594-20-7	2,2-Dichloropropane	0.2	< 0.2	U
142-28-9	1,3-Dichloropropane	0.2	< 0.2	U
98-82-8	Isopropylbenzene	0.2	< 0.2	U
103-65-1	n-Propylbenzene	0.2	< 0.2	U
108-86-1	Bromobenzene	0.2	< 0.2	U
95-49-8	2-Chlorotoluene	0.2	< 0.2	U
106-43-4	4-Chlorotoluene	0.2	< 0.2	U
98-06-6	tert-Butylbenzene	0.2	< 0.2	U
135-98-8	sec-Butylbenzene	0.2	< 0.2	U
99-87-6	4-Isopropyltoluene	0.2	< 0.2	U
104-51-8	n-Butylbenzene	0.2	< 0.2	U
120-82-1	1,2,4-Trichlorobenzene	0.5	< 0.5	U
91-20-3	Naphthalene	0.5	< 0.5	U
87-61-6	1,2,3-Trichlorobenzene	0.5	< 0.5	U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	98.7%
d8-Toluene	90.4%
Bromofluorobenzene	87.0%
d4-1,2-Dichlorobenzene	103%

2-Chloroethylvinylether is an acid labile compound and may not be recovered from an acid preserved sample.

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: JF-T1B1-SO-13-R**
 SAMPLE

Lab Sample ID: SE82AA
LIMS ID: 11-874
Matrix: Water
Data Release Authorized:
Reported: 01/19/11

QC Report No: SE82-The Boeing Company
Project: Jorgenson Forge
7KPL2JDR
Date Sampled: 01/14/11
Date Received: 01/14/11

Instrument/Analyst: NT5/PAB
Date Analyzed: 01/17/11 16:25

Sample Amount: 10.0 mL
Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result	Q
74-87-3	Chloromethane	0.5	< 0.5	U
74-83-9	Bromomethane	1.0	< 1.0	U
75-01-4	Vinyl Chloride	0.2	< 0.2	U
75-00-3	Chloroethane	0.2	< 0.2	U
75-09-2	**Methylene Chloride**	**0.5**	**0.8**	
67-64-1	Acetone	5.0	< 5.0	U
75-15-0	Carbon Disulfide	0.2	< 0.2	U
75-35-4	1,1-Dichloroethene	0.2	< 0.2	U
75-34-3	1,1-Dichloroethane	0.2	< 0.2	U
156-60-5	trans-1,2-Dichloroethene	0.2	< 0.2	U
156-59-2	cis-1,2-Dichloroethene	0.2	< 0.2	U
67-66-3	**Chloroform**	**0.2**	**0.2**	
107-06-2	1,2-Dichloroethane	0.2	< 0.2	U
78-93-3	2-Butanone	5.0	< 5.0	U
71-55-6	1,1,1-Trichloroethane	0.2	< 0.2	U
56-23-5	Carbon Tetrachloride	0.2	< 0.2	U
108-05-4	Vinyl Acetate	1.0	< 1.0	U
75-27-4	Bromodichloromethane	0.2	< 0.2	U
78-87-5	1,2-Dichloropropane	0.2	< 0.2	U
10061-01-5	cis-1,3-Dichloropropene	0.2	< 0.2	U
79-01-6	Trichloroethene	0.2	< 0.2	U
124-48-1	Dibromochloromethane	0.2	< 0.2	U
79-00-5	1,1,2-Trichloroethane	0.2	< 0.2	U
71-43-2	Benzene	0.2	< 0.2	U
10061-02-6	trans-1,3-Dichloropropene	0.2	< 0.2	U
110-75-8	2-Chloroethylvinylether	1.0	< 1.0	U
75-25-2	Bromoform	0.2	< 0.2	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.0	< 5.0	U
591-78-6	2-Hexanone	5.0	< 5.0	U
127-18-4	Tetrachloroethene	0.2	< 0.2	U
79-34-5	1,1,2,2-Tetrachloroethane	0.2	< 0.2	U
108-88-3	Toluene	0.2	< 0.2	U
108-90-7	Chlorobenzene	0.2	< 0.2	U
100-41-4	Ethylbenzene	0.2	< 0.2	U
100-42-5	Styrene	0.2	< 0.2	U
75-69-4	Trichlorofluoromethane	0.2	< 0.2	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	0.2	< 0.2	U
179601-23-1	m,p-Xylene	0.4	< 0.4	U
95-47-6	o-Xylene	0.2	< 0.2	U
95-50-1	1,2-Dichlorobenzene	0.2	< 0.2	U
541-73-1	1,3-Dichlorobenzene	0.2	< 0.2	U
106-46-7	1,4-Dichlorobenzene	0.2	< 0.2	U
107-02-8	Acrolein	5.0	< 5.0	U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: JF-T1B1-SO-13-R**
 SAMPLE

Lab Sample ID: SE82AA
LIMS ID: 11-874
Matrix: Water
Date Analyzed: 01/17/11 16:25

QC Report No: SE82-The Boeing Company
Project: *Jorgenson Forge*
7KPL2JDR

CAS Number	Analyte	RL	Result	Q
74-88-4	Methyl Iodide	1.0	< 1.0	U
74-96-4	Bromoethane	0.2	< 0.2	U
107-13-1	Acrylonitrile	1.0	< 1.0	U
563-58-6	1,1-Dichloropropene	0.2	< 0.2	U
74-95-3	Dibromomethane	0.2	< 0.2	U
630-20-6	1,1,1,2-Tetrachloroethane	0.2	< 0.2	U
96-12-8	1,2-Dibromo-3-chloropropane	0.5	< 0.5	U
96-18-4	1,2,3-Trichloropropane	0.5	< 0.5	U
110-57-6	trans-1,4-Dichloro-2-butene	1.0	< 1.0	U
108-67-8	1,3,5-Trimethylbenzene	0.2	< 0.2	U
95-63-6	1,2,4-Trimethylbenzene	0.2	< 0.2	U
87-68-3	Hexachlorobutadiene	0.5	< 0.5	U
106-93-4	Ethylene Dibromide	0.2	< 0.2	U
74-97-5	Bromochloromethane	0.2	< 0.2	U
594-20-7	2,2-Dichloropropane	0.2	< 0.2	U
142-28-9	1,3-Dichloropropane	0.2	< 0.2	U
98-82-8	Isopropylbenzene	0.2	< 0.2	U
103-65-1	n-Propylbenzene	0.2	< 0.2	U
108-86-1	Bromobenzene	0.2	< 0.2	U
95-49-8	2-Chlorotoluene	0.2	< 0.2	U
106-43-4	4-Chlorotoluene	0.2	< 0.2	U
98-06-6	tert-Butylbenzene	0.2	< 0.2	U
135-98-8	sec-Butylbenzene	0.2	< 0.2	U
99-87-6	4-Isopropyltoluene	0.2	< 0.2	U
104-51-8	n-Butylbenzene	0.2	< 0.2	U
120-82-1	1,2,4-Trichlorobenzene	0.5	< 0.5	U
91-20-3	Naphthalene	0.5	< 0.5	U
87-61-6	1,2,3-Trichlorobenzene	0.5	< 0.5	U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	98.9%
d8-Toluene	95.3%
Bromofluorobenzene	88.4%
d4-1,2-Dichlorobenzene	98.1%

2-Chloroethylvinylether is an acid labile compound and may not be recovered from an acid preserved sample.

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: Trip Blanks**
 SAMPLE

Lab Sample ID: SE82AB
LIMS ID: 11-875
Matrix: Water
Data Release Authorized:
Reported: 01/19/11

QC Report No: SE82-The Boeing Company
Project: Jorgenson Forge
7KPL2JDR
Date Sampled: 01/14/11
Date Received: 01/14/11

Instrument/Analyst: NT5/PAB
Date Analyzed: 01/17/11 16:52

Sample Amount: 10.0 mL
Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result	Q
74-87-3	Chloromethane	0.5	< 0.5	U
74-83-9	Bromomethane	1.0	< 1.0	U
75-01-4	Vinyl Chloride	0.2	< 0.2	U
75-00-3	Chloroethane	0.2	< 0.2	U
75-09-2	Methylene Chloride	0.5	< 0.5	U
67-64-1	Acetone	5.0	< 5.0	U
75-15-0	Carbon Disulfide	0.2	< 0.2	U
75-35-4	1,1-Dichloroethene	0.2	< 0.2	U
75-34-3	1,1-Dichloroethane	0.2	< 0.2	U
156-60-5	trans-1,2-Dichloroethene	0.2	< 0.2	U
156-59-2	cis-1,2-Dichloroethene	0.2	< 0.2	U
67-66-3	Chloroform	0.2	< 0.2	U
107-06-2	1,2-Dichloroethane	0.2	< 0.2	U
78-93-3	2-Butanone	5.0	< 5.0	U
71-55-6	1,1,1-Trichloroethane	0.2	< 0.2	U
56-23-5	Carbon Tetrachloride	0.2	< 0.2	U
108-05-4	Vinyl Acetate	1.0	< 1.0	U
75-27-4	Bromodichloromethane	0.2	< 0.2	U
78-87-5	1,2-Dichloropropane	0.2	< 0.2	U
10061-01-5	cis-1,3-Dichloropropene	0.2	< 0.2	U
79-01-6	Trichloroethene	0.2	< 0.2	U
124-48-1	Dibromochloromethane	0.2	< 0.2	U
79-00-5	1,1,2-Trichloroethane	0.2	< 0.2	U
71-43-2	Benzene	0.2	< 0.2	U
10061-02-6	trans-1,3-Dichloropropene	0.2	< 0.2	U
110-75-8	2-Chloroethylvinylether	1.0	< 1.0	U
75-25-2	Bromoform	0.2	< 0.2	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.0	< 5.0	U
591-78-6	2-Hexanone	5.0	< 5.0	U
127-18-4	Tetrachloroethene	0.2	< 0.2	U
79-34-5	1,1,2,2-Tetrachloroethane	0.2	< 0.2	U
108-88-3	Toluene	0.2	< 0.2	U
108-90-7	Chlorobenzene	0.2	< 0.2	U
100-41-4	Ethylbenzene	0.2	< 0.2	U
100-42-5	Styrene	0.2	< 0.2	U
75-69-4	Trichlorofluoromethane	0.2	< 0.2	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	0.2	< 0.2	U
179601-23-1	m,p-Xylene	0.4	< 0.4	U
95-47-6	o-Xylene	0.2	< 0.2	U
95-50-1	1,2-Dichlorobenzene	0.2	< 0.2	U
541-73-1	1,3-Dichlorobenzene	0.2	< 0.2	U
106-46-7	1,4-Dichlorobenzene	0.2	< 0.2	U
107-02-8	Acrolein	5.0	< 5.0	U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: Trip Blanks**
 SAMPLE

Lab Sample ID: SE82AB
LIMS ID: 11-875
Matrix: Water
Date Analyzed: 01/17/11 16:52

QC Report No: SE82-The Boeing Company
Project: Jorgenson Forge
7KPL2JDR

CAS Number	Analyte	RL	Result	Q
74-88-4	Methyl Iodide	1.0	< 1.0	U
74-96-4	Bromoethane	0.2	< 0.2	U
107-13-1	Acrylonitrile	1.0	< 1.0	U
563-58-6	1,1-Dichloropropene	0.2	< 0.2	U
74-95-3	Dibromomethane	0.2	< 0.2	U
630-20-6	1,1,1,2-Tetrachloroethane	0.2	< 0.2	U
96-12-8	1,2-Dibromo-3-chloropropane	0.5	< 0.5	U
96-18-4	1,2,3-Trichloropropane	0.5	< 0.5	U
110-57-6	trans-1,4-Dichloro-2-butene	1.0	< 1.0	U
108-67-8	1,3,5-Trimethylbenzene	0.2	< 0.2	U
95-63-6	1,2,4-Trimethylbenzene	0.2	< 0.2	U
87-68-3	Hexachlorobutadiene	0.5	< 0.5	U
106-93-4	Ethylene Dibromide	0.2	< 0.2	U
74-97-5	Bromochloromethane	0.2	< 0.2	U
594-20-7	2,2-Dichloropropane	0.2	< 0.2	U
142-28-9	1,3-Dichloropropane	0.2	< 0.2	U
98-82-8	Isopropylbenzene	0.2	< 0.2	U
103-65-1	n-Propylbenzene	0.2	< 0.2	U
108-86-1	Bromobenzene	0.2	< 0.2	U
95-49-8	2-Chlorotoluene	0.2	< 0.2	U
106-43-4	4-Chlorotoluene	0.2	< 0.2	U
98-06-6	tert-Butylbenzene	0.2	< 0.2	U
135-98-8	sec-Butylbenzene	0.2	< 0.2	U
99-87-6	4-Isopropyltoluene	0.2	< 0.2	U
104-51-8	n-Butylbenzene	0.2	< 0.2	U
120-82-1	1,2,4-Trichlorobenzene	0.5	< 0.5	U
91-20-3	Naphthalene	0.5	< 0.5	U
87-61-6	1,2,3-Trichlorobenzene	0.5	< 0.5	U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	99.5%
d8-Toluene	96.1%
Bromofluorobenzene	87.7%
d4-1,2-Dichlorobenzene	98.8%

2-Chloroethylvinylether is an acid labile compound and may not be recovered from an acid preserved sample.

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: MB-011711**
 METHOD BLANK

Lab Sample ID: MB-011711
LIMS ID: 11-873
Matrix: Water
Data Release Authorized:
Reported: 01/19/11

QC Report No: SE82-The Boeing Company
Project: Jorgenson Forge
7KPL2JDR
Date Sampled: NA
Date Received: NA

Instrument/Analyst: NT5/PAB
Date Analyzed: 01/17/11 09:05

Sample Amount: 10.0 mL
Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result	Q
74-87-3	Chloromethane	0.5	< 0.5	U
74-83-9	Bromomethane	1.0	< 1.0	U
75-01-4	Vinyl Chloride	0.2	< 0.2	U
75-00-3	Chloroethane	0.2	< 0.2	U
75-09-2	Methylene Chloride	0.5	< 0.5	U
67-64-1	Acetone	5.0	< 5.0	U
75-15-0	Carbon Disulfide	0.2	< 0.2	U
75-35-4	1,1-Dichloroethene	0.2	< 0.2	U
75-34-3	1,1-Dichloroethane	0.2	< 0.2	U
156-60-5	trans-1,2-Dichloroethene	0.2	< 0.2	U
156-59-2	cis-1,2-Dichloroethene	0.2	< 0.2	U
67-66-3	Chloroform	0.2	< 0.2	U
107-06-2	1,2-Dichloroethane	0.2	< 0.2	U
78-93-3	2-Butanone	5.0	< 5.0	U
71-55-6	1,1,1-Trichloroethane	0.2	< 0.2	U
56-23-5	Carbon Tetrachloride	0.2	< 0.2	U
108-05-4	Vinyl Acetate	1.0	< 1.0	U
75-27-4	Bromodichloromethane	0.2	< 0.2	U
78-87-5	1,2-Dichloropropane	0.2	< 0.2	U
10061-01-5	cis-1,3-Dichloropropene	0.2	< 0.2	U
79-01-6	Trichloroethene	0.2	< 0.2	U
124-48-1	Dibromochloromethane	0.2	< 0.2	U
79-00-5	1,1,2-Trichloroethane	0.2	< 0.2	U
71-43-2	Benzene	0.2	< 0.2	U
10061-02-6	trans-1,3-Dichloropropene	0.2	< 0.2	U
110-75-8	2-Chloroethylvinylether	1.0	< 1.0	U
75-25-2	Bromoform	0.2	< 0.2	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.0	< 5.0	U
591-78-6	2-Hexanone	5.0	< 5.0	U
127-18-4	Tetrachloroethene	0.2	< 0.2	U
79-34-5	1,1,2,2-Tetrachloroethane	0.2	< 0.2	U
108-88-3	Toluene	0.2	< 0.2	U
108-90-7	Chlorobenzene	0.2	< 0.2	U
100-41-4	Ethylbenzene	0.2	< 0.2	U
100-42-5	Styrene	0.2	< 0.2	U
75-69-4	Trichlorofluoromethane	0.2	< 0.2	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	0.2	< 0.2	U
179601-23-1	m,p-Xylene	0.4	< 0.4	U
95-47-6	o-Xylene	0.2	< 0.2	U
95-50-1	1,2-Dichlorobenzene	0.2	< 0.2	U
541-73-1	1,3-Dichlorobenzene	0.2	< 0.2	U
106-46-7	1,4-Dichlorobenzene	0.2	< 0.2	U
107-02-8	Acrolein	5.0	< 5.0	U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: MB-011711**
 METHOD BLANK

Lab Sample ID: MB-011711
LIMS ID: 11-873
Matrix: Water
Date Analyzed: 01/17/11 09:05

QC Report No: SE82-The Boeing Company
Project: Jorgenson Forge
7KPL2JDR

CAS Number	Analyte	RL	Result	Q
74-88-4	Methyl Iodide	1.0	< 1.0	U
74-96-4	Bromoethane	0.2	< 0.2	U
107-13-1	Acrylonitrile	1.0	< 1.0	U
563-58-6	1,1-Dichloropropene	0.2	< 0.2	U
74-95-3	Dibromomethane	0.2	< 0.2	U
630-20-6	1,1,1,2-Tetrachloroethane	0.2	< 0.2	U
96-12-8	1,2-Dibromo-3-chloropropane	0.5	< 0.5	U
96-18-4	1,2,3-Trichloropropane	0.5	< 0.5	U
110-57-6	trans-1,4-Dichloro-2-butene	1.0	< 1.0	U
108-67-8	1,3,5-Trimethylbenzene	0.2	< 0.2	U
95-63-6	1,2,4-Trimethylbenzene	0.2	< 0.2	U
87-68-3	Hexachlorobutadiene	0.5	< 0.5	U
106-93-4	Ethylene Dibromide	0.2	< 0.2	U
74-97-5	Bromochloromethane	0.2	< 0.2	U
594-20-7	2,2-Dichloropropane	0.2	< 0.2	U
142-28-9	1,3-Dichloropropane	0.2	< 0.2	U
98-82-8	Isopropylbenzene	0.2	< 0.2	U
103-65-1	n-Propylbenzene	0.2	< 0.2	U
108-86-1	Bromobenzene	0.2	< 0.2	U
95-49-8	2-Chlorotoluene	0.2	< 0.2	U
106-43-4	4-Chlorotoluene	0.2	< 0.2	U
98-06-6	tert-Butylbenzene	0.2	< 0.2	U
135-98-8	sec-Butylbenzene	0.2	< 0.2	U
99-87-6	4-Isopropyltoluene	0.2	< 0.2	U
104-51-8	n-Butylbenzene	0.2	< 0.2	U
120-82-1	1,2,4-Trichlorobenzene	0.5	< 0.5	U
91-20-3	Naphthalene	0.5	< 0.5	U
87-61-6	1,2,3-Trichlorobenzene	0.5	< 0.5	U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	96.0%
d8-Toluene	95.3%
Bromofluorobenzene	90.2%
d4-1,2-Dichlorobenzene	98.9%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: MB-011811**
 METHOD BLANK

Lab Sample ID: MB-011811
LIMS ID: 11-870
Matrix: Water
Data Release Authorized:
Reported: 01/19/11

QC Report No: SE82-The Boeing Company
Project: Jorgenson Forge
7KPL2JDR
Date Sampled: NA
Date Received: NA

Instrument/Analyst: NT5/PAB
Date Analyzed: 01/18/11 10:53

Sample Amount: 10.0 mL
Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result	Q
74-87-3	Chloromethane	0.5	< 0.5	U
74-83-9	Bromomethane	1.0	< 1.0	U
75-01-4	Vinyl Chloride	0.2	< 0.2	U
75-00-3	Chloroethane	0.2	< 0.2	U
75-09-2	Methylene Chloride	0.5	< 0.5	U
67-64-1	Acetone	5.0	< 5.0	U
75-15-0	Carbon Disulfide	0.2	< 0.2	U
75-35-4	1,1-Dichloroethene	0.2	< 0.2	U
75-34-3	1,1-Dichloroethane	0.2	< 0.2	U
156-60-5	trans-1,2-Dichloroethene	0.2	< 0.2	U
156-59-2	cis-1,2-Dichloroethene	0.2	< 0.2	U
67-66-3	Chloroform	0.2	< 0.2	U
107-06-2	1,2-Dichloroethane	0.2	< 0.2	U
78-93-3	2-Butanone	5.0	< 5.0	U
71-55-6	1,1,1-Trichloroethane	0.2	< 0.2	U
56-23-5	Carbon Tetrachloride	0.2	< 0.2	U
108-05-4	Vinyl Acetate	1.0	< 1.0	U
75-27-4	Bromodichloromethane	0.2	< 0.2	U
78-87-5	1,2-Dichloropropane	0.2	< 0.2	U
10061-01-5	cis-1,3-Dichloropropene	0.2	< 0.2	U
79-01-6	Trichloroethene	0.2	< 0.2	U
124-48-1	Dibromochloromethane	0.2	< 0.2	U
79-00-5	1,1,2-Trichloroethane	0.2	< 0.2	U
71-43-2	Benzene	0.2	< 0.2	U
10061-02-6	trans-1,3-Dichloropropene	0.2	< 0.2	U
110-75-8	2-Chloroethylvinylether	1.0	< 1.0	U
75-25-2	Bromoform	0.2	< 0.2	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.0	< 5.0	U
591-78-6	2-Hexanone	5.0	< 5.0	U
127-18-4	Tetrachloroethene	0.2	< 0.2	U
79-34-5	1,1,2,2-Tetrachloroethane	0.2	< 0.2	U
108-88-3	Toluene	0.2	< 0.2	U
108-90-7	Chlorobenzene	0.2	< 0.2	U
100-41-4	Ethylbenzene	0.2	< 0.2	U
100-42-5	Styrene	0.2	< 0.2	U
75-69-4	Trichlorofluoromethane	0.2	< 0.2	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	0.2	< 0.2	U
179601-23-1	m,p-Xylene	0.4	< 0.4	U
95-47-6	o-Xylene	0.2	< 0.2	U
95-50-1	1,2-Dichlorobenzene	0.2	< 0.2	U
541-73-1	1,3-Dichlorobenzene	0.2	< 0.2	U
106-46-7	1,4-Dichlorobenzene	0.2	< 0.2	U
107-02-8	Acrolein	5.0	< 5.0	U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: MB-011811**
 METHOD BLANK

Lab Sample ID: MB-011811
LIMS ID: 11-870
Matrix: Water
Date Analyzed: 01/18/11 10:53

QC Report No: SE82-The Boeing Company
Project: Jorgenson Forge
7KPL2JDR

CAS Number	Analyte	RL	Result	Q
74-88-4	Methyl Iodide	1.0	< 1.0	U
74-96-4	Bromoethane	0.2	< 0.2	U
107-13-1	Acrylonitrile	1.0	< 1.0	U
563-58-6	1,1-Dichloropropene	0.2	< 0.2	U
74-95-3	Dibromomethane	0.2	< 0.2	U
630-20-6	1,1,1,2-Tetrachloroethane	0.2	< 0.2	U
96-12-8	1,2-Dibromo-3-chloropropane	0.5	< 0.5	U
96-18-4	1,2,3-Trichloropropane	0.5	< 0.5	U
110-57-6	trans-1,4-Dichloro-2-butene	1.0	< 1.0	U
108-67-8	1,3,5-Trimethylbenzene	0.2	< 0.2	U
95-63-6	1,2,4-Trimethylbenzene	0.2	< 0.2	U
87-68-3	Hexachlorobutadiene	0.5	< 0.5	U
106-93-4	Ethylene Dibromide	0.2	< 0.2	U
74-97-5	Bromochloromethane	0.2	< 0.2	U
594-20-7	2,2-Dichloropropane	0.2	< 0.2	U
142-28-9	1,3-Dichloropropane	0.2	< 0.2	U
98-82-8	Isopropylbenzene	0.2	< 0.2	U
103-65-1	n-Propylbenzene	0.2	< 0.2	U
108-86-1	Bromobenzene	0.2	< 0.2	U
95-49-8	2-Chlorotoluene	0.2	< 0.2	U
106-43-4	4-Chlorotoluene	0.2	< 0.2	U
98-06-6	tert-Butylbenzene	0.2	< 0.2	U
135-98-8	sec-Butylbenzene	0.2	< 0.2	U
99-87-6	4-Isopropyltoluene	0.2	< 0.2	U
104-51-8	n-Butylbenzene	0.2	< 0.2	U
120-82-1	1,2,4-Trichlorobenzene	0.5	< 0.5	U
91-20-3	Naphthalene	0.5	< 0.5	U
87-61-6	1,2,3-Trichlorobenzene	0.5	< 0.5	U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	96.7%
d8-Toluene	94.3%
Bromofluorobenzene	90.0%
d4-1,2-Dichlorobenzene	99.3%

ANALYTICAL RESOURCES INCORPORATED

VOA SURROGATE RECOVERY SUMMARY

Matrix: Water

QC Report No: SE82-The Boeing Company
Project: Jorgenson Forge
7KPL2JDR

ARI ID	Client ID	PV	DCE	TOL	BFB	DCB	TOT OUT
MB-011811	Method Blank	10	96.7%	94.3%	90.0%	99.3%	0
LCS-011811	Lab Control	10	93.6%	94.9%	94.0%	96.6%	0
LCSD-011811	Lab Control Dup	10	93.8%	93.1%	94.7%	96.8%	0
SE82W	JF-T1B2-GW-15	10	95.5%	91.1%	88.7%	97.5%	0
SE82WDL	JF-T1B2-GW-15	10	94.8%	91.1%	89.9%	98.2%	0
SE82X	JF-T1B3-GW-20	10	97.8%	93.9%	89.2%	98.8%	0
SE82Y	JF-T1B4-GW-20	10	100%	93.4%	87.4%	99.7%	0
MB-011711	Method Blank	10	96.0%	95.3%	90.2%	98.9%	0
LCS-011711	Lab Control	10	94.9%	94.8%	94.8%	96.6%	0
LCSD-011711	Lab Control Dup	10	93.4%	94.5%	94.8%	96.1%	0
SE82Z	JF-T3B2-GW-15	10	98.7%	90.4%	87.0%	103%	0
SE82AA	JF-T1B1-SO-13-R	10	98.9%	95.3%	88.4%	98.1%	0
SE82AB	Trip Blanks	10	99.5%	96.1%	87.7%	98.8%	0

	LCS/MB LIMITS	QC LIMITS
SW8260C		
(DCE) = d4-1,2-Dichloroethane	80-120	80-120
(TOL) = d8-Toluene	80-120	80-120
(BFB) = Bromofluorobenzene	80-120	80-120
(DCB) = d4-1,2-Dichlorobenzene	80-120	80-120

Prep Method: SW5030B
Log Number Range: 11-870 to 11-875

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: LCS-011711**
 LAB CONTROL SAMPLE

Lab Sample ID: LCS-011711
LIMS ID: 11-873
Matrix: Water
Data Release Authorized:
Reported: 01/19/11

QC Report No: SE82-The Boeing Company
Project: Jorgenson Forge
7KPL2JDR
Date Sampled: NA
Date Received: NA

Instrument/Analyst LCS: NT5/PAB
LCSD: NT5/PAB
Date Analyzed LCS: 01/17/11 08:10
LCSD: 01/17/11 08:38

Sample Amount LCS: 10.0 mL
LCSD: 10.0 mL
Purge Volume LCS: 10.0 mL
LCSD: 10.0 mL

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Chloromethane	9.9	10.0	99.0%	9.9	10.0	99.0%	0.0%
Bromomethane	10.9	10.0	109%	11.5	10.0	115%	5.4%
Vinyl Chloride	10.3	10.0	103%	10.6	10.0	106%	2.9%
Chloroethane	9.9	10.0	99.0%	10.1	10.0	101%	2.0%
Methylene Chloride	10.0	10.0	100%	10.1	10.0	101%	1.0%
Acetone	50.2	50.0	100%	48.0	50.0	96.0%	4.5%
Carbon Disulfide	10.8	10.0	108%	10.8	10.0	108%	0.0%
1,1-Dichloroethene	10.2	10.0	102%	10.4	10.0	104%	1.9%
1,1-Dichloroethane	9.6	10.0	96.0%	9.8	10.0	98.0%	2.1%
trans-1,2-Dichloroethene	9.7	10.0	97.0%	9.9	10.0	99.0%	2.0%
cis-1,2-Dichloroethene	9.7	10.0	97.0%	9.8	10.0	98.0%	1.0%
Chloroform	9.7	10.0	97.0%	9.8	10.0	98.0%	1.0%
1,2-Dichloroethane	10.1	10.0	101%	9.7	10.0	97.0%	4.0%
2-Butanone	47.8	50.0	95.6%	48.7	50.0	97.4%	1.9%
1,1,1-Trichloroethane	9.6	10.0	96.0%	9.9	10.0	99.0%	3.1%
Carbon Tetrachloride	10.1	10.0	101%	10.2	10.0	102%	1.0%
Vinyl Acetate	9.3	10.0	93.0%	9.6	10.0	96.0%	3.2%
Bromodichloromethane	10.1	10.0	101%	10.2	10.0	102%	1.0%
1,2-Dichloropropane	9.6	10.0	96.0%	9.8	10.0	98.0%	2.1%
cis-1,3-Dichloropropene	10.1	10.0	101%	10.2	10.0	102%	1.0%
Trichloroethene	9.8	10.0	98.0%	9.8	10.0	98.0%	0.0%
Dibromochloromethane	10.1	10.0	101%	10.2	10.0	102%	1.0%
1,1,2-Trichloroethane	9.9	10.0	99.0%	10.0	10.0	100%	1.0%
Benzene	10.2	10.0	102%	10.3	10.0	103%	1.0%
trans-1,3-Dichloropropene	10.0	10.0	100%	9.8	10.0	98.0%	2.0%
2-Chloroethylvinylether	7.6 Q	10.0	76.0%	7.2 Q	10.0	72.0%	5.4%
Bromoform	10.2	10.0	102%	10.0	10.0	100%	2.0%
4-Methyl-2-Pentanone (MIBK)	50.4	50.0	101%	50.9	50.0	102%	1.0%
2-Hexanone	53.3	50.0	107%	53.5	50.0	107%	0.4%
Tetrachloroethene	10.0	10.0	100%	10.1	10.0	101%	1.0%
1,1,2,2-Tetrachloroethane	9.4	10.0	94.0%	9.4	10.0	94.0%	0.0%
Toluene	10.0	10.0	100%	10.1	10.0	101%	1.0%
Chlorobenzene	10.1	10.0	101%	10.3	10.0	103%	2.0%
Ethylbenzene	10.2	10.0	102%	10.2	10.0	102%	0.0%
Styrene	11.0	10.0	110%	11.1	10.0	111%	0.9%
Trichlorofluoromethane	9.3	10.0	93.0%	9.4	10.0	94.0%	1.1%
1,1,2-Trichloro-1,2,2-trifluoroetha	9.8	10.0	98.0%	10.0	10.0	100%	2.0%
m,p-Xylene	21.7	20.0	108%	21.9	20.0	110%	0.9%
o-Xylene	10.6	10.0	106%	10.6	10.0	106%	0.0%
1,2-Dichlorobenzene	9.8	10.0	98.0%	9.8	10.0	98.0%	0.0%
1,3-Dichlorobenzene	9.9	10.0	99.0%	10.0	10.0	100%	1.0%
1,4-Dichlorobenzene	9.9	10.0	99.0%	10.0	10.0	100%	1.0%
Acrolein	60.0	50.0	120%	58.3	50.0	117%	2.9%
Methyl Iodide	12.3	10.0	123%	12.1	10.0	121%	1.6%
Bromoethane	10.8	10.0	108%	10.5	10.0	105%	2.8%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: LCS-011711**
 LAB CONTROL SAMPLE

Lab Sample ID: LCS-011711
LIMS ID: 11-873
Matrix: Water

QC Report No: SE82-The Boeing Company
Project: Jorgenson Forge
7KPL2JDR

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Acrylonitrile	9.0	10.0	90.0%	9.3	10.0	93.0%	3.3%
1,1-Dichloropropene	9.8	10.0	98.0%	9.9	10.0	99.0%	1.0%
Dibromomethane	9.7	10.0	97.0%	9.5	10.0	95.0%	2.1%
1,1,1,2-Tetrachloroethane	10.0	10.0	100%	10.2	10.0	102%	2.0%
1,2-Dibromo-3-chloropropane	9.0	10.0	90.0%	8.7	10.0	87.0%	3.4%
1,2,3-Trichloropropane	9.6	10.0	96.0%	9.7	10.0	97.0%	1.0%
trans-1,4-Dichloro-2-butene	8.7	10.0	87.0%	8.5	10.0	85.0%	2.3%
1,3,5-Trimethylbenzene	10.3	10.0	103%	10.5	10.0	105%	1.9%
1,2,4-Trimethylbenzene	10.4	10.0	104%	10.6	10.0	106%	1.9%
Hexachlorobutadiene	9.9	10.0	99.0%	10.2	10.0	102%	3.0%
Ethylene Dibromide	10.0	10.0	100%	9.9	10.0	99.0%	1.0%
Bromochloromethane	9.3	10.0	93.0%	9.6	10.0	96.0%	3.2%
2,2-Dichloropropane	9.6	10.0	96.0%	9.7	10.0	97.0%	1.0%
1,3-Dichloropropane	9.6	10.0	96.0%	9.7	10.0	97.0%	1.0%
Isopropylbenzene	10.5	10.0	105%	10.7	10.0	107%	1.9%
n-Propylbenzene	10.2	10.0	102%	10.4	10.0	104%	1.9%
Bromobenzene	9.9	10.0	99.0%	10.0	10.0	100%	1.0%
2-Chlorotoluene	10.1	10.0	101%	10.1	10.0	101%	0.0%
4-Chlorotoluene	10.2	10.0	102%	10.4	10.0	104%	1.9%
tert-Butylbenzene	10.4	10.0	104%	10.5	10.0	105%	1.0%
sec-Butylbenzene	8.9	10.0	89.0%	9.0	10.0	90.0%	1.1%
4-Isopropyltoluene	10.6	10.0	106%	10.8	10.0	108%	1.9%
n-Butylbenzene	10.2	10.0	102%	10.4	10.0	104%	1.9%
1,2,4-Trichlorobenzene	10.0	10.0	100%	10.1	10.0	101%	1.0%
Naphthalene	10.3	10.0	103%	10.4	10.0	104%	1.0%
1,2,3-Trichlorobenzene	10.4	10.0	104%	10.6	10.0	106%	1.9%

Reported in µg/L (ppb)

RPD calculated using sample concentrations per SW846.

Volatile Surrogate Recovery

	LCS	LCSD
d4-1,2-Dichloroethane	94.9%	93.4%
d8-Toluene	94.8%	94.5%
Bromofluorobenzene	94.8%	94.8%
d4-1,2-Dichlorobenzene	96.6%	96.1%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: LCS-011811**
 LAB CONTROL SAMPLE

Lab Sample ID: LCS-011811
LIMS ID: 11-870
Matrix: Water
Data Release Authorized:
Reported: 01/19/11

QC Report No: SE82-The Boeing Company
Project: Jorgenson Forge
7KPL2JDR
Date Sampled: NA
Date Received: NA

Instrument/Analyst LCS: NT5/PAB
LCSD: NT5/PAB
Date Analyzed LCS: 01/18/11 10:26
LCSD: 01/18/11 11:23

Sample Amount LCS: 10.0 mL
LCSD: 10.0 mL
Purge Volume LCS: 10.0 mL
LCSD: 10.0 mL

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Chloromethane	9.4	10.0	94.0%	8.9	10.0	89.0%	5.5%
Bromomethane	11.4	10.0	114%	11.0	10.0	110%	3.6%
Vinyl Chloride	10.1	10.0	101%	9.6	10.0	96.0%	5.1%
Chloroethane	9.8	10.0	98.0%	9.1	10.0	91.0%	7.4%
Methylene Chloride	9.8	10.0	98.0%	9.7	10.0	97.0%	1.0%
Acetone	47.1	50.0	94.2%	47.3	50.0	94.6%	0.4%
Carbon Disulfide	10.7	10.0	107%	10.3	10.0	103%	3.8%
1,1-Dichloroethene	9.9	10.0	99.0%	10.1	10.0	101%	2.0%
1,1-Dichloroethane	9.6	10.0	96.0%	9.5	10.0	95.0%	1.0%
trans-1,2-Dichloroethene	9.6	10.0	96.0%	9.5	10.0	95.0%	1.0%
cis-1,2-Dichloroethene	9.7	10.0	97.0%	9.7	10.0	97.0%	0.0%
Chloroform	9.5	10.0	95.0%	9.5	10.0	95.0%	0.0%
1,2-Dichloroethane	9.7	10.0	97.0%	9.6	10.0	96.0%	1.0%
2-Butanone	46.7	50.0	93.4%	47.4	50.0	94.8%	1.5%
1,1,1-Trichloroethane	9.7	10.0	97.0%	9.6	10.0	96.0%	1.0%
Carbon Tetrachloride	9.9	10.0	99.0%	9.8	10.0	98.0%	1.0%
Vinyl Acetate	9.1	10.0	91.0%	9.0	10.0	90.0%	1.1%
Bromodichloromethane	10.0	10.0	100%	9.8	10.0	98.0%	2.0%
1,2-Dichloropropane	9.5	10.0	95.0%	9.2	10.0	92.0%	3.2%
cis-1,3-Dichloropropene	10.1	10.0	101%	9.9	10.0	99.0%	2.0%
Trichloroethene	9.8	10.0	98.0%	9.7	10.0	97.0%	1.0%
Dibromochloromethane	10.1	10.0	101%	10.1	10.0	101%	0.0%
1,1,2-Trichloroethane	9.8	10.0	98.0%	9.7	10.0	97.0%	1.0%
Benzene	10.1	10.0	101%	9.9	10.0	99.0%	2.0%
trans-1,3-Dichloropropene	9.7	10.0	97.0%	9.7	10.0	97.0%	0.0%
2-Chloroethylvinylether	8.1 Q	10.0	81.0%	8.0 Q	10.0	80.0%	1.2%
Bromoform	10.2	10.0	102%	9.8	10.0	98.0%	4.0%
4-Methyl-2-Pentanone (MIBK)	49.4	50.0	98.8%	49.3	50.0	98.6%	0.2%
2-Hexanone	52.6	50.0	105%	52.4	50.0	105%	0.4%
Tetrachloroethene	9.9	10.0	99.0%	10.0	10.0	100%	1.0%
1,1,2,2-Tetrachloroethane	9.6	10.0	96.0%	9.1	10.0	91.0%	5.3%
Toluene	10.0	10.0	100%	9.7	10.0	97.0%	3.0%
Chlorobenzene	10.2	10.0	102%	10.0	10.0	100%	2.0%
Ethylbenzene	10.1	10.0	101%	10.2	10.0	102%	1.0%
Styrene	11.0	10.0	110%	10.6	10.0	106%	3.7%
Trichlorofluoromethane	9.2	10.0	92.0%	10.3	10.0	103%	11.3%
1,1,2-Trichloro-1,2,2-trifluoroetha	9.6	10.0	96.0%	9.8	10.0	98.0%	2.1%
m,p-Xylene	21.8	20.0	109%	21.6	20.0	108%	0.9%
o-Xylene	10.5	10.0	105%	10.4	10.0	104%	1.0%
1,2-Dichlorobenzene	10.0	10.0	100%	9.5	10.0	95.0%	5.1%
1,3-Dichlorobenzene	10.1	10.0	101%	9.7	10.0	97.0%	4.0%
1,4-Dichlorobenzene	10.0	10.0	100%	9.7	10.0	97.0%	3.0%
Acrolein	60.8 Q	50.0	122%	58.5 Q	50.0	117%	3.9%
Methyl Iodide	12.4 Q	10.0	124%	11.7 Q	10.0	117%	5.8%
Bromoethane	10.9	10.0	109%	10.4	10.0	104%	4.7%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: LCS-011811**
 LAB CONTROL SAMPLE

Lab Sample ID: LCS-011811
LIMS ID: 11-870
Matrix: Water

QC Report No: SE82-The Boeing Company
Project: Jorgenson Forge
7KPL2JDR

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Acrylonitrile	8.2	10.0	82.0%	8.7	10.0	87.0%	5.9%
1,1-Dichloropropene	9.8	10.0	98.0%	9.6	10.0	96.0%	2.1%
Dibromomethane	9.7	10.0	97.0%	9.4	10.0	94.0%	3.1%
1,1,1,2-Tetrachloroethane	10.0	10.0	100%	10.0	10.0	100%	0.0%
1,2-Dibromo-3-chloropropane	9.1	10.0	91.0%	8.4	10.0	84.0%	8.0%
1,2,3-Trichloropropane	9.9	10.0	99.0%	9.3	10.0	93.0%	6.2%
trans-1,4-Dichloro-2-butene	8.6	10.0	86.0%	8.6	10.0	86.0%	0.0%
1,3,5-Trimethylbenzene	10.6	10.0	106%	10.1	10.0	101%	4.8%
1,2,4-Trimethylbenzene	10.6	10.0	106%	10.2	10.0	102%	3.8%
Hexachlorobutadiene	9.7	10.0	97.0%	9.4	10.0	94.0%	3.1%
Ethylene Dibromide	9.9	10.0	99.0%	9.8	10.0	98.0%	1.0%
Bromochloromethane	9.6	10.0	96.0%	9.3	10.0	93.0%	3.2%
2,2-Dichloropropane	9.5	10.0	95.0%	9.6	10.0	96.0%	1.0%
1,3-Dichloropropane	9.7	10.0	97.0%	9.7	10.0	97.0%	0.0%
Isopropylbenzene	10.7	10.0	107%	10.3	10.0	103%	3.8%
n-Propylbenzene	10.4	10.0	104%	10.1	10.0	101%	2.9%
Bromobenzene	10.0	10.0	100%	9.5	10.0	95.0%	5.1%
2-Chlorotoluene	10.3	10.0	103%	9.8	10.0	98.0%	5.0%
4-Chlorotoluene	10.3	10.0	103%	10.0	10.0	100%	3.0%
tert-Butylbenzene	10.5	10.0	105%	10.2	10.0	102%	2.9%
sec-Butylbenzene	9.0	10.0	90.0%	8.6	10.0	86.0%	4.5%
4-Isopropyltoluene	10.7	10.0	107%	10.4	10.0	104%	2.8%
n-Butylbenzene	10.1	10.0	101%	10.1	10.0	101%	0.0%
1,2,4-Trichlorobenzene	10.0	10.0	100%	9.9	10.0	99.0%	1.0%
Naphthalene	10.4	10.0	104%	10.0	10.0	100%	3.9%
1,2,3-Trichlorobenzene	10.4	10.0	104%	10.2	10.0	102%	1.9%

Reported in µg/L (ppb)

RPD calculated using sample concentrations per SW846.

Volatile Surrogate Recovery

	LCS	LCSD
d4-1,2-Dichloroethane	93.6%	93.8%
d8-Toluene	94.9%	93.1%
Bromofluorobenzene	94.0%	94.7%
d4-1,2-Dichlorobenzene	96.6%	96.8%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS

Sample ID: JF-T1B1-SO-13-R
SAMPLE

Lab Sample ID: SE82AA
LIMS ID: 11-874
Matrix: Water
Data Release Authorized:
Reported: 01/25/11

QC Report No: SE82-The Boeing Company
Project: Jorgenson Forge
7KPL2JDR
Date Sampled: 01/14/11
Date Received: 01/14/11

Date Extracted: 01/17/11
Date Analyzed: 01/20/11 20:02
Instrument/Analyst: NT6/JZ

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
108-95-2	Phenol	1.0	< 1.0 U
111-44-4	Bis-(2-Chloroethyl) Ether	1.0	< 1.0 U
95-57-8	2-Chlorophenol	1.0	< 1.0 U
541-73-1	1,3-Dichlorobenzene	1.0	< 1.0 U
106-46-7	1,4-Dichlorobenzene	1.0	< 1.0 U
100-51-6	Benzyl Alcohol	5.0	< 5.0 U
95-50-1	1,2-Dichlorobenzene	1.0	< 1.0 U
95-48-7	2-Methylphenol	1.0	< 1.0 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	1.0	< 1.0 U
106-44-5	4-Methylphenol	1.0	< 1.0 U
621-64-7	N-Nitroso-Di-N-Propylamine	1.0	< 1.0 U
67-72-1	Hexachloroethane	1.0	< 1.0 U
98-95-3	Nitrobenzene	1.0	< 1.0 U
78-59-1	Isophorone	1.0	< 1.0 U
88-75-5	2-Nitrophenol	5.0	< 5.0 U
105-67-9	2,4-Dimethylphenol	1.0	< 1.0 U
65-85-0	Benzoic Acid	10	< 10 U
111-91-1	bis(2-Chloroethoxy) Methane	1.0	< 1.0 U
120-83-2	2,4-Dichlorophenol	5.0	< 5.0 U
120-82-1	1,2,4-Trichlorobenzene	1.0	< 1.0 U
91-20-3	Naphthalene	1.0	< 1.0 U
106-47-8	4-Chloroaniline	5.0	< 5.0 U
87-68-3	Hexachlorobutadiene	1.0	< 1.0 U
59-50-7	4-Chloro-3-methylphenol	5.0	< 5.0 U
91-57-6	2-Methylnaphthalene	1.0	< 1.0 U
77-47-4	Hexachlorocyclopentadiene	5.0	< 5.0 U
88-06-2	2,4,6-Trichlorophenol	5.0	< 5.0 U
95-95-4	2,4,5-Trichlorophenol	5.0	< 5.0 U
91-58-7	2-Chloronaphthalene	1.0	< 1.0 U
88-74-4	2-Nitroaniline	5.0	< 5.0 U
131-11-3	Dimethylphthalate	1.0	< 1.0 U
208-96-8	Acenaphthylene	1.0	< 1.0 U
99-09-2	3-Nitroaniline	5.0	< 5.0 U
83-32-9	Acenaphthene	1.0	< 1.0 U
51-28-5	2,4-Dinitrophenol	10	< 10 U
100-02-7	4-Nitrophenol	5.0	< 5.0 U
132-64-9	Dibenzofuran	1.0	< 1.0 U
606-20-2	2,6-Dinitrotoluene	5.0	< 5.0 U
121-14-2	2,4-Dinitrotoluene	5.0	< 5.0 U
84-66-2	Diethylphthalate	1.0	< 1.0 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS

Sample ID: JF-T1B1-SO-13-R
SAMPLE

Lab Sample ID: SE82AA
LIMS ID: 11-874
Matrix: Water
Date Analyzed: 01/20/11 20:02

QC Report No: SE82-The Boeing Company
Project: Jorgenson Forge
7KPL2JDR

CAS Number	Analyte	RL	Result
7005-72-3	4-Chlorophenyl-phenylether	1.0	< 1.0 U
86-73-7	Fluorene	1.0	< 1.0 U
100-01-6	4-Nitroaniline	5.0	< 5.0 U
534-52-1	4,6-Dinitro-2-Methylphenol	10	< 10 U
86-30-6	N-Nitrosodiphenylamine	1.0	< 1.0 U
101-55-3	4-Bromophenyl-phenylether	1.0	< 1.0 U
118-74-1	Hexachlorobenzene	1.0	< 1.0 U
87-86-5	Pentachlorophenol	5.0	< 5.0 U
85-01-8	Phenanthrene	1.0	< 1.0 U
86-74-8	Carbazole	1.0	< 1.0 U
120-12-7	Anthracene	1.0	< 1.0 U
84-74-2	Di-n-Butylphthalate	1.0	< 1.0 U
206-44-0	Fluoranthene	1.0	< 1.0 U
129-00-0	Pyrene	1.0	< 1.0 U
85-68-7	Butylbenzylphthalate	1.0	< 1.0 U
91-94-1	3,3'-Dichlorobenzidine	5.0	< 5.0 U
56-55-3	Benzo(a)anthracene	1.0	< 1.0 U
117-81-7	bis(2-Ethylhexyl)phthalate	1.0	< 1.0 U
218-01-9	Chrysene	1.0	< 1.0 U
117-84-0	Di-n-Octyl phthalate	1.0	< 1.0 U
50-32-8	Benzo(a)pyrene	1.0	< 1.0 U
193-39-5	Indeno(1,2,3-cd)pyrene	1.0	< 1.0 U
53-70-3	Dibenz(a,h)anthracene	1.0	< 1.0 U
191-24-2	Benzo(g,h,i)perylene	1.0	< 1.0 U
90-12-0	1-Methylnaphthalene	1.0	< 1.0 U
TOTBFA	Total Benzofluoranthenes	1.0	< 1.0 U

Reported in µg/L (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	80.0%	2-Fluorobiphenyl	86.0%
d14-p-Terphenyl	86.0%	d4-1,2-Dichlorobenzene	75.2%
d5-Phenol	76.5%	2-Fluorophenol	81.6%
2,4,6-Tribromophenol	80.8%	d4-2-Chlorophenol	82.4%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS

Sample ID: MB-011711
METHOD BLANK

Lab Sample ID: MB-011711
LIMS ID: 11-874
Matrix: Water
Data Release Authorized: MW
Reported: 01/25/11

QC Report No: SE82-The Boeing Company
Project: Jorgenson Forge
7KPL2JDR
Date Sampled: NA
Date Received: NA

Date Extracted: 01/17/11
Date Analyzed: 01/20/11 16:46
Instrument/Analyst: NT6/JZ

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
108-95-2	Phenol	1.0	< 1.0 U
111-44-4	Bis-(2-Chloroethyl) Ether	1.0	< 1.0 U
95-57-8	2-Chlorophenol	1.0	< 1.0 U
541-73-1	1,3-Dichlorobenzene	1.0	< 1.0 U
106-46-7	1,4-Dichlorobenzene	1.0	< 1.0 U
100-51-6	Benzyl Alcohol	5.0	< 5.0 U
95-50-1	1,2-Dichlorobenzene	1.0	< 1.0 U
95-48-7	2-Methylphenol	1.0	< 1.0 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	1.0	< 1.0 U
106-44-5	4-Methylphenol	1.0	< 1.0 U
621-64-7	N-Nitroso-Di-N-Propylamine	1.0	< 1.0 U
67-72-1	Hexachloroethane	1.0	< 1.0 U
98-95-3	Nitrobenzene	1.0	< 1.0 U
78-59-1	Isophorone	1.0	< 1.0 U
88-75-5	2-Nitrophenol	5.0	< 5.0 U
105-67-9	2,4-Dimethylphenol	1.0	< 1.0 U
65-85-0	Benzoic Acid	10	< 10 U
111-91-1	bis(2-Chloroethoxy) Methane	1.0	< 1.0 U
120-83-2	2,4-Dichlorophenol	5.0	< 5.0 U
120-82-1	1,2,4-Trichlorobenzene	1.0	< 1.0 U
91-20-3	Naphthalene	1.0	< 1.0 U
106-47-8	4-Chloroaniline	5.0	< 5.0 U
87-68-3	Hexachlorobutadiene	1.0	< 1.0 U
59-50-7	4-Chloro-3-methylphenol	5.0	< 5.0 U
91-57-6	2-Methylnaphthalene	1.0	< 1.0 U
77-47-4	Hexachlorocyclopentadiene	5.0	< 5.0 U
88-06-2	2,4,6-Trichlorophenol	5.0	< 5.0 U
95-95-4	2,4,5-Trichlorophenol	5.0	< 5.0 U
91-58-7	2-Chloronaphthalene	1.0	< 1.0 U
88-74-4	2-Nitroaniline	5.0	< 5.0 U
131-11-3	Dimethylphthalate	1.0	< 1.0 U
208-96-8	Acenaphthylene	1.0	< 1.0 U
99-09-2	3-Nitroaniline	5.0	< 5.0 U
83-32-9	Acenaphthene	1.0	< 1.0 U
51-28-5	2,4-Dinitrophenol	10	< 10 U
100-02-7	4-Nitrophenol	5.0	< 5.0 U
132-64-9	Dibenzofuran	1.0	< 1.0 U
606-20-2	2,6-Dinitrotoluene	5.0	< 5.0 U
121-14-2	2,4-Dinitrotoluene	5.0	< 5.0 U
84-66-2	Diethylphthalate	1.0	< 1.0 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS

Sample ID: MB-011711
METHOD BLANK

Lab Sample ID: MB-011711
LIMS ID: 11-874
Matrix: Water
Date Analyzed: 01/20/11 16:46

QC Report No: SE82-The Boeing Company
Project: Jorgenson Forge
7KPL2JDR

CAS Number	Analyte	RL	Result
7005-72-3	4-Chlorophenyl-phenylether	1.0	< 1.0 U
86-73-7	Fluorene	1.0	< 1.0 U
100-01-6	4-Nitroaniline	5.0	< 5.0 U
534-52-1	4,6-Dinitro-2-Methylphenol	10	< 10 U
86-30-6	N-Nitrosodiphenylamine	1.0	< 1.0 U
101-55-3	4-Bromophenyl-phenylether	1.0	< 1.0 U
118-74-1	Hexachlorobenzene	1.0	< 1.0 U
87-86-5	Pentachlorophenol	5.0	< 5.0 U
85-01-8	Phenanthrene	1.0	< 1.0 U
86-74-8	Carbazole	1.0	< 1.0 U
120-12-7	Anthracene	1.0	< 1.0 U
84-74-2	Di-n-Butylphthalate	1.0	< 1.0 U
206-44-0	Fluoranthene	1.0	< 1.0 U
129-00-0	Pyrene	1.0	< 1.0 U
85-68-7	Butylbenzylphthalate	1.0	< 1.0 U
91-94-1	3,3'-Dichlorobenzidine	5.0	< 5.0 U
56-55-3	Benzo(a)anthracene	1.0	< 1.0 U
117-81-7	bis(2-Ethylhexyl)phthalate	1.0	< 1.0 U
218-01-9	Chrysene	1.0	< 1.0 U
117-84-0	Di-n-Octyl phthalate	1.0	< 1.0 U
50-32-8	Benzo(a)pyrene	1.0	< 1.0 U
193-39-5	Indeno(1,2,3-cd)pyrene	1.0	< 1.0 U
53-70-3	Dibenz(a,h)anthracene	1.0	< 1.0 U
191-24-2	Benzo(g,h,i)perylene	1.0	< 1.0 U
90-12-0	1-Methylnaphthalene	1.0	< 1.0 U

Reported in µg/L (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	79.2%	2-Fluorobiphenyl	84.8%
d14-p-Terphenyl	84.4%	d4-1,2-Dichlorobenzene	73.6%
d5-Phenol	74.7%	2-Fluorophenol	82.1%
2,4,6-Tribromophenol	80.8%	d4-2-Chlorophenol	82.1%

ANALYTICAL RESOURCES INCORPORATED

SW8270 SEMIVOLATILES WATER SURROGATE RECOVERY SUMMARY

Matrix: Water

QC Report No: SE82-The Boeing Company
Project: Jorgenson Forge
7KPL2JDR

Client ID	NBZ	FBP	TPH	DCB	PHL	2FP	TBP	2CP	TOT OUT
MB-011711	79.2%	84.8%	84.4%	73.6%	74.7%	82.1%	80.8%	82.1%	0
LCS-011711	77.6%	90.0%	89.2%	65.6%	76.5%	75.5%	90.4%	79.2%	0
LCSD-011711	74.4%	87.6%	86.8%	63.2%	70.9%	71.7%	89.1%	74.7%	0
JF-T1B1-SO-13-R	80.0%	86.0%	86.0%	75.2%	76.5%	81.6%	80.8%	82.4%	0

	LCS/MB LIMITS	QC LIMITS
(NBZ) = d5-Nitrobenzene	(46-100)	(39-100)
(FBP) = 2-Fluorobiphenyl	(49-100)	(42-100)
(TPH) = d14-p-Terphenyl	(53-119)	(26-114)
(DCB) = d4-1,2-Dichlorobenzene	(38-100)	(32-100)
(PHL) = d5-Phenol	(50-100)	(41-100)
(2FP) = 2-Fluorophenol	(46-100)	(38-100)
(TBP) = 2,4,6-Tribromophenol	(52-123)	(48-118)
(2CP) = d4-2-Chlorophenol	(53-100)	(44-100)

Prep Method: SW3520C
Log Number Range: 11-874 to 11-874

FORM-II SW8270

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS

Sample ID: LCS-011711
LCS/LCSD

Lab Sample ID: LCS-011711
LIMS ID: 11-874
Matrix: Water
Data Release Authorized: MW
Reported: 01/25/11

QC Report No: SE82-The Boeing Company
Project: Jorgenson Forge
7KPL2JDR
Date Sampled: 01/14/11
Date Received: 01/14/11

Date Extracted LCS/LCSD: 01/17/11

Date Analyzed LCS: 01/20/11 17:19
LCSD: 01/20/11 17:51
Instrument/Analyst LCS: NT6/JZ
LCSD: NT6/JZ
GPC Cleanup: NO

Sample Amount LCS: 500 mL
LCSD: 500 mL
Final Extract Volume LCS: 0.50 mL
LCSD: 0.50 mL
Dilution Factor LCS: 1.00
LCSD: 1.00

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Phenol	17.9 Q	25.0	71.6%	17.3 Q	25.0	69.2%	3.4%
Bis-(2-Chloroethyl) Ether	17.9	25.0	71.6%	17.5	25.0	70.0%	2.3%
2-Chlorophenol	19.7	25.0	78.8%	19.3	25.0	77.2%	2.1%
1,3-Dichlorobenzene	13.8	25.0	55.2%	13.1	25.0	52.4%	5.2%
1,4-Dichlorobenzene	14.2	25.0	56.8%	13.4	25.0	53.6%	5.8%
Benzyl Alcohol	33.8	50.0	67.6%	32.7	50.0	65.4%	3.3%
1,2-Dichlorobenzene	14.9	25.0	59.6%	14.1	25.0	56.4%	5.5%
2-Methylphenol	16.5	25.0	66.0%	16.4	25.0	65.6%	0.6%
2,2'-Oxybis(1-Chloropropane)	15.5 Q	25.0	62.0%	15.1 Q	25.0	60.4%	2.6%
4-Methylphenol	33.4	50.0	66.8%	32.7	50.0	65.4%	2.1%
N-Nitroso-Di-N-Propylamine	16.4 Q	25.0	65.6%	16.3 Q	25.0	65.2%	0.6%
Hexachloroethane	12.8	25.0	51.2%	11.5	25.0	46.0%	10.7%
Nitrobenzene	19.1	25.0	76.4%	18.6	25.0	74.4%	2.7%
Isophorone	21.2	25.0	84.8%	20.9	25.0	83.6%	1.4%
2-Nitrophenol	22.3	25.0	89.2%	22.0	25.0	88.0%	1.4%
2,4-Dimethylphenol	19.1	25.0	76.4%	19.3	25.0	77.2%	1.0%
Benzoic Acid	59.6	75.0	79.5%	62.0	75.0	82.7%	3.9%
bis(2-Chloroethoxy) Methane	18.8	25.0	75.2%	17.9	25.0	71.6%	4.9%
2,4-Dichlorophenol	22.0	25.0	88.0%	21.8	25.0	87.2%	0.9%
1,2,4-Trichlorobenzene	16.4	25.0	65.6%	15.6	25.0	62.4%	5.0%
Naphthalene	19.8	25.0	79.2%	19.3	25.0	77.2%	2.6%
4-Chloroaniline	57.8	60.0	96.3%	55.8	60.0	93.0%	3.5%
Hexachlorobutadiene	14.2	25.0	56.8%	12.9	25.0	51.6%	9.6%
4-Chloro-3-methylphenol	21.4	25.0	85.6%	21.0	25.0	84.0%	1.9%
2-Methylnaphthalene	17.5	25.0	70.0%	16.9	25.0	67.6%	3.5%
Hexachlorocyclopentadiene	31.4	75.0	41.9%	30.7	75.0	40.9%	2.3%
2,4,6-Trichlorophenol	24.2	25.0	96.8%	24.3	25.0	97.2%	0.4%
2,4,5-Trichlorophenol	21.9	25.0	87.6%	21.7	25.0	86.8%	0.9%
2-Chloronaphthalene	21.4	25.0	85.6%	20.7	25.0	82.8%	3.3%
2-Nitroaniline	20.3	25.0	81.2%	20.2	25.0	80.8%	0.5%
Dimethylphthalate	22.6	25.0	90.4%	22.8	25.0	91.2%	0.9%
Acenaphthylene	23.0	25.0	92.0%	22.7	25.0	90.8%	1.3%
3-Nitroaniline	68.7	64.0	107%	69.0	64.0	108%	0.4%
Acenaphthene	22.4	25.0	89.6%	21.9	25.0	87.6%	2.3%
2,4-Dinitrophenol	66.9 Q	75.0	89.2%	70.4 Q	75.0	93.9%	5.1%
4-Nitrophenol	24.6	25.0	98.4%	25.5	25.0	102%	3.6%
Dibenzofuran	21.3	25.0	85.2%	20.8	25.0	83.2%	2.4%
2,6-Dinitrotoluene	23.0	25.0	92.0%	22.9	25.0	91.6%	0.4%
2,4-Dinitrotoluene	22.8	25.0	91.2%	22.5	25.0	90.0%	1.3%
Diethylphthalate	21.8	25.0	87.2%	21.8	25.0	87.2%	0.0%
4-Chlorophenyl-phenylether	21.1	25.0	84.4%	20.1	25.0	80.4%	4.9%
Fluorene	23.4	25.0	93.6%	22.5	25.0	90.0%	3.9%
4-Nitroaniline	22.4	25.0	89.6%	22.2	25.0	88.8%	0.9%
4,6-Dinitro-2-Methylphenol	72.5	75.0	96.7%	76.7	75.0	102%	5.6%
N-Nitrosodiphenylamine	21.4	25.0	85.6%	20.9	25.0	83.6%	2.4%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS

Sample ID: LCS-011711
LCS/LCSD

Lab Sample ID: LCS-011711
LIMS ID: 11-874
Matrix: Water
Date Analyzed LCS: 01/20/11 17:19
LCSD: 01/20/11 17:51

QC Report No: SE82-The Boeing Company
Project: Jorgenson Forge
7KPL2JDR

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
4-Bromophenyl-phenylether	22.1	25.0	88.4%	20.6	25.0	82.4%	7.0%
Hexachlorobenzene	21.4	25.0	85.6%	20.6	25.0	82.4%	3.8%
Pentachlorophenol	26.8	25.0	107%	26.9	25.0	108%	0.4%
Phenanthrene	24.9	25.0	99.6%	24.2	25.0	96.8%	2.9%
Carbazole	23.4	25.0	93.6%	23.0	25.0	92.0%	1.7%
Anthracene	24.4	25.0	97.6%	23.4	25.0	93.6%	4.2%
Di-n-Butylphthalate	23.9	25.0	95.6%	23.0	25.0	92.0%	3.8%
Fluoranthene	25.7	25.0	103%	24.8	25.0	99.2%	3.6%
Pyrene	24.2	25.0	96.8%	23.2	25.0	92.8%	4.2%
Butylbenzylphthalate	23.3	25.0	93.2%	22.1	25.0	88.4%	5.3%
3,3'-Dichlorobenzidine	61.3	64.0	95.8%	15.2	64.0	23.8%	121%
Benzo(a)anthracene	26.1	25.0	104%	25.3	25.0	101%	3.1%
bis(2-Ethylhexyl)phthalate	22.8	25.0	91.2%	22.5	25.0	90.0%	1.3%
Chrysene	26.7	25.0	107%	25.8	25.0	103%	3.4%
Di-n-Octyl phthalate	23.0	25.0	92.0%	22.4	25.0	89.6%	2.6%
Benzo(a)pyrene	23.3	25.0	93.2%	22.3	25.0	89.2%	4.4%
Indeno(1,2,3-cd)pyrene	30.5	25.0	122%	29.1	25.0	116%	4.7%
Dibenz(a,h)anthracene	30.8 Q	25.0	123%	29.4 Q	25.0	118%	4.7%
Benzo(g,h,i)perylene	30.7 Q	25.0	123%	28.7 Q	25.0	115%	6.7%
1-Methylnaphthalene	18.8	25.0	75.2%	18.2	25.0	72.8%	3.2%
Total Benzofluoranthenes	48.7	50.0	97.4%	46.6	50.0	93.2%	4.4%

Semivolatile Surrogate Recovery

	LCS	LCSD
d5-Nitrobenzene	77.6%	74.4%
2-Fluorobiphenyl	90.0%	87.6%
d14-p-Terphenyl	89.2%	86.8%
d4-1,2-Dichlorobenzene	65.6%	63.2%
d5-Phenol	76.5%	70.9%
2-Fluorophenol	75.5%	71.7%
2,4,6-Tribromophenol	90.4%	89.1%
d4-2-Chlorophenol	79.2%	74.7%

Results reported in µg/L
RPD calculated using sample concentrations per SW846.

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS

Sample ID: JF-T1B2-SO-03
SAMPLE

Lab Sample ID: SE82J
LIMS ID: 11-857
Matrix: Soil
Data Release Authorized:
Reported: 01/27/11

QC Report No: SE82-The Boeing Company
Project: Jorgenson Forge
7KPL2JDR
Date Sampled: 01/14/11
Date Received: 01/14/11

Date Extracted: 01/18/11
Date Analyzed: 01/25/11 00:58
Instrument/Analyst: NT6/JZ
GPC Cleanup: Yes

Sample Amount: 8.45 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 18.7%

CAS Number	Analyte	RL	Result
108-95-2	Phenol	59	< 59 U
111-44-4	Bis-(2-Chloroethyl) Ether	59	< 59 U
95-57-8	2-Chlorophenol	59	< 59 U
541-73-1	1,3-Dichlorobenzene	59	< 59 U
106-46-7	1,4-Dichlorobenzene	59	< 59 U
100-51-6	Benzyl Alcohol	300	< 300 U
95-50-1	1,2-Dichlorobenzene	59	< 59 U
95-48-7	2-Methylphenol	59	< 59 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	59	< 59 U
106-44-5	4-Methylphenol	59	< 59 U
621-64-7	N-Nitroso-Di-N-Propylamine	59	< 59 U
67-72-1	Hexachloroethane	59	< 59 U
98-95-3	Nitrobenzene	59	< 59 U
78-59-1	Isophorone	59	< 59 U
88-75-5	2-Nitrophenol	59	< 59 U
105-67-9	2,4-Dimethylphenol	59	< 59 U
65-85-0	Benzoic Acid	590	< 590 U
111-91-1	bis(2-Chloroethoxy) Methane	59	< 59 U
120-83-2	2,4-Dichlorophenol	300	< 300 U
120-82-1	1,2,4-Trichlorobenzene	59	< 59 U
91-20-3	Naphthalene	59	< 59 U
106-47-8	4-Chloroaniline	300	< 300 U
87-68-3	Hexachlorobutadiene	59	< 59 U
59-50-7	4-Chloro-3-methylphenol	300	< 300 U
91-57-6	2-Methylnaphthalene	59	< 59 U
77-47-4	Hexachlorocyclopentadiene	300	< 300 U
88-06-2	2,4,6-Trichlorophenol	300	< 300 U
95-95-4	2,4,5-Trichlorophenol	300	< 300 U
91-58-7	2-Chloronaphthalene	59	< 59 U
88-74-4	2-Nitroaniline	300	< 300 U
131-11-3	Dimethylphthalate	59	< 59 U
208-96-8	Acenaphthylene	59	< 59 U
99-09-2	3-Nitroaniline	300	< 300 U
83-32-9	Acenaphthene	59	< 59 U
51-28-5	2,4-Dinitrophenol	590	< 590 U
100-02-7	4-Nitrophenol	300	< 300 U
132-64-9	Dibenzofuran	59	< 59 U
606-20-2	2,6-Dinitrotoluene	300	< 300 U
121-14-2	2,4-Dinitrotoluene	300	< 300 U
84-66-2	Diethylphthalate	59	< 59 U
7005-72-3	4-Chlorophenyl-phenylether	59	< 59 U
86-73-7	Fluorene	59	< 59 U
100-01-6	4-Nitroaniline	300	< 300 U
534-52-1	4,6-Dinitro-2-Methylphenol	590	< 590 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS

Sample ID: JF-T1B2-SO-03
SAMPLE

Lab Sample ID: SE82J
LIMS ID: 11-857
Matrix: Soil
Date Analyzed: 01/25/11 00:58

QC Report No: SE82-The Boeing Company
Project: Jorgenson Forge
7KPL2JDR

CAS Number	Analyte	RL	Result
86-30-6	N-Nitrosodiphenylamine	59	< 59 U
101-55-3	4-Bromophenyl-phenylether	59	< 59 U
118-74-1	Hexachlorobenzene	59	< 59 U
87-86-5	Pentachlorophenol	300	< 300 U
85-01-8	Phenanthrene	59	< 59 U
86-74-8	Carbazole	59	< 59 U
120-12-7	Anthracene	59	< 59 U
84-74-2	Di-n-Butylphthalate	59	< 59 U
206-44-0	Fluoranthene	59	< 59 U
129-00-0	Pyrene	59	< 59 U
85-68-7	Butylbenzylphthalate	59	< 59 U
91-94-1	3,3'-Dichlorobenzidine	300	< 300 U
56-55-3	Benzo(a)anthracene	59	< 59 U
117-81-7	bis(2-Ethylhexyl)phthalate	59	< 59 U
218-01-9	Chrysene	59	< 59 U
117-84-0	Di-n-Octyl phthalate	59	< 59 U
50-32-8	Benzo(a)pyrene	59	< 59 U
193-39-5	Indeno(1,2,3-cd)pyrene	59	< 59 U
53-70-3	Dibenz(a,h)anthracene	59	< 59 U
191-24-2	Benzo(g,h,i)perylene	59	< 59 U
90-12-0	1-Methylnaphthalene	59	< 59 U
TOTBFA	Total Benzofluoranthenes	59	< 59 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	63.6%	2-Fluorobiphenyl	70.0%
d14-p-Terphenyl	70.4%	d4-1,2-Dichlorobenzene	67.2%
d5-Phenol	68.8%	2-Fluorophenol	65.9%
2,4,6-Tribromophenol	73.9%	d4-2-Chlorophenol	69.9%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS

Sample ID: JF-T1B1-SO-03
SAMPLE

Lab Sample ID: SE82K
LIMS ID: 11-858
Matrix: Soil
Data Release Authorized:
Reported: 01/27/11

QC Report No: SE82-The Boeing Company
Project: Jorgenson Forge
7KPL2JDR
Date Sampled: 01/14/11
Date Received: 01/14/11

Date Extracted: 01/18/11
Date Analyzed: 01/25/11 01:31
Instrument/Analyst: NT6/JZ
GPC Cleanup: Yes

Sample Amount: 8.14 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 20.1%

CAS Number	Analyte	RL	Result
108-95-2	Phenol	61	< 61 U
111-44-4	Bis-(2-Chloroethyl) Ether	61	< 61 U
95-57-8	2-Chlorophenol	61	< 61 U
541-73-1	1,3-Dichlorobenzene	61	< 61 U
106-46-7	1,4-Dichlorobenzene	61	< 61 U
100-51-6	Benzyl Alcohol	310	< 310 U
95-50-1	1,2-Dichlorobenzene	61	< 61 U
95-48-7	2-Methylphenol	61	< 61 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	61	< 61 U
106-44-5	4-Methylphenol	61	< 61 U
621-64-7	N-Nitroso-Di-N-Propylamine	61	< 61 U
67-72-1	Hexachloroethane	61	< 61 U
98-95-3	Nitrobenzene	61	< 61 U
78-59-1	Isophorone	61	< 61 U
88-75-5	2-Nitrophenol	61	< 61 U
105-67-9	2,4-Dimethylphenol	61	< 61 U
65-85-0	Benzoic Acid	610	< 610 U
111-91-1	bis(2-Chloroethoxy) Methane	61	< 61 U
120-83-2	2,4-Dichlorophenol	310	< 310 U
120-82-1	1,2,4-Trichlorobenzene	61	< 61 U
91-20-3	Naphthalene	61	< 61 U
106-47-8	4-Chloroaniline	310	< 310 U
87-68-3	Hexachlorobutadiene	61	< 61 U
59-50-7	4-Chloro-3-methylphenol	310	< 310 U
91-57-6	2-Methylnaphthalene	61	< 61 U
77-47-4	Hexachlorocyclopentadiene	310	< 310 U
88-06-2	2,4,6-Trichlorophenol	310	< 310 U
95-95-4	2,4,5-Trichlorophenol	310	< 310 U
91-58-7	2-Chloronaphthalene	61	< 61 U
88-74-4	2-Nitroaniline	310	< 310 U
131-11-3	Dimethylphthalate	61	< 61 U
208-96-8	Acenaphthylene	61	< 61 U
99-09-2	3-Nitroaniline	310	< 310 U
83-32-9	Acenaphthene	61	< 61 U
51-28-5	2,4-Dinitrophenol	610	< 610 U
100-02-7	4-Nitrophenol	310	< 310 U
132-64-9	Dibenzofuran	61	< 61 U
606-20-2	2,6-Dinitrotoluene	310	< 310 U
121-14-2	2,4-Dinitrotoluene	310	< 310 U
84-66-2	Diethylphthalate	61	< 61 U
7005-72-3	4-Chlorophenyl-phenylether	61	< 61 U
86-73-7	Fluorene	61	< 61 U
100-01-6	4-Nitroaniline	310	< 310 U
534-52-1	4,6-Dinitro-2-Methylphenol	610	< 610 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS

Sample ID: JF-T1B1-SO-03
SAMPLE

Lab Sample ID: SE82K
LIMS ID: 11-858
Matrix: Soil
Date Analyzed: 01/25/11 01:31

QC Report No: SE82-The Boeing Company
Project: Jorgenson Forge
7KPL2JDR

CAS Number	Analyte	RL	Result
86-30-6	N-Nitrosodiphenylamine	61	< 61 U
101-55-3	4-Bromophenyl-phenylether	61	< 61 U
118-74-1	Hexachlorobenzene	61	< 61 U
87-86-5	Pentachlorophenol	310	< 310 U
85-01-8	Phenanthrene	61	< 61 U
86-74-8	Carbazole	61	< 61 U
120-12-7	Anthracene	61	< 61 U
84-74-2	Di-n-Butylphthalate	61	< 61 U
206-44-0	Fluoranthene	61	< 61 U
129-00-0	Pyrene	61	< 61 U
85-68-7	Butylbenzylphthalate	61	< 61 U
91-94-1	3,3'-Dichlorobenzidine	310	< 310 U
56-55-3	Benzo(a)anthracene	61	< 61 U
117-81-7	bis(2-Ethylhexyl)phthalate	61	< 61 U
218-01-9	Chrysene	61	< 61 U
117-84-0	Di-n-Octyl phthalate	61	< 61 U
50-32-8	Benzo(a)pyrene	61	< 61 U
193-39-5	Indeno(1,2,3-cd)pyrene	61	< 61 U
53-70-3	Dibenz(a,h)anthracene	61	< 61 U
191-24-2	Benzo(g,h,i)perylene	61	< 61 U
90-12-0	1-Methylnaphthalene	61	< 61 U
TOTBFA	Total Benzofluoranthenes	61	< 61 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	54.4%	2-Fluorobiphenyl	63.2%
d14-p-Terphenyl	65.2%	d4-1,2-Dichlorobenzene	59.2%
d5-Phenol	55.7%	2-Fluorophenol	46.9%
2,4,6-Tribromophenol	52.5%	d4-2-Chlorophenol	57.1%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS

Sample ID: JF-T1B1-SO-08
SAMPLE

Lab Sample ID: SE82L
LIMS ID: 11-859
Matrix: Soil
Data Release Authorized:
Reported: 01/27/11

QC Report No: SE82-The Boeing Company
Project: Jorgenson Forge
7KPL2JDR
Date Sampled: 01/14/11
Date Received: 01/14/11

Date Extracted: 01/18/11
Date Analyzed: 01/25/11 02:04
Instrument/Analyst: NT6/JZ
GPC Cleanup: Yes

Sample Amount: 8.19 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 25.8%

CAS Number	Analyte	RL	Result
108-95-2	Phenol	61	< 61 U
111-44-4	Bis-(2-Chloroethyl) Ether	61	< 61 U
95-57-8	2-Chlorophenol	61	< 61 U
541-73-1	1,3-Dichlorobenzene	61	< 61 U
106-46-7	1,4-Dichlorobenzene	61	< 61 U
100-51-6	Benzyl Alcohol	300	< 300 U
95-50-1	1,2-Dichlorobenzene	61	< 61 U
95-48-7	2-Methylphenol	61	< 61 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	61	< 61 U
106-44-5	4-Methylphenol	61	< 61 U
621-64-7	N-Nitroso-Di-N-Propylamine	61	< 61 U
67-72-1	Hexachloroethane	61	< 61 U
98-95-3	Nitrobenzene	61	< 61 U
78-59-1	Isophorone	61	< 61 U
88-75-5	2-Nitrophenol	61	< 61 U
105-67-9	2,4-Dimethylphenol	61	< 61 U
65-85-0	Benzoic Acid	610	< 610 U
111-91-1	bis(2-Chloroethoxy) Methane	61	< 61 U
120-83-2	2,4-Dichlorophenol	300	< 300 U
120-82-1	1,2,4-Trichlorobenzene	61	< 61 U
91-20-3	Naphthalene	61	< 61 U
106-47-8	4-Chloroaniline	300	< 300 U
87-68-3	Hexachlorobutadiene	61	< 61 U
59-50-7	4-Chloro-3-methylphenol	300	< 300 U
91-57-6	2-Methylnaphthalene	61	< 61 U
77-47-4	Hexachlorocyclopentadiene	300	< 300 U
88-06-2	2,4,6-Trichlorophenol	300	< 300 U
95-95-4	2,4,5-Trichlorophenol	300	< 300 U
91-58-7	2-Chloronaphthalene	61	< 61 U
88-74-4	2-Nitroaniline	300	< 300 U
131-11-3	Dimethylphthalate	61	< 61 U
208-96-8	Acenaphthylene	61	< 61 U
99-09-2	3-Nitroaniline	300	< 300 U
83-32-9	Acenaphthene	61	< 61 U
51-28-5	2,4-Dinitrophenol	610	< 610 U
100-02-7	4-Nitrophenol	300	< 300 U
132-64-9	Dibenzofuran	61	< 61 U
606-20-2	2,6-Dinitrotoluene	300	< 300 U
121-14-2	2,4-Dinitrotoluene	300	< 300 U
84-66-2	Diethylphthalate	61	< 61 U
7005-72-3	4-Chlorophenyl-phenylether	61	< 61 U
86-73-7	Fluorene	61	< 61 U
100-01-6	4-Nitroaniline	300	< 300 U
534-52-1	4,6-Dinitro-2-Methylphenol	610	< 610 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS

Sample ID: JF-T1B1-SO-08
SAMPLE

Lab Sample ID: SE82L
LIMS ID: 11-859
Matrix: Soil
Date Analyzed: 01/25/11 02:04

QC Report No: SE82-The Boeing Company
Project: Jorgenson Forge
7KPL2JDR

CAS Number	Analyte	RL	Result
86-30-6	N-Nitrosodiphenylamine	61	< 61 U
101-55-3	4-Bromophenyl-phenylether	61	< 61 U
118-74-1	Hexachlorobenzene	61	< 61 U
87-86-5	Pentachlorophenol	300	< 300 U
85-01-8	Phenanthrene	61	< 61 U
86-74-8	Carbazole	61	< 61 U
120-12-7	Anthracene	61	< 61 U
84-74-2	Di-n-Butylphthalate	61	< 61 U
206-44-0	Fluoranthene	61	< 61 U
129-00-0	Pyrene	61	< 61 U
85-68-7	Butylbenzylphthalate	61	< 61 U
91-94-1	3,3'-Dichlorobenzidine	300	< 300 U
56-55-3	Benzo(a)anthracene	61	< 61 U
117-81-7	bis(2-Ethylhexyl)phthalate	61	< 61 U
218-01-9	Chrysene	61	< 61 U
117-84-0	Di-n-Octyl phthalate	61	< 61 U
50-32-8	Benzo(a)pyrene	61	< 61 U
193-39-5	Indeno(1,2,3-cd)pyrene	61	< 61 U
53-70-3	Dibenz(a,h)anthracene	61	< 61 U
191-24-2	Benzo(g,h,i)perylene	61	< 61 U
90-12-0	1-Methylnaphthalene	61	< 61 U
TOTBFA	Total Benzofluoranthenes	61	< 61 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	61.2%	2-Fluorobiphenyl	68.0%
d14-p-Terphenyl	68.4%	d4-1,2-Dichlorobenzene	66.0%
d5-Phenol	66.1%	2-Fluorophenol	62.4%
2,4,6-Tribromophenol	66.9%	d4-2-Chlorophenol	67.5%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS

Sample ID: JF-T1B1-SO-13
SAMPLE

Lab Sample ID: SE82M
LIMS ID: 11-860
Matrix: Soil
Data Release Authorized:
Reported: 01/27/11

QC Report No: SE82-The Boeing Company
Project: Jorgenson Forge
7KPL2JDR
Date Sampled: 01/14/11
Date Received: 01/14/11

Date Extracted: 01/18/11
Date Analyzed: 01/25/11 02:37
Instrument/Analyst: NT6/JZ
GPC Cleanup: Yes

Sample Amount: 7.98 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 28.8%

CAS Number	Analyte	RL	Result
108-95-2	Phenol	63	< 63 U
111-44-4	Bis-(2-Chloroethyl) Ether	63	< 63 U
95-57-8	2-Chlorophenol	63	< 63 U
541-73-1	1,3-Dichlorobenzene	63	< 63 U
106-46-7	1,4-Dichlorobenzene	63	< 63 U
100-51-6	Benzyl Alcohol	310	< 310 U
95-50-1	1,2-Dichlorobenzene	63	< 63 U
95-48-7	2-Methylphenol	63	< 63 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	63	< 63 U
106-44-5	4-Methylphenol	63	< 63 U
621-64-7	N-Nitroso-Di-N-Propylamine	63	< 63 U
67-72-1	Hexachloroethane	63	< 63 U
98-95-3	Nitrobenzene	63	< 63 U
78-59-1	Isophorone	63	< 63 U
88-75-5	2-Nitrophenol	63	< 63 U
105-67-9	2,4-Dimethylphenol	63	< 63 U
65-85-0	Benzoic Acid	630	< 630 U
111-91-1	bis(2-Chloroethoxy) Methane	63	< 63 U
120-83-2	2,4-Dichlorophenol	310	< 310 U
120-82-1	1,2,4-Trichlorobenzene	63	< 63 U
91-20-3	Naphthalene	63	< 63 U
106-47-8	4-Chloroaniline	310	< 310 U
87-68-3	Hexachlorobutadiene	63	< 63 U
59-50-7	4-Chloro-3-methylphenol	310	< 310 U
91-57-6	2-Methylnaphthalene	63	< 63 U
77-47-4	Hexachlorocyclopentadiene	310	< 310 U
88-06-2	2,4,6-Trichlorophenol	310	< 310 U
95-95-4	2,4,5-Trichlorophenol	310	< 310 U
91-58-7	2-Chloronaphthalene	63	< 63 U
88-74-4	2-Nitroaniline	310	< 310 U
131-11-3	Dimethylphthalate	63	< 63 U
208-96-8	Acenaphthylene	63	< 63 U
99-09-2	3-Nitroaniline	310	< 310 U
83-32-9	Acenaphthene	63	< 63 U
51-28-5	2,4-Dinitrophenol	630	< 630 U
100-02-7	4-Nitrophenol	310	< 310 U
132-64-9	Dibenzofuran	63	< 63 U
606-20-2	2,6-Dinitrotoluene	310	< 310 U
121-14-2	2,4-Dinitrotoluene	310	< 310 U
84-66-2	Diethylphthalate	63	< 63 U
7005-72-3	4-Chlorophenyl-phenylether	63	< 63 U
86-73-7	Fluorene	63	< 63 U
100-01-6	4-Nitroaniline	310	< 310 U
534-52-1	4,6-Dinitro-2-Methylphenol	630	< 630 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS

Sample ID: JF-T1B1-SO-13
SAMPLE

Lab Sample ID: SE82M
LIMS ID: 11-860
Matrix: Soil
Date Analyzed: 01/25/11 02:37

QC Report No: SE82-The Boeing Company
Project: Jorgenson Forge
7KPL2JDR

CAS Number	Analyte	RL	Result
86-30-6	N-Nitrosodiphenylamine	63	< 63 U
101-55-3	4-Bromophenyl-phenylether	63	< 63 U
118-74-1	Hexachlorobenzene	63	< 63 U
87-86-5	Pentachlorophenol	310	< 310 U
85-01-8	Phenanthrene	63	< 63 U
86-74-8	Carbazole	63	< 63 U
120-12-7	Anthracene	63	< 63 U
84-74-2	Di-n-Butylphthalate	63	< 63 U
206-44-0	Fluoranthene	63	< 63 U
129-00-0	Pyrene	63	< 63 U
85-68-7	Butylbenzylphthalate	63	< 63 U
91-94-1	3,3'-Dichlorobenzidine	310	< 310 U
56-55-3	Benzo(a)anthracene	63	< 63 U
117-81-7	bis(2-Ethylhexyl)phthalate	63	< 63 U
218-01-9	Chrysene	63	< 63 U
117-84-0	Di-n-Octyl phthalate	63	< 63 U
50-32-8	Benzo(a)pyrene	63	< 63 U
193-39-5	Indeno(1,2,3-cd)pyrene	63	< 63 U
53-70-3	Dibenz(a,h)anthracene	63	< 63 U
191-24-2	Benzo(g,h,i)perylene	63	< 63 U
90-12-0	1-Methylnaphthalene	63	< 63 U
TOTBFA	Total Benzofluoranthenes	63	< 63 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	61.2%	2-Fluorobiphenyl	69.6%
d14-p-Terphenyl	74.0%	d4-1,2-Dichlorobenzene	64.4%
d5-Phenol	65.3%	2-Fluorophenol	62.9%
2,4,6-Tribromophenol	70.7%	d4-2-Chlorophenol	66.9%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS

Sample ID: JF-T1B4-SO-03
SAMPLE

Lab Sample ID: SE82N
LIMS ID: 11-861
Matrix: Soil
Data Release Authorized:
Reported: 01/27/11

QC Report No: SE82-The Boeing Company
Project: Jorgenson Forge
7KPL2JDR
Date Sampled: 01/14/11
Date Received: 01/14/11

Date Extracted: 01/18/11
Date Analyzed: 01/25/11 03:10
Instrument/Analyst: NT6/JZ
GPC Cleanup: Yes

Sample Amount: 8.15 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 19.8%

CAS Number	Analyte	RL	Result
108-95-2	Phenol	61	< 61 U
111-44-4	Bis-(2-Chloroethyl) Ether	61	< 61 U
95-57-8	2-Chlorophenol	61	< 61 U
541-73-1	1,3-Dichlorobenzene	61	< 61 U
106-46-7	1,4-Dichlorobenzene	61	< 61 U
100-51-6	Benzyl Alcohol	310	< 310 U
95-50-1	1,2-Dichlorobenzene	61	< 61 U
95-48-7	2-Methylphenol	61	< 61 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	61	< 61 U
106-44-5	4-Methylphenol	61	< 61 U
621-64-7	N-Nitroso-Di-N-Propylamine	61	< 61 U
67-72-1	Hexachloroethane	61	< 61 U
98-95-3	Nitrobenzene	61	< 61 U
78-59-1	Isophorone	61	< 61 U
88-75-5	2-Nitrophenol	61	< 61 U
105-67-9	2,4-Dimethylphenol	61	< 61 U
65-85-0	Benzoic Acid	610	< 610 U
111-91-1	bis(2-Chloroethoxy) Methane	61	< 61 U
120-83-2	2,4-Dichlorophenol	310	< 310 U
120-82-1	1,2,4-Trichlorobenzene	61	< 61 U
91-20-3	Naphthalene	61	< 61 U
106-47-8	4-Chloroaniline	310	< 310 U
87-68-3	Hexachlorobutadiene	61	< 61 U
59-50-7	4-Chloro-3-methylphenol	310	< 310 U
91-57-6	2-Methylnaphthalene	61	< 61 U
77-47-4	Hexachlorocyclopentadiene	310	< 310 U
88-06-2	2,4,6-Trichlorophenol	310	< 310 U
95-95-4	2,4,5-Trichlorophenol	310	< 310 U
91-58-7	2-Chloronaphthalene	61	< 61 U
88-74-4	2-Nitroaniline	310	< 310 U
131-11-3	Dimethylphthalate	61	< 61 U
208-96-8	Acenaphthylene	61	< 61 U
99-09-2	3-Nitroaniline	310	< 310 U
83-32-9	Acenaphthene	61	< 61 U
51-28-5	2,4-Dinitrophenol	610	< 610 U
100-02-7	4-Nitrophenol	310	< 310 U
132-64-9	Dibenzofuran	61	< 61 U
606-20-2	2,6-Dinitrotoluene	310	< 310 U
121-14-2	2,4-Dinitrotoluene	310	< 310 U
84-66-2	Diethylphthalate	61	< 61 U
7005-72-3	4-Chlorophenyl-phenylether	61	< 61 U
86-73-7	Fluorene	61	< 61 U
100-01-6	4-Nitroaniline	310	< 310 U
534-52-1	4,6-Dinitro-2-Methylphenol	610	< 610 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS

Sample ID: JF-T1B4-SO-03
SAMPLE

Lab Sample ID: SE82N
LIMS ID: 11-861
Matrix: Soil
Date Analyzed: 01/25/11 03:10

QC Report No: SE82-The Boeing Company
Project: Jorgenson Forge
7KPL2JDR

CAS Number	Analyte	RL	Result
86-30-6	N-Nitrosodiphenylamine	61	< 61 U
101-55-3	4-Bromophenyl-phenylether	61	< 61 U
118-74-1	Hexachlorobenzene	61	< 61 U
87-86-5	Pentachlorophenol	310	< 310 U
85-01-8	Phenanthrene	61	< 61 U
86-74-8	Carbazole	61	< 61 U
120-12-7	Anthracene	61	< 61 U
84-74-2	Di-n-Butylphthalate	61	< 61 U
206-44-0	Fluoranthene	61	< 61 U
129-00-0	Pyrene	61	< 61 U
85-68-7	Butylbenzylphthalate	61	< 61 U
91-94-1	3,3'-Dichlorobenzidine	310	< 310 U
56-55-3	Benzo(a)anthracene	61	< 61 U
117-81-7	bis(2-Ethylhexyl)phthalate	61	< 61 U
218-01-9	Chrysene	61	< 61 U
117-84-0	Di-n-Octyl phthalate	61	< 61 U
50-32-8	Benzo(a)pyrene	61	< 61 U
193-39-5	Indeno(1,2,3-cd)pyrene	61	< 61 U
53-70-3	Dibenz(a,h)anthracene	61	< 61 U
191-24-2	Benzo(g,h,i)perylene	61	< 61 U
90-12-0	1-Methylnaphthalene	61	< 61 U
TOTBFA	Total Benzofluoranthenes	61	< 61 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	59.6%	2-Fluorobiphenyl	74.4%
d14-p-Terphenyl	72.8%	d4-1,2-Dichlorobenzene	59.2%
d5-Phenol	53.9%	2-Fluorophenol	35.5%
2,4,6-Tribromophenol	45.6%	d4-2-Chlorophenol	54.9%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS

Sample ID: JF-T1B4-SO-12
SAMPLE

Lab Sample ID: SE82O
LIMS ID: 11-862
Matrix: Soil
Data Release Authorized: MW
Reported: 01/27/11

QC Report No: SE82-The Boeing Company
Project: Jorgenson Forge
7KPL2JDR
Date Sampled: 01/14/11
Date Received: 01/14/11

Date Extracted: 01/18/11
Date Analyzed: 01/25/11 03:43
Instrument/Analyst: NT6/JZ
GPC Cleanup: Yes

Sample Amount: 8.73 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 17.4%

CAS Number	Analyte	RL	Result
108-95-2	Phenol	57	< 57 U
111-44-4	Bis-(2-Chloroethyl) Ether	57	< 57 U
95-57-8	2-Chlorophenol	57	< 57 U
541-73-1	1,3-Dichlorobenzene	57	< 57 U
106-46-7	1,4-Dichlorobenzene	57	< 57 U
100-51-6	Benzyl Alcohol	290	< 290 U
95-50-1	1,2-Dichlorobenzene	57	< 57 U
95-48-7	2-Methylphenol	57	< 57 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	57	< 57 U
106-44-5	4-Methylphenol	57	< 57 U
621-64-7	N-Nitroso-Di-N-Propylamine	57	< 57 U
67-72-1	Hexachloroethane	57	< 57 U
98-95-3	Nitrobenzene	57	< 57 U
78-59-1	Isophorone	57	< 57 U
88-75-5	2-Nitrophenol	57	< 57 U
105-67-9	2,4-Dimethylphenol	57	< 57 U
65-85-0	Benzoic Acid	570	< 570 U
111-91-1	bis(2-Chloroethoxy) Methane	57	< 57 U
120-83-2	2,4-Dichlorophenol	290	< 290 U
120-82-1	1,2,4-Trichlorobenzene	57	< 57 U
91-20-3	Naphthalene	57	< 57 U
106-47-8	4-Chloroaniline	290	< 290 U
87-68-3	Hexachlorobutadiene	57	< 57 U
59-50-7	4-Chloro-3-methylphenol	290	< 290 U
91-57-6	2-Methylnaphthalene	57	< 57 U
77-47-4	Hexachlorocyclopentadiene	290	< 290 U
88-06-2	2,4,6-Trichlorophenol	290	< 290 U
95-95-4	2,4,5-Trichlorophenol	290	< 290 U
91-58-7	2-Chloronaphthalene	57	< 57 U
88-74-4	2-Nitroaniline	290	< 290 U
131-11-3	Dimethylphthalate	57	< 57 U
208-96-8	Acenaphthylene	57	< 57 U
99-09-2	3-Nitroaniline	290	< 290 U
83-32-9	Acenaphthene	57	< 57 U
51-28-5	2,4-Dinitrophenol	570	< 570 U
100-02-7	4-Nitrophenol	290	< 290 U
132-64-9	Dibenzofuran	57	< 57 U
606-20-2	2,6-Dinitrotoluene	290	< 290 U
121-14-2	2,4-Dinitrotoluene	290	< 290 U
84-66-2	Diethylphthalate	57	< 57 U
7005-72-3	4-Chlorophenyl-phenylether	57	< 57 U
86-73-7	Fluorene	57	< 57 U
100-01-6	4-Nitroaniline	290	< 290 U
534-52-1	4,6-Dinitro-2-Methylphenol	570	< 570 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS

Sample ID: JF-T1B4-SO-12
SAMPLE

Lab Sample ID: SE82O
LIMS ID: 11-862
Matrix: Soil
Date Analyzed: 01/25/11 03:43

QC Report No: SE82-The Boeing Company
Project: Jorgenson Forge
7KPL2JDR

CAS Number	Analyte	RL	Result
86-30-6	N-Nitrosodiphenylamine	57	< 57 U
101-55-3	4-Bromophenyl-phenylether	57	< 57 U
118-74-1	Hexachlorobenzene	57	< 57 U
87-86-5	Pentachlorophenol	290	< 290 U
85-01-8	Phenanthrene	57	< 57 U
86-74-8	Carbazole	57	< 57 U
120-12-7	Anthracene	57	< 57 U
84-74-2	Di-n-Butylphthalate	57	< 57 U
206-44-0	Fluoranthene	57	< 57 U
129-00-0	Pyrene	57	< 57 U
85-68-7	Butylbenzylphthalate	57	< 57 U
91-94-1	3,3'-Dichlorobenzidine	290	< 290 U
56-55-3	Benzo(a)anthracene	57	< 57 U
117-81-7	bis(2-Ethylhexyl)phthalate	57	< 57 U
218-01-9	Chrysene	57	< 57 U
117-84-0	Di-n-Octyl phthalate	57	< 57 U
50-32-8	Benzo(a)pyrene	57	< 57 U
193-39-5	Indeno(1,2,3-cd)pyrene	57	< 57 U
53-70-3	Dibenz(a,h)anthracene	57	< 57 U
191-24-2	Benzo(g,h,i)perylene	57	< 57 U
90-12-0	1-Methylnaphthalene	57	< 57 U
TOTBFA	Total Benzofluoranthenes	57	< 57 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	64.0%	2-Fluorobiphenyl	77.2%
d14-p-Terphenyl	74.8%	d4-1,2-Dichlorobenzene	66.0%
d5-Phenol	61.6%	2-Fluorophenol	46.7%
2,4,6-Tribromophenol	61.3%	d4-2-Chlorophenol	62.7%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS

Sample ID: JF-T1B4-SO-18
SAMPLE

Lab Sample ID: SE82P
LIMS ID: 11-863
Matrix: Soil
Data Release Authorized:
Reported: 01/27/11

QC Report No: SE82-The Boeing Company
Project: Jorgenson Forge
7KPL2JDR
Date Sampled: 01/14/11
Date Received: 01/14/11

Date Extracted: 01/18/11
Date Analyzed: 01/25/11 04:16
Instrument/Analyst: NT6/JZ
GPC Cleanup: Yes

Sample Amount: 7.98 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 21.5%

CAS Number	Analyte	RL	Result
108-95-2	Phenol	63	< 63 U
111-44-4	Bis-(2-Chloroethyl) Ether	63	< 63 U
95-57-8	2-Chlorophenol	63	< 63 U
541-73-1	1,3-Dichlorobenzene	63	< 63 U
106-46-7	1,4-Dichlorobenzene	63	< 63 U
100-51-6	Benzyl Alcohol	310	< 310 U
95-50-1	1,2-Dichlorobenzene	63	< 63 U
95-48-7	2-Methylphenol	63	< 63 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	63	< 63 U
106-44-5	4-Methylphenol	63	< 63 U
621-64-7	N-Nitroso-Di-N-Propylamine	63	< 63 U
67-72-1	Hexachloroethane	63	< 63 U
98-95-3	Nitrobenzene	63	< 63 U
78-59-1	Isophorone	63	< 63 U
88-75-5	2-Nitrophenol	63	< 63 U
105-67-9	2,4-Dimethylphenol	63	< 63 U
65-85-0	Benzoic Acid	630	< 630 U
111-91-1	bis(2-Chloroethoxy) Methane	63	< 63 U
120-83-2	2,4-Dichlorophenol	310	< 310 U
120-82-1	1,2,4-Trichlorobenzene	63	< 63 U
91-20-3	Naphthalene	63	< 63 U
106-47-8	4-Chloroaniline	310	< 310 U
87-68-3	Hexachlorobutadiene	63	< 63 U
59-50-7	4-Chloro-3-methylphenol	310	< 310 U
91-57-6	2-Methylnaphthalene	63	< 63 U
77-47-4	Hexachlorocyclopentadiene	310	< 310 U
88-06-2	2,4,6-Trichlorophenol	310	< 310 U
95-95-4	2,4,5-Trichlorophenol	310	< 310 U
91-58-7	2-Chloronaphthalene	63	< 63 U
88-74-4	2-Nitroaniline	310	< 310 U
131-11-3	Dimethylphthalate	63	< 63 U
208-96-8	Acenaphthylene	63	< 63 U
99-09-2	3-Nitroaniline	310	< 310 U
83-32-9	Acenaphthene	63	< 63 U
51-28-5	2,4-Dinitrophenol	630	< 630 U
100-02-7	4-Nitrophenol	310	< 310 U
132-64-9	Dibenzofuran	63	< 63 U
606-20-2	2,6-Dinitrotoluene	310	< 310 U
121-14-2	2,4-Dinitrotoluene	310	< 310 U
84-66-2	Diethylphthalate	63	< 63 U
7005-72-3	4-Chlorophenyl-phenylether	63	< 63 U
86-73-7	Fluorene	63	< 63 U
100-01-6	4-Nitroaniline	310	< 310 U
534-52-1	4,6-Dinitro-2-Methylphenol	630	< 630 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS

Sample ID: JF-T1B4-SO-18
SAMPLE

Lab Sample ID: SE82P
LIMS ID: 11-863
Matrix: Soil
Date Analyzed: 01/25/11 04:16

QC Report No: SE82-The Boeing Company
Project: Jorgenson Forge
7KPL2JDR

CAS Number	Analyte	RL	Result
86-30-6	N-Nitrosodiphenylamine	63	< 63 U
101-55-3	4-Bromophenyl-phenylether	63	< 63 U
118-74-1	Hexachlorobenzene	63	< 63 U
87-86-5	Pentachlorophenol	310	< 310 U
85-01-8	Phenanthrene	63	< 63 U
86-74-8	Carbazole	63	< 63 U
120-12-7	Anthracene	63	< 63 U
84-74-2	Di-n-Butylphthalate	63	< 63 U
206-44-0	Fluoranthene	63	< 63 U
129-00-0	Pyrene	63	< 63 U
85-68-7	Butylbenzylphthalate	63	< 63 U
91-94-1	3,3'-Dichlorobenzidine	310	< 310 U
56-55-3	Benzo(a)anthracene	63	< 63 U
117-81-7	bis(2-Ethylhexyl)phthalate	63	< 63 U
218-01-9	Chrysene	63	< 63 U
117-84-0	Di-n-Octyl phthalate	63	< 63 U
50-32-8	Benzo(a)pyrene	63	< 63 U
193-39-5	Indeno(1,2,3-cd)pyrene	63	< 63 U
53-70-3	Dibenz(a,h)anthracene	63	< 63 U
191-24-2	Benzo(g,h,i)perylene	63	< 63 U
90-12-0	1-Methylnaphthalene	63	< 63 U
TOTBFA	Total Benzofluoranthenes	63	< 63 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	65.2%	2-Fluorobiphenyl	76.0%
d14-p-Terphenyl	82.8%	d4-1,2-Dichlorobenzene	68.0%
d5-Phenol	61.3%	2-Fluorophenol	46.9%
2,4,6-Tribromophenol	59.2%	d4-2-Chlorophenol	62.9%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS

Sample ID: JF-T1B3-SO-03
SAMPLE

Lab Sample ID: SE82Q
LIMS ID: 11-864
Matrix: Soil
Data Release Authorized:
Reported: 01/27/11

QC Report No: SE82-The Boeing Company
Project: Jorgenson Forge
7KPL2JDR
Date Sampled: 01/14/11
Date Received: 01/14/11

Date Extracted: 01/18/11
Date Analyzed: 01/25/11 04:49
Instrument/Analyst: NT6/JZ
GPC Cleanup: Yes

Sample Amount: 7.67 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 6.1%

CAS Number	Analyte	RL	Result
108-95-2	Phenol	65	< 65 U
111-44-4	Bis-(2-Chloroethyl) Ether	65	< 65 U
95-57-8	2-Chlorophenol	65	< 65 U
541-73-1	1,3-Dichlorobenzene	65	< 65 U
106-46-7	1,4-Dichlorobenzene	65	< 65 U
100-51-6	Benzyl Alcohol	330	< 330 U
95-50-1	1,2-Dichlorobenzene	65	< 65 U
95-48-7	2-Methylphenol	65	< 65 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	65	< 65 U
106-44-5	4-Methylphenol	65	< 65 U
621-64-7	N-Nitroso-Di-N-Propylamine	65	< 65 U
67-72-1	Hexachloroethane	65	< 65 U
98-95-3	Nitrobenzene	65	< 65 U
78-59-1	Isophorone	65	< 65 U
88-75-5	2-Nitrophenol	65	< 65 U
105-67-9	2,4-Dimethylphenol	65	< 65 U
65-85-0	Benzoic Acid	650	< 650 U
111-91-1	bis(2-Chloroethoxy) Methane	65	< 65 U
120-83-2	2,4-Dichlorophenol	330	< 330 U
120-82-1	1,2,4-Trichlorobenzene	65	< 65 U
91-20-3	Naphthalene	65	< 65 U
106-47-8	4-Chloroaniline	330	< 330 U
87-68-3	Hexachlorobutadiene	65	< 65 U
59-50-7	4-Chloro-3-methylphenol	330	< 330 U
91-57-6	2-Methylnaphthalene	65	< 65 U
77-47-4	Hexachlorocyclopentadiene	330	< 330 U
88-06-2	2,4,6-Trichlorophenol	330	< 330 U
95-95-4	2,4,5-Trichlorophenol	330	< 330 U
91-58-7	2-Chloronaphthalene	65	< 65 U
88-74-4	2-Nitroaniline	330	< 330 U
131-11-3	Dimethylphthalate	65	< 65 U
208-96-8	Acenaphthylene	65	< 65 U
99-09-2	3-Nitroaniline	330	< 330 U
83-32-9	Acenaphthene	65	< 65 U
51-28-5	2,4-Dinitrophenol	650	< 650 U
100-02-7	4-Nitrophenol	330	< 330 U
132-64-9	Dibenzofuran	65	< 65 U
606-20-2	2,6-Dinitrotoluene	330	< 330 U
121-14-2	2,4-Dinitrotoluene	330	< 330 U
84-66-2	Diethylphthalate	65	< 65 U
7005-72-3	4-Chlorophenyl-phenylether	65	< 65 U
86-73-7	Fluorene	65	< 65 U
100-01-6	4-Nitroaniline	330	< 330 U
534-52-1	4,6-Dinitro-2-Methylphenol	650	< 650 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS

Sample ID: JF-T1B3-SO-03
SAMPLE

Lab Sample ID: SE82Q
LIMS ID: 11-864
Matrix: Soil
Date Analyzed: 01/25/11 04:49

QC Report No: SE82-The Boeing Company
Project: Jorgenson Forge
7KPL2JDR

CAS Number	Analyte	RL	Result
86-30-6	N-Nitrosodiphenylamine	65	< 65 U
101-55-3	4-Bromophenyl-phenylether	65	< 65 U
118-74-1	Hexachlorobenzene	65	< 65 U
87-86-5	Pentachlorophenol	330	< 330 U
85-01-8	Phenanthrene	65	< 65 U
86-74-8	Carbazole	65	< 65 U
120-12-7	Anthracene	65	< 65 U
84-74-2	Di-n-Butylphthalate	65	< 65 U
206-44-0	Fluoranthene	65	< 65 U
129-00-0	Pyrene	65	< 65 U
85-68-7	Butylbenzylphthalate	65	< 65 U
91-94-1	3,3'-Dichlorobenzidine	330	< 330 U
56-55-3	Benzo(a)anthracene	65	< 65 U
117-81-7	bis(2-Ethylhexyl)phthalate	65	< 65 U
218-01-9	Chrysene	65	< 65 U
117-84-0	Di-n-Octyl phthalate	65	< 65 U
50-32-8	Benzo(a)pyrene	65	< 65 U
193-39-5	Indeno(1,2,3-cd)pyrene	65	< 65 U
53-70-3	Dibenz(a,h)anthracene	65	< 65 U
191-24-2	Benzo(g,h,i)perylene	65	< 65 U
90-12-0	1-Methylnaphthalene	65	< 65 U
TOTBFA	Total Benzofluoranthenes	65	< 65 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	56.4%	2-Fluorobiphenyl	66.0%
d14-p-Terphenyl	78.4%	d4-1,2-Dichlorobenzene	59.2%
d5-Phenol	61.9%	2-Fluorophenol	54.9%
2,4,6-Tribromophenol	72.3%	d4-2-Chlorophenol	61.6%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS

Sample ID: JF-T1B3-SO-08
SAMPLE

Lab Sample ID: SE82R
LIMS ID: 11-865
Matrix: Soil
Data Release Authorized:
Reported: 01/27/11

QC Report No: SE82-The Boeing Company
Project: Jorgenson Forge
7KPL2JDR
Date Sampled: 01/14/11
Date Received: 01/14/11

Date Extracted: 01/18/11
Date Analyzed: 01/26/11 16:31
Instrument/Analyst: NT6/JZ
GPC Cleanup: Yes

Sample Amount: 8.00 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 11.1%

CAS Number	Analyte	RL	Result
108-95-2	Phenol	62	< 62 U
111-44-4	Bis-(2-Chloroethyl) Ether	62	< 62 U
95-57-8	2-Chlorophenol	62	< 62 U
541-73-1	1,3-Dichlorobenzene	62	< 62 U
106-46-7	1,4-Dichlorobenzene	62	< 62 U
100-51-6	Benzyl Alcohol	310	< 310 U
95-50-1	1,2-Dichlorobenzene	62	< 62 U
95-48-7	2-Methylphenol	62	< 62 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	62	< 62 U
106-44-5	4-Methylphenol	62	< 62 U
621-64-7	N-Nitroso-Di-N-Propylamine	62	< 62 U
67-72-1	Hexachloroethane	62	< 62 U
98-95-3	Nitrobenzene	62	< 62 U
78-59-1	Isophorone	62	< 62 U
88-75-5	2-Nitrophenol	62	< 62 U
105-67-9	2,4-Dimethylphenol	62	< 62 U
65-85-0	Benzoic Acid	620	< 620 U
111-91-1	bis(2-Chloroethoxy) Methane	62	< 62 U
120-83-2	2,4-Dichlorophenol	310	< 310 U
120-82-1	1,2,4-Trichlorobenzene	62	< 62 U
91-20-3	Naphthalene	62	< 62 U
106-47-8	4-Chloroaniline	310	< 310 U
87-68-3	Hexachlorobutadiene	62	< 62 U
59-50-7	4-Chloro-3-methylphenol	310	< 310 U
91-57-6	2-Methylnaphthalene	62	< 62 U
77-47-4	Hexachlorocyclopentadiene	310	< 310 U
88-06-2	2,4,6-Trichlorophenol	310	< 310 U
95-95-4	2,4,5-Trichlorophenol	310	< 310 U
91-58-7	2-Chloronaphthalene	62	< 62 U
88-74-4	2-Nitroaniline	310	< 310 U
131-11-3	Dimethylphthalate	62	< 62 U
208-96-8	Acenaphthylene	62	< 62 U
99-09-2	3-Nitroaniline	310	< 310 U
83-32-9	Acenaphthene	62	< 62 U
51-28-5	2,4-Dinitrophenol	620	< 620 U
100-02-7	4-Nitrophenol	310	< 310 U
132-64-9	Dibenzofuran	62	< 62 U
606-20-2	2,6-Dinitrotoluene	310	< 310 U
121-14-2	2,4-Dinitrotoluene	310	< 310 U
84-66-2	Diethylphthalate	62	< 62 U
7005-72-3	4-Chlorophenyl-phenylether	62	< 62 U
86-73-7	Fluorene	62	< 62 U
100-01-6	4-Nitroaniline	310	< 310 U
534-52-1	4,6-Dinitro-2-Methylphenol	620	< 620 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS

Sample ID: JF-T1B3-SO-08
SAMPLE

Lab Sample ID: SE82R
LIMS ID: 11-865
Matrix: Soil
Date Analyzed: 01/26/11 16:31

QC Report No: SE82-The Boeing Company
Project: Jorgenson Forge
7KPL2JDR

CAS Number	Analyte	RL	Result
86-30-6	N-Nitrosodiphenylamine	62	< 62 U
101-55-3	4-Bromophenyl-phenylether	62	< 62 U
118-74-1	Hexachlorobenzene	62	< 62 U
87-86-5	Pentachlorophenol	310	< 310 U
85-01-8	Phenanthrene	62	< 62 U
86-74-8	Carbazole	62	< 62 U
120-12-7	Anthracene	62	< 62 U
84-74-2	Di-n-Butylphthalate	62	< 62 U
206-44-0	Fluoranthene	62	< 62 U
129-00-0	Pyrene	62	< 62 U
85-68-7	Butylbenzylphthalate	62	< 62 U
91-94-1	3,3'-Dichlorobenzidine	310	< 310 U
56-55-3	Benzo(a)anthracene	62	< 62 U
117-81-7	bis(2-Ethylhexyl)phthalate	62	< 62 U
218-01-9	Chrysene	62	< 62 U
117-84-0	Di-n-Octyl phthalate	62	< 62 U
50-32-8	Benzo(a)pyrene	62	< 62 U
193-39-5	Indeno(1,2,3-cd)pyrene	62	< 62 U
53-70-3	Dibenz(a,h)anthracene	62	< 62 U
191-24-2	Benzo(g,h,i)perylene	62	< 62 U
90-12-0	1-Methylnaphthalene	62	< 62 U
TOTBFA	Total Benzofluoranthenes	62	< 62 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	60.8%	2-Fluorobiphenyl	76.8%
d14-p-Terphenyl	75.2%	d4-1,2-Dichlorobenzene	62.8%
d5-Phenol	45.1%	2-Fluorophenol	23.2%
2,4,6-Tribromophenol	28.8%	d4-2-Chlorophenol	47.7%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS

Sample ID: JF-T1B3-SO-18
SAMPLE

Lab Sample ID: SE82S
LIMS ID: 11-866
Matrix: Soil
Data Release Authorized:
Reported: 01/27/11

QC Report No: SE82-The Boeing Company
Project: Jorgenson Forge
7KPL2JDR
Date Sampled: 01/14/11
Date Received: 01/14/11

Date Extracted: 01/18/11
Date Analyzed: 01/25/11 05:54
Instrument/Analyst: NT6/JZ
GPC Cleanup: Yes

Sample Amount: 8.00 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 38.9%

CAS Number	Analyte	RL	Result
108-95-2	Phenol	62	< 62 U
111-44-4	Bis-(2-Chloroethyl) Ether	62	< 62 U
95-57-8	2-Chlorophenol	62	< 62 U
541-73-1	1,3-Dichlorobenzene	62	< 62 U
106-46-7	1,4-Dichlorobenzene	62	< 62 U
100-51-6	Benzyl Alcohol	310	< 310 U
95-50-1	1,2-Dichlorobenzene	62	< 62 U
95-48-7	2-Methylphenol	62	< 62 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	62	< 62 U
106-44-5	4-Methylphenol	62	< 62 U
621-64-7	N-Nitroso-Di-N-Propylamine	62	< 62 U
67-72-1	Hexachloroethane	62	< 62 U
98-95-3	Nitrobenzene	62	< 62 U
78-59-1	Isophorone	62	< 62 U
88-75-5	2-Nitrophenol	62	< 62 U
105-67-9	2,4-Dimethylphenol	62	< 62 U
65-85-0	Benzoic Acid	620	< 620 U
111-91-1	bis(2-Chloroethoxy) Methane	62	< 62 U
120-83-2	2,4-Dichlorophenol	310	< 310 U
120-82-1	1,2,4-Trichlorobenzene	62	< 62 U
91-20-3	Naphthalene	62	< 62 U
106-47-8	4-Chloroaniline	310	< 310 U
87-68-3	Hexachlorobutadiene	62	< 62 U
59-50-7	4-Chloro-3-methylphenol	310	< 310 U
91-57-6	2-Methylnaphthalene	62	< 62 U
77-47-4	Hexachlorocyclopentadiene	310	< 310 U
88-06-2	2,4,6-Trichlorophenol	310	< 310 U
95-95-4	2,4,5-Trichlorophenol	310	< 310 U
91-58-7	2-Chloronaphthalene	62	< 62 U
88-74-4	2-Nitroaniline	310	< 310 U
131-11-3	Dimethylphthalate	62	< 62 U
208-96-8	Acenaphthylene	62	< 62 U
99-09-2	3-Nitroaniline	310	< 310 U
83-32-9	Acenaphthene	62	< 62 U
51-28-5	2,4-Dinitrophenol	620	< 620 U
100-02-7	4-Nitrophenol	310	< 310 U
132-64-9	Dibenzofuran	62	< 62 U
606-20-2	2,6-Dinitrotoluene	310	< 310 U
121-14-2	2,4-Dinitrotoluene	310	< 310 U
84-66-2	Diethylphthalate	62	< 62 U
7005-72-3	4-Chlorophenyl-phenylether	62	< 62 U
86-73-7	Fluorene	62	< 62 U
100-01-6	4-Nitroaniline	310	< 310 U
534-52-1	4,6-Dinitro-2-Methylphenol	620	< 620 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS

Sample ID: JF-T1B3-SO-18
SAMPLE

Lab Sample ID: SE82S
LIMS ID: 11-866
Matrix: Soil
Date Analyzed: 01/25/11 05:54

QC Report No: SE82-The Boeing Company
Project: Jorgenson Forge
7KPL2JDR

CAS Number	Analyte	RL	Result
86-30-6	N-Nitrosodiphenylamine	62	< 62 U
101-55-3	4-Bromophenyl-phenylether	62	< 62 U
118-74-1	Hexachlorobenzene	62	< 62 U
87-86-5	Pentachlorophenol	310	< 310 U
85-01-8	Phenanthrene	62	< 62 U
86-74-8	Carbazole	62	< 62 U
120-12-7	Anthracene	62	< 62 U
84-74-2	**Di-n-Butylphthalate**	**62**	**1,100**
206-44-0	Fluoranthene	62	< 62 U
129-00-0	Pyrene	62	< 62 U
85-68-7	Butylbenzylphthalate	62	< 62 U
91-94-1	3,3'-Dichlorobenzidine	310	< 310 U
56-55-3	Benzo(a)anthracene	62	< 62 U
117-81-7	**bis(2-Ethylhexyl)phthalate**	**62**	**1,500**
218-01-9	Chrysene	62	< 62 U
117-84-0	Di-n-Octyl phthalate	62	< 62 U
50-32-8	Benzo(a)pyrene	62	< 62 U
193-39-5	Indeno(1,2,3-cd)pyrene	62	< 62 U
53-70-3	Dibenz(a,h)anthracene	62	< 62 U
191-24-2	Benzo(g,h,i)perylene	62	< 62 U
90-12-0	1-Methylnaphthalene	62	< 62 U
TOTBFA	Total Benzofluoranthenes	62	< 62 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	58.4%	2-Fluorobiphenyl	70.4%
d14-p-Terphenyl	70.4%	d4-1,2-Dichlorobenzene	61.2%
d5-Phenol	60.5%	2-Fluorophenol	56.0%
2,4,6-Tribromophenol	70.4%	d4-2-Chlorophenol	61.9%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS

Sample ID: JF-T1B2-SO-03-D
SAMPLE

Lab Sample ID: SE82T
LIMS ID: 11-867
Matrix: Soil
Data Release Authorized:
Reported: 01/27/11

QC Report No: SE82-The Boeing Company
Project: Jorgenson Forge
7KPL2JDR
Date Sampled: 01/14/11
Date Received: 01/14/11

Date Extracted: 01/18/11
Date Analyzed: 01/25/11 06:27
Instrument/Analyst: NT6/JZ
GPC Cleanup: Yes

Sample Amount: 8.53 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 17.3%

CAS Number	Analyte	RL	Result
108-95-2	Phenol	59	< 59 U
111-44-4	Bis-(2-Chloroethyl) Ether	59	< 59 U
95-57-8	2-Chlorophenol	59	< 59 U
541-73-1	1,3-Dichlorobenzene	59	< 59 U
106-46-7	1,4-Dichlorobenzene	59	< 59 U
100-51-6	Benzyl Alcohol	290	< 290 U
95-50-1	1,2-Dichlorobenzene	59	< 59 U
95-48-7	2-Methylphenol	59	< 59 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	59	< 59 U
106-44-5	4-Methylphenol	59	< 59 U
621-64-7	N-Nitroso-Di-N-Propylamine	59	< 59 U
67-72-1	Hexachloroethane	59	< 59 U
98-95-3	Nitrobenzene	59	< 59 U
78-59-1	Isophorone	59	< 59 U
88-75-5	2-Nitrophenol	59	< 59 U
105-67-9	2,4-Dimethylphenol	59	< 59 U
65-85-0	Benzoic Acid	590	< 590 U
111-91-1	bis(2-Chloroethoxy) Methane	59	< 59 U
120-83-2	2,4-Dichlorophenol	290	< 290 U
120-82-1	1,2,4-Trichlorobenzene	59	< 59 U
91-20-3	Naphthalene	59	< 59 U
106-47-8	4-Chloroaniline	290	< 290 U
87-68-3	Hexachlorobutadiene	59	< 59 U
59-50-7	4-Chloro-3-methylphenol	290	< 290 U
91-57-6	2-Methylnaphthalene	59	< 59 U
77-47-4	Hexachlorocyclopentadiene	290	< 290 U
88-06-2	2,4,6-Trichlorophenol	290	< 290 U
95-95-4	2,4,5-Trichlorophenol	290	< 290 U
91-58-7	2-Chloronaphthalene	59	< 59 U
88-74-4	2-Nitroaniline	290	< 290 U
131-11-3	Dimethylphthalate	59	< 59 U
208-96-8	Acenaphthylene	59	< 59 U
99-09-2	3-Nitroaniline	290	< 290 U
83-32-9	Acenaphthene	59	< 59 U
51-28-5	2,4-Dinitrophenol	590	< 590 U
100-02-7	4-Nitrophenol	290	< 290 U
132-64-9	Dibenzofuran	59	< 59 U
606-20-2	2,6-Dinitrotoluene	290	< 290 U
121-14-2	2,4-Dinitrotoluene	290	< 290 U
84-66-2	Diethylphthalate	59	< 59 U
7005-72-3	4-Chlorophenyl-phenylether	59	< 59 U
86-73-7	Fluorene	59	< 59 U
100-01-6	4-Nitroaniline	290	< 290 U
534-52-1	4,6-Dinitro-2-Methylphenol	590	< 590 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS

Sample ID: JF-T1B2-SO-03-D
SAMPLE

Lab Sample ID: SE82T
LIMS ID: 11-867
Matrix: Soil
Date Analyzed: 01/25/11 06:27

QC Report No: SE82-The Boeing Company
Project: Jorgenson Forge
7KPL2JDR

CAS Number	Analyte	RL	Result
86-30-6	N-Nitrosodiphenylamine	59	< 59 U
101-55-3	4-Bromophenyl-phenylether	59	< 59 U
118-74-1	Hexachlorobenzene	59	< 59 U
87-86-5	Pentachlorophenol	290	< 290 U
85-01-8	Phenanthrene	59	< 59 U
86-74-8	Carbazole	59	< 59 U
120-12-7	Anthracene	59	< 59 U
84-74-2	Di-n-Butylphthalate	59	< 59 U
206-44-0	Fluoranthene	59	< 59 U
129-00-0	Pyrene	59	< 59 U
85-68-7	Butylbenzylphthalate	59	< 59 U
91-94-1	3,3'-Dichlorobenzidine	290	< 290 U
56-55-3	Benzo(a)anthracene	59	< 59 U
117-81-7	bis(2-Ethylhexyl)phthalate	59	< 59 U
218-01-9	Chrysene	59	< 59 U
117-84-0	Di-n-Octyl phthalate	59	< 59 U
50-32-8	Benzo(a)pyrene	59	< 59 U
193-39-5	Indeno(1,2,3-cd)pyrene	59	< 59 U
53-70-3	Dibenz(a,h)anthracene	59	< 59 U
191-24-2	Benzo(g,h,i)perylene	59	< 59 U
90-12-0	1-Methylnaphthalene	59	< 59 U
TOTBFA	Total Benzofluoranthenes	59	< 59 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	60.8%	2-Fluorobiphenyl	68.8%
d14-p-Terphenyl	75.6%	d4-1,2-Dichlorobenzene	64.4%
d5-Phenol	66.1%	2-Fluorophenol	62.4%
2,4,6-Tribromophenol	71.2%	d4-2-Chlorophenol	66.7%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS

Sample ID: JF-T1B2-SO-08
SAMPLE

Lab Sample ID: SE82U
LIMS ID: 11-868
Matrix: Soil
Data Release Authorized:
Reported: 01/27/11

QC Report No: SE82-The Boeing Company
Project: Jorgenson Forge
7KPL2JDR
Date Sampled: 01/14/11
Date Received: 01/14/11

Date Extracted: 01/18/11
Date Analyzed: 01/25/11 15:20
Instrument/Analyst: NT6/JZ
GPC Cleanup: Yes

Sample Amount: 7.89 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 23.1%

CAS Number	Analyte	RL	Result
108-95-2	Phenol	63	< 63 U
111-44-4	Bis-(2-Chloroethyl) Ether	63	< 63 U
95-57-8	2-Chlorophenol	63	< 63 U
541-73-1	1,3-Dichlorobenzene	63	< 63 U
106-46-7	1,4-Dichlorobenzene	63	< 63 U
100-51-6	Benzyl Alcohol	320	< 320 U
95-50-1	1,2-Dichlorobenzene	63	< 63 U
95-48-7	2-Methylphenol	63	< 63 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	63	< 63 U
106-44-5	4-Methylphenol	63	< 63 U
621-64-7	N-Nitroso-Di-N-Propylamine	63	< 63 U
67-72-1	Hexachloroethane	63	< 63 U
98-95-3	Nitrobenzene	63	< 63 U
78-59-1	Isophorone	63	< 63 U
88-75-5	2-Nitrophenol	63	< 63 U
105-67-9	2,4-Dimethylphenol	63	< 63 U
65-85-0	Benzoic Acid	630	< 630 U
111-91-1	bis(2-Chloroethoxy) Methane	63	< 63 U
120-83-2	2,4-Dichlorophenol	320	< 320 U
120-82-1	1,2,4-Trichlorobenzene	63	< 63 U
91-20-3	Naphthalene	63	< 63 U
106-47-8	4-Chloroaniline	320	< 320 U
87-68-3	Hexachlorobutadiene	63	< 63 U
59-50-7	4-Chloro-3-methylphenol	320	< 320 U
91-57-6	2-Methylnaphthalene	63	< 63 U
77-47-4	Hexachlorocyclopentadiene	320	< 320 U
88-06-2	2,4,6-Trichlorophenol	320	< 320 U
95-95-4	2,4,5-Trichlorophenol	320	< 320 U
91-58-7	2-Chloronaphthalene	63	< 63 U
88-74-4	2-Nitroaniline	320	< 320 U
131-11-3	Dimethylphthalate	63	< 63 U
208-96-8	Acenaphthylene	63	< 63 U
99-09-2	3-Nitroaniline	320	< 320 U
83-32-9	Acenaphthene	63	< 63 U
51-28-5	2,4-Dinitrophenol	630	< 630 U
100-02-7	4-Nitrophenol	320	< 320 U
132-64-9	Dibenzofuran	63	< 63 U
606-20-2	2,6-Dinitrotoluene	320	< 320 U
121-14-2	2,4-Dinitrotoluene	320	< 320 U
84-66-2	Diethylphthalate	63	< 63 U
7005-72-3	4-Chlorophenyl-phenylether	63	< 63 U
86-73-7	Fluorene	63	< 63 U
100-01-6	4-Nitroaniline	320	< 320 U
534-52-1	4,6-Dinitro-2-Methylphenol	630	< 630 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS

Sample ID: JF-T1B2-SO-08
SAMPLE

Lab Sample ID: SE82U
LIMS ID: 11-868
Matrix: Soil
Date Analyzed: 01/25/11 15:20

QC Report No: SE82-The Boeing Company
Project: Jorgenson Forge
7KPL2JDR

CAS Number	Analyte	RL	Result
86-30-6	N-Nitrosodiphenylamine	63	< 63 U
101-55-3	4-Bromophenyl-phenylether	63	< 63 U
118-74-1	Hexachlorobenzene	63	< 63 U
87-86-5	Pentachlorophenol	320	< 320 U
85-01-8	Phenanthrene	63	< 63 U
86-74-8	Carbazole	63	< 63 U
120-12-7	Anthracene	63	< 63 U
84-74-2	Di-n-Butylphthalate	63	< 63 U
206-44-0	Fluoranthene	63	< 63 U
129-00-0	Pyrene	63	< 63 U
85-68-7	Butylbenzylphthalate	63	< 63 U
91-94-1	3,3'-Dichlorobenzidine	320	< 320 U
56-55-3	Benzo(a)anthracene	63	< 63 U
117-81-7	bis(2-Ethylhexyl)phthalate	63	< 63 U
218-01-9	Chrysene	63	< 63 U
117-84-0	Di-n-Octyl phthalate	63	< 63 U
50-32-8	Benzo(a)pyrene	63	< 63 U
193-39-5	Indeno(1,2,3-cd)pyrene	63	< 63 U
53-70-3	Dibenz(a,h)anthracene	63	< 63 U
191-24-2	Benzo(g,h,i)perylene	63	< 63 U
90-12-0	1-Methylnaphthalene	63	< 63 U
TOTBFA	Total Benzofluoranthenes	63	< 63 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	60.4%	2-Fluorobiphenyl	66.4%
d14-p-Terphenyl	75.6%	d4-1,2-Dichlorobenzene	63.2%
d5-Phenol	63.7%	2-Fluorophenol	62.1%
2,4,6-Tribromophenol	59.2%	d4-2-Chlorophenol	65.6%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS

Sample ID: JF-T1B2-SO-13
SAMPLE

Lab Sample ID: SE82V
LIMS ID: 11-869
Matrix: Soil
Data Release Authorized:
Reported: 01/27/11

QC Report No: SE82-The Boeing Company
Project: Jorgenson Forge
7KPL2JDR
Date Sampled: 01/14/11
Date Received: 01/14/11

Date Extracted: 01/18/11
Date Analyzed: 01/25/11 15:53
Instrument/Analyst: NT6/JZ
GPC Cleanup: Yes

Sample Amount: 8.31 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 27.0%

CAS Number	Analyte	RL	Result
108-95-2	Phenol	60	< 60 U
111-44-4	Bis-(2-Chloroethyl) Ether	60	< 60 U
95-57-8	2-Chlorophenol	60	< 60 U
541-73-1	1,3-Dichlorobenzene	60	< 60 U
106-46-7	1,4-Dichlorobenzene	60	< 60 U
100-51-6	Benzyl Alcohol	300	< 300 U
95-50-1	1,2-Dichlorobenzene	60	< 60 U
95-48-7	2-Methylphenol	60	< 60 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	60	< 60 U
106-44-5	4-Methylphenol	60	< 60 U
621-64-7	N-Nitroso-Di-N-Propylamine	60	< 60 U
67-72-1	Hexachloroethane	60	< 60 U
98-95-3	Nitrobenzene	60	< 60 U
78-59-1	Isophorone	60	< 60 U
88-75-5	2-Nitrophenol	60	< 60 U
105-67-9	2,4-Dimethylphenol	60	< 60 U
65-85-0	Benzoic Acid	600	< 600 U
111-91-1	bis(2-Chloroethoxy) Methane	60	< 60 U
120-83-2	2,4-Dichlorophenol	300	< 300 U
120-82-1	1,2,4-Trichlorobenzene	60	< 60 U
91-20-3	Naphthalene	60	< 60 U
106-47-8	4-Chloroaniline	300	< 300 U
87-68-3	Hexachlorobutadiene	60	< 60 U
59-50-7	4-Chloro-3-methylphenol	300	< 300 U
91-57-6	2-Methylnaphthalene	60	< 60 U
77-47-4	Hexachlorocyclopentadiene	300	< 300 U
88-06-2	2,4,6-Trichlorophenol	300	< 300 U
95-95-4	2,4,5-Trichlorophenol	300	< 300 U
91-58-7	2-Chloronaphthalene	60	< 60 U
88-74-4	2-Nitroaniline	300	< 300 U
131-11-3	Dimethylphthalate	60	< 60 U
208-96-8	Acenaphthylene	60	< 60 U
99-09-2	3-Nitroaniline	300	< 300 U
83-32-9	Acenaphthene	60	< 60 U
51-28-5	2,4-Dinitrophenol	600	< 600 U
100-02-7	4-Nitrophenol	300	< 300 U
132-64-9	Dibenzofuran	60	< 60 U
606-20-2	2,6-Dinitrotoluene	300	< 300 U
121-14-2	2,4-Dinitrotoluene	300	< 300 U
84-66-2	Diethylphthalate	60	< 60 U
7005-72-3	4-Chlorophenyl-phenylether	60	< 60 U
86-73-7	Fluorene	60	< 60 U
100-01-6	4-Nitroaniline	300	< 300 U
534-52-1	4,6-Dinitro-2-Methylphenol	600	< 600 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS

Sample ID: JF-T1B2-SO-13
SAMPLE

Lab Sample ID: SE82V
LIMS ID: 11-869
Matrix: Soil
Date Analyzed: 01/25/11 15:53

QC Report No: SE82-The Boeing Company
Project: Jorgenson Forge
7KPL2JDR

CAS Number	Analyte	RL	Result
86-30-6	N-Nitrosodiphenylamine	60	< 60 U
101-55-3	4-Bromophenyl-phenylether	60	< 60 U
118-74-1	Hexachlorobenzene	60	< 60 U
87-86-5	Pentachlorophenol	300	< 300 U
85-01-8	Phenanthrene	60	< 60 U
86-74-8	Carbazole	60	< 60 U
120-12-7	Anthracene	60	< 60 U
84-74-2	Di-n-Butylphthalate	60	< 60 U
206-44-0	Fluoranthene	60	< 60 U
129-00-0	Pyrene	60	< 60 U
85-68-7	Butylbenzylphthalate	60	< 60 U
91-94-1	3,3'-Dichlorobenzidine	300	< 300 U
56-55-3	Benzo(a)anthracene	60	< 60 U
117-81-7	bis(2-Ethylhexyl)phthalate	60	< 60 U
218-01-9	Chrysene	60	< 60 U
117-84-0	Di-n-Octyl phthalate	60	< 60 U
50-32-8	Benzo(a)pyrene	60	< 60 U
193-39-5	Indeno(1,2,3-cd)pyrene	60	< 60 U
53-70-3	Dibenz(a,h)anthracene	60	< 60 U
191-24-2	Benzo(g,h,i)perylene	60	< 60 U
90-12-0	1-Methylnaphthalene	60	< 60 U
TOTBFA	Total Benzofluoranthenes	60	< 60 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	56.8%	2-Fluorobiphenyl	64.0%
d14-p-Terphenyl	73.6%	d4-1,2-Dichlorobenzene	61.6%
d5-Phenol	59.7%	2-Fluorophenol	58.7%
2,4,6-Tribromophenol	54.1%	d4-2-Chlorophenol	61.6%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS

Sample ID: MB-011811
METHOD BLANK

Lab Sample ID: MB-011811
LIMS ID: 11-857
Matrix: Soil
Data Release Authorized:
Reported: 01/27/11

QC Report No: SE82-The Boeing Company
Project: Jorgenson Forge
7KPL2JDR
Date Sampled: NA
Date Received: NA

Date Extracted: 01/18/11
Date Analyzed: 01/24/11 20:36
Instrument/Analyst: NT6/JZ
GPC Cleanup: Yes

Sample Amount: 7.50 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: NA

CAS Number	Analyte	RL	Result
108-95-2	Phenol	67	< 67 U
111-44-4	Bis-(2-Chloroethyl) Ether	67	< 67 U
95-57-8	2-Chlorophenol	67	< 67 U
541-73-1	1,3-Dichlorobenzene	67	< 67 U
106-46-7	1,4-Dichlorobenzene	67	< 67 U
100-51-6	Benzyl Alcohol	330	< 330 U
95-50-1	1,2-Dichlorobenzene	67	< 67 U
95-48-7	2-Methylphenol	67	< 67 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	67	< 67 U
106-44-5	4-Methylphenol	67	< 67 U
621-64-7	N-Nitroso-Di-N-Propylamine	67	< 67 U
67-72-1	Hexachloroethane	67	< 67 U
98-95-3	Nitrobenzene	67	< 67 U
78-59-1	Isophorone	67	< 67 U
88-75-5	2-Nitrophenol	67	< 67 U
105-67-9	2,4-Dimethylphenol	67	< 67 U
65-85-0	Benzoic Acid	670	< 670 U
111-91-1	bis(2-Chloroethoxy) Methane	67	< 67 U
120-83-2	2,4-Dichlorophenol	330	< 330 U
120-82-1	1,2,4-Trichlorobenzene	67	< 67 U
91-20-3	Naphthalene	67	< 67 U
106-47-8	4-Chloroaniline	330	< 330 U
87-68-3	Hexachlorobutadiene	67	< 67 U
59-50-7	4-Chloro-3-methylphenol	330	< 330 U
91-57-6	2-Methylnaphthalene	67	< 67 U
77-47-4	Hexachlorocyclopentadiene	330	< 330 U
88-06-2	2,4,6-Trichlorophenol	330	< 330 U
95-95-4	2,4,5-Trichlorophenol	330	< 330 U
91-58-7	2-Chloronaphthalene	67	< 67 U
88-74-4	2-Nitroaniline	330	< 330 U
131-11-3	Dimethylphthalate	67	< 67 U
208-96-8	Acenaphthylene	67	< 67 U
99-09-2	3-Nitroaniline	330	< 330 U
83-32-9	Acenaphthene	67	< 67 U
51-28-5	2,4-Dinitrophenol	670	< 670 U
100-02-7	4-Nitrophenol	330	< 330 U
132-64-9	Dibenzofuran	67	< 67 U
606-20-2	2,6-Dinitrotoluene	330	< 330 U
121-14-2	2,4-Dinitrotoluene	330	< 330 U
84-66-2	Diethylphthalate	67	< 67 U
7005-72-3	4-Chlorophenyl-phenylether	67	< 67 U
86-73-7	Fluorene	67	< 67 U
100-01-6	4-Nitroaniline	330	< 330 U
534-52-1	4,6-Dinitro-2-Methylphenol	670	< 670 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS

Sample ID: MB-011811
METHOD BLANK

Lab Sample ID: MB-011811
LIMS ID: 11-857
Matrix: Soil
Date Analyzed: 01/24/11 20:36

QC Report No: SE82-The Boeing Company
Project: Jorgenson Forge
7KPL2JDR

CAS Number	Analyte	RL	Result
86-30-6	N-Nitrosodiphenylamine	67	< 67 U
101-55-3	4-Bromophenyl-phenylether	67	< 67 U
118-74-1	Hexachlorobenzene	67	< 67 U
87-86-5	Pentachlorophenol	330	< 330 U
85-01-8	Phenanthrene	67	< 67 U
86-74-8	Carbazole	67	< 67 U
120-12-7	Anthracene	67	< 67 U
84-74-2	Di-n-Butylphthalate	67	< 67 U
206-44-0	Fluoranthene	67	< 67 U
129-00-0	Pyrene	67	< 67 U
85-68-7	Butylbenzylphthalate	67	< 67 U
91-94-1	3,3'-Dichlorobenzidine	330	< 330 U
56-55-3	Benzo(a)anthracene	67	< 67 U
117-81-7	bis(2-Ethylhexyl)phthalate	67	< 67 U
218-01-9	Chrysene	67	< 67 U
117-84-0	Di-n-Octyl phthalate	67	< 67 U
50-32-8	Benzo(a)pyrene	67	< 67 U
193-39-5	Indeno(1,2,3-cd)pyrene	67	< 67 U
53-70-3	Dibenz(a,h)anthracene	67	< 67 U
191-24-2	Benzo(g,h,i)perylene	67	< 67 U
90-12-0	1-Methylnaphthalene	67	< 67 U
TOTBFA	Total Benzofluoranthenes	67	< 67 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	69.6%	2-Fluorobiphenyl	76.8%
d14-p-Terphenyl	94.8%	d4-1,2-Dichlorobenzene	73.2%
d5-Phenol	77.6%	2-Fluorophenol	71.7%
2,4,6-Tribromophenol	72.5%	d4-2-Chlorophenol	77.3%

ANALYTICAL RESOURCES INCORPORATED

SW8270 SEMIVOLATILES SOIL/SEDIMENT SURROGATE RECOVERY SUMMARY

Matrix: Soil

QC Report No: SE82-The Boeing Company
Project: Jorgenson Forge
7KPL2JDR

Client ID	NBZ	FBP	TPH	DCB	PHL	2FP	TBP	2CP	TOT OUT
MB-011811	69.6%	76.8%	94.8%	73.2%	77.6%	71.7%	72.5%	77.3%	0
LCS-011811	65.6%	77.6%	94.0%	65.2%	71.7%	66.9%	82.9%	70.9%	0
LCSD-011811	66.0%	78.8%	92.8%	65.2%	72.3%	68.3%	84.5%	70.9%	0
JF-T1B2-SO-03	63.6%	70.0%	70.4%	67.2%	68.8%	65.9%	73.9%	69.9%	0
JF-T1B1-SO-03	54.4%	63.2%	65.2%	59.2%	55.7%	46.9%	52.5%	57.1%	0
JF-T1B1-SO-08	61.2%	68.0%	68.4%	66.0%	66.1%	62.4%	66.9%	67.5%	0
JF-T1B1-SO-13	61.2%	69.6%	74.0%	64.4%	65.3%	62.9%	70.7%	66.9%	0
JF-T1B4-SO-03	59.6%	74.4%	72.8%	59.2%	53.9%	35.5%	45.6%	54.9%	0
JF-T1B4-SO-12	64.0%	77.2%	74.8%	66.0%	61.6%	46.7%	61.3%	62.7%	0
JF-T1B4-SO-18	65.2%	76.0%	82.8%	68.0%	61.3%	46.9%	59.2%	62.9%	0
JF-T1B3-SO-03	56.4%	66.0%	78.4%	59.2%	61.9%	54.9%	72.3%	61.6%	0
JF-T1B3-SO-08	60.8%	76.8%	75.2%	62.8%	45.1%	23.2%	28.8%*	47.7%	1
JF-T1B3-SO-18	58.4%	70.4%	70.4%	61.2%	60.5%	56.0%	70.4%	61.9%	0
JF-T1B2-SO-03-D	60.8%	68.8%	75.6%	64.4%	66.1%	62.4%	71.2%	66.7%	0
JF-T1B2-SO-08	60.4%	66.4%	75.6%	63.2%	63.7%	62.1%	59.2%	65.6%	0
JF-T1B2-SO-13	56.8%	64.0%	73.6%	61.6%	59.7%	58.7%	54.1%	61.6%	0

	LCS/MB LIMITS	QC LIMITS
(NBZ) = d5-Nitrobenzene	(46-102)	(32-106)
(FBP) = 2-Fluorobiphenyl	(51-105)	(39-107)
(TPH) = d14-p-Terphenyl	(55-124)	(31-130)
(DCB) = d4-1,2-Dichlorobenzene	(48-104)	(38-102)
(PHL) = d5-Phenol	(44-110)	(27-112)
(2FP) = 2-Fluorophenol	(38-112)	(22-108)
(TBP) = 2,4,6-Tribromophenol	(54-120)	(31-131)
(2CP) = d4-2-Chlorophenol	(50-103)	(36-104)

Prep Method: SW3546
Log Number Range: 11-857 to 11-869

FORM-II SW8270

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS

Sample ID: LCS-011811
LCS/LCSD

Lab Sample ID: LCS-011811
LIMS ID: 11-857
Matrix: Soil
Data Release Authorized:
Reported: 01/27/11

QC Report No: SE82-The Boeing Company
Project: Jorgenson Forge
7KPL2JDR
Date Sampled: 01/14/11
Date Received: 01/14/11

Date Extracted LCS/LCSD: 01/18/11

Date Analyzed LCS: 01/24/11 21:08
LCSD: 01/24/11 21:41
Instrument/Analyst LCS: NT6/JZ
LCSD: NT6/JZ
GPC Cleanup: Yes

Sample Amount LCS: 7.50 g
LCSD: 7.50 g
Final Extract Volume LCS: 0.5 mL
LCSD: 0.5 mL
Dilution Factor LCS: 1.00
LCSD: 1.00
Percent Moisture: NA

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Phenol	1090	1670	65.3%	1120	1670	67.1%	2.7%
Bis-(2-Chloroethyl) Ether	1060	1670	63.5%	1110	1670	66.5%	4.6%
2-Chlorophenol	1180	1670	70.7%	1220	1670	73.1%	3.3%
1,3-Dichlorobenzene	1020	1670	61.1%	1080	1670	64.7%	5.7%
1,4-Dichlorobenzene	1040	1670	62.3%	1080	1670	64.7%	3.8%
Benzyl Alcohol	2020	3330	60.7%	2100	3330	63.1%	3.9%
1,2-Dichlorobenzene	1050	1670	62.9%	1090	1670	65.3%	3.7%
2-Methylphenol	1010	1670	60.5%	1060	1670	63.5%	4.8%
2,2'-Oxybis(1-Chloropropane)	900	1670	53.9%	935	1670	56.0%	3.8%
4-Methylphenol	2100	3330	63.1%	2170	3330	65.2%	3.3%
N-Nitroso-Di-N-Propylamine	1030	1670	61.7%	1060	1670	63.5%	2.9%
Hexachloroethane	1040	1670	62.3%	1070	1670	64.1%	2.8%
Nitrobenzene	1070	1670	64.1%	1100	1670	65.9%	2.8%
Isophorone	1240	1670	74.3%	1280	1670	76.6%	3.2%
2-Nitrophenol	1300	1670	77.8%	1360	1670	81.4%	4.5%
2,4-Dimethylphenol	1020	1670	61.1%	1130	1670	67.7%	10.2%
Benzoic Acid	3310	5000	66.2%	3610	5000	72.2%	8.7%
bis(2-Chloroethoxy) Methane	1070	1670	64.1%	1120	1670	67.1%	4.6%
2,4-Dichlorophenol	1300	1670	77.8%	1370	1670	82.0%	5.2%
1,2,4-Trichlorobenzene	1120	1670	67.1%	1160	1670	69.5%	3.5%
Naphthalene	1210	1670	72.5%	1260	1670	75.4%	4.0%
4-Chloroaniline	3340	4000	83.5%	3450	4000	86.2%	3.2%
Hexachlorobutadiene	1100	1670	65.9%	1150	1670	68.9%	4.4%
4-Chloro-3-methylphenol	1290	1670	77.2%	1340	1670	80.2%	3.8%
2-Methylnaphthalene	1090	1670	65.3%	1150	1670	68.9%	5.4%
Hexachlorocyclopentadiene	3360	5000	67.2%	3560	5000	71.2%	5.8%
2,4,6-Trichlorophenol	1440	1670	86.2%	1460	1670	87.4%	1.4%
2,4,5-Trichlorophenol	1310	1670	78.4%	1320	1670	79.0%	0.8%
2-Chloronaphthalene	1280	1670	76.6%	1330	1670	79.6%	3.8%
2-Nitroaniline	1180	1670	70.7%	1200	1670	71.9%	1.7%
Dimethylphthalate	1340	1670	80.2%	1360	1670	81.4%	1.5%
Acenaphthylene	1380	1670	82.6%	1430	1670	85.6%	3.6%
3-Nitroaniline	3930	4270	92.0%	4040	4270	94.6%	2.8%
Acenaphthene	1310	1670	78.4%	1370	1670	82.0%	4.5%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS

Sample ID: LCSD-011811
LCS/LCSD

Lab Sample ID: LCS-011811
LIMS ID: 11-857
Matrix: Soil
Date Analyzed LCS: 01/24/11 21:08
LCSD: 01/24/11 21:41

QC Report No: SE82-The Boeing Company
Project: Jorgenson Forge
7KPL2JDR

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
2,4-Dinitrophenol	3010 Q	5000	60.2%	3490 Q	5000	69.8%	14.8%
4-Nitrophenol	1480	1670	88.6%	1520	1670	91.0%	2.7%
Dibenzofuran	1250	1670	74.9%	1300	1670	77.8%	3.9%
2,6-Dinitrotoluene	1360	1670	81.4%	1380	1670	82.6%	1.5%
2,4-Dinitrotoluene	1360	1670	81.4%	1370	1670	82.0%	0.7%
Diethylphthalate	1290	1670	77.2%	1310	1670	78.4%	1.5%
4-Chlorophenyl-phenylether	1270	1670	76.0%	1310	1670	78.4%	3.1%
Fluorene	1350	1670	80.8%	1390	1670	83.2%	2.9%
4-Nitroaniline	1360	1670	81.4%	1410	1670	84.4%	3.6%
4,6-Dinitro-2-Methylphenol	4220	5000	84.4%	4550	5000	91.0%	7.5%
N-Nitrosodiphenylamine	1310	1670	78.4%	1350	1670	80.8%	3.0%
4-Bromophenyl-phenylether	1280	1670	76.6%	1330	1670	79.6%	3.8%
Hexachlorobenzene	1250	1670	74.9%	1330	1670	79.6%	6.2%
Pentachlorophenol	1480	1670	88.6%	1560	1670	93.4%	5.3%
Phenanthrene	1420	1670	85.0%	1480	1670	88.6%	4.1%
Carbazole	1280	1670	76.6%	1310	1670	78.4%	2.3%
Anthracene	1390	1670	83.2%	1440	1670	86.2%	3.5%
Di-n-Butylphthalate	1330	1670	79.6%	1380	1670	82.6%	3.7%
Fluoranthene	1390	1670	83.2%	1450	1670	86.8%	4.2%
Pyrene	1660	1670	99.4%	1660	1670	99.4%	0.0%
Butylbenzylphthalate	1500	1670	89.8%	1520	1670	91.0%	1.3%
3,3'-Dichlorobenzidine	4030	4270	94.4%	4190	4270	98.1%	3.9%
Benzo(a)anthracene	1540	1670	92.2%	1560	1670	93.4%	1.3%
bis(2-Ethylhexyl)phthalate	1330	1670	79.6%	1340	1670	80.2%	0.7%
Chrysene	1580	1670	94.6%	1590	1670	95.2%	0.6%
Di-n-Octyl phthalate	1190	1670	71.3%	1160	1670	69.5%	2.6%
Benzo(a)pyrene	1390	1670	83.2%	1420	1670	85.0%	2.1%
Indeno(1,2,3-cd)pyrene	1800 Q	1670	108%	1840 Q	1670	110%	2.2%
Dibenz(a,h)anthracene	1790 Q	1670	107%	1850 Q	1670	111%	3.3%
Benzo(g,h,i)perylene	1820 Q	1670	109%	1820 Q	1670	109%	0.0%
1-Methylnaphthalene	1150	1670	68.9%	1190	1670	71.3%	3.4%
Total Benzofluoranthenes	2890	3330	86.8%	2940	3330	88.3%	1.7%

Semivolatile Surrogate Recovery

	LCS	LCSD
d5-Nitrobenzene	65.6%	66.0%
2-Fluorobiphenyl	77.6%	78.8%
d14-p-Terphenyl	94.0%	92.8%
d4-1,2-Dichlorobenzene	65.2%	65.2%
d5-Phenol	71.7%	72.3%
2-Fluorophenol	66.9%	68.3%
2,4,6-Tribromophenol	82.9%	84.5%
d4-2-Chlorophenol	70.9%	70.9%

Reported in µg/kg (ppb)
RPD calculated using sample concentrations per SW846.

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
TOTAL DIESEL RANGE HYDROCARBONS
NWTPHD by GC/FID-Silica and Acid Cleaned

Matrix: Soil

QC Report No: SE82-The Boeing Company
Project: Jorgenson Forge
7KPL2JDR

Data Release Authorized: VB
Reported: 01/22/11

ARI ID	Sample ID	Extraction Date	Analysis Date	EFV DL	Range	RL	Result
MB-011711	Method Blank	01/17/11	01/20/11	1.00	Diesel	5.0	< 5.0 U
11-857	HC ID: ---		FID4B	1.0	Motor Oil	10	< 10 U
					Mineral Oil	10	< 10 U
					o-Terphenyl		97.4%
SE82J	JF-T1B2-SO-03	01/17/11	01/21/11	1.00	Diesel	6.0	< 6.0 U
11-857	HC ID: ---		FID4B	1.0	Motor Oil	12	< 12 U
					Mineral Oil	12	< 12 U
					o-Terphenyl		87.2%
SE82K	JF-T1B1-SO-03	01/17/11	01/21/11	1.00	**Diesel**	**6.0**	**6.7**
11-858	HC ID: **DRO/MOTOR OIL**		FID4B	1.0	**Motor Oil**	**12**	**25**
					Mineral Oil	**12**	**22**
					o-Terphenyl		78.1%
SE82L	JF-T1B1-SO-08	01/17/11	01/21/11	1.00	Diesel	6.6	< 6.6 U
11-859	HC ID: ---		FID4B	1.0	Motor Oil	13	< 13 U
					Mineral Oil	13	< 13 U
					o-Terphenyl		62.7%
SE82M	JF-T1B1-SO-13	01/17/11	01/21/11	1.00	Diesel	6.7	< 6.7 U
11-860	HC ID: ---		FID4B	1.0	Motor Oil	13	< 13 U
					Mineral Oil	13	< 13 U
					o-Terphenyl		90.9%
SE82N	JF-T1B4-SO-03	01/17/11	01/21/11	1.00	**Diesel**	**6.1**	**130**
11-861	HC ID: **DRO/MOTOR OIL**		FID4B	1.0	**Motor Oil**	**12**	**540**
					Mineral Oil	**12**	**470**
					o-Terphenyl		78.2%
SE82O	JF-T1B4-SO-12	01/17/11	01/21/11	1.00	**Diesel**	**6.0**	**15**
11-862	HC ID: **DRO/MOTOR OIL**		FID4B	1.0	**Motor Oil**	**12**	**46**
					Mineral Oil	**12**	**40**
					o-Terphenyl		91.3%
SE82P	JF-T1B4-SO-18	01/17/11	01/21/11	1.00	Diesel	6.4	< 6.4 U
11-863	HC ID: ---		FID4B	1.0	Motor Oil	13	< 13 U
					Mineral Oil	13	< 13 U
					o-Terphenyl		91.8%
SE82Q	JF-T1B3-SO-03	01/17/11	01/21/11	1.00	Diesel	5.2	< 5.2 U
11-864	HC ID: ---		FID4B	1.0	Motor Oil	10	< 10 U
					Mineral Oil	10	< 10 U
					o-Terphenyl		97.1%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
TOTAL DIESEL RANGE HYDROCARBONS
NWTPHD by GC/FID-Silica and Acid Cleaned

Matrix: Soil

QC Report No: SE82-The Boeing Company
Project: Jorgenson Forge
7KPL2JDR

Data Release Authorized: VB
Reported: 01/22/11

ARI ID	Sample ID	Extraction Date	Analysis Date	EFV DL	Range	RL	Result
SE82R	JF-T1B3-SO-08	01/17/11	01/21/11	1.00	**Diesel**	**5.6**	**11**
11-865	HC ID: **DRO/MOTOR OIL**		FID4B	1.0	**Motor Oil**	**11**	**65**
					Mineral Oil	**11**	**57**
					o-Terphenyl		89.7%
SE82S	JF-T1B3-SO-18	01/17/11	01/21/11	1.00	**Diesel**	**8.1**	**91**
11-866	HC ID: **DIESEL/MOTOR OIL**		FID4B	1.0	**Motor Oil**	**16**	**170**
					Mineral Oil	**16**	**150**
					o-Terphenyl		87.1%
SE82T	JF-T1B2-SO-03-D	01/17/11	01/21/11	1.00	Diesel	5.6	< 5.6 U
11-867	HC ID: ---		FID4B	1.0	Motor Oil	11	< 11 U
					Mineral Oil	11	< 11 U
					o-Terphenyl		83.4%
SE82U	JF-T1B2-SO-08	01/17/11	01/21/11	1.00	Diesel	6.4	< 6.4 U
11-868	HC ID: ---		FID4B	1.0	Motor Oil	13	< 13 U
					Mineral Oil	13	< 13 U
					o-Terphenyl		75.6%
SE82V	JF-T1B2-SO-13	01/17/11	01/21/11	1.00	Diesel	6.6	< 6.6 U
11-869	HC ID: ---		FID4B	1.0	Motor Oil	13	< 13 U
					Mineral Oil	13	< 13 U
					o-Terphenyl		89.1%

Reported in mg/kg (ppm)

EFV-Effective Final Volume in mL.
DL-Dilution of extract prior to analysis.
RL-Reporting limit.

Diesel quantitation on total peaks in the range from C12 to C24.
Motor Oil quantitation on total peaks in the range from C24 to C38.
Mineral Oil quantitation on total peaks in the range from C24 to C38.
HC ID: DRO/RRO indicate results of organics or additional hydrocarbons in ranges are not identifiable.

ANALYTICAL RESOURCES INCORPORATED

CLEANED TPHD SURROGATE RECOVERY SUMMARY

Matrix: Soil

QC Report No: SE82-The Boeing Company
Project: Jorgenson Forge
7KPL2JDR

Client ID	OTER	TOT OUT
MB-011711	97.4%	0
LCS-011711	105%	0
LCSD-011711	100%	0
JF-T1B2-SO-03	87.2%	0
JF-T1B1-SO-03	78.1%	0
JF-T1B1-SO-08	62.7%	0
JF-T1B1-SO-13	90.9%	0
JF-T1B4-SO-03	78.2%	0
JF-T1B4-SO-12	91.3%	0
JF-T1B4-SO-18	91.8%	0
JF-T1B3-SO-03	97.1%	0
JF-T1B3-SO-08	89.7%	0
JF-T1B3-SO-18	87.1%	0
JF-T1B2-SO-03-D	83.4%	0
JF-T1B2-SO-08	75.6%	0
JF-T1B2-SO-13	89.1%	0

	LCS/MB LIMITS	QC LIMITS
(OTER) = o-Terphenyl	(59-134)	(43-137)

Prep Method: SW3546
Log Number Range: 11-857 to 11-869

FORM-II TPHD

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
NWTPHD by GC/FID-Silica and Acid Cleaned

Sample ID: LCS-011711
LCS/LCSD

Lab Sample ID: LCS-011711
LIMS ID: 11-857
Matrix: Soil
Data Release Authorized: VB
Reported: 01/22/11

QC Report No: SE82-The Boeing Company
Project: Jorgenson Forge
7KPL2JDR
Date Sampled: 01/14/11
Date Received: 01/14/11

Date Extracted LCS/LCSD: 01/17/11

Date Analyzed LCS: 01/21/11 00:23
LCSD: 01/21/11 00:46
Instrument/Analyst LCS: FID/MS
LCSD: FID/MS

Sample Amount LCS: 10.0 g
LCSD: 10.0 g
Final Extract Volume LCS: 1.0 mL
LCSD: 1.0 mL
Dilution Factor LCS: 1.0
LCSD: 1.0

Range	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Diesel	138	150	92.0%	133	150	88.7%	3.7%

TPHD Surrogate Recovery

	LCS	LCSD
o-Terphenyl	105%	100%

Results reported in mg/kg
RPD calculated using sample concentrations per SW846.

ANALYTICAL RESOURCES INCORPORATED

TOTAL DIESEL RANGE HYDROCARBONS-EXTRACTION REPORT

ARI Job: SE82
Project: Jorgenson Forge 7KPL2JDR

Matrix: Soil
Date Received: 01/14/11

ARI ID	Client ID	Client Amt	Final Vol	Basis	Prep Date
11-857-011711MB1	Method Blank	10.0 g	1.00 mL	-	01/17/11
11-857-011711LCS1	Lab Control	10.0 g	1.00 mL	-	01/17/11
11-857-011711LCSD1	Lab Control Dup	10.0 g	1.00 mL	-	01/17/11
11-857-SE82J	JF-T1B2-SO-03	8.30 g	1.00 mL	D	01/17/11
11-858-SE82K	JF-T1B1-SO-03	8.31 g	1.00 mL	D	01/17/11
11-859-SE82L	JF-T1B1-SO-08	7.54 g	1.00 mL	D	01/17/11
11-860-SE82M	JF-T1B1-SO-13	7.50 g	1.00 mL	D	01/17/11
11-861-SE82N	JF-T1B4-SO-03	8.20 g	1.00 mL	D	01/17/11
11-862-SE82O	JF-T1B4-SO-12	8.38 g	1.00 mL	D	01/17/11
11-863-SE82P	JF-T1B4-SO-18	7.88 g	1.00 mL	D	01/17/11
11-864-SE82Q	JF-T1B3-SO-03	9.56 g	1.00 mL	D	01/17/11
11-865-SE82R	JF-T1B3-SO-08	8.96 g	1.00 mL	D	01/17/11
11-866-SE82S	JF-T1B3-SO-18	6.17 g	1.00 mL	D	01/17/11
11-867-SE82T	JF-T1B2-SO-03-D	8.87 g	1.00 mL	D	01/17/11
11-868-SE82U	JF-T1B2-SO-08	7.86 g	1.00 mL	D	01/17/11
11-869-SE82V	JF-T1B2-SO-13	7.53 g	1.00 mL	D	01/17/11

Basis: D=Dry Weight W=As Received

Diesel Extraction Report

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
TOTAL DIESEL RANGE HYDROCARBONS
NWTPHD by GC/FID-Silica and Acid Cleaned
Page 1 of 1
Matrix: Water

QC Report No: SE82-The Boeing Company
Project: Jorgenson Forge
7KPL2JDR

Data Release Authorized: VB
Reported: 01/22/11

ARI ID	Sample ID	Extraction Date	Analysis Date	EFV DL	Range	RL	Result
MB-011711	Method Blank	01/17/11	01/21/11	1.00	Diesel	0.10	< 0.10 U
11-874	HC ID: ---		FID3B	1.0	Motor Oil	0.20	< 0.20 U
					Mineral Oil	0.20	< 0.20 U
					o-Terphenyl		86.5%
SE82AA	JF-T1B1-SO-13-R	01/17/11	01/21/11	1.00	Diesel	0.10	< 0.10 U
11-874	HC ID: ---		FID3B	1.0	Motor Oil	0.20	< 0.20 U
					Mineral Oil	0.20	< 0.20 U
					o-Terphenyl		87.5%

Reported in mg/L (ppm)

EFV-Effective Final Volume in mL.
DL-Dilution of extract prior to analysis.
RL-Reporting limit.

Diesel quantitation on total peaks in the range from C12 to C24.
Motor Oil quantitation on total peaks in the range from C24 to C38.
Mineral Oil quantitation on total peaks in the range from C24 to C38.
HC ID: DRO/RRO indicate results of organics or additional hydrocarbons in ranges are not identifiable.

ANALYTICAL RESOURCES INCORPORATED

CLEANED TPHD SURROGATE RECOVERY SUMMARY

Matrix: Water

QC Report No: SE82-The Boeing Company
Project: Jorgenson Forge
7KPL2JDR

Client ID	OTER	TOT OUT
MB-011711	86.5%	0
LCS-011711	94.0%	0
LCSD-011711	92.0%	0
JF-T1B1-SO-13-R	87.5%	0

	LCS/MB LIMITS	QC LIMITS
(OTER) = o-Terphenyl	(53-123)	(49-118)

Prep Method: SW3510C
Log Number Range: 11-874 to 11-874

FORM-II TPHD

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
NWTPHD by GC/FID-Silica and Acid Cleaned

Sample ID: LCS-011711
LCS/LCSD

Lab Sample ID: LCS-011711
LIMS ID: 11-874
Matrix: Water
Data Release Authorized: VTB
Reported: 01/22/11

QC Report No: SE82-The Boeing Company
Project: Jorgenson Forge
7KPL2JDR
Date Sampled: 01/14/11
Date Received: 01/14/11

Date Extracted LCS/LCSD: 01/17/11

Date Analyzed LCS: 01/21/11 17:57
LCSD: 01/21/11 18:22
Instrument/Analyst LCS: FID/JGR
LCSD: FID/JGR

Sample Amount LCS: 500 mL
LCSD: 500 mL
Final Extract Volume LCS: 1.0 mL
LCSD: 1.0 mL
Dilution Factor LCS: 1.00
LCSD: 1.00

Range	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Diesel	2.43	3.00	81.0%	2.31	3.00	77.0%	5.1%

TPHD Surrogate Recovery

	LCS	LCSD
o-Terphenyl	94.0%	92.0%

Results reported in mg/L
RPD calculated using sample concentrations per SW846.

ANALYTICAL RESOURCES INCORPORATED

TOTAL DIESEL RANGE HYDROCARBONS-EXTRACTION REPORT

ARI Job: SE82
Project: Jorgenson Forge 7KPL2JDR

Matrix: Water
Date Received: 01/14/11

ARI ID	Client ID	Samp Amt	Final Vol	Prep Date
11-874-011711MB1	Method Blank	500 mL	1.00 mL	01/17/11
11-874-011711LCS1	Lab Control	500 mL	1.00 mL	01/17/11
11-874-011711LCSD1	Lab Control Dup	500 mL	1.00 mL	01/17/11
11-874-SE82AA	JF-T1B1-SO-13-R	500 mL	1.00 mL	01/17/11

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: JF-T1B2-SO-03
SAMPLE

Lab Sample ID: SE82J
LIMS ID: 11-857
Matrix: Soil
Data Release Authorized:
Reported: 01/21/11

QC Report No: SE82-The Boeing Company
Project: Jorgenson Forge
7KPL2JDR
Date Sampled: 01/14/11
Date Received: 01/14/11

Percent Total Solids: 82.9%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	01/19/11	6010B	01/20/11	7440-38-2	Arsenic	6	6	U
3050B	01/19/11	6010B	01/20/11	7440-43-9	Cadmium	0.2	0.2	U
3050B	01/19/11	6010B	01/20/11	**7440-50-8**	**Copper**	0.2	**17.5**	
3050B	01/19/11	6010B	01/20/11	**7439-92-1**	**Lead**	2	**4**	
3050B	01/19/11	6010B	01/20/11	**7440-02-0**	**Nickel**	1	**15**	
3050B	01/19/11	6010B	01/20/11	**7440-66-6**	**Zinc**	1	**28**	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: JF-T1B2-SO-03
DUPLICATE

Lab Sample ID: SE82J
LIMS ID: 11-857
Matrix: Soil
Data Release Authorized:
Reported: 01/21/11

QC Report No: SE82-The Boeing Company
Project: Jorgenson Forge
7KPL2JDR
Date Sampled: 01/14/11
Date Received: 01/14/11

MATRIX DUPLICATE QUALITY CONTROL REPORT

Analyte	Analysis Method	Sample	Duplicate	RPD	Control Limit	Q
Arsenic	6010B	6 U	6 U	0.0%	+/- 6	L
Cadmium	6010B	0.2 U	0.2 U	0.0%	+/- 0.2	L
Copper	6010B	17.5	16.8	4.1%	+/- 20%	
Lead	6010B	4	4	0.0%	+/- 2	L
Nickel	6010B	15	10	40.0%	+/- 20%	*
Zinc	6010B	28	28	0.0%	+/- 20%	

Reported in mg/kg-dry

*-Control Limit Not Met
L-RPD Invalid, Limit = Detection Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: JF-T1B2-SO-03
MATRIX SPIKE

Lab Sample ID: SE82J
LIMS ID: 11-857
Matrix: Soil
Data Release Authorized:
Reported: 01/21/11

QC Report No: SE82-The Boeing Company
Project: Jorgenson Forge
7KPL2JDR
Date Sampled: 01/14/11
Date Received: 01/14/11

MATRIX SPIKE QUALITY CONTROL REPORT

Analyte	Analysis Method	Sample	Spike	Spike Added	% Recovery	Q
Arsenic	6010B	6 U	216	225	96.0%	
Cadmium	6010B	0.2 U	56.4	56.1	101%	
Copper	6010B	17.5	70.6	56.1	94.7%	
Lead	6010B	4	215	225	93.8%	
Nickel	6010B	15	65	56.1	89.1%	
Zinc	6010B	28	83	56.1	98.0%	

Reported in mg/kg-dry

N-Control Limit Not Met
H-% Recovery Not Applicable, Sample Concentration Too High
NA-Not Applicable, Analyte Not Spiked

Percent Recovery Limits: 75-125%

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: JF-T1B1-SO-03
SAMPLE

Lab Sample ID: SE82K
LIMS ID: 11-858
Matrix: Soil
Data Release Authorized:
Reported: 01/21/11

QC Report No: SE82-The Boeing Company
Project: Jorgenson Forge
7KPL2JDR
Date Sampled: 01/14/11
Date Received: 01/14/11

Percent Total Solids: 81.1%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	01/19/11	6010B	01/20/11	**7440-38-2**	**Arsenic**	6	**7**	
3050B	01/19/11	6010B	01/20/11	**7440-43-9**	**Cadmium**	0.2	**0.4**	
3050B	01/19/11	6010B	01/20/11	**7440-50-8**	**Copper**	0.2	**3,830**	
3050B	01/19/11	6010B	01/20/11	**7439-92-1**	**Lead**	2	**24**	
3050B	01/19/11	6010B	01/20/11	**7440-02-0**	**Nickel**	1	**25**	
3050B	01/19/11	6010B	01/20/11	**7440-66-6**	**Zinc**	1	**68**	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: JF-T1B1-SO-08
SAMPLE

Lab Sample ID: SE82L
LIMS ID: 11-859
Matrix: Soil
Data Release Authorized:
Reported: 01/21/11

QC Report No: SE82-The Boeing Company
Project: Jorgenson Forge
7KPL2JDR
Date Sampled: 01/14/11
Date Received: 01/14/11

Percent Total Solids: 74.2%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	01/19/11	6010B	01/20/11	7440-38-2	Arsenic	7	7	U
3050B	01/19/11	6010B	01/20/11	7440-43-9	Cadmium	0.3	0.3	U
3050B	01/19/11	6010B	01/20/11	**7440-50-8**	**Copper**	0.3	**21.2**	
3050B	01/19/11	6010B	01/20/11	7439-92-1	Lead	3	3	U
3050B	01/19/11	6010B	01/20/11	**7440-02-0**	**Nickel**	1	**11**	
3050B	01/19/11	6010B	01/20/11	**7440-66-6**	**Zinc**	1	**25**	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: JF-T1B1-SO-13
SAMPLE

Lab Sample ID: SE82M
LIMS ID: 11-860
Matrix: Soil
Data Release Authorized:
Reported: 01/21/11

QC Report No: SE82-The Boeing Company
Project: Jorgenson Forge
7KPL2JDR
Date Sampled: 01/14/11
Date Received: 01/14/11

Percent Total Solids: 72.3%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	01/19/11	6010B	01/20/11	7440-38-2	Arsenic	7	7	U
3050B	01/19/11	6010B	01/20/11	**7440-43-9**	**Cadmium**	0.3	**0.3**	
3050B	01/19/11	6010B	01/20/11	**7440-50-8**	**Copper**	0.3	**16.9**	
3050B	01/19/11	6010B	01/20/11	7439-92-1	Lead	3	3	U
3050B	01/19/11	6010B	01/20/11	**7440-02-0**	**Nickel**	1	**14**	
3050B	01/19/11	6010B	01/20/11	**7440-66-6**	**Zinc**	1	**245**	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: JF-T1B4-SO-03
SAMPLE

Lab Sample ID: SE82N
LIMS ID: 11-861
Matrix: Soil
Data Release Authorized:
Reported: 01/21/11

QC Report No: SE82-The Boeing Company
Project: Jorgenson Forge
7KPL2JDR
Date Sampled: 01/14/11
Date Received: 01/14/11

Percent Total Solids: 78.6%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	01/19/11	6010B	01/20/11	7440-38-2	Arsenic	120	120	U
3050B	01/19/11	6010B	01/20/11	**7440-43-9**	**Cadmium**	5	**87**	
3050B	01/19/11	6010B	01/20/11	**7440-50-8**	**Copper**	5	**55,900**	
3050B	01/19/11	6010B	01/20/11	**7439-92-1**	**Lead**	50	**2,850**	
3050B	01/19/11	6010B	01/20/11	**7440-02-0**	**Nickel**	20	**2,160**	
3050B	01/19/11	6010B	01/20/11	**7440-66-6**	**Zinc**	20	**5,270**	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: JF-T1B4-SO-12
SAMPLE

Lab Sample ID: SE820
LIMS ID: 11-862
Matrix: Soil
Data Release Authorized:
Reported: 01/21/11

QC Report No: SE82-The Boeing Company
Project: Jorgenson Forge
7KPL2JDR
Date Sampled: 01/14/11
Date Received: 01/14/11

Percent Total Solids: 83.1%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	01/19/11	6010B	01/20/11	7440-38-2	Arsenic	6	6	U
3050B	01/19/11	6010B	01/20/11	**7440-43-9**	**Cadmium**	0.2	**0.8**	
3050B	01/19/11	6010B	01/20/11	**7440-50-8**	**Copper**	0.2	**59.4**	
3050B	01/19/11	6010B	01/20/11	**7439-92-1**	**Lead**	2	**11**	
3050B	01/19/11	6010B	01/20/11	**7440-02-0**	**Nickel**	1	**22**	
3050B	01/19/11	6010B	01/20/11	**7440-66-6**	**Zinc**	1	**83**	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: JF-T1B4-SO-18
SAMPLE

Lab Sample ID: SE82P
LIMS ID: 11-863
Matrix: Soil
Data Release Authorized:
Reported: 01/21/11

QC Report No: SE82-The Boeing Company
Project: Jorgenson Forge
7KPL2JDR
Date Sampled: 01/14/11
Date Received: 01/14/11

Percent Total Solids: 79.0%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	01/19/11	6010B	01/20/11	7440-38-2	Arsenic	6	6	U
3050B	01/19/11	6010B	01/20/11	7440-43-9	Cadmium	0.2	0.2	U
3050B	01/19/11	6010B	01/20/11	**7440-50-8**	**Copper**	0.2	**9.5**	
3050B	01/19/11	6010B	01/20/11	**7439-92-1**	**Lead**	2	**5**	
3050B	01/19/11	6010B	01/20/11	**7440-02-0**	**Nickel**	1	**8**	
3050B	01/19/11	6010B	01/20/11	**7440-66-6**	**Zinc**	1	**57**	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: JF-T1B3-SO-03
SAMPLE

Lab Sample ID: SE82Q
LIMS ID: 11-864
Matrix: Soil
Data Release Authorized:
Reported: 01/21/11

QC Report No: SE82-The Boeing Company
Project: Jorgenson Forge
7KPL2JDR
Date Sampled: 01/14/11
Date Received: 01/14/11

Percent Total Solids: 93.9%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	01/19/11	6010B	01/20/11	7440-38-2	Arsenic	5	5	U
3050B	01/19/11	6010B	01/20/11	**7440-43-9**	**Cadmium**	0.2	**0.3**	
3050B	01/19/11	6010B	01/20/11	**7440-50-8**	**Copper**	0.2	**45.7**	
3050B	01/19/11	6010B	01/20/11	**7439-92-1**	**Lead**	2	**7**	
3050B	01/19/11	6010B	01/20/11	**7440-02-0**	**Nickel**	1	**20**	
3050B	01/19/11	6010B	01/20/11	**7440-66-6**	**Zinc**	1	**53**	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: JF-T1B3-SO-08
SAMPLE

Lab Sample ID: SE82R
LIMS ID: 11-865
Matrix: Soil
Data Release Authorized:
Reported: 01/21/11

QC Report No: SE82-The Boeing Company
Project: Jorgenson Forge
7KPL2JDR
Date Sampled: 01/14/11
Date Received: 01/14/11

Percent Total Solids: 89.3%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	01/19/11	6010B	01/20/11	**7440-38-2**	**Arsenic**	5	**6**	
3050B	01/19/11	6010B	01/20/11	**7440-43-9**	**Cadmium**	0.2	**1.1**	
3050B	01/19/11	6010B	01/20/11	**7440-50-8**	**Copper**	0.2	**70.5**	
3050B	01/19/11	6010B	01/20/11	**7439-92-1**	**Lead**	2	**11**	
3050B	01/19/11	6010B	01/20/11	**7440-02-0**	**Nickel**	1	**25**	
3050B	01/19/11	6010B	01/20/11	**7440-66-6**	**Zinc**	1	**126**	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: JF-T1B3-SO-18
SAMPLE

Lab Sample ID: SE82S
LIMS ID: 11-866
Matrix: Soil
Data Release Authorized
Reported: 01/21/11

QC Report No: SE82-The Boeing Company
Project: Jorgenson Forge
7KPL2JDR
Date Sampled: 01/14/11
Date Received: 01/14/11

Percent Total Solids: 56.8%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	01/19/11	6010B	01/20/11	**7440-38-2**	**Arsenic**	9	**12**	
3050B	01/19/11	6010B	01/20/11	**7440-43-9**	**Cadmium**	0.3	**38.2**	
3050B	01/19/11	6010B	01/20/11	**7440-50-8**	**Copper**	0.3	**257**	
3050B	01/19/11	6010B	01/20/11	**7439-92-1**	**Lead**	3	**1,330**	
3050B	01/19/11	6010B	01/20/11	**7440-02-0**	**Nickel**	2	**53**	
3050B	01/19/11	6010B	01/20/11	**7440-66-6**	**Zinc**	2	**2,720**	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: JF-T1B2-SO-03-D
SAMPLE

Lab Sample ID: SE82T
LIMS ID: 11-867
Matrix: Soil
Data Release Authorized:
Reported: 01/21/11

QC Report No: SE82-The Boeing Company
Project: Jorgenson Forge
7KPL2JDR
Date Sampled: 01/14/11
Date Received: 01/14/11

Percent Total Solids: 82.1%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	01/19/11	6010B	01/20/11	7440-38-2	Arsenic	6	6	U
3050B	01/19/11	6010B	01/20/11	7440-43-9	Cadmium	0.2	0.2	U
3050B	01/19/11	6010B	01/20/11	**7440-50-8**	**Copper**	0.2	**14.5**	
3050B	01/19/11	6010B	01/20/11	**7439-92-1**	**Lead**	2	**4**	
3050B	01/19/11	6010B	01/20/11	**7440-02-0**	**Nickel**	1	**9**	
3050B	01/19/11	6010B	01/20/11	**7440-66-6**	**Zinc**	1	**28**	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: JF-T1B2-SO-08
SAMPLE

Lab Sample ID: SE82U
LIMS ID: 11-868
Matrix: Soil
Data Release Authorized:
Reported: 01/21/11

QC Report No: SE82-The Boeing Company
Project: Jorgenson Forge
7KPL2JDR
Date Sampled: 01/14/11
Date Received: 01/14/11

Percent Total Solids: 78.6%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	01/19/11	6010B	01/20/11	7440-38-2	Arsenic	6	6	U
3050B	01/19/11	6010B	01/20/11	7440-43-9	Cadmium	0.2	0.2	U
3050B	01/19/11	6010B	01/20/11	**7440-50-8**	**Copper**	0.2	**17.6**	
3050B	01/19/11	6010B	01/20/11	**7439-92-1**	**Lead**	2	**3**	
3050B	01/19/11	6010B	01/20/11	**7440-02-0**	**Nickel**	1	**13**	
3050B	01/19/11	6010B	01/20/11	**7440-66-6**	**Zinc**	1	**29**	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: JF-T1B2-SO-13
SAMPLE

Lab Sample ID: SE82V
LIMS ID: 11-869
Matrix: Soil
Data Release Authorized:
Reported: 01/21/11

QC Report No: SE82-The Boeing Company
Project: Jorgenson Forge
7KPL2JDR
Date Sampled: 01/14/11
Date Received: 01/14/11

Percent Total Solids: 70.8%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	01/19/11	6010B	01/20/11	7440-38-2	Arsenic	7	7	U
3050B	01/19/11	6010B	01/20/11	7440-43-9	Cadmium	0.3	0.3	U
3050B	01/19/11	6010B	01/20/11	**7440-50-8**	**Copper**	0.3	**18.2**	
3050B	01/19/11	6010B	01/20/11	7439-92-1	Lead	3	3	U
3050B	01/19/11	6010B	01/20/11	**7440-02-0**	**Nickel**	1	**13**	
3050B	01/19/11	6010B	01/20/11	**7440-66-6**	**Zinc**	1	**26**	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: METHOD BLANK

Lab Sample ID: SE82MB
LIMS ID: 11-858
Matrix: Soil
Data Release Authorized:
Reported: 01/21/11

QC Report No: SE82-The Boeing Company
Project: Jorgenson Forge
7KPL2JDR
Date Sampled: NA
Date Received: NA

Percent Total Solids: NA

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	01/19/11	6010B	01/20/11	7440-38-2	Arsenic	5	5	U
3050B	01/19/11	6010B	01/20/11	7440-43-9	Cadmium	0.2	0.2	U
3050B	01/19/11	6010B	01/20/11	7440-50-8	Copper	0.2	0.2	U
3050B	01/19/11	6010B	01/20/11	7439-92-1	Lead	2	2	U
3050B	01/19/11	6010B	01/20/11	7440-02-0	Nickel	1	1	U
3050B	01/19/11	6010B	01/20/11	7440-66-6	Zinc	1	1	U

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: LAB CONTROL

Lab Sample ID: SE82LCS
LIMS ID: 11-858
Matrix: Soil
Data Release Authorized:
Reported: 01/21/11

QC Report No: SE82-The Boeing Company
Project: Jorgenson Forge
7KPL2JDR
Date Sampled: NA
Date Received: NA

BLANK SPIKE QUALITY CONTROL REPORT

Analyte	Analysis Method	Spike Found	Spike Added	% Recovery	Q
Arsenic	6010B	189	200	94.5%	
Cadmium	6010B	48.8	50.0	97.6%	
Copper	6010B	48.9	50.0	97.8%	
Lead	6010B	186	200	93.0%	
Nickel	6010B	48	50	96.0%	
Zinc	6010B	48	50	96.0%	

Reported in mg/kg-dry

N-Control limit not met
NA-Not Applicable, Analyte Not Spiked
Control Limits: 80-120%

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: JF-T1B1-SO-13-R
SAMPLE

Lab Sample ID: SE82AA
LIMS ID: 11-874
Matrix: Water
Data Release Authorized:
Reported: 01/21/11

QC Report No: SE82-The Boeing Company
Project: Jorgenson Forge
7KPL2JDR
Date Sampled: 01/14/11
Date Received: 01/14/11

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/L	Q
3010A	01/18/11	6010B	01/20/11	7440-38-2	Arsenic	0.05	0.05	U
3010A	01/18/11	6010B	01/20/11	7440-43-9	Cadmium	0.002	0.002	U
3010A	01/18/11	6010B	01/20/11	7440-50-8	Copper	0.002	0.002	U
3010A	01/18/11	6010B	01/20/11	7439-92-1	Lead	0.02	0.02	U
3010A	01/18/11	6010B	01/20/11	7440-02-0	Nickel	0.01	0.01	U
3010A	01/18/11	6010B	01/20/11	7440-66-6	Zinc	0.01	0.01	U

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: METHOD BLANK

Lab Sample ID: SE82MB
LIMS ID: 11-874
Matrix: Water
Data Release Authorized:
Reported: 01/21/11

QC Report No: SE82-The Boeing Company
Project: Jorgenson Forge
7KPL2JDR
Date Sampled: NA
Date Received: NA

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/L	Q
3010A	01/18/11	6010B	01/20/11	7440-38-2	Arsenic	0.05	0.05	U
3010A	01/18/11	6010B	01/20/11	7440-43-9	Cadmium	0.002	0.002	U
3010A	01/18/11	6010B	01/20/11	7440-50-8	Copper	0.002	0.002	U
3010A	01/18/11	6010B	01/20/11	7439-92-1	Lead	0.02	0.02	U
3010A	01/18/11	6010B	01/20/11	7440-02-0	Nickel	0.01	0.01	U
3010A	01/18/11	6010B	01/20/11	7440-66-6	Zinc	0.01	0.01	U

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: LAB CONTROL

Lab Sample ID: SE82LCS
LIMS ID: 11-874
Matrix: Water
Data Release Authorized:
Reported: 01/21/11

QC Report No: SE82-The Boeing Company
Project: Jorgenson Forge
7KPL2JDR
Date Sampled: NA
Date Received: NA

BLANK SPIKE QUALITY CONTROL REPORT

Analyte	Analysis Method	Spike Found	Spike Added	% Recovery	Q
Arsenic	6010B	1.97	2.00	98.5%	
Cadmium	6010B	0.509	0.500	102%	
Copper	6010B	0.503	0.500	101%	
Lead	6010B	1.94	2.00	97.0%	
Nickel	6010B	0.50	0.50	100%	
Zinc	6010B	0.50	0.50	100%	

Reported in mg/L

N-Control limit not met
Control Limits: 80-120%

Analytical Resources, Incorporated
Analytical Chemists and Consultants

February 11, 2011

Tom Colligan
Floyd Snider
601 Union Street, Suite 600
Seattle, WA 98101-2341

RE: Project: Jorgensen Forge PLO
ARI Job No: SG07

Dear Tom:

Please find enclosed analytical results and the original Chain of Custody documentation (COC) for the project referenced above. Analytical Resources, Incorporated (ARI) accepted ten soil samples and one water sample on January 24, 2011. The samples were received in good condition. Select samples were placed on hold pending further instructions.

The samples were analyzed for Total Metals, TCLP Metals, SVOCs, PCBs and NWTPH-Dx, as requested.

The PCBs surrogate TCMX is out of control high for sample JF-PLSD-PS-15A. No action was taken.

The PCBs matrix spike and matrix spike duplicate were not recovered for sample JF-PLSD-PS-37-7-M due to the high concentration of analyte in the original sample and/or calculated negative recovery. No action was taken.

The NWTPH-Dx matrix spike and matrix spike duplicate were not recovered for sample JF-PLSD-PS-37-7-M due to the high concentration of analyte in the original sample and/or calculated negative recovery. No further was taken.

The total metals matrix spike for sample JF-PLSD-PS-37-7-M is out of control low for copper. No action was taken.

The TCLP method blank contained barium due to filtering. No action was taken.

The SVOCs 2/2/11 method blank contained bis (2-Ethylhexyl) phthalate. All associated samples that contain analyte have been flagged with a "B" qualifier.

The SVOCs sample JF-PLSD-PS-15B had low surrogate recoveries for 2FP, TBP and 2CP. The sample was re-extracted and re-analyzed with all surrogate recoveries in control. Both sets of data have been included for your review.

Several sample surrogates for SVOCs were out of control both high and/or low. Samples that had two or more surrogates out of control were re-analyzed at a dilution. Both sets of data have been included for your review.

The SVOCs 2/4/11 and 2/8/11 CCALs are out of control high for Indeno(1,2,3-cd) pyrene, dibenzo (a,h) anthracene and benzo (g,h,i) perylene . All associated samples that contain analyte have been flagged with a "Q" qualifier.

The SVOCs 2/7/11 CCAL is are out of control high for 4-Nitrophenol, dibenzo (a,h) anthracene and benzo (g,h,i) perylene . All associated samples that contain analyte have been flagged with a "Q" qualifier.

4611 South 134th Place, Suite 100 • Tukwila WA 98168 • **206-695-6200** • **206-695-6201** fax

Analytical Resources, Incorporated
Analytical Chemists and Consultants

The SVOCs 2/10/11 CCAL is out of control high for 4-Nitroaniline and 4-Nitrophenol. All associated samples that contain analyte have been flagged with a "Q" qualifier.

The SVOCs internal standard Perylene-d12 was out of control low for sample JF-PLSD-PS-37-7-M and its associated QC. The sample was re-analyzed at a dilution with all internal standard recoveries in control. Both sets of data have been included for your review.

The SVOCs matrix spike and/or matrix spike duplicate for sample JF-PLSD-PS-37-7-M is out of control low for several compounds. No action was taken.

No other analytical complications were noted for these analyses. Quality control results are included for your review.

A copy of the reports and all associated raw data will remain on file with ARI. If you have any questions or require additional information, please contact me at your convenience.

Sincerely,

ANALYTICAL RESOURCES, INC.

Kelly Bottem
Client Services Manager
kellyb@arilabs.com
206-695-6211
Enclosures

Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: 5	Turn-around Requested: Standard	Page: 1 of 2	
ARI Client Company: FLOYD | SNIDER Boeing	Phone: 206-292-2078	Date: 1/24/11	Ice Present? Y
Client Contact: NICK GARSON / TOM COLLIGAN		No. of Coolers: 1	Cooler Temps: 6.6
Client Project Name: JORGENSEN FORGE			
Client Project #: 7KPL2JOR	Samplers: DEAN BRAME / TOM COLLIGAN		

Analytical Resources, Incorporated
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6201 (fax)

Sample ID	Date	Time	Matrix	No. Containers	PCBs	SVOCs	TPH-D	Metals As, Cd, Cu, Pb Ni, Zn					Notes/Comments
JF-PLSD-PS-15A	1/24/11	1310	SOIL	3	x	x	x	x					
JF-PLSD-PS-15B		1455											
JF-PLSD-PS-24A		1340											
JF-PLSD-PS-24B		1415											
JF-PLSD-PS-37-7		1230											
JF-PLSD-PS-37-2		1200											
JF-PLSD-PS-PUBLIC		1110											
JF-PLSD-PS-~~15B-R~~ -24B-D		1420											
JF-PLSD-PS-37-7-M		1235											MS/MSD
JF-PLSD-PS-15B-R		1515	WATER	2	x								

Comments/Special Instructions	Relinquished by:	Received by:	Relinquished by:	Received by:
	(Signature) [signature]	(Signature) [signature]	(Signature)	(Signature)
	Printed Name: DEAN BRAME	Printed Name: Taylor Streeter	Printed Name:	Printed Name:
	Company: FLOYD | SNIDER	Company: ARI	Company:	Company:
	Date & Time: 1/24/11 1606	Date & Time: 1/24/11 1606	Date & Time:	Date & Time:

Limits of Liability: *ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, not withstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.*

Sample Retention Policy: All samples submitted to ARI will be appropriately discarded no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer, unless alternate retention schedules have been established by work-order or contract.

Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number:	Turn-around Requested: Standard
ARI Client Company: FLOYD SNIDER / BOEING	Phone: 206-292-2078
Client Contact: NICK GARSON / TOM COLLIGAN	
Client Project Name: JORGENSEN FORGE	
Client Project #: 7KPL2JOR	Samplers: DEAN BRAME/TOM COLLIGAN

Page: 2 of 2	
Date: 1/24/11	Ice Present?
No. of Coolers:	Cooler Temps: 6.6

Analytical Resources, Incorporated
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6201 (fax)

Sample ID	Date	Time	Matrix	No. Containers	PCBs	SVOCs	TPH-D	Metals As, Cd, Cu, Pb, Ni, Zn	TCLP-RCRA				Notes/Comments
JF-PLSD-PS-TCLP	1/24/11	1450	SOIL	1					X				

Comments/Special Instructions	Relinquished by:	Received by:	Relinquished by:	Received by:
	(Signature) [signature]	(Signature) [signature]	(Signature)	(Signature)
	Printed Name: DEAN BRAME	Printed Name: Tayler Streeter	Printed Name:	Printed Name:
	Company: FLOYD SNIDER	Company: ARI	Company:	Company:
	Date & Time: 1/24/11 1606	Date & Time: 1/24/11 1606	Date & Time:	Date & Time:

Limits of Liability: *ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, not withstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.*

Sample Retention Policy: All samples submitted to ARI will be appropriately discarded no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer, unless alternate retention schedules have been established by work-order or contract.

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: ~~Floyd Snider~~ Boeing

Project Name: Jorgensen Forge

COC No(s): _____ (NA)

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____

Assigned ARI Job No: 5907

Tracking No: _____ (NA)

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of to cooler?	YES	(NO)
Were custody papers included with the cooler?	(YES)	NO
Were custody papers properly filled out (ink, signed, etc.)	(YES)	NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)..... 6.6 ___ ___ ___

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID#: 90941619

Cooler Accepted by: TS Date: 1-24-11 Time: 16:06

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler?		YES	(NO)
What kind of packing material was used? ... Bubble Wrap (Wet Ice) Gel Packs (Baggies) Foam Block Paper Other: _____			
Was sufficient ice used (if appropriate)?	NA	(YES)	(NO)
Were all bottles sealed in individual plastic bags?		(YES)	NO
Did all bottles arrive in good condition (unbroken)?		(YES)	NO
Were all bottle labels complete and legible?		(YES)	NO
Did the number of containers listed on COC match with the number of containers received?		(YES)	NO
Did all bottle labels and tags agree with custody papers?		(YES)	NO
Were all bottles used correct for the requested analyses?		(YES)	NO
Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs)...	(NA)	YES	NO
Were all VOC vials free of air bubbles?	(NA)	YES	NO
Was sufficient amount of sample sent in each bottle?		(YES)	NO
Date VOC Trip Blank was made at ARI	(NA)		_____

Was Sample Split by ARI : (NA) YES Date/Time: _____ Equipment: _____ Split by: _____

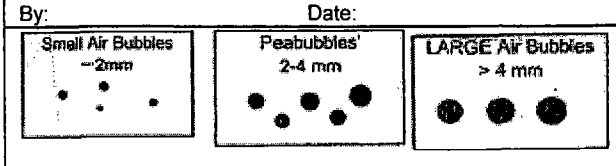
Samples Logged by: [signature] Date: 1/25/11 Time: 0900.

***** Notify Project Manager of discrepancies or concerns *****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: Date:



Small → "sm"
Peabubbles → "pb"
Large → "lg"
Headspace → "hs"

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Temperature Compliance Form

Cooler#: 1	Temperature(°C): 6.6	
Sample ID	**Bottle Count**	**Bottle Type**
All samples		
were out of		
temp compliance		

Cooler#:	Temperature(°C):	
Sample ID	**Bottle Count**	**Bottle Type**

Cooler#:	Temperature(°C):	
Sample ID	**Bottle Count**	**Bottle Type**

Cooler#:	Temperature(°C):	
Sample ID	**Bottle Count**	**Bottle Type**

Completed by: FS Date: 1-27-11 Time: ~~10:06~~ 16:06

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JF-PLSD-PS-15A
SAMPLE

Lab Sample ID: SG07A
LIMS ID: 11-1522
Matrix: Soil
Data Release Authorized:
Reported: 02/07/11

QC Report No: SG07-The Boeing Company
Project: Jorgensen Forge
7KPL2JOR
Date Sampled: 01/24/11
Date Received: 01/24/11

Date Extracted: 01/31/11
Date Analyzed: 02/03/11 16:58
Instrument/Analyst: ECD5/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 4.48 g-dry-wt
Final Extract Volume: 40 mL
Dilution Factor: 10.0
Silica Gel: No

Percent Moisture: 11.9%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	1,800	< 1,800 U
53469-21-9	Aroclor 1242	1,800	< 1,800 U
12672-29-6	**Aroclor 1248**	**1,800**	**26,000**
11097-69-1	**Aroclor 1254**	**1,800**	**36,000**
11096-82-5	**Aroclor 1260**	**1,800**	**6,000**
11104-28-2	Aroclor 1221	1,800	< 1,800 U
11141-16-5	Aroclor 1232	1,800	< 1,800 U
37324-23-5	Aroclor 1262	1,800	< 1,800 U
11100-14-4	Aroclor 1268	1,800	< 1,800 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	132%
Tetrachlorometaxylene	124%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JF-PLSD-PS-15B
SAMPLE

Lab Sample ID: SG07B
LIMS ID: 11-1523
Matrix: Soil
Data Release Authorized:
Reported: 02/07/11

QC Report No: SG07-The Boeing Company
Project: Jorgensen Forge
7KPL2JOR
Date Sampled: 01/24/11
Date Received: 01/24/11

Date Extracted: 01/31/11
Date Analyzed: 02/03/11 17:17
Instrument/Analyst: ECD5/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 1.82 g-dry-wt
Final Extract Volume: 40 mL
Dilution Factor: 50.0
Silica Gel: No

Percent Moisture: 27.6%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	22,000	< 22,000 U
53469-21-9	Aroclor 1242	22,000	< 22,000 U
12672-29-6	Aroclor 1248	160,000	< 160,000 Y
11097-69-1	**Aroclor 1254**	**22,000**	**630,000**
11096-82-5	**Aroclor 1260**	**22,000**	**120,000**
11104-28-2	Aroclor 1221	22,000	< 22,000 U
11141-16-5	Aroclor 1232	22,000	< 22,000 U
37324-23-5	Aroclor 1262	22,000	< 22,000 U
11100-14-4	Aroclor 1268	22,000	< 22,000 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	D
Tetrachlorometaxylene	D

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JF-PLSD-PS-24A
SAMPLE

Lab Sample ID: SG07C
LIMS ID: 11-1524
Matrix: Soil
Data Release Authorized:
Reported: 02/07/11

QC Report No: SG07-The Boeing Company
Project: Jorgensen Forge
7KPL2JOR
Date Sampled: 01/24/11
Date Received: 01/24/11

Date Extracted: 01/31/11
Date Analyzed: 02/03/11 17:36
Instrument/Analyst: ECD5/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 4.20 g-dry-wt
Final Extract Volume: 40 mL
Dilution Factor: 10.0
Silica Gel: No

Percent Moisture: 16.5%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	1,900	< 1,900 U
53469-21-9	Aroclor 1242	1,900	< 1,900 U
12672-29-6	Aroclor 1248	19,000	< 19,000 Y
11097-69-1	**Aroclor 1254**	**1,900**	**39,000**
11096-82-5	Aroclor 1260	4,800	< 4,800 Y
11104-28-2	Aroclor 1221	1,900	< 1,900 U
11141-16-5	Aroclor 1232	1,900	< 1,900 U
37324-23-5	Aroclor 1262	1,900	< 1,900 U
11100-14-4	Aroclor 1268	1,900	< 1,900 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	119%
Tetrachlorometaxylene	102%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JF-PLSD-PS-24B
SAMPLE

Lab Sample ID: SG07D
LIMS ID: 11-1525
Matrix: Soil
Data Release Authorized:
Reported: 02/07/11

QC Report No: SG07-The Boeing Company
Project: Jorgensen Forge
7KPL2JOR
Date Sampled: 01/24/11
Date Received: 01/24/11

Date Extracted: 01/31/11
Date Analyzed: 02/03/11 17:55
Instrument/Analyst: ECD5/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 0.76 g-dry-wt
Final Extract Volume: 40 mL
Dilution Factor: 200
Silica Gel: No

Percent Moisture: 29.0%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	210,000	< 210,000 U
53469-21-9	Aroclor 1242	210,000	< 210,000 U
12672-29-6	Aroclor 1248	740,000	< 740,000 Y
11097-69-1	**Aroclor 1254**	**210,000**	**1,600,000**
11096-82-5	Aroclor 1260	210,000	< 210,000 U
11104-28-2	Aroclor 1221	210,000	< 210,000 U
11141-16-5	Aroclor 1232	210,000	< 210,000 U
37324-23-5	Aroclor 1262	210,000	< 210,000 U
11100-14-4	Aroclor 1268	210,000	< 210,000 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	D
Tetrachlorometaxylene	D

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JF-PLSD-PS-37-7
SAMPLE

Lab Sample ID: SG07E
LIMS ID: 11-1526
Matrix: Soil
Data Release Authorized:
Reported: 02/07/11

QC Report No: SG07-The Boeing Company
Project: Jorgensen Forge
7KPL2JOR
Date Sampled: 01/24/11
Date Received: 01/24/11

Date Extracted: 01/31/11
Date Analyzed: 02/03/11 18:13
Instrument/Analyst: ECD5/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 0.51 g-dry-wt
Final Extract Volume: 40 mL
Dilution Factor: 200
Silica Gel: No

Percent Moisture: 51.2%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	320,000	< 320,000 U
53469-21-9	Aroclor 1242	320,000	< 320,000 U
12672-29-6	Aroclor 1248	1,100,000	< 1,100,000 Y
11097-69-1	**Aroclor 1254**	**320,000**	**1,900,000**
11096-82-5	Aroclor 1260	320,000	< 320,000 U
11104-28-2	Aroclor 1221	320,000	< 320,000 U
11141-16-5	Aroclor 1232	320,000	< 320,000 U
37324-23-5	Aroclor 1262	320,000	< 320,000 U
11100-14-4	Aroclor 1268	320,000	< 320,000 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	D
Tetrachlorometaxylene	D

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JF-PLSD-PS-37-2
SAMPLE

Lab Sample ID: SG07F
LIMS ID: 11-1527
Matrix: Soil
Data Release Authorized:
Reported: 02/07/11

QC Report No: SG07-The Boeing Company
Project: Jorgensen Forge
7KPL2JOR
Date Sampled: 01/24/11
Date Received: 01/24/11

Date Extracted: 01/31/11
Date Analyzed: 02/03/11 18:32
Instrument/Analyst: ECD5/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 0.78 g-dry-wt
Final Extract Volume: 40 mL
Dilution Factor: 2000
Silica Gel: No

Percent Moisture: 26.0%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	2,000,000	< 2,000,000 U
53469-21-9	Aroclor 1242	2,000,000	< 2,000,000 U
12672-29-6	Aroclor 1248	6,100,000	< 6,100,000 Y
11097-69-1	**Aroclor 1254**	**2,000,000**	**8,800,000**
11096-82-5	Aroclor 1260	2,000,000	< 2,000,000 U
11104-28-2	Aroclor 1221	2,000,000	< 2,000,000 U
11141-16-5	Aroclor 1232	2,000,000	< 2,000,000 U
37324-23-5	Aroclor 1262	2,000,000	< 2,000,000 U
11100-14-4	Aroclor 1268	2,000,000	< 2,000,000 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	D
Tetrachlorometaxylene	D

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JF-PLSD-PS-PUBLIC
SAMPLE

Lab Sample ID: SG07G
LIMS ID: 11-1528
Matrix: Soil
Data Release Authorized:
Reported: 02/07/11

QC Report No: SG07-The Boeing Company
Project: Jorgensen Forge
7KPL2JOR
Date Sampled: 01/24/11
Date Received: 01/24/11

Date Extracted: 01/31/11
Date Analyzed: 02/03/11 19:29
Instrument/Analyst: ECD5/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 1.83 g-dry-wt
Final Extract Volume: 40 mL
Dilution Factor: 100
Silica Gel: No

Percent Moisture: 27.4%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	44,000	< 44,000 U
53469-21-9	Aroclor 1242	44,000	< 44,000 U
12672-29-6	Aroclor 1248	87,000	< 87,000 Y
11097-69-1	**Aroclor 1254**	**44,000**	**150,000**
11096-82-5	Aroclor 1260	44,000	< 44,000 U
11104-28-2	Aroclor 1221	44,000	< 44,000 U
11141-16-5	Aroclor 1232	44,000	< 44,000 U
37324-23-5	Aroclor 1262	44,000	< 44,000 U
11100-14-4	Aroclor 1268	44,000	< 44,000 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	D
Tetrachlorometaxylene	D

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JF-PLSD-PS-24B-D
SAMPLE

Lab Sample ID: SG07H
LIMS ID: 11-1529
Matrix: Soil
Data Release Authorized:
Reported: 02/07/11

QC Report No: SG07-The Boeing Company
Project: Jorgensen Forge
7KPL2JOR
Date Sampled: 01/24/11
Date Received: 01/24/11

Date Extracted: 01/31/11
Date Analyzed: 02/03/11 19:47
Instrument/Analyst: ECD5/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 1.89 g-dry-wt
Final Extract Volume: 40 mL
Dilution Factor: 200
Silica Gel: No

Percent Moisture: 24.6%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	84,000	< 84,000 U
53469-21-9	Aroclor 1242	84,000	< 84,000 U
12672-29-6	Aroclor 1248	840,000	< 840,000 Y
11097-69-1	**Aroclor 1254**	**84,000**	**1,700,000**
11096-82-5	Aroclor 1260	210,000	< 210,000 Y
11104-28-2	Aroclor 1221	84,000	< 84,000 U
11141-16-5	Aroclor 1232	84,000	< 84,000 U
37324-23-5	Aroclor 1262	84,000	< 84,000 U
11100-14-4	Aroclor 1268	84,000	< 84,000 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	D
Tetrachlorometaxylene	D

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JF-PLSD-PS-37-7-M
SAMPLE

Lab Sample ID: SG07I
LIMS ID: 11-1530
Matrix: Soil
Data Release Authorized:
Reported: 02/07/11

QC Report No: SG07-The Boeing Company
Project: Jorgensen Forge
7KPL2JOR
Date Sampled: 01/24/11
Date Received: 01/24/11

Date Extracted: 01/31/11
Date Analyzed: 02/03/11 20:06
Instrument/Analyst: ECD5/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 0.56 g-dry-wt
Final Extract Volume: 40 mL
Dilution Factor: 200
Silica Gel: No

Percent Moisture: 45.4%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	280,000	< 280,000 U
53469-21-9	Aroclor 1242	280,000	< 280,000 U
12672-29-6	Aroclor 1248	1,100,000	< 1,100,000 Y
11097-69-1	**Aroclor 1254**	**280,000**	**2,300,000**
11096-82-5	Aroclor 1260	280,000	< 280,000 U
11104-28-2	Aroclor 1221	280,000	< 280,000 U
11141-16-5	Aroclor 1232	280,000	< 280,000 U
37324-23-5	Aroclor 1262	280,000	< 280,000 U
11100-14-4	Aroclor 1268	280,000	< 280,000 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	D
Tetrachlorometaxylene	D

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JF-PLSD-PS-37-7-M
MATRIX SPIKE

Lab Sample ID: SG07I
LIMS ID: 11-1530
Matrix: Soil
Data Release Authorized:
Reported: 02/07/11

QC Report No: SG07-The Boeing Company
Project: Jorgensen Forge
7KPL2JOR
Date Sampled: 01/24/11
Date Received: 01/24/11

Date Extracted: 01/31/11
Date Analyzed: 02/03/11 20:25
Instrument/Analyst: ECD5/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 0.58 g-dry-wt
Final Extract Volume: 40 mL
Dilution Factor: 200
Silica Gel: No

Percent Moisture: 45.4%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	280,000	---
53469-21-9	Aroclor 1242	280,000	< 280,000 U
12672-29-6	Aroclor 1248	1,400,000	< 1,400,000 Y
11097-69-1	**Aroclor 1254**	**280,000**	**2,300,000**
11096-82-5	Aroclor 1260	280,000	---
11104-28-2	Aroclor 1221	280,000	< 280,000 U
11141-16-5	Aroclor 1232	280,000	< 280,000 U
37324-23-5	Aroclor 1262	280,000	< 280,000 U
11100-14-4	Aroclor 1268	280,000	< 280,000 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	D
Tetrachlorometaxylene	D

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JF-PLSD-PS-37-7-M
MATRIX SPIKE DUP

Lab Sample ID: SG07I
LIMS ID: 11-1530
Matrix: Soil
Data Release Authorized:
Reported: 02/07/11

QC Report No: SG07-The Boeing Company
Project: Jorgensen Forge
7KPL2JOR
Date Sampled: 01/24/11
Date Received: 01/24/11

Date Extracted: 01/31/11
Date Analyzed: 02/03/11 20:44
Instrument/Analyst: ECD5/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 0.58 g-dry-wt
Final Extract Volume: 40 mL
Dilution Factor: 200
Silica Gel: No

Percent Moisture: 45.4%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	280,000	---
53469-21-9	Aroclor 1242	280,000	< 280,000 U
12672-29-6	Aroclor 1248	970,000	< 970,000 Y
11097-69-1	**Aroclor 1254**	**280,000**	**1,600,000**
11096-82-5	Aroclor 1260	280,000	---
11104-28-2	Aroclor 1221	280,000	< 280,000 U
11141-16-5	Aroclor 1232	280,000	< 280,000 U
37324-23-5	Aroclor 1262	280,000	< 280,000 U
11100-14-4	Aroclor 1268	280,000	< 280,000 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	D
Tetrachlorometaxylene	D

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: MB-013111
METHOD BLANK

Lab Sample ID: MB-013111
LIMS ID: 11-1530
Matrix: Soil
Data Release Authorized:
Reported: 02/07/11

QC Report No: SG07-The Boeing Company
Project: Jorgensen Forge
7KPL2JOR
Date Sampled: NA
Date Received: NA

Date Extracted: 01/31/11
Date Analyzed: 02/03/11 16:02
Instrument/Analyst: ECD5/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 5.00 g
Final Extract Volume: 40 mL
Dilution Factor: 5.00
Silica Gel: No

Percent Moisture: NA

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	800	< 800 U
53469-21-9	Aroclor 1242	800	< 800 U
12672-29-6	Aroclor 1248	800	< 800 U
11097-69-1	Aroclor 1254	800	< 800 U
11096-82-5	Aroclor 1260	800	< 800 U
11104-28-2	Aroclor 1221	800	< 800 U
11141-16-5	Aroclor 1232	800	< 800 U
37324-23-5	Aroclor 1262	800	< 800 U
11100-14-4	Aroclor 1268	800	< 800 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	101%
Tetrachlorometaxylene	91.8%

FORM I

ANALYTICAL RESOURCES INCORPORATED

SW8082/PCB SOIL/SEDIMENT SURROGATE RECOVERY SUMMARY

Matrix: Soil

QC Report No: SG07-The Boeing Company
Project: Jorgensen Forge
7KPL2JOR

Client ID	DCBP % REC	DCBP LCL-UCL	TCMX % REC	TCMX LCL-UCL	TOT OUT
JF-PLSD-PS-15A	132%	22-168	124%*	28-106	1
JF-PLSD-PS-15B	D	22-168	D	28-106	0
JF-PLSD-PS-24A	119%	22-168	102%	28-106	0
JF-PLSD-PS-24B	D	22-168	D	28-106	0
JF-PLSD-PS-37-7	D	22-168	D	28-106	0
JF-PLSD-PS-37-2	D	22-168	D	28-106	0
JF-PLSD-PS-PUBLIC	D	22-168	D	28-106	0
JF-PLSD-PS-24B-D	D	22-168	D	28-106	0
MB-013111	101%	51-127	91.8%	49-110	0
LCS-013111	98.9%	51-127	90.2%	49-110	0
LCSD-013111	103%	51-127	94.1%	49-110	0
JF-PLSD-PS-37-7-M	D	22-168	D	28-106	0
JF-PLSD-PS-37-7-M MS	D	22-168	D	28-106	0
JF-PLSD-PS-37-7-M MSD	D	22-168	D	28-106	0

Medium Level Control Limits
Prep Method: SW3580A
Log Number Range: 11-1522 to 11-1530

FORM-II SW8082

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: JF-PLSD-PS-37-7-M
MS/MSD

Lab Sample ID: SG07I
LIMS ID: 11-1530
Matrix: Soil
Data Release Authorized:
Reported: 02/07/11

QC Report No: SG07-The Boeing Company
Project: Jorgensen Forge
7KPL2JOR
Date Sampled: 01/24/11
Date Received: 01/24/11

Date Extracted MS/MSD: 01/31/11

Date Analyzed MS: 02/03/11 20:25
MSD: 02/03/11 20:44
Instrument/Analyst MS: ECD5/JGR
MSD: ECD5/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount MS: 0.58 g-dry-wt
MSD: 0.58 g-dry-wt
Final Extract Volume MS: 40 mL
MSD: 40 mL
Dilution Factor MS: 200
MSD: 200
Silica Gel: No

Percent Moisture: 45.4%

Analyte	Sample	MS	Spike Added-MS	MS Recovery	MSD	Spike Added-MSD	MSD Recovery	RPD
Aroclor 1016	< 285000 U	< 276000 U	34500	NA	< 276000 U	34500	NA	NA
Aroclor 1260	< 285000 U	< 276000 U	34500	NA	< 276000 U	34500	NA	NA

Results reported in µg/kg (ppb)
NA-No recovery due to high concentration of analyte in original sample and/or calculated negative recovery.
RPD calculated using sample concentrations per SW846.

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: LCS-013111
LCS/LCSD

Lab Sample ID: LCS-013111
LIMS ID: 11-1530
Matrix: Soil
Data Release Authorized:
Reported: 02/07/11

QC Report No: SG07-The Boeing Company
Project: Jorgensen Forge
7KPL2JOR
Date Sampled: NA
Date Received: NA

Date Extracted LCS/LCSD: 01/31/11

Date Analyzed LCS: 02/03/11 16:21
LCSD: 02/03/11 16:39
Instrument/Analyst LCS: ECD5/JGR
LCSD: ECD5/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount LCS: 5.00 g-dry-wt
LCSD: 5.00 g-dry-wt
Final Extract Volume LCS: 40 mL
LCSD: 40 mL
Dilution Factor LCS: 5.00
LCSD: 5.00
Silica Gel: No

Percent Moisture: NA

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Aroclor 1016	4040	4000	101%	4240	4000	106%	4.8%
Aroclor 1260	4140	4000	104%	4310	4000	108%	4.0%

PCB Surrogate Recovery

	LCS	LCSD
Decachlorobiphenyl	98.9%	103%
Tetrachlorometaxylene	90.2%	94.1%

Results reported in µg/kg (ppb)
RPD calculated using sample concentrations per SW846.

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: JF-PLSD-PS-15B-R
SAMPLE

Lab Sample ID: SG07K
LIMS ID: 11-1532
Matrix: Water
Data Release Authorized: MW
Reported: 02/08/11

QC Report No: SG07-The Boeing Company
Project: Jorgensen Forge
7KPL2JOR
Date Sampled: 01/24/11
Date Received: 01/24/11

Date Extracted: 01/28/11
Date Analyzed: 02/04/11 02:59
Instrument/Analyst: ECD5/AAR
GPC Cleanup: No
Sulfur Cleanup: Yes

Sample Amount: 1000 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00
Silica Gel: Yes
Acid Cleanup: Yes

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	0.010	< 0.010 U
53469-21-9	Aroclor 1242	0.010	< 0.010 U
12672-29-6	Aroclor 1248	0.079	< 0.079 Y
11097-69-1	**Aroclor 1254**	**0.010**	**0.19**
11096-82-5	Aroclor 1260	0.026	< 0.026 Y
11104-28-2	Aroclor 1221	0.010	< 0.010 U
11141-16-5	Aroclor 1232	0.010	< 0.010 U
37324-23-5	Aroclor 1262	0.010	< 0.010 U
11100-14-4	Aroclor 1268	0.010	< 0.010 U

Reported in µg/L (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	72.2%
Tetrachlorometaxylene	58.2%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: MB-012811
METHOD BLANK

Lab Sample ID: MB-012811
LIMS ID: 11-1532
Matrix: Water
Data Release Authorized:
Reported: 02/08/11

QC Report No: SG07-The Boeing Company
Project: Jorgensen Forge
7KPL2JOR
Date Sampled: NA
Date Received: NA

Date Extracted: 01/28/11
Date Analyzed: 02/04/11 01:06
Instrument/Analyst: ECD5/AAR
GPC Cleanup: No
Sulfur Cleanup: Yes

Sample Amount: 1000 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00
Silica Gel: Yes
Acid Cleanup: Yes

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	0.010	< 0.010 U
53469-21-9	Aroclor 1242	0.010	< 0.010 U
12672-29-6	Aroclor 1248	0.010	< 0.010 U
11097-69-1	Aroclor 1254	0.010	< 0.010 U
11096-82-5	Aroclor 1260	0.010	< 0.010 U
11104-28-2	Aroclor 1221	0.010	< 0.010 U
11141-16-5	Aroclor 1232	0.010	< 0.010 U
37324-23-5	Aroclor 1262	0.010	< 0.010 U
11100-14-4	Aroclor 1268	0.010	< 0.010 U

Reported in µg/L (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	71.5%
Tetrachlorometaxylene	46.5%

FORM I

ANALYTICAL RESOURCES INCORPORATED

SW8082/PCB WATER SURROGATE RECOVERY SUMMARY

Matrix: Water

QC Report No: SG07-The Boeing Company
Project: Jorgensen Forge
7KPL2JOR

Client ID	DCBP % REC	DCBP LCL-UCL	TCMX % REC	TCMX LCL-UCL	TOT OUT
MB-012811	71.5%	32-108	46.5%	31-100	0
LCS-012811	75.5%	32-108	57.0%	31-100	0
LCSD-012811	62.5%	32-108	48.2%	31-100	0
JF-PLSD-PS-15B-R	72.2%	19-111	58.2%	21-100	0

Prep Method: SW3510C
Log Number Range: 11-1532 to 11-1532

FORM-II SW8082

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: LCS-012811
LCS/LCSD

Lab Sample ID: LCS-012811
LIMS ID: 11-1532
Matrix: Water
Data Release Authorized:
Reported: 02/08/11

QC Report No: SG07-The Boeing Company
Project: Jorgensen Forge
7KPL2JOR
Date Sampled: NA
Date Received: NA

Date Extracted LCS/LCSD: 01/28/11

Date Analyzed LCS: 02/04/11 01:25
LCSD: 02/04/11 01:44
Instrument/Analyst LCS: ECD5/AAR
LCSD: ECD5/AAR
GPC Cleanup: No
Sulfur Cleanup: Yes

Sample Amount LCS: 1000 mL
LCSD: 1000 mL
Final Extract Volume LCS: 0.50 mL
LCSD: 0.50 mL
Dilution Factor LCS: 1.00
LCSD: 1.00
Silica Gel: Yes
Acid Cleanup: Yes

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Aroclor 1016	0.036	0.050	72.0%	0.033	0.050	66.0%	8.7%
Aroclor 1260	0.040	0.050	80.0%	0.035	0.050	70.0%	13.3%

PCB Surrogate Recovery

	LCS	LCSD
Decachlorobiphenyl	75.5%	62.5%
Tetrachlorometaxylene	57.0%	48.2%

Results reported in µg/L
RPD calculated using sample concentrations per SW846.

FORM III

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
TOTAL DIESEL RANGE HYDROCARBONS
NWTPHD by GC/FID-Silica and Acid Cleaned

Matrix: Soil

QC Report No: SG07-The Boeing Company
Project: Jorgensen Forge
7KPL2JOR

Data Release Authorized:
Reported: 02/02/11

ARI ID	Sample ID	Extraction Date	Analysis Date	EFV DL	Range	RL	Result
SG07A	JF-PLSD-PS-15A	01/26/11	01/27/11	1.00	**Diesel**	**5.7**	**32**
11-1522	HC ID: **DRO/MOTOR OIL**		FID3B	1.0	**Motor Oil**	**11**	**85**
					Mineral Oil	**11**	**77**
					o-Terphenyl		92.4%
SG07B	JF-PLSD-PS-15B	01/26/11	01/28/11	1.00	**Diesel**	**34**	**800**
11-1523	HC ID: **DRO/MOTOR OIL**		FID3B	5.0	**Motor Oil**	**69**	**1800**
					Mineral Oil	**69**	**1600**
					o-Terphenyl		94.7%
SG07C	JF-PLSD-PS-24A	01/26/11	01/28/11	1.00	**Diesel**	**5.9**	**16**
11-1524	HC ID: **DRO/MOTOR OIL**		FID3B	1.0	**Motor Oil**	**12**	**56**
					Mineral Oil	**12**	**50**
					o-Terphenyl		101%
SG07D	JF-PLSD-PS-24B	01/26/11	01/28/11	1.00	**Diesel**	**35**	**1100**
11-1525	HC ID: **DRO/MOTOR OIL**		FID3B	5.0	**Motor Oil**	**70**	**1300**
					Mineral Oil	**70**	**1200**
					o-Terphenyl		103%
SG07E	JF-PLSD-PS-37-7	01/26/11	01/28/11	1.00	**Diesel**	**51**	**1100**
11-1526	HC ID: **DRO/MOTOR OIL**		FID3B	5.0	**Motor Oil**	**100**	**2200**
					Mineral Oil	**100**	**2000**
					o-Terphenyl		102%
SG07F	JF-PLSD-PS-37-2	01/26/11	01/28/11	1.00	**Diesel**	**340**	**5100**
11-1527	HC ID: **DRO/MOTOR OIL**		FID3B	50	**Motor Oil**	**670**	**5400**
					Mineral Oil	**670**	**4900**
					o-Terphenyl		D
SG07G	JF-PLSD-PS-PUBLIC	01/26/11	01/28/11	1.00	**Diesel**	**34**	**540**
11-1528	HC ID: **DIESEL/MOTOR OIL**		FID3B	5.0	**Motor Oil**	**68**	**1600**
					Mineral Oil	**68**	**1500**
					o-Terphenyl		92.6%
SG07H	JF-PLSD-PS-24B-D	01/26/11	01/28/11	1.00	**Diesel**	**33**	**810**
11-1529	HC ID: **DRO/MOTOR OIL**		FID3B	5.0	**Motor Oil**	**66**	**1200**
					Mineral Oil	**66**	**1100**
					o-Terphenyl		111%
MB-012611	Method Blank	01/26/11	01/27/11	1.00	Diesel	5.0	< 5.0 U
11-1530	HC ID: ---		FID3B	1.0	Motor Oil	10	< 10 U
					Mineral Oil	10	< 10 U
					o-Terphenyl		102%
SG07I	JF-PLSD-PS-37-7-M	01/26/11	01/28/11	1.00	**Diesel**	**46**	**1100**
11-1530	HC ID: **DRO/MOTOR OIL**		FID3B	5.0	**Motor Oil**	**91**	**2000**
					Mineral Oil	**91**	**1900**
					o-Terphenyl		112%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
TOTAL DIESEL RANGE HYDROCARBONS
NWTPHD by GC/FID-Silica and Acid Cleaned

Matrix: Soil

QC Report No: SG07-The Boeing Company
Project: Jorgensen Forge
7KPL2JOR

Data Release Authorized:
Reported: 03/02/11

ARI ID	Sample ID	Extraction Date	Analysis Date	EFV DL	Range	RL	Result

Reported in mg/kg (ppm)

EFV-Effective Final Volume in mL.
DL-Dilution of extract prior to analysis.
RL-Reporting limit.

Diesel quantitation on total peaks in the range from C12 to C24.
Motor Oil quantitation on total peaks in the range from C24 to C38.
Mineral Oil quantitation on total peaks in the range from C24 to C38.
HC ID: DRO/RRO indicate results of organics or additional hydrocarbons in ranges are not identifiable.

SG07: 00027R
3/2/11

ANALYTICAL RESOURCES INCORPORATED

CLEANED TPHD SURROGATE RECOVERY SUMMARY

Matrix: Soil

QC Report No: SG07-The Boeing Company
Project: Jorgensen Forge
7KPL2JOR

Client ID	OTER	TOT OUT
JF-PLSD-PS-15A	92.4%	0
JF-PLSD-PS-15B	94.7%	0
JF-PLSD-PS-24A	101%	0
JF-PLSD-PS-24B	103%	0
JF-PLSD-PS-37-7	102%	0
JF-PLSD-PS-37-2	D	0
JF-PLSD-PS-PUBLIC	92.6%	0
JF-PLSD-PS-24B-D	111%	0
MB-012611	102%	0
LCS-012611	89.1%	0
LCSD-012611	95.4%	0
JF-PLSD-PS-37-7-M	112%	0
JF-PLSD-PS-37-7-M MS	109%	0
JF-PLSD-PS-37-7-M MSD	105%	0

	LCS/MB LIMITS	QC LIMITS
(OTER) = o-Terphenyl	(59-134)	(43-137)

Prep Method: SW3546
Log Number Range: 11-1522 to 11-1530

FORM-II TPHD

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
NWTPHD by GC/FID-Silica and Acid Cleaned

Sample ID: JF-PLSD-PS-37-7-M MS/MSD

Lab Sample ID: SG07I
LIMS ID: 11-1530
Matrix: Soil
Data Release Authorized:
Reported: 02/02/11

QC Report No: SG07-The Boeing Company
Project: Jorgensen Forge 7KPL2JOR
Date Sampled: 01/24/11
Date Received: 01/24/11

Date Extracted MS/MSD: 01/26/11

Date Analyzed MS: 01/29/11 00:11
MSD: 01/29/11 00:33
Instrument/Analyst MS: FID/MS
MSD: FID/MS

Sample Amount MS: 5.47 g-dry-wt
MSD: 5.49 g-dry-wt
Final Extract Volume MS: 1.0 mL
MSD: 1.0 mL
Dilution Factor MS: 5.0
MSD: 5.0
Percent Moisture: 45.4%

Range	Sample	MS	Spike Added-MS	MS Recovery	MSD	Spike Added-MSD	MSD Recovery	RPD
Diesel	1110	1500	274	NA	1120	273	NA	29.0%

TPHD Surrogate Recovery

	MS	MSD
o-Terphenyl	109%	105%

Results reported in mg/kg
NA-No recovery due to high concentration of analyte in original sample and/or calculated negative recovery.
RPD calculated using sample concentrations per SW846.

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
NWTPHD by GC/FID-Silica and Acid Cleaned **Sample ID: LCS-012611**
 LCS/LCSD

Lab Sample ID: LCS-012611
LIMS ID: 11-1530
Matrix: Soil
Data Release Authorized:
Reported: 02/02/11

QC Report No: SG07-The Boeing Company
Project: Jorgensen Forge
7KPL2JOR
Date Sampled: 01/24/11
Date Received: 01/24/11

Date Extracted LCS/LCSD: 01/26/11
Date Analyzed LCS: 01/27/11 22:46
LCSD: 01/27/11 23:08
Instrument/Analyst LCS: FID/MS
LCSD: FID/MS

Sample Amount LCS: 10.0 g
LCSD: 10.0 g
Final Extract Volume LCS: 1.0 mL
LCSD: 1.0 mL
Dilution Factor LCS: 1.0
LCSD: 1.0

Range	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Diesel	132	150	88.0%	131	150	87.3%	0.8%

TPHD Surrogate Recovery

	LCS	LCSD
o-Terphenyl	89.1%	95.4%

Results reported in mg/kg
RPD calculated using sample concentrations per SW846.

ANALYTICAL RESOURCES INCORPORATED

TOTAL DIESEL RANGE HYDROCARBONS-EXTRACTION REPORT

ARI Job: SG07
Project: Jorgensen Forge 7KPL2JOR

Matrix: Soil
Date Received: 01/24/11

ARI ID	Client ID	Client Amt	Final Vol	Basis	Prep Date
11-1522-SG07A	JF-PLSD-PS-15A	8.82 g	1.00 mL	D	01/26/11
11-1523-SG07B	JF-PLSD-PS-15B	7.27 g	1.00 mL	D	01/26/11
11-1524-SG07C	JF-PLSD-PS-24A	8.42 g	1.00 mL	D	01/26/11
11-1525-SG07D	JF-PLSD-PS-24B	7.11 g	1.00 mL	D	01/26/11
11-1526-SG07E	JF-PLSD-PS-37-7	4.89 g	1.00 mL	D	01/26/11
11-1527-SG07F	JF-PLSD-PS-37-2	7.42 g	1.00 mL	D	01/26/11
11-1528-SG07G	JF-PLSD-PS-PUBLIC	7.33 g	1.00 mL	D	01/26/11
11-1529-SG07H	JF-PLSD-PS-24B-D	7.62 g	1.00 mL	D	01/26/11
11-1530-012611MB1	Method Blank	10.0 g	1.00 mL	-	01/26/11
11-1530-012611LCS1	Lab Control	10.0 g	1.00 mL	-	01/26/11
11-1530-012611LCSD1	Lab Control Dup	10.0 g	1.00 mL	-	01/26/11
11-1530-SG07I	JF-PLSD-PS-37-7-M	5.48 g	1.00 mL	D	01/26/11
11-1530-SG07IMS	JF-PLSD-PS-37-7-M	5.47 g	1.00 mL	D	01/26/11
11-1530-SG07IMSD	JF-PLSD-PS-37-7-M	5.49 g	1.00 mL	D	01/26/11

Basis: D=Dry Weight W=As Received

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS

Sample ID: JF-PLSD-PS-15A
SAMPLE

Lab Sample ID: SG07A
LIMS ID: 11-1522
Matrix: Soil
Data Release Authorized:
Reported: 02/09/11

QC Report No: SG07-The Boeing Company
Project: Jorgensen Forge
7KPL2JOR
Date Sampled: 01/24/11
Date Received: 01/24/11

Date Extracted: 02/02/11
Date Analyzed: 02/07/11 12:58
Instrument/Analyst: NT4/JZ
GPC Cleanup: Yes

Sample Amount: 7.97 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 11.9%

CAS Number	Analyte	RL	Result
108-95-2	Phenol	63	< 63 U
111-44-4	Bis-(2-Chloroethyl) Ether	63	< 63 U
95-57-8	2-Chlorophenol	63	< 63 U
541-73-1	1,3-Dichlorobenzene	63	< 63 U
106-46-7	1,4-Dichlorobenzene	63	< 63 U
100-51-6	Benzyl Alcohol	310	< 310 U
95-50-1	1,2-Dichlorobenzene	63	< 63 U
95-48-7	2-Methylphenol	63	< 63 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	63	< 63 U
106-44-5	4-Methylphenol	63	< 63 U
621-64-7	N-Nitroso-Di-N-Propylamine	63	< 63 U
67-72-1	Hexachloroethane	63	< 63 U
98-95-3	Nitrobenzene	63	< 63 U
78-59-1	Isophorone	63	< 63 U
88-75-5	2-Nitrophenol	63	< 63 U
105-67-9	2,4-Dimethylphenol	63	< 63 U
65-85-0	Benzoic Acid	630	< 630 U
111-91-1	bis(2-Chloroethoxy) Methane	63	< 63 U
120-83-2	2,4-Dichlorophenol	310	< 310 U
120-82-1	1,2,4-Trichlorobenzene	63	< 63 U
91-20-3	Naphthalene	63	< 63 U
106-47-8	4-Chloroaniline	310	< 310 U
87-68-3	Hexachlorobutadiene	63	< 63 U
59-50-7	4-Chloro-3-methylphenol	310	< 310 U
91-57-6	2-Methylnaphthalene	63	< 63 U
77-47-4	Hexachlorocyclopentadiene	310	< 310 U
88-06-2	2,4,6-Trichlorophenol	310	< 310 U
95-95-4	2,4,5-Trichlorophenol	310	< 310 U
91-58-7	2-Chloronaphthalene	63	< 63 U
88-74-4	2-Nitroaniline	310	< 310 U
131-11-3	Dimethylphthalate	63	< 63 U
208-96-8	Acenaphthylene	63	< 63 U
99-09-2	3-Nitroaniline	310	< 310 U
83-32-9	Acenaphthene	63	< 63 U
51-28-5	2,4-Dinitrophenol	630	< 630 U
100-02-7	4-Nitrophenol	310	< 310 U
132-64-9	Dibenzofuran	63	< 63 U
606-20-2	2,6-Dinitrotoluene	310	< 310 U
121-14-2	2,4-Dinitrotoluene	310	< 310 U
84-66-2	Diethylphthalate	63	< 63 U
7005-72-3	4-Chlorophenyl-phenylether	63	< 63 U
86-73-7	Fluorene	63	< 63 U
100-01-6	4-Nitroaniline	310	< 310 U
534-52-1	4,6-Dinitro-2-Methylphenol	630	< 630 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS

Sample ID: JF-PLSD-PS-15A
SAMPLE

Lab Sample ID: SG07A
LIMS ID: 11-1522
Matrix: Soil
Date Analyzed: 02/07/11 12:58

QC Report No: SG07-The Boeing Company
Project: Jorgensen Forge
7KPL2JOR

CAS Number	Analyte	RL	Result
86-30-6	N-Nitrosodiphenylamine	63	< 63 U
101-55-3	4-Bromophenyl-phenylether	63	< 63 U
118-74-1	Hexachlorobenzene	63	< 63 U
87-86-5	Pentachlorophenol	310	< 310 U
85-01-8	Phenanthrene	63	< 63 U
86-74-8	Carbazole	63	< 63 U
120-12-7	Anthracene	63	< 63 U
84-74-2	**Di-n-Butylphthalate**	**63**	**4,900**
206-44-0	Fluoranthene	63	< 63 U
129-00-0	Pyrene	63	< 63 U
85-68-7	**Butylbenzylphthalate**	**63**	**7,200 ES**
91-94-1	3,3'-Dichlorobenzidine	310	< 310 U
56-55-3	Benzo(a)anthracene	63	< 63 U
117-81-7	**bis(2-Ethylhexyl)phthalate**	**63**	**12,000 ESB**
218-01-9	Chrysene	63	< 63 U
117-84-0	Di-n-Octyl phthalate	63	< 63 U
50-32-8	Benzo(a)pyrene	63	< 63 U
193-39-5	Indeno(1,2,3-cd)pyrene	63	< 63 U
53-70-3	Dibenz(a,h)anthracene	63	< 63 U
191-24-2	Benzo(g,h,i)perylene	63	< 63 U
90-12-0	1-Methylnaphthalene	63	< 63 U
TOTBFA	Total Benzofluoranthenes	63	< 63 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	66.8%	2-Fluorobiphenyl	70.4%
d14-p-Terphenyl	76.4%	d4-1,2-Dichlorobenzene	62.8%
d5-Phenol	52.8%	2-Fluorophenol	36.3%
2,4,6-Tribromophenol	41.1%	d4-2-Chlorophenol	53.9%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS

Sample ID: JF-PLSD-PS-15A
DILUTION

Lab Sample ID: SG07A
LIMS ID: 11-1522
Matrix: Soil
Data Release Authorized:
Reported: 02/09/11

QC Report No: SG07-The Boeing Company
Project: Jorgensen Forge
7KPL2JOR
Date Sampled: 01/24/11
Date Received: 01/24/11

Date Extracted: 02/02/11
Date Analyzed: 02/08/11 12:48
Instrument/Analyst: NT4/JZ
GPC Cleanup: Yes

Sample Amount: 7.97 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 10.0
Percent Moisture: 11.9%

CAS Number	Analyte	RL	Result
108-95-2	Phenol	630	< 630 U
111-44-4	Bis-(2-Chloroethyl) Ether	630	< 630 U
95-57-8	2-Chlorophenol	630	< 630 U
541-73-1	1,3-Dichlorobenzene	630	< 630 U
106-46-7	1,4-Dichlorobenzene	630	< 630 U
100-51-6	Benzyl Alcohol	3,100	< 3,100 U
95-50-1	1,2-Dichlorobenzene	630	< 630 U
95-48-7	2-Methylphenol	630	< 630 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	630	< 630 U
106-44-5	4-Methylphenol	630	< 630 U
621-64-7	N-Nitroso-Di-N-Propylamine	630	< 630 U
67-72-1	Hexachloroethane	630	< 630 U
98-95-3	Nitrobenzene	630	< 630 U
78-59-1	Isophorone	630	< 630 U
88-75-5	2-Nitrophenol	630	< 630 U
105-67-9	2,4-Dimethylphenol	630	< 630 U
65-85-0	Benzoic Acid	6,300	< 6,300 U
111-91-1	bis(2-Chloroethoxy) Methane	630	< 630 U
120-83-2	2,4-Dichlorophenol	3,100	< 3,100 U
120-82-1	1,2,4-Trichlorobenzene	630	< 630 U
91-20-3	Naphthalene	630	< 630 U
106-47-8	4-Chloroaniline	3,100	< 3,100 U
87-68-3	Hexachlorobutadiene	630	< 630 U
59-50-7	4-Chloro-3-methylphenol	3,100	< 3,100 U
91-57-6	2-Methylnaphthalene	630	< 630 U
77-47-4	Hexachlorocyclopentadiene	3,100	< 3,100 U
88-06-2	2,4,6-Trichlorophenol	3,100	< 3,100 U
95-95-4	2,4,5-Trichlorophenol	3,100	< 3,100 U
91-58-7	2-Chloronaphthalene	630	< 630 U
88-74-4	2-Nitroaniline	3,100	< 3,100 U
131-11-3	Dimethylphthalate	630	< 630 U
208-96-8	Acenaphthylene	630	< 630 U
99-09-2	3-Nitroaniline	3,100	< 3,100 U
83-32-9	Acenaphthene	630	< 630 U
51-28-5	2,4-Dinitrophenol	6,300	< 6,300 U
100-02-7	4-Nitrophenol	3,100	< 3,100 U
132-64-9	Dibenzofuran	630	< 630 U
606-20-2	2,6-Dinitrotoluene	3,100	< 3,100 U
121-14-2	2,4-Dinitrotoluene	3,100	< 3,100 U
84-66-2	Diethylphthalate	630	< 630 U
7005-72-3	4-Chlorophenyl-phenylether	630	< 630 U
86-73-7	Fluorene	630	< 630 U
100-01-6	4-Nitroaniline	3,100	< 3,100 U
534-52-1	4,6-Dinitro-2-Methylphenol	6,300	< 6,300 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS

Sample ID: JF-PLSD-PS-15A
DILUTION

Lab Sample ID: SG07A
LIMS ID: 11-1522
Matrix: Soil
Date Analyzed: 02/08/11 12:48

QC Report No: SG07-The Boeing Company
Project: Jorgensen Forge
7KPL2JOR

CAS Number	Analyte	RL	Result
86-30-6	N-Nitrosodiphenylamine	630	< 630 U
101-55-3	4-Bromophenyl-phenylether	630	< 630 U
118-74-1	Hexachlorobenzene	630	< 630 U
87-86-5	Pentachlorophenol	3,100	< 3,100 U
85-01-8	Phenanthrene	630	< 630 U
86-74-8	Carbazole	630	< 630 U
120-12-7	Anthracene	630	< 630 U
84-74-2	**Di-n-Butylphthalate**	**630**	**9,200**
206-44-0	Fluoranthene	630	< 630 U
129-00-0	Pyrene	630	< 630 U
85-68-7	**Butylbenzylphthalate**	**630**	**10,000**
91-94-1	3,3'-Dichlorobenzidine	3,100	< 3,100 U
56-55-3	Benzo(a)anthracene	630	< 630 U
117-81-7	**bis(2-Ethylhexyl)phthalate**	**630**	**34,000 B**
218-01-9	Chrysene	630	< 630 U
117-84-0	Di-n-Octyl phthalate	630	< 630 U
50-32-8	Benzo(a)pyrene	630	< 630 U
193-39-5	Indeno(1,2,3-cd)pyrene	630	< 630 U
53-70-3	Dibenz(a,h)anthracene	630	< 630 U
191-24-2	Benzo(g,h,i)perylene	630	< 630 U
90-12-0	1-Methylnaphthalene	630	< 630 U
TOTBFA	Total Benzofluoranthenes	630	< 630 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	68.0%	2-Fluorobiphenyl	69.2%
d14-p-Terphenyl	90.4%	d4-1,2-Dichlorobenzene	65.2%
d5-Phenol	55.2%	2-Fluorophenol	38.4%
2,4,6-Tribromophenol	46.4%	d4-2-Chlorophenol	55.5%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS

Sample ID: JF-PLSD-PS-15B
SAMPLE

Lab Sample ID: SG07B
LIMS ID: 11-1523
Matrix: Soil
Data Release Authorized:
Reported: 02/09/11

QC Report No: SG07-The Boeing Company
Project: Jorgensen Forge
7KPL2JOR
Date Sampled: 01/24/11
Date Received: 01/24/11

Date Extracted: 02/02/11
Date Analyzed: 02/07/11 19:34
Instrument/Analyst: NT4/JZ
GPC Cleanup: Yes

Sample Amount: 8.42 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 3.00
Percent Moisture: 27.6%

CAS Number	Analyte	RL	Result
108-95-2	Phenol	180	< 180 U
111-44-4	Bis-(2-Chloroethyl) Ether	180	< 180 U
95-57-8	2-Chlorophenol	180	< 180 U
541-73-1	1,3-Dichlorobenzene	180	< 180 U
106-46-7	1,4-Dichlorobenzene	180	< 180 U
100-51-6	Benzyl Alcohol	890	< 890 U
95-50-1	1,2-Dichlorobenzene	180	< 180 U
95-48-7	2-Methylphenol	180	< 180 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	180	< 180 U
106-44-5	4-Methylphenol	180	< 180 U
621-64-7	N-Nitroso-Di-N-Propylamine	180	< 180 U
67-72-1	Hexachloroethane	180	< 180 U
98-95-3	Nitrobenzene	180	< 180 U
78-59-1	Isophorone	180	< 180 U
88-75-5	2-Nitrophenol	180	< 180 U
105-67-9	2,4-Dimethylphenol	180	< 180 U
65-85-0	Benzoic Acid	1,800	< 1,800 U
111-91-1	bis(2-Chloroethoxy) Methane	180	< 180 U
120-83-2	2,4-Dichlorophenol	890	< 890 U
120-82-1	1,2,4-Trichlorobenzene	180	< 180 U
91-20-3	Naphthalene	180	< 180 U
106-47-8	4-Chloroaniline	890	< 890 U
87-68-3	Hexachlorobutadiene	180	< 180 U
59-50-7	4-Chloro-3-methylphenol	890	< 890 U
91-57-6	2-Methylnaphthalene	180	< 180 U
77-47-4	Hexachlorocyclopentadiene	890	< 890 U
88-06-2	2,4,6-Trichlorophenol	890	< 890 U
95-95-4	2,4,5-Trichlorophenol	890	< 890 U
91-58-7	2-Chloronaphthalene	180	< 180 U
88-74-4	2-Nitroaniline	890	< 890 U
131-11-3	**Dimethylphthalate**	**180**	**430**
208-96-8	**Acenaphthylene**	**180**	**460**
99-09-2	3-Nitroaniline	890	< 890 U
83-32-9	Acenaphthene	180	< 180 U
51-28-5	2,4-Dinitrophenol	1,800	< 1,800 U
100-02-7	4-Nitrophenol	890	< 890 U
132-64-9	Dibenzofuran	180	< 180 U
606-20-2	2,6-Dinitrotoluene	890	< 890 U
121-14-2	2,4-Dinitrotoluene	890	< 890 U
84-66-2	Diethylphthalate	180	< 180 U
7005-72-3	4-Chlorophenyl-phenylether	180	< 180 U
86-73-7	Fluorene	180	< 180 U
100-01-6	4-Nitroaniline	890	< 890 U
534-52-1	4,6-Dinitro-2-Methylphenol	1,800	< 1,800 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS

Sample ID: JF-PLSD-PS-15B
SAMPLE

Lab Sample ID: SG07B
LIMS ID: 11-1523
Matrix: Soil
Date Analyzed: 02/07/11 19:34

QC Report No: SG07-The Boeing Company
Project: Jorgensen Forge
7KPL2JOR

CAS Number	Analyte	RL	Result
86-30-6	N-Nitrosodiphenylamine	180	< 180 U
101-55-3	4-Bromophenyl-phenylether	180	< 180 U
118-74-1	Hexachlorobenzene	180	< 180 U
87-86-5	Pentachlorophenol	890	< 890 U
85-01-8	**Phenanthrene**	**180**	**450**
86-74-8	Carbazole	180	< 180 U
120-12-7	**Anthracene**	**180**	**200**
84-74-2	**Di-n-Butylphthalate**	**180**	**620**
206-44-0	**Fluoranthene**	**180**	**3,000**
129-00-0	**Pyrene**	**180**	**2,500**
85-68-7	Butylbenzylphthalate	180	< 180 U
91-94-1	3,3'-Dichlorobenzidine	890	< 890 U
56-55-3	**Benzo(a)anthracene**	**180**	**1,900**
117-81-7	**bis(2-Ethylhexyl)phthalate**	**180**	**830 B**
218-01-9	**Chrysene**	**180**	**2,000**
117-84-0	Di-n-Octyl phthalate	180	< 180 U
50-32-8	**Benzo(a)pyrene**	**180**	**1,900**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**180**	**810**
53-70-3	Dibenz(a,h)anthracene	180	< 180 U
191-24-2	**Benzo(g,h,i)perylene**	**180**	**740 Q**
90-12-0	1-Methylnaphthalene	180	< 180 U
TOTBFA	**Total Benzofluoranthenes**	**180**	**4,600**

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	59.9%	2-Fluorobiphenyl	66.0%
d14-p-Terphenyl	69.2%	d4-1,2-Dichlorobenzene	58.4%
d5-Phenol	33.4%	2-Fluorophenol	9.1%
2,4,6-Tribromophenol	7.4%	d4-2-Chlorophenol	30.2%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS

Sample ID: JF-PLSD-PS-15B
REEXTRACT

Lab Sample ID: SG07B
LIMS ID: 11-1523
Matrix: Soil
Data Release Authorized:
Reported: 02/10/11

QC Report No: SG07-The Boeing Company
Project: Jorgensen Forge
7KPL2JOR
Date Sampled: 01/24/11
Date Received: 01/24/11

Date Extracted: 02/08/11
Date Analyzed: 02/10/11 14:26
Instrument/Analyst: NT4/JZ
GPC Cleanup: Yes

Sample Amount: 7.99 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 27.6%

CAS Number	Analyte	RL	Result
108-95-2	**Phenol**	**63**	**76**
111-44-4	Bis-(2-Chloroethyl) Ether	63	< 63 U
95-57-8	2-Chlorophenol	63	< 63 U
541-73-1	1,3-Dichlorobenzene	63	< 63 U
106-46-7	1,4-Dichlorobenzene	63	< 63 U
100-51-6	Benzyl Alcohol	310	< 310 U
95-50-1	1,2-Dichlorobenzene	63	< 63 U
95-48-7	2-Methylphenol	63	< 63 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	63	< 63 U
106-44-5	4-Methylphenol	63	< 63 U
621-64-7	N-Nitroso-Di-N-Propylamine	63	< 63 U
67-72-1	Hexachloroethane	63	< 63 U
98-95-3	Nitrobenzene	63	< 63 U
78-59-1	Isophorone	63	< 63 U
88-75-5	2-Nitrophenol	63	< 63 U
105-67-9	2,4-Dimethylphenol	63	< 63 U
65-85-0	Benzoic Acid	630	< 630 U
111-91-1	bis(2-Chloroethoxy) Methane	63	< 63 U
120-83-2	2,4-Dichlorophenol	310	< 310 U
120-82-1	1,2,4-Trichlorobenzene	63	< 63 U
91-20-3	Naphthalene	63	< 63 U
106-47-8	4-Chloroaniline	310	< 310 U
87-68-3	Hexachlorobutadiene	63	< 63 U
59-50-7	4-Chloro-3-methylphenol	310	< 310 U
91-57-6	2-Methylnaphthalene	63	< 63 U
77-47-4	Hexachlorocyclopentadiene	310	< 310 U
88-06-2	2,4,6-Trichlorophenol	310	< 310 U
95-95-4	2,4,5-Trichlorophenol	310	< 310 U
91-58-7	2-Chloronaphthalene	63	< 63 U
88-74-4	2-Nitroaniline	310	< 310 U
131-11-3	Dimethylphthalate	63	< 63 U
208-96-8	Acenaphthylene	63	< 63 U
99-09-2	3-Nitroaniline	310	< 310 U
83-32-9	Acenaphthene	63	< 63 U
51-28-5	2,4-Dinitrophenol	630	< 630 U
100-02-7	4-Nitrophenol	310	< 310 U
132-64-9	Dibenzofuran	63	< 63 U
606-20-2	2,6-Dinitrotoluene	310	< 310 U
121-14-2	2,4-Dinitrotoluene	310	< 310 U
84-66-2	Diethylphthalate	63	< 63 U
7005-72-3	4-Chlorophenyl-phenylether	63	< 63 U
86-73-7	Fluorene	63	< 63 U
100-01-6	4-Nitroaniline	310	< 310 U
534-52-1	4,6-Dinitro-2-Methylphenol	630	< 630 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS

Sample ID: JF-PLSD-PS-15B
REEXTRACT

Lab Sample ID: SG07B
LIMS ID: 11-1523
Matrix: Soil
Date Analyzed: 02/10/11 14:26

QC Report No: SG07-The Boeing Company
Project: Jorgensen Forge
7KPL2JOR

CAS Number	Analyte	RL	Result
86-30-6	N-Nitrosodiphenylamine	63	< 63 U
101-55-3	4-Bromophenyl-phenylether	63	< 63 U
118-74-1	Hexachlorobenzene	63	< 63 U
87-86-5	Pentachlorophenol	310	< 310 U
85-01-8	**Phenanthrene**	**63**	**140**
86-74-8	Carbazole	63	< 63 U
120-12-7	Anthracene	63	< 63 U
84-74-2	**Di-n-Butylphthalate**	**63**	**1,100**
206-44-0	**Fluoranthene**	**63**	**120**
129-00-0	**Pyrene**	**63**	**130**
85-68-7	Butylbenzylphthalate	63	< 63 U
91-94-1	3,3'-Dichlorobenzidine	310	< 310 U
56-55-3	Benzo(a)anthracene	63	< 63 U
117-81-7	**bis(2-Ethylhexyl)phthalate**	**63**	**850**
218-01-9	**Chrysene**	**63**	**93**
117-84-0	Di-n-Octyl phthalate	63	< 63 U
50-32-8	Benzo(a)pyrene	63	< 63 U
193-39-5	**Indeno(1,2,3-cd)pyrene**	**63**	**70**
53-70-3	Dibenz(a,h)anthracene	63	< 63 U
191-24-2	**Benzo(g,h,i)perylene**	**63**	**100**
90-12-0	1-Methylnaphthalene	63	< 63 U
TOTBFA	**Total Benzofluoranthenes**	**63**	**150**

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	60.4%	2-Fluorobiphenyl	64.8%
d14-p-Terphenyl	69.2%	d4-1,2-Dichlorobenzene	60.4%
d5-Phenol	62.9%	2-Fluorophenol	52.0%
2,4,6-Tribromophenol	56.8%	d4-2-Chlorophenol	60.0%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS

Sample ID: JF-PLSD-PS-24A
SAMPLE

Lab Sample ID: SG07C
LIMS ID: 11-1524
Matrix: Soil
Data Release Authorized:
Reported: 02/09/11

QC Report No: SG07-The Boeing Company
Project: Jorgensen Forge
7KPL2JOR
Date Sampled: 01/24/11
Date Received: 01/24/11

Date Extracted: 02/02/11
Date Analyzed: 02/07/11 14:04
Instrument/Analyst: NT4/JZ
GPC Cleanup: Yes

Sample Amount: 8.22 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 16.5%

CAS Number	Analyte	RL	Result
108-95-2	Phenol	61	< 61 U
111-44-4	Bis-(2-Chloroethyl) Ether	61	< 61 U
95-57-8	2-Chlorophenol	61	< 61 U
541-73-1	1,3-Dichlorobenzene	61	< 61 U
106-46-7	1,4-Dichlorobenzene	61	< 61 U
100-51-6	Benzyl Alcohol	300	< 300 U
95-50-1	1,2-Dichlorobenzene	61	< 61 U
95-48-7	2-Methylphenol	61	< 61 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	61	< 61 U
106-44-5	4-Methylphenol	61	< 61 U
621-64-7	N-Nitroso-Di-N-Propylamine	61	< 61 U
67-72-1	Hexachloroethane	61	< 61 U
98-95-3	Nitrobenzene	61	< 61 U
78-59-1	Isophorone	61	< 61 U
88-75-5	2-Nitrophenol	61	< 61 U
105-67-9	2,4-Dimethylphenol	61	< 61 U
65-85-0	Benzoic Acid	610	< 610 U
111-91-1	bis(2-Chloroethoxy) Methane	61	< 61 U
120-83-2	2,4-Dichlorophenol	300	< 300 U
120-82-1	1,2,4-Trichlorobenzene	61	< 61 U
91-20-3	Naphthalene	61	< 61 U
106-47-8	4-Chloroaniline	300	< 300 U
87-68-3	Hexachlorobutadiene	61	< 61 U
59-50-7	4-Chloro-3-methylphenol	300	< 300 U
91-57-6	2-Methylnaphthalene	61	< 61 U
77-47-4	Hexachlorocyclopentadiene	300	< 300 U
88-06-2	2,4,6-Trichlorophenol	300	< 300 U
95-95-4	2,4,5-Trichlorophenol	300	< 300 U
91-58-7	2-Chloronaphthalene	61	< 61 U
88-74-4	2-Nitroaniline	300	< 300 U
131-11-3	Dimethylphthalate	61	< 61 U
208-96-8	Acenaphthylene	61	< 61 U
99-09-2	3-Nitroaniline	300	< 300 U
83-32-9	Acenaphthene	61	< 61 U
51-28-5	2,4-Dinitrophenol	610	< 610 U
100-02-7	4-Nitrophenol	300	< 300 U
132-64-9	Dibenzofuran	61	< 61 U
606-20-2	2,6-Dinitrotoluene	300	< 300 U
121-14-2	2,4-Dinitrotoluene	300	< 300 U
84-66-2	Diethylphthalate	61	< 61 U
7005-72-3	4-Chlorophenyl-phenylether	61	< 61 U
86-73-7	Fluorene	61	< 61 U
100-01-6	4-Nitroaniline	300	< 300 U
534-52-1	4,6-Dinitro-2-Methylphenol	610	< 610 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS

Sample ID: JF-PLSD-PS-24A
SAMPLE

Lab Sample ID: SG07C
LIMS ID: 11-1524
Matrix: Soil
Date Analyzed: 02/07/11 14:04

QC Report No: SG07-The Boeing Company
Project: Jorgensen Forge
7KPL2JOR

CAS Number	Analyte	RL	Result
86-30-6	N-Nitrosodiphenylamine	61	< 61 U
101-55-3	4-Bromophenyl-phenylether	61	< 61 U
118-74-1	Hexachlorobenzene	61	< 61 U
87-86-5	Pentachlorophenol	300	< 300 U
85-01-8	Phenanthrene	61	< 61 U
86-74-8	Carbazole	61	< 61 U
120-12-7	Anthracene	61	< 61 U
84-74-2	Di-n-Butylphthalate	61	< 61 U
206-44-0	Fluoranthene	61	< 61 U
129-00-0	Pyrene	61	< 61 U
85-68-7	Butylbenzylphthalate	61	< 61 U
91-94-1	3,3'-Dichlorobenzidine	300	< 300 U
56-55-3	Benzo(a)anthracene	61	< 61 U
117-81-7	**bis(2-Ethylhexyl)phthalate**	**61**	**80 B**
218-01-9	Chrysene	61	< 61 U
117-84-0	Di-n-Octyl phthalate	61	< 61 U
50-32-8	Benzo(a)pyrene	61	< 61 U
193-39-5	Indeno(1,2,3-cd)pyrene	61	< 61 U
53-70-3	Dibenz(a,h)anthracene	61	< 61 U
191-24-2	Benzo(g,h,i)perylene	61	< 61 U
90-12-0	1-Methylnaphthalene	61	< 61 U
TOTBFA	Total Benzofluoranthenes	61	< 61 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	70.0%	2-Fluorobiphenyl	70.0%
d14-p-Terphenyl	77.6%	d4-1,2-Dichlorobenzene	65.6%
d5-Phenol	46.7%	2-Fluorophenol	22.9%
2,4,6-Tribromophenol	21.4%	d4-2-Chlorophenol	45.6%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS

Sample ID: JF-PLSD-PS-24B
SAMPLE

Lab Sample ID: SG07D
LIMS ID: 11-1525
Matrix: Soil
Data Release Authorized:
Reported: 02/09/11

QC Report No: SG07-The Boeing Company
Project: Jorgensen Forge
7KPL2JOR
Date Sampled: 01/24/11
Date Received: 01/24/11

Date Extracted: 02/02/11
Date Analyzed: 02/07/11 14:37
Instrument/Analyst: NT4/JZ
GPC Cleanup: Yes

Sample Amount: 7.87 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 29.0%

CAS Number	Analyte	RL	Result
108-95-2	Phenol	64	< 64 U
111-44-4	Bis-(2-Chloroethyl) Ether	64	< 64 U
95-57-8	2-Chlorophenol	64	< 64 U
541-73-1	1,3-Dichlorobenzene	64	< 64 U
106-46-7	1,4-Dichlorobenzene	64	< 64 U
100-51-6	Benzyl Alcohol	320	< 320 U
95-50-1	1,2-Dichlorobenzene	64	< 64 U
95-48-7	2-Methylphenol	64	< 64 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	64	< 64 U
106-44-5	4-Methylphenol	64	< 64 U
621-64-7	N-Nitroso-Di-N-Propylamine	64	< 64 U
67-72-1	Hexachloroethane	64	< 64 U
98-95-3	Nitrobenzene	64	< 64 U
78-59-1	Isophorone	64	< 64 U
88-75-5	2-Nitrophenol	64	< 64 U
105-67-9	2,4-Dimethylphenol	64	< 64 U
65-85-0	Benzoic Acid	640	< 640 U
111-91-1	bis(2-Chloroethoxy) Methane	64	< 64 U
120-83-2	2,4-Dichlorophenol	320	< 320 U
120-82-1	1,2,4-Trichlorobenzene	64	< 64 U
91-20-3	Naphthalene	64	< 64 U
106-47-8	4-Chloroaniline	320	< 320 U
87-68-3	Hexachlorobutadiene	64	< 64 U
59-50-7	4-Chloro-3-methylphenol	320	< 320 U
91-57-6	2-Methylnaphthalene	64	< 64 U
77-47-4	Hexachlorocyclopentadiene	320	< 320 U
88-06-2	2,4,6-Trichlorophenol	320	< 320 U
95-95-4	2,4,5-Trichlorophenol	320	< 320 U
91-58-7	2-Chloronaphthalene	64	< 64 U
88-74-4	2-Nitroaniline	320	< 320 U
131-11-3	**Dimethylphthalate**	**64**	**230**
208-96-8	Acenaphthylene	64	< 64 U
99-09-2	3-Nitroaniline	320	< 320 U
83-32-9	Acenaphthene	64	< 64 U
51-28-5	2,4-Dinitrophenol	640	< 640 U
100-02-7	4-Nitrophenol	320	< 320 U
132-64-9	Dibenzofuran	64	< 64 U
606-20-2	2,6-Dinitrotoluene	320	< 320 U
121-14-2	2,4-Dinitrotoluene	320	< 320 U
84-66-2	Diethylphthalate	64	< 64 U
7005-72-3	4-Chlorophenyl-phenylether	64	< 64 U
86-73-7	Fluorene	64	< 64 U
100-01-6	4-Nitroaniline	320	< 320 U
534-52-1	4,6-Dinitro-2-Methylphenol	640	< 640 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS

Sample ID: JF-PLSD-PS-24B
SAMPLE

Lab Sample ID: SG07D
LIMS ID: 11-1525
Matrix: Soil
Date Analyzed: 02/07/11 14:37

QC Report No: SG07-The Boeing Company
Project: Jorgensen Forge
7KPL2JOR

CAS Number	Analyte	RL	Result
86-30-6	N-Nitrosodiphenylamine	64	< 64 U
101-55-3	4-Bromophenyl-phenylether	64	< 64 U
118-74-1	Hexachlorobenzene	64	< 64 U
87-86-5	Pentachlorophenol	320	< 320 U
85-01-8	**Phenanthrene**	**64**	**450**
86-74-8	Carbazole	64	< 64 U
120-12-7	**Anthracene**	**64**	**79**
84-74-2	Di-n-Butylphthalate	64	< 64 U
206-44-0	**Fluoranthene**	**64**	**830**
129-00-0	**Pyrene**	**64**	**730**
85-68-7	Butylbenzylphthalate	64	< 64 U
91-94-1	3,3'-Dichlorobenzidine	320	< 320 U
56-55-3	**Benzo(a)anthracene**	**64**	**340**
117-81-7	**bis(2-Ethylhexyl)phthalate**	**64**	**280 B**
218-01-9	**Chrysene**	**64**	**420**
117-84-0	Di-n-Octyl phthalate	64	< 64 U
50-32-8	**Benzo(a)pyrene**	**64**	**380**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**64**	**230**
53-70-3	Dibenz(a,h)anthracene	64	< 64 U
191-24-2	**Benzo(g,h,i)perylene**	**64**	**220 Q**
90-12-0	1-Methylnaphthalene	64	< 64 U
TOTBFA	**Total Benzofluoranthenes**	**64**	**810**

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	63.2%	2-Fluorobiphenyl	66.8%
d14-p-Terphenyl	71.6%	d4-1,2-Dichlorobenzene	55.6%
d5-Phenol	32.5%	2-Fluorophenol	10.6%
2,4,6-Tribromophenol	12.1%	d4-2-Chlorophenol	31.7%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS

Sample ID: JF-PLSD-PS-24B
DILUTION

Lab Sample ID: SG07D
LIMS ID: 11-1525
Matrix: Soil
Data Release Authorized:
Reported: 02/09/11

QC Report No: SG07-The Boeing Company
Project: Jorgensen Forge
7KPL2JOR
Date Sampled: 01/24/11
Date Received: 01/24/11

Date Extracted: 02/02/11
Date Analyzed: 02/07/11 20:07
Instrument/Analyst: NT4/JZ
GPC Cleanup: Yes

Sample Amount: 7.87 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 3.00
Percent Moisture: 29.0%

CAS Number	Analyte	RL	Result
108-95-2	Phenol	190	< 190 U
111-44-4	Bis-(2-Chloroethyl) Ether	190	< 190 U
95-57-8	2-Chlorophenol	190	< 190 U
541-73-1	1,3-Dichlorobenzene	190	< 190 U
106-46-7	1,4-Dichlorobenzene	190	< 190 U
100-51-6	Benzyl Alcohol	950	< 950 U
95-50-1	1,2-Dichlorobenzene	190	< 190 U
95-48-7	2-Methylphenol	190	< 190 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	190	< 190 U
106-44-5	4-Methylphenol	190	< 190 U
621-64-7	N-Nitroso-Di-N-Propylamine	190	< 190 U
67-72-1	Hexachloroethane	190	< 190 U
98-95-3	Nitrobenzene	190	< 190 U
78-59-1	Isophorone	190	< 190 U
88-75-5	2-Nitrophenol	190	< 190 U
105-67-9	2,4-Dimethylphenol	190	< 190 U
65-85-0	Benzoic Acid	1,900	< 1,900 U
111-91-1	bis(2-Chloroethoxy) Methane	190	< 190 U
120-83-2	2,4-Dichlorophenol	950	< 950 U
120-82-1	1,2,4-Trichlorobenzene	190	< 190 U
91-20-3	Naphthalene	190	< 190 U
106-47-8	4-Chloroaniline	950	< 950 U
87-68-3	Hexachlorobutadiene	190	< 190 U
59-50-7	4-Chloro-3-methylphenol	950	< 950 U
91-57-6	2-Methylnaphthalene	190	< 190 U
77-47-4	Hexachlorocyclopentadiene	950	< 950 U
88-06-2	2,4,6-Trichlorophenol	950	< 950 U
95-95-4	2,4,5-Trichlorophenol	950	< 950 U
91-58-7	2-Chloronaphthalene	190	< 190 U
88-74-4	2-Nitroaniline	950	< 950 U
131-11-3	**Dimethylphthalate**	**190**	**230**
208-96-8	Acenaphthylene	190	< 190 U
99-09-2	3-Nitroaniline	950	< 950 U
83-32-9	Acenaphthene	190	< 190 U
51-28-5	2,4-Dinitrophenol	1,900	< 1,900 U
100-02-7	4-Nitrophenol	950	< 950 U
132-64-9	Dibenzofuran	190	< 190 U
606-20-2	2,6-Dinitrotoluene	950	< 950 U
121-14-2	2,4-Dinitrotoluene	950	< 950 U
84-66-2	Diethylphthalate	190	< 190 U
7005-72-3	4-Chlorophenyl-phenylether	190	< 190 U
86-73-7	Fluorene	190	< 190 U
100-01-6	4-Nitroaniline	950	< 950 U
534-52-1	4,6-Dinitro-2-Methylphenol	1,900	< 1,900 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS

Sample ID: JF-PLSD-PS-24B
DILUTION

Lab Sample ID: SG07D
LIMS ID: 11-1525
Matrix: Soil
Date Analyzed: 02/07/11 20:07

QC Report No: SG07-The Boeing Company
Project: Jorgensen Forge
7KPL2JOR

CAS Number	Analyte	RL	Result
86-30-6	N-Nitrosodiphenylamine	190	< 190 U
101-55-3	4-Bromophenyl-phenylether	190	< 190 U
118-74-1	Hexachlorobenzene	190	< 190 U
87-86-5	Pentachlorophenol	950	< 950 U
85-01-8	**Phenanthrene**	**190**	**500**
86-74-8	Carbazole	190	< 190 U
120-12-7	Anthracene	190	< 190 U
84-74-2	Di-n-Butylphthalate	190	< 190 U
206-44-0	**Fluoranthene**	**190**	**880**
129-00-0	**Pyrene**	**190**	**770**
85-68-7	Butylbenzylphthalate	190	< 190 U
91-94-1	3,3'-Dichlorobenzidine	950	< 950 U
56-55-3	**Benzo(a)anthracene**	**190**	**410**
117-81-7	**bis(2-Ethylhexyl)phthalate**	**190**	**290 B**
218-01-9	**Chrysene**	**190**	**460**
117-84-0	Di-n-Octyl phthalate	190	< 190 U
50-32-8	**Benzo(a)pyrene**	**190**	**410**
193-39-5	Indeno(1,2,3-cd)pyrene	190	< 190 U
53-70-3	Dibenz(a,h)anthracene	190	< 190 U
191-24-2	Benzo(g,h,i)perylene	190	< 190 U
90-12-0	1-Methylnaphthalene	190	< 190 U
TOTBFA	**Total Benzofluoranthenes**	**190**	**840**

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	59.8%	2-Fluorobiphenyl	70.1%
d14-p-Terphenyl	72.7%	d4-1,2-Dichlorobenzene	62.2%
d5-Phenol	47.8%	2-Fluorophenol	22.4%
2,4,6-Tribromophenol	16.6%	d4-2-Chlorophenol	44.2%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS

Sample ID: JF-PLSD-PS-37-7
SAMPLE

Lab Sample ID: SG07E
LIMS ID: 11-1526
Matrix: Soil
Data Release Authorized:
Reported: 02/09/11

QC Report No: SG07-The Boeing Company
Project: Jorgensen Forge
7KPL2JOR
Date Sampled: 01/24/11
Date Received: 01/24/11

Date Extracted: 02/02/11
Date Analyzed: 02/07/11 15:10
Instrument/Analyst: NT4/JZ
GPC Cleanup: Yes

Sample Amount: 8.11 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 51.2%

CAS Number	Analyte	RL	Result
108-95-2	**Phenol**	**62**	**72**
111-44-4	Bis-(2-Chloroethyl) Ether	62	< 62 U
95-57-8	2-Chlorophenol	62	< 62 U
541-73-1	1,3-Dichlorobenzene	62	< 62 U
106-46-7	1,4-Dichlorobenzene	62	< 62 U
100-51-6	Benzyl Alcohol	310	< 310 U
95-50-1	1,2-Dichlorobenzene	62	< 62 U
95-48-7	2-Methylphenol	62	< 62 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	62	< 62 U
106-44-5	4-Methylphenol	62	< 62 U
621-64-7	N-Nitroso-Di-N-Propylamine	62	< 62 U
67-72-1	Hexachloroethane	62	< 62 U
98-95-3	Nitrobenzene	62	< 62 U
78-59-1	Isophorone	62	< 62 U
88-75-5	2-Nitrophenol	62	< 62 U
105-67-9	2,4-Dimethylphenol	62	< 62 U
65-85-0	Benzoic Acid	620	< 620 U
111-91-1	bis(2-Chloroethoxy) Methane	62	< 62 U
120-83-2	2,4-Dichlorophenol	310	< 310 U
120-82-1	1,2,4-Trichlorobenzene	62	< 62 U
91-20-3	**Naphthalene**	**62**	**92**
106-47-8	4-Chloroaniline	310	< 310 U
87-68-3	Hexachlorobutadiene	62	< 62 U
59-50-7	4-Chloro-3-methylphenol	310	< 310 U
91-57-6	2-Methylnaphthalene	62	< 62 U
77-47-4	Hexachlorocyclopentadiene	310	< 310 U
88-06-2	2,4,6-Trichlorophenol	310	< 310 U
95-95-4	2,4,5-Trichlorophenol	310	< 310 U
91-58-7	2-Chloronaphthalene	62	< 62 U
88-74-4	2-Nitroaniline	310	< 310 U
131-11-3	Dimethylphthalate	62	< 62 U
208-96-8	Acenaphthylene	62	< 62 U
99-09-2	3-Nitroaniline	310	< 310 U
83-32-9	**Acenaphthene**	**62**	**110**
51-28-5	2,4-Dinitrophenol	620	< 620 U
100-02-7	4-Nitrophenol	310	< 310 U
132-64-9	**Dibenzofuran**	**62**	**100**
606-20-2	2,6-Dinitrotoluene	310	< 310 U
121-14-2	2,4-Dinitrotoluene	310	< 310 U
84-66-2	Diethylphthalate	62	< 62 U
7005-72-3	4-Chlorophenyl-phenylether	62	< 62 U
86-73-7	**Fluorene**	**62**	**210**
100-01-6	4-Nitroaniline	310	< 310 U
534-52-1	4,6-Dinitro-2-Methylphenol	620	< 620 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS

Sample ID: JF-PLSD-PS-37-7
SAMPLE

Lab Sample ID: SG07E
LIMS ID: 11-1526
Matrix: Soil
Date Analyzed: 02/07/11 15:10

QC Report No: SG07-The Boeing Company
Project: Jorgensen Forge
7KPL2JOR

CAS Number	Analyte	RL	Result
86-30-6	N-Nitrosodiphenylamine	62	< 62 U
101-55-3	4-Bromophenyl-phenylether	62	< 62 U
118-74-1	Hexachlorobenzene	62	< 62 U
87-86-5	Pentachlorophenol	310	< 310 U
85-01-8	**Phenanthrene**	**62**	**1,600**
86-74-8	**Carbazole**	**62**	**210**
120-12-7	**Anthracene**	**62**	**320**
84-74-2	Di-n-Butylphthalate	62	< 62 U
206-44-0	**Fluoranthene**	**62**	**3,100**
129-00-0	**Pyrene**	**62**	**3,100**
85-68-7	Butylbenzylphthalate	62	< 62 U
91-94-1	3,3'-Dichlorobenzidine	310	< 310 U
56-55-3	**Benzo(a)anthracene**	**62**	**1,600**
117-81-7	**bis(2-Ethylhexyl)phthalate**	**62**	**810 B**
218-01-9	**Chrysene**	**62**	**1,800**
117-84-0	Di-n-Octyl phthalate	62	< 62 U
50-32-8	**Benzo(a)pyrene**	**62**	**1,600**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**62**	**710**
53-70-3	Dibenz(a,h)anthracene	62	< 62 U
191-24-2	**Benzo(g,h,i)perylene**	**62**	**650 Q**
90-12-0	1-Methylnaphthalene	62	< 62 U
TOTBFA	**Total Benzofluoranthenes**	**62**	**4,200**

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	64.0%	2-Fluorobiphenyl	68.0%
d14-p-Terphenyl	74.0%	d4-1,2-Dichlorobenzene	53.6%
d5-Phenol	49.9%	2-Fluorophenol	35.5%
2,4,6-Tribromophenol	48.3%	d4-2-Chlorophenol	48.8%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS

Sample ID: JF-PLSD-PS-37-2
SAMPLE

Lab Sample ID: SG07F
LIMS ID: 11-1527
Matrix: Soil
Data Release Authorized:
Reported: 02/09/11

QC Report No: SG07-The Boeing Company
Project: Jorgensen Forge
7KPL2JOR
Date Sampled: 01/24/11
Date Received: 01/24/11

Date Extracted: 02/02/11
Date Analyzed: 02/07/11 20:40
Instrument/Analyst: NT4/JZ
GPC Cleanup: Yes

Sample Amount: 4.74 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 3.00
Percent Moisture: 26.0%

CAS Number	Analyte	RL	Result
108-95-2	Phenol	320	< 320 U
111-44-4	Bis-(2-Chloroethyl) Ether	320	< 320 U
95-57-8	2-Chlorophenol	320	< 320 U
541-73-1	1,3-Dichlorobenzene	320	< 320 U
106-46-7	1,4-Dichlorobenzene	320	< 320 U
100-51-6	Benzyl Alcohol	1,600	< 1,600 U
95-50-1	1,2-Dichlorobenzene	320	< 320 U
95-48-7	2-Methylphenol	320	< 320 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	320	< 320 U
106-44-5	4-Methylphenol	320	< 320 U
621-64-7	N-Nitroso-Di-N-Propylamine	320	< 320 U
67-72-1	Hexachloroethane	320	< 320 U
98-95-3	Nitrobenzene	320	< 320 U
78-59-1	Isophorone	320	< 320 U
88-75-5	2-Nitrophenol	320	< 320 U
105-67-9	2,4-Dimethylphenol	320	< 320 U
65-85-0	Benzoic Acid	3,200	< 3,200 U
111-91-1	bis(2-Chloroethoxy) Methane	320	< 320 U
120-83-2	2,4-Dichlorophenol	1,600	< 1,600 U
120-82-1	1,2,4-Trichlorobenzene	320	< 320 U
91-20-3	Naphthalene	320	< 320 U
106-47-8	4-Chloroaniline	1,600	< 1,600 U
87-68-3	Hexachlorobutadiene	320	< 320 U
59-50-7	4-Chloro-3-methylphenol	1,600	< 1,600 U
91-57-6	2-Methylnaphthalene	320	< 320 U
77-47-4	Hexachlorocyclopentadiene	1,600	< 1,600 U
88-06-2	2,4,6-Trichlorophenol	1,600	< 1,600 U
95-95-4	2,4,5-Trichlorophenol	1,600	< 1,600 U
91-58-7	2-Chloronaphthalene	320	< 320 U
88-74-4	2-Nitroaniline	1,600	< 1,600 U
131-11-3	Dimethylphthalate	320	< 320 U
208-96-8	Acenaphthylene	320	< 320 U
99-09-2	3-Nitroaniline	1,600	< 1,600 U
83-32-9	**Acenaphthene**	**320**	**380**
51-28-5	2,4-Dinitrophenol	3,200	< 3,200 U
100-02-7	4-Nitrophenol	1,600	< 1,600 U
132-64-9	Dibenzofuran	320	< 320 U
606-20-2	2,6-Dinitrotoluene	1,600	< 1,600 U
121-14-2	2,4-Dinitrotoluene	1,600	< 1,600 U
84-66-2	Diethylphthalate	320	< 320 U
7005-72-3	4-Chlorophenyl-phenylether	320	< 320 U
86-73-7	**Fluorene**	**320**	**570**
100-01-6	4-Nitroaniline	1,600	< 1,600 U
534-52-1	4,6-Dinitro-2-Methylphenol	3,200	< 3,200 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS

Sample ID: JF-PLSD-PS-37-2
SAMPLE

Lab Sample ID: SG07F
LIMS ID: 11-1527
Matrix: Soil
Date Analyzed: 02/07/11 20:40

QC Report No: SG07-The Boeing Company
Project: Jorgensen Forge
7KPL2JOR

CAS Number	Analyte	RL	Result
86-30-6	N-Nitrosodiphenylamine	320	< 320 U
101-55-3	4-Bromophenyl-phenylether	320	< 320 U
118-74-1	Hexachlorobenzene	320	< 320 U
87-86-5	Pentachlorophenol	1,600	< 1,600 U
85-01-8	**Phenanthrene**	**320**	**3,500**
86-74-8	**Carbazole**	**320**	**480**
120-12-7	**Anthracene**	**320**	**780**
84-74-2	**Di-n-Butylphthalate**	**320**	**5,200**
206-44-0	**Fluoranthene**	**320**	**5,400**
129-00-0	**Pyrene**	**320**	**5,600**
85-68-7	Butylbenzylphthalate	320	< 320 U
91-94-1	3,3'-Dichlorobenzidine	1,600	< 1,600 U
56-55-3	**Benzo(a)anthracene**	**320**	**2,900**
117-81-7	**bis(2-Ethylhexyl)phthalate**	**320**	**5,400 B**
218-01-9	**Chrysene**	**320**	**3,500**
117-84-0	Di-n-Octyl phthalate	320	< 320 U
50-32-8	**Benzo(a)pyrene**	**320**	**3,400**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**320**	**1,200**
53-70-3	Dibenz(a,h)anthracene	320	< 320 U
191-24-2	**Benzo(g,h,i)perylene**	**320**	**960 Q**
90-12-0	1-Methylnaphthalene	320	< 320 U
TOTBFA	**Total Benzofluoranthenes**	**320**	**6,700**

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	78.0%	2-Fluorobiphenyl	84.5%
d14-p-Terphenyl	88.2%	d4-1,2-Dichlorobenzene	68.8%
d5-Phenol	74.2%	2-Fluorophenol	57.0%
2,4,6-Tribromophenol	80.8%	d4-2-Chlorophenol	72.9%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS

Sample ID: JF-PLSD-PS-PUBLIC SAMPLE

Lab Sample ID: SG07G
LIMS ID: 11-1528
Matrix: Soil
Data Release Authorized:
Reported: 02/09/11

QC Report No: SG07-The Boeing Company
Project: Jorgensen Forge 7KPL2JOR
Date Sampled: 01/24/11
Date Received: 01/24/11

Date Extracted: 02/02/11
Date Analyzed: 02/07/11 16:16
Instrument/Analyst: NT4/JZ
GPC Cleanup: Yes

Sample Amount: 8.16 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 3.00
Percent Moisture: 27.4%

CAS Number	Analyte	RL	Result
108-95-2	Phenol	180	< 180 U
111-44-4	Bis-(2-Chloroethyl) Ether	180	< 180 U
95-57-8	2-Chlorophenol	180	< 180 U
541-73-1	1,3-Dichlorobenzene	180	< 180 U
106-46-7	1,4-Dichlorobenzene	180	< 180 U
100-51-6	Benzyl Alcohol	920	< 920 U
95-50-1	1,2-Dichlorobenzene	180	< 180 U
95-48-7	2-Methylphenol	180	< 180 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	180	< 180 U
106-44-5	4-Methylphenol	180	< 180 U
621-64-7	N-Nitroso-Di-N-Propylamine	180	< 180 U
67-72-1	Hexachloroethane	180	< 180 U
98-95-3	Nitrobenzene	180	< 180 U
78-59-1	Isophorone	180	< 180 U
88-75-5	2-Nitrophenol	180	< 180 U
105-67-9	2,4-Dimethylphenol	180	< 180 U
65-85-0	Benzoic Acid	1,800	< 1,800 U
111-91-1	bis(2-Chloroethoxy) Methane	180	< 180 U
120-83-2	2,4-Dichlorophenol	920	< 920 U
120-82-1	1,2,4-Trichlorobenzene	180	< 180 U
91-20-3	Naphthalene	180	< 180 U
106-47-8	4-Chloroaniline	920	< 920 U
87-68-3	Hexachlorobutadiene	180	< 180 U
59-50-7	4-Chloro-3-methylphenol	920	< 920 U
91-57-6	2-Methylnaphthalene	180	< 180 U
77-47-4	Hexachlorocyclopentadiene	920	< 920 U
88-06-2	2,4,6-Trichlorophenol	920	< 920 U
95-95-4	2,4,5-Trichlorophenol	920	< 920 U
91-58-7	2-Chloronaphthalene	180	< 180 U
88-74-4	2-Nitroaniline	920	< 920 U
131-11-3	Dimethylphthalate	180	< 180 U
208-96-8	Acenaphthylene	180	< 180 U
99-09-2	3-Nitroaniline	920	< 920 U
83-32-9	Acenaphthene	180	< 180 U
51-28-5	2,4-Dinitrophenol	1,800	< 1,800 U
100-02-7	4-Nitrophenol	920	< 920 U
132-64-9	Dibenzofuran	180	< 180 U
606-20-2	2,6-Dinitrotoluene	920	< 920 U
121-14-2	2,4-Dinitrotoluene	920	< 920 U
84-66-2	Diethylphthalate	180	< 180 U
7005-72-3	4-Chlorophenyl-phenylether	180	< 180 U
86-73-7	Fluorene	180	< 180 U
100-01-6	4-Nitroaniline	920	< 920 U
534-52-1	4,6-Dinitro-2-Methylphenol	1,800	< 1,800 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS

Sample ID: JF-PLSD-PS-PUBLIC SAMPLE

Lab Sample ID: SG07G
LIMS ID: 11-1528
Matrix: Soil
Date Analyzed: 02/07/11 16:16

QC Report No: SG07-The Boeing Company
Project: Jorgensen Forge 7KPL2JOR

CAS Number	Analyte	RL	Result
86-30-6	N-Nitrosodiphenylamine	180	< 180 U
101-55-3	4-Bromophenyl-phenylether	180	< 180 U
118-74-1	Hexachlorobenzene	180	< 180 U
87-86-5	Pentachlorophenol	920	< 920 U
85-01-8	**Phenanthrene**	**180**	**1,000**
86-74-8	Carbazole	180	< 180 U
120-12-7	**Anthracene**	**180**	**340**
84-74-2	**Di-n-Butylphthalate**	**180**	**580**
206-44-0	**Fluoranthene**	**180**	**6,100**
129-00-0	**Pyrene**	**180**	**14,000**
85-68-7	Butylbenzylphthalate	180	< 180 U
91-94-1	3,3'-Dichlorobenzidine	920	< 920 U
56-55-3	**Benzo(a)anthracene**	**180**	**5,700**
117-81-7	**bis(2-Ethylhexyl)phthalate**	**180**	**1,500 B**
218-01-9	**Chrysene**	**180**	**7,000**
117-84-0	Di-n-Octyl phthalate	180	< 180 U
50-32-8	**Benzo(a)pyrene**	**180**	**6,500**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**180**	**1,900**
53-70-3	**Dibenz(a,h)anthracene**	**180**	**230 Q**
191-24-2	**Benzo(g,h,i)perylene**	**180**	**2,000 Q**
90-12-0	1-Methylnaphthalene	180	< 180 U
TOTBFA	**Total Benzofluoranthenes**	**180**	**12,000**

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	77.4%	2-Fluorobiphenyl	88.2%
d14-p-Terphenyl	136%	d4-1,2-Dichlorobenzene	71.5%
d5-Phenol	74.7%	2-Fluorophenol	51.7%
2,4,6-Tribromophenol	76.3%	d4-2-Chlorophenol	71.0%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS

Sample ID: JF-PLSD-PS-24B-D
SAMPLE

Lab Sample ID: SG07H
LIMS ID: 11-1529
Matrix: Soil
Data Release Authorized:
Reported: 02/09/11

QC Report No: SG07-The Boeing Company
Project: Jorgensen Forge
7KPL2JOR
Date Sampled: 01/24/11
Date Received: 01/24/11

Date Extracted: 02/02/11
Date Analyzed: 02/07/11 16:49
Instrument/Analyst: NT4/JZ
GPC Cleanup: Yes

Sample Amount: 8.17 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 24.6%

CAS Number	Analyte	RL	Result
108-95-2	Phenol	61	< 61 U
111-44-4	Bis-(2-Chloroethyl) Ether	61	< 61 U
95-57-8	2-Chlorophenol	61	< 61 U
541-73-1	1,3-Dichlorobenzene	61	< 61 U
106-46-7	1,4-Dichlorobenzene	61	< 61 U
100-51-6	Benzyl Alcohol	310	< 310 U
95-50-1	1,2-Dichlorobenzene	61	< 61 U
95-48-7	2-Methylphenol	61	< 61 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	61	< 61 U
106-44-5	4-Methylphenol	61	< 61 U
621-64-7	N-Nitroso-Di-N-Propylamine	61	< 61 U
67-72-1	Hexachloroethane	61	< 61 U
98-95-3	Nitrobenzene	61	< 61 U
78-59-1	Isophorone	61	< 61 U
88-75-5	2-Nitrophenol	61	< 61 U
105-67-9	2,4-Dimethylphenol	61	< 61 U
65-85-0	Benzoic Acid	610	< 610 U
111-91-1	bis(2-Chloroethoxy) Methane	61	< 61 U
120-83-2	2,4-Dichlorophenol	310	< 310 U
120-82-1	1,2,4-Trichlorobenzene	61	< 61 U
91-20-3	Naphthalene	61	< 61 U
106-47-8	4-Chloroaniline	310	< 310 U
87-68-3	Hexachlorobutadiene	61	< 61 U
59-50-7	4-Chloro-3-methylphenol	310	< 310 U
91-57-6	2-Methylnaphthalene	61	< 61 U
77-47-4	Hexachlorocyclopentadiene	310	< 310 U
88-06-2	2,4,6-Trichlorophenol	310	< 310 U
95-95-4	2,4,5-Trichlorophenol	310	< 310 U
91-58-7	2-Chloronaphthalene	61	< 61 U
88-74-4	2-Nitroaniline	310	< 310 U
131-11-3	Dimethylphthalate	61	< 61 U
208-96-8	Acenaphthylene	61	< 61 U
99-09-2	3-Nitroaniline	310	< 310 U
83-32-9	Acenaphthene	61	< 61 U
51-28-5	2,4-Dinitrophenol	610	< 610 U
100-02-7	4-Nitrophenol	310	< 310 U
132-64-9	Dibenzofuran	61	< 61 U
606-20-2	2,6-Dinitrotoluene	310	< 310 U
121-14-2	2,4-Dinitrotoluene	310	< 310 U
84-66-2	Diethylphthalate	61	< 61 U
7005-72-3	4-Chlorophenyl-phenylether	61	< 61 U
86-73-7	Fluorene	61	< 61 U
100-01-6	4-Nitroaniline	310	< 310 U
534-52-1	4,6-Dinitro-2-Methylphenol	610	< 610 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS

Sample ID: JF-PLSD-PS-24B-D
SAMPLE

Lab Sample ID: SG07H
LIMS ID: 11-1529
Matrix: Soil
Date Analyzed: 02/07/11 16:49

QC Report No: SG07-The Boeing Company
Project: Jorgensen Forge
7KPL2JOR

CAS Number	Analyte	RL	Result
86-30-6	N-Nitrosodiphenylamine	61	< 61 U
101-55-3	4-Bromophenyl-phenylether	61	< 61 U
118-74-1	Hexachlorobenzene	61	< 61 U
87-86-5	Pentachlorophenol	310	< 310 U
85-01-8	**Phenanthrene**	**61**	**320**
86-74-8	Carbazole	61	< 61 U
120-12-7	Anthracene	61	< 61 U
84-74-2	Di-n-Butylphthalate	61	< 61 U
206-44-0	**Fluoranthene**	**61**	**560**
129-00-0	**Pyrene**	**61**	**500**
85-68-7	Butylbenzylphthalate	61	< 61 U
91-94-1	3,3'-Dichlorobenzidine	310	< 310 U
56-55-3	**Benzo(a)anthracene**	**61**	**220**
117-81-7	**bis(2-Ethylhexyl)phthalate**	**61**	**660 B**
218-01-9	**Chrysene**	**61**	**320**
117-84-0	Di-n-Octyl phthalate	61	< 61 U
50-32-8	**Benzo(a)pyrene**	**61**	**260**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**61**	**120**
53-70-3	Dibenz(a,h)anthracene	61	< 61 U
191-24-2	**Benzo(g,h,i)perylene**	**61**	**110 Q**
90-12-0	1-Methylnaphthalene	61	< 61 U
TOTBFA	**Total Benzofluoranthenes**	**61**	**570**

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	69.6%	2-Fluorobiphenyl	73.6%
d14-p-Terphenyl	74.0%	d4-1,2-Dichlorobenzene	64.0%
d5-Phenol	46.4%	2-Fluorophenol	22.4%
2,4,6-Tribromophenol	24.7%	d4-2-Chlorophenol	44.8%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS

Sample ID: JF-PLSD-PS-37-7-M
SAMPLE

Lab Sample ID: SG07I
LIMS ID: 11-1530
Matrix: Soil
Data Release Authorized:
Reported: 02/14/11

QC Report No: SG07-The Boeing Company
Project: Jorgensen Forge
7KPL2JOR
Date Sampled: 01/24/11
Date Received: 01/24/11

Date Extracted: 02/02/11
Date Analyzed: 02/07/11 17:22
Instrument/Analyst: NT4/JZ
GPC Cleanup: Yes

Sample Amount: 7.69 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 45.4%

CAS Number	Analyte	RL	Result
108-95-2	**Phenol**	**65**	**95**
111-44-4	Bis-(2-Chloroethyl) Ether	65	< 65 U
95-57-8	2-Chlorophenol	65	< 65 U
541-73-1	1,3-Dichlorobenzene	65	< 65 U
106-46-7	1,4-Dichlorobenzene	65	< 65 U
100-51-6	Benzyl Alcohol	320	< 320 U
95-50-1	1,2-Dichlorobenzene	65	< 65 U
95-48-7	2-Methylphenol	65	< 65 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	65	< 65 U
106-44-5	4-Methylphenol	65	< 65 U
621-64-7	N-Nitroso-Di-N-Propylamine	65	< 65 U
67-72-1	Hexachloroethane	65	< 65 U
98-95-3	Nitrobenzene	65	< 65 U
78-59-1	Isophorone	65	< 65 U
88-75-5	2-Nitrophenol	65	< 65 U
105-67-9	2,4-Dimethylphenol	65	< 65 U
65-85-0	Benzoic Acid	650	< 650 U
111-91-1	bis(2-Chloroethoxy) Methane	65	< 65 U
120-83-2	2,4-Dichlorophenol	320	< 320 U
120-82-1	1,2,4-Trichlorobenzene	65	< 65 U
91-20-3	**Naphthalene**	**65**	**160**
106-47-8	4-Chloroaniline	320	< 320 U
87-68-3	Hexachlorobutadiene	65	< 65 U
59-50-7	4-Chloro-3-methylphenol	320	< 320 U
91-57-6	**2-Methylnaphthalene**	**65**	**170**
77-47-4	Hexachlorocyclopentadiene	320	< 320 U
88-06-2	2,4,6-Trichlorophenol	320	< 320 U
95-95-4	2,4,5-Trichlorophenol	320	< 320 U
91-58-7	2-Chloronaphthalene	65	< 65 U
88-74-4	2-Nitroaniline	320	< 320 U
131-11-3	Dimethylphthalate	65	< 65 U
208-96-8	Acenaphthylene	65	< 65 U
99-09-2	3-Nitroaniline	320	< 320 U
83-32-9	**Acenaphthene**	**65**	**1,000**
51-28-5	2,4-Dinitrophenol	650	< 650 U
100-02-7	4-Nitrophenol	320	< 320 U
132-64-9	**Dibenzofuran**	**65**	**450**
606-20-2	2,6-Dinitrotoluene	320	< 320 U
121-14-2	2,4-Dinitrotoluene	320	< 320 U
84-66-2	Diethylphthalate	65	< 65 U
7005-72-3	4-Chlorophenyl-phenylether	65	< 65 U
86-73-7	**Fluorene**	**65**	**750**
100-01-6	4-Nitroaniline	320	< 320 U
534-52-1	4,6-Dinitro-2-Methylphenol	650	< 650 U

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS

Sample ID: JF-PLSD-PS-37-7-M
SAMPLE

Lab Sample ID: SG07I
LIMS ID: 11-1530
Matrix: Soil
Date Analyzed: 02/07/11 17:22

QC Report No: SG07-The Boeing Company
Project: Jorgensen Forge
7KPL2JOR

CAS Number	Analyte	RL	Result
86-30-6	N-Nitrosodiphenylamine	65	< 65 U
101-55-3	4-Bromophenyl-phenylether	65	< 65 U
118-74-1	Hexachlorobenzene	65	< 65 U
87-86-5	Pentachlorophenol	320	< 320 U
85-01-8	**Phenanthrene**	**65**	**3,200**
86-74-8	**Carbazole**	**65**	**490**
120-12-7	**Anthracene**	**65**	**740**
84-74-2	**Di-n-Butylphthalate**	**65**	**510**
206-44-0	**Fluoranthene**	**65**	**4,500**
129-00-0	**Pyrene**	**65**	**4,800**
85-68-7	**Butylbenzylphthalate**	**65**	**270**
91-94-1	3,3'-Dichlorobenzidine	320	< 320 U
56-55-3	**Benzo(a)anthracene**	**65**	**2,100**
117-81-7	**bis(2-Ethylhexyl)phthalate**	**65**	**960 B**
218-01-9	**Chrysene**	**65**	**2,600**
117-84-0	Di-n-Octyl phthalate	65	< 65 U
50-32-8	**Benzo(a)pyrene**	**65**	**2,400**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**65**	**910**
53-70-3	**Dibenz(a,h)anthracene**	**65**	**120 Q**
191-24-2	**Benzo(g,h,i)perylene**	**65**	**940 Q**
90-12-0	**1-Methylnaphthalene**	**65**	**150**
TOTBFA	**Total Benzofluoranthenes**	**65**	**6,400**

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	61.2%	2-Fluorobiphenyl	62.8%
d14-p-Terphenyl	80.8%	d4-1,2-Dichlorobenzene	54.0%
d5-Phenol	59.2%	2-Fluorophenol	53.1%
2,4,6-Tribromophenol	66.9%	d4-2-Chlorophenol	57.6%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS

Sample ID: JF-PLSD-PS-37-7-M
DILUTION

Lab Sample ID: SG07I
LIMS ID: 11-1530
Matrix: Soil
Data Release Authorized:
Reported: 02/09/11

QC Report No: SG07-The Boeing Company
Project: Jorgensen Forge
7KPL2JOR
Date Sampled: 01/24/11
Date Received: 01/24/11

Date Extracted: 02/02/11
Date Analyzed: 02/07/11 21:13
Instrument/Analyst: NT4/JZ
GPC Cleanup: Yes

Sample Amount: 7.69 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 3.00
Percent Moisture: 45.4%

CAS Number	Analyte	RL	Result
108-95-2	Phenol	200	< 200 U
111-44-4	Bis-(2-Chloroethyl) Ether	200	< 200 U
95-57-8	2-Chlorophenol	200	< 200 U
541-73-1	1,3-Dichlorobenzene	200	< 200 U
106-46-7	1,4-Dichlorobenzene	200	< 200 U
100-51-6	Benzyl Alcohol	980	< 980 U
95-50-1	1,2-Dichlorobenzene	200	< 200 U
95-48-7	2-Methylphenol	200	< 200 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	200	< 200 U
106-44-5	4-Methylphenol	200	< 200 U
621-64-7	N-Nitroso-Di-N-Propylamine	200	< 200 U
67-72-1	Hexachloroethane	200	< 200 U
98-95-3	Nitrobenzene	200	< 200 U
78-59-1	Isophorone	200	< 200 U
88-75-5	2-Nitrophenol	200	< 200 U
105-67-9	2,4-Dimethylphenol	200	< 200 U
65-85-0	Benzoic Acid	2,000	< 2,000 U
111-91-1	bis(2-Chloroethoxy) Methane	200	< 200 U
120-83-2	2,4-Dichlorophenol	980	< 980 U
120-82-1	1,2,4-Trichlorobenzene	200	< 200 U
91-20-3	Naphthalene	200	< 200 U
106-47-8	4-Chloroaniline	980	< 980 U
87-68-3	Hexachlorobutadiene	200	< 200 U
59-50-7	4-Chloro-3-methylphenol	980	< 980 U
91-57-6	2-Methylnaphthalene	200	< 200 U
77-47-4	Hexachlorocyclopentadiene	980	< 980 U
88-06-2	2,4,6-Trichlorophenol	980	< 980 U
95-95-4	2,4,5-Trichlorophenol	980	< 980 U
91-58-7	2-Chloronaphthalene	200	< 200 U
88-74-4	2-Nitroaniline	980	< 980 U
131-11-3	Dimethylphthalate	200	< 200 U
208-96-8	Acenaphthylene	200	< 200 U
99-09-2	3-Nitroaniline	980	< 980 U
83-32-9	**Acenaphthene**	**200**	**1,000**
51-28-5	2,4-Dinitrophenol	2,000	< 2,000 U
100-02-7	4-Nitrophenol	980	< 980 U
132-64-9	**Dibenzofuran**	**200**	**410**
606-20-2	2,6-Dinitrotoluene	980	< 980 U
121-14-2	2,4-Dinitrotoluene	980	< 980 U
84-66-2	Diethylphthalate	200	< 200 U
7005-72-3	4-Chlorophenyl-phenylether	200	< 200 U
86-73-7	**Fluorene**	**200**	**710**
100-01-6	4-Nitroaniline	980	< 980 U
534-52-1	4,6-Dinitro-2-Methylphenol	2,000	< 2,000 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS

Sample ID: JF-PLSD-PS-37-7-M
DILUTION

Lab Sample ID: SG07I
LIMS ID: 11-1530
Matrix: Soil
Date Analyzed: 02/07/11 21:13

QC Report No: SG07-The Boeing Company
Project: Jorgensen Forge
7KPL2JOR

CAS Number	Analyte	RL	Result
86-30-6	N-Nitrosodiphenylamine	200	< 200 U
101-55-3	4-Bromophenyl-phenylether	200	< 200 U
118-74-1	Hexachlorobenzene	200	< 200 U
87-86-5	Pentachlorophenol	980	< 980 U
85-01-8	**Phenanthrene**	**200**	**4,100**
86-74-8	**Carbazole**	**200**	**540**
120-12-7	**Anthracene**	**200**	**760**
84-74-2	**Di-n-Butylphthalate**	**200**	**450**
206-44-0	**Fluoranthene**	**200**	**5,600**
129-00-0	**Pyrene**	**200**	**4,500**
85-68-7	**Butylbenzylphthalate**	**200**	**250**
91-94-1	3,3'-Dichlorobenzidine	980	< 980 U
56-55-3	**Benzo(a)anthracene**	**200**	**2,100**
117-81-7	**bis(2-Ethylhexyl)phthalate**	**200**	**790 B**
218-01-9	**Chrysene**	**200**	**2,400**
117-84-0	Di-n-Octyl phthalate	200	< 200 U
50-32-8	**Benzo(a)pyrene**	**200**	**2,200**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**200**	**780**
53-70-3	Dibenz(a,h)anthracene	200	< 200 U
191-24-2	**Benzo(g,h,i)perylene**	**200**	**740 Q**
90-12-0	1-Methylnaphthalene	200	< 200 U
TOTBFA	**Total Benzofluoranthenes**	**200**	**4,800**

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	56.4%	2-Fluorobiphenyl	62.0%
d14-p-Terphenyl	66.2%	d4-1,2-Dichlorobenzene	52.1%
d5-Phenol	57.4%	2-Fluorophenol	48.7%
2,4,6-Tribromophenol	60.7%	d4-2-Chlorophenol	53.5%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS

Sample ID: JF-PLSD-PS-37-7-M
MATRIX SPIKE

Lab Sample ID: SG07I
LIMS ID: 11-1530
Matrix: Soil
Data Release Authorized:
Reported: 02/09/11

QC Report No: SG07-The Boeing Company
Project: Jorgensen Forge
7KPL2JOR
Date Sampled: 01/24/11
Date Received: 01/24/11

Date Extracted: 02/02/11
Date Analyzed: 02/07/11 17:56
Instrument/Analyst: NT4/JZ
GPC Cleanup: Yes

Sample Amount: 7.81 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 45.4%

CAS Number	Analyte	RL	Result
108-95-2	Phenol	64	---
111-44-4	Bis-(2-Chloroethyl) Ether	64	---
95-57-8	2-Chlorophenol	64	---
541-73-1	1,3-Dichlorobenzene	64	---
106-46-7	1,4-Dichlorobenzene	64	---
100-51-6	Benzyl Alcohol	320	---
95-50-1	1,2-Dichlorobenzene	64	---
95-48-7	2-Methylphenol	64	---
108-60-1	2,2'-Oxybis(1-Chloropropane)	64	---
106-44-5	4-Methylphenol	64	---
621-64-7	N-Nitroso-Di-N-Propylamine	64	---
67-72-1	Hexachloroethane	64	---
98-95-3	Nitrobenzene	64	---
78-59-1	Isophorone	64	---
88-75-5	2-Nitrophenol	64	---
105-67-9	2,4-Dimethylphenol	64	---
65-85-0	Benzoic Acid	640	---
111-91-1	bis(2-Chloroethoxy) Methane	64	---
120-83-2	2,4-Dichlorophenol	320	---
120-82-1	1,2,4-Trichlorobenzene	64	---
91-20-3	Naphthalene	64	---
106-47-8	4-Chloroaniline	320	---
87-68-3	Hexachlorobutadiene	64	---
59-50-7	4-Chloro-3-methylphenol	320	---
91-57-6	2-Methylnaphthalene	64	---
77-47-4	Hexachlorocyclopentadiene	320	---
88-06-2	2,4,6-Trichlorophenol	320	---
95-95-4	2,4,5-Trichlorophenol	320	---
91-58-7	2-Chloronaphthalene	64	---
88-74-4	2-Nitroaniline	320	---
131-11-3	Dimethylphthalate	64	---
208-96-8	Acenaphthylene	64	---
99-09-2	3-Nitroaniline	320	---
83-32-9	Acenaphthene	64	---
51-28-5	2,4-Dinitrophenol	640	---
100-02-7	4-Nitrophenol	320	---
132-64-9	Dibenzofuran	64	---
606-20-2	2,6-Dinitrotoluene	320	---
121-14-2	2,4-Dinitrotoluene	320	---
84-66-2	Diethylphthalate	64	---
7005-72-3	4-Chlorophenyl-phenylether	64	---
86-73-7	Fluorene	64	---
100-01-6	4-Nitroaniline	320	---
534-52-1	4,6-Dinitro-2-Methylphenol	640	---

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS

Sample ID: JF-PLSD-PS-37-7-M
MATRIX SPIKE

Lab Sample ID: SG07I
LIMS ID: 11-1530
Matrix: Soil
Date Analyzed: 02/07/11 17:56

QC Report No: SG07-The Boeing Company
Project: Jorgensen Forge
7KPL2JOR

CAS Number	Analyte	RL	Result
86-30-6	N-Nitrosodiphenylamine	64	---
101-55-3	4-Bromophenyl-phenylether	64	---
118-74-1	Hexachlorobenzene	64	---
87-86-5	Pentachlorophenol	320	---
85-01-8	Phenanthrene	64	---
86-74-8	Carbazole	64	---
120-12-7	Anthracene	64	---
84-74-2	Di-n-Butylphthalate	64	---
206-44-0	Fluoranthene	64	---
129-00-0	Pyrene	64	---
85-68-7	Butylbenzylphthalate	64	---
91-94-1	3,3'-Dichlorobenzidine	320	---
56-55-3	Benzo(a)anthracene	64	---
117-81-7	bis(2-Ethylhexyl)phthalate	64	---
218-01-9	Chrysene	64	---
117-84-0	Di-n-Octyl phthalate	64	---
50-32-8	Benzo(a)pyrene	64	---
193-39-5	Indeno(1,2,3-cd)pyrene	64	---
53-70-3	Dibenz(a,h)anthracene	64	---
191-24-2	Benzo(g,h,i)perylene	64	---
90-12-0	1-Methylnaphthalene	64	---
TOTBFA	Total Benzofluoranthenes	64	---

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	63.6%	2-Fluorobiphenyl	67.6%
d14-p-Terphenyl	89.6%	d4-1,2-Dichlorobenzene	60.8%
d5-Phenol	64.3%	2-Fluorophenol	56.3%
2,4,6-Tribromophenol	71.2%	d4-2-Chlorophenol	62.9%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS

Sample ID: JF-PLSD-PS-37-7-M
MATRIX SPIKE DUPLICATE

Lab Sample ID: SG07I
LIMS ID: 11-1530
Matrix: Soil
Data Release Authorized:
Reported: 02/09/11

QC Report No: SG07-The Boeing Company
Project: Jorgensen Forge
7KPL2JOR
Date Sampled: 01/24/11
Date Received: 01/24/11

Date Extracted: 02/02/11
Date Analyzed: 02/07/11 18:28
Instrument/Analyst: NT4/JZ
GPC Cleanup: Yes

Sample Amount: 7.70 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 45.4%

CAS Number	Analyte	RL	Result
108-95-2	Phenol	65	---
111-44-4	Bis-(2-Chloroethyl) Ether	65	---
95-57-8	2-Chlorophenol	65	---
541-73-1	1,3-Dichlorobenzene	65	---
106-46-7	1,4-Dichlorobenzene	65	---
100-51-6	Benzyl Alcohol	320	---
95-50-1	1,2-Dichlorobenzene	65	---
95-48-7	2-Methylphenol	65	---
108-60-1	2,2'-Oxybis(1-Chloropropane)	65	---
106-44-5	4-Methylphenol	65	---
621-64-7	N-Nitroso-Di-N-Propylamine	65	---
67-72-1	Hexachloroethane	65	---
98-95-3	Nitrobenzene	65	---
78-59-1	Isophorone	65	---
88-75-5	2-Nitrophenol	65	---
105-67-9	2,4-Dimethylphenol	65	---
65-85-0	Benzoic Acid	650	---
111-91-1	bis(2-Chloroethoxy) Methane	65	---
120-83-2	2,4-Dichlorophenol	320	---
120-82-1	1,2,4-Trichlorobenzene	65	---
91-20-3	Naphthalene	65	---
106-47-8	4-Chloroaniline	320	---
87-68-3	Hexachlorobutadiene	65	---
59-50-7	4-Chloro-3-methylphenol	320	---
91-57-6	2-Methylnaphthalene	65	---
77-47-4	Hexachlorocyclopentadiene	320	---
88-06-2	2,4,6-Trichlorophenol	320	---
95-95-4	2,4,5-Trichlorophenol	320	---
91-58-7	2-Chloronaphthalene	65	---
88-74-4	2-Nitroaniline	320	---
131-11-3	Dimethylphthalate	65	---
208-96-8	Acenaphthylene	65	---
99-09-2	3-Nitroaniline	320	---
83-32-9	Acenaphthene	65	---
51-28-5	2,4-Dinitrophenol	650	---
100-02-7	4-Nitrophenol	320	---
132-64-9	Dibenzofuran	65	---
606-20-2	2,6-Dinitrotoluene	320	---
121-14-2	2,4-Dinitrotoluene	320	---
84-66-2	Diethylphthalate	65	---
7005-72-3	4-Chlorophenyl-phenylether	65	---
86-73-7	Fluorene	65	---
100-01-6	4-Nitroaniline	320	---
534-52-1	4,6-Dinitro-2-Methylphenol	650	---

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS

Sample ID: JF-PLSD-PS-37-7-M
MATRIX SPIKE DUPLICATE

Lab Sample ID: SG07I
LIMS ID: 11-1530
Matrix: Soil
Date Analyzed: 02/07/11 18:28

QC Report No: SG07-The Boeing Company
Project: Jorgensen Forge
7KPL2JOR

CAS Number	Analyte	RL	Result
86-30-6	N-Nitrosodiphenylamine	65	---
101-55-3	4-Bromophenyl-phenylether	65	---
118-74-1	Hexachlorobenzene	65	---
87-86-5	Pentachlorophenol	320	---
85-01-8	Phenanthrene	65	---
86-74-8	Carbazole	65	---
120-12-7	Anthracene	65	---
84-74-2	Di-n-Butylphthalate	65	---
206-44-0	Fluoranthene	65	---
129-00-0	Pyrene	65	---
85-68-7	Butylbenzylphthalate	65	---
91-94-1	3,3'-Dichlorobenzidine	320	---
56-55-3	Benzo(a)anthracene	65	---
117-81-7	bis(2-Ethylhexyl)phthalate	65	---
218-01-9	Chrysene	65	---
117-84-0	Di-n-Octyl phthalate	65	---
50-32-8	Benzo(a)pyrene	65	---
193-39-5	Indeno(1,2,3-cd)pyrene	65	---
53-70-3	Dibenz(a,h)anthracene	65	---
191-24-2	Benzo(g,h,i)perylene	65	---
90-12-0	1-Methylnaphthalene	65	---
TOTBFA	Total Benzofluoranthenes	65	---

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	63.6%	2-Fluorobiphenyl	69.6%
d14-p-Terphenyl	85.2%	d4-1,2-Dichlorobenzene	58.8%
d5-Phenol	60.8%	2-Fluorophenol	54.1%
2,4,6-Tribromophenol	71.2%	d4-2-Chlorophenol	58.4%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS

Sample ID: MB-020211
METHOD BLANK

Lab Sample ID: MB-020211
LIMS ID: 11-1530
Matrix: Soil
Data Release Authorized:
Reported: 02/09/11

QC Report No: SG07-The Boeing Company
Project: Jorgensen Forge
7KPL2JOR
Date Sampled: NA
Date Received: NA

Date Extracted: 02/02/11
Date Analyzed: 02/04/11 15:45
Instrument/Analyst: NT4/JZ
GPC Cleanup: Yes

Sample Amount: 7.50 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: NA

CAS Number	Analyte	RL	Result
108-95-2	Phenol	67	< 67 U
111-44-4	Bis-(2-Chloroethyl) Ether	67	< 67 U
95-57-8	2-Chlorophenol	67	< 67 U
541-73-1	1,3-Dichlorobenzene	67	< 67 U
106-46-7	1,4-Dichlorobenzene	67	< 67 U
100-51-6	Benzyl Alcohol	330	< 330 U
95-50-1	1,2-Dichlorobenzene	67	< 67 U
95-48-7	2-Methylphenol	67	< 67 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	67	< 67 U
106-44-5	4-Methylphenol	67	< 67 U
621-64-7	N-Nitroso-Di-N-Propylamine	67	< 67 U
67-72-1	Hexachloroethane	67	< 67 U
98-95-3	Nitrobenzene	67	< 67 U
78-59-1	Isophorone	67	< 67 U
88-75-5	2-Nitrophenol	67	< 67 U
105-67-9	2,4-Dimethylphenol	67	< 67 U
65-85-0	Benzoic Acid	670	< 670 U
111-91-1	bis(2-Chloroethoxy) Methane	67	< 67 U
120-83-2	2,4-Dichlorophenol	330	< 330 U
120-82-1	1,2,4-Trichlorobenzene	67	< 67 U
91-20-3	Naphthalene	67	< 67 U
106-47-8	4-Chloroaniline	330	< 330 U
87-68-3	Hexachlorobutadiene	67	< 67 U
59-50-7	4-Chloro-3-methylphenol	330	< 330 U
91-57-6	2-Methylnaphthalene	67	< 67 U
77-47-4	Hexachlorocyclopentadiene	330	< 330 U
88-06-2	2,4,6-Trichlorophenol	330	< 330 U
95-95-4	2,4,5-Trichlorophenol	330	< 330 U
91-58-7	2-Chloronaphthalene	67	< 67 U
88-74-4	2-Nitroaniline	330	< 330 U
131-11-3	Dimethylphthalate	67	< 67 U
208-96-8	Acenaphthylene	67	< 67 U
99-09-2	3-Nitroaniline	330	< 330 U
83-32-9	Acenaphthene	67	< 67 U
51-28-5	2,4-Dinitrophenol	670	< 670 U
100-02-7	4-Nitrophenol	330	< 330 U
132-64-9	Dibenzofuran	67	< 67 U
606-20-2	2,6-Dinitrotoluene	330	< 330 U
121-14-2	2,4-Dinitrotoluene	330	< 330 U
84-66-2	Diethylphthalate	67	< 67 U
7005-72-3	4-Chlorophenyl-phenylether	67	< 67 U
86-73-7	Fluorene	67	< 67 U
100-01-6	4-Nitroaniline	330	< 330 U
534-52-1	4,6-Dinitro-2-Methylphenol	670	< 670 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS

Sample ID: MB-020211
METHOD BLANK

Lab Sample ID: MB-020211
LIMS ID: 11-1530
Matrix: Soil
Date Analyzed: 02/04/11 15:45

QC Report No: SG07-The Boeing Company
Project: Jorgensen Forge
7KPL2JOR

CAS Number	Analyte	RL	Result
86-30-6	N-Nitrosodiphenylamine	67	< 67 U
101-55-3	4-Bromophenyl-phenylether	67	< 67 U
118-74-1	Hexachlorobenzene	67	< 67 U
87-86-5	Pentachlorophenol	330	< 330 U
85-01-8	Phenanthrene	67	< 67 U
86-74-8	Carbazole	67	< 67 U
120-12-7	Anthracene	67	< 67 U
84-74-2	Di-n-Butylphthalate	67	< 67 U
206-44-0	Fluoranthene	67	< 67 U
129-00-0	Pyrene	67	< 67 U
85-68-7	Butylbenzylphthalate	67	< 67 U
91-94-1	3,3'-Dichlorobenzidine	330	< 330 U
56-55-3	Benzo(a)anthracene	67	< 67 U
117-81-7	**bis(2-Ethylhexyl)phthalate**	**67**	**93**
218-01-9	Chrysene	67	< 67 U
117-84-0	Di-n-Octyl phthalate	67	< 67 U
50-32-8	Benzo(a)pyrene	67	< 67 U
193-39-5	Indeno(1,2,3-cd)pyrene	67	< 67 U
53-70-3	Dibenz(a,h)anthracene	67	< 67 U
191-24-2	Benzo(g,h,i)perylene	67	< 67 U
90-12-0	1-Methylnaphthalene	67	< 67 U
TOTBFA	Total Benzofluoranthenes	67	< 67 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	70.8%	2-Fluorobiphenyl	65.2%
d14-p-Terphenyl	80.0%	d4-1,2-Dichlorobenzene	67.6%
d5-Phenol	69.9%	2-Fluorophenol	65.6%
2,4,6-Tribromophenol	62.7%	d4-2-Chlorophenol	70.4%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS

Sample ID: MB-020811
METHOD BLANK

Lab Sample ID: MB-020811
LIMS ID: 11-1523
Matrix: Soil
Data Release Authorized:
Reported: 02/10/11

QC Report No: SG07-The Boeing Company
Project: Jorgensen Forge
7KPL2JOR
Date Sampled: NA
Date Received: NA

Date Extracted: 02/08/11
Date Analyzed: 02/10/11 12:46
Instrument/Analyst: NT4/JZ
GPC Cleanup: Yes

Sample Amount: 7.50 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: NA

CAS Number	Analyte	RL	Result
108-95-2	Phenol	67	< 67 U
111-44-4	Bis-(2-Chloroethyl) Ether	67	< 67 U
95-57-8	2-Chlorophenol	67	< 67 U
541-73-1	1,3-Dichlorobenzene	67	< 67 U
106-46-7	1,4-Dichlorobenzene	67	< 67 U
100-51-6	Benzyl Alcohol	330	< 330 U
95-50-1	1,2-Dichlorobenzene	67	< 67 U
95-48-7	2-Methylphenol	67	< 67 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	67	< 67 U
106-44-5	4-Methylphenol	67	< 67 U
621-64-7	N-Nitroso-Di-N-Propylamine	67	< 67 U
67-72-1	Hexachloroethane	67	< 67 U
98-95-3	Nitrobenzene	67	< 67 U
78-59-1	Isophorone	67	< 67 U
88-75-5	2-Nitrophenol	67	< 67 U
105-67-9	2,4-Dimethylphenol	67	< 67 U
65-85-0	Benzoic Acid	670	< 670 U
111-91-1	bis(2-Chloroethoxy) Methane	67	< 67 U
120-83-2	2,4-Dichlorophenol	330	< 330 U
120-82-1	1,2,4-Trichlorobenzene	67	< 67 U
91-20-3	Naphthalene	67	< 67 U
106-47-8	4-Chloroaniline	330	< 330 U
87-68-3	Hexachlorobutadiene	67	< 67 U
59-50-7	4-Chloro-3-methylphenol	330	< 330 U
91-57-6	2-Methylnaphthalene	67	< 67 U
77-47-4	Hexachlorocyclopentadiene	330	< 330 U
88-06-2	2,4,6-Trichlorophenol	330	< 330 U
95-95-4	2,4,5-Trichlorophenol	330	< 330 U
91-58-7	2-Chloronaphthalene	67	< 67 U
88-74-4	2-Nitroaniline	330	< 330 U
131-11-3	Dimethylphthalate	67	< 67 U
208-96-8	Acenaphthylene	67	< 67 U
99-09-2	3-Nitroaniline	330	< 330 U
83-32-9	Acenaphthene	67	< 67 U
51-28-5	2,4-Dinitrophenol	670	< 670 U
100-02-7	4-Nitrophenol	330	< 330 U
132-64-9	Dibenzofuran	67	< 67 U
606-20-2	2,6-Dinitrotoluene	330	< 330 U
121-14-2	2,4-Dinitrotoluene	330	< 330 U
84-66-2	Diethylphthalate	67	< 67 U
7005-72-3	4-Chlorophenyl-phenylether	67	< 67 U
86-73-7	Fluorene	67	< 67 U
100-01-6	4-Nitroaniline	330	< 330 U
534-52-1	4,6-Dinitro-2-Methylphenol	670	< 670 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS

Sample ID: MB-020811
METHOD BLANK

Lab Sample ID: MB-020811
LIMS ID: 11-1523
Matrix: Soil
Date Analyzed: 02/10/11 12:46

QC Report No: SG07-The Boeing Company
Project: Jorgensen Forge
7KPL2JOR

CAS Number	Analyte	RL	Result
86-30-6	N-Nitrosodiphenylamine	67	< 67 U
101-55-3	4-Bromophenyl-phenylether	67	< 67 U
118-74-1	Hexachlorobenzene	67	< 67 U
87-86-5	Pentachlorophenol	330	< 330 U
85-01-8	Phenanthrene	67	< 67 U
86-74-8	Carbazole	67	< 67 U
120-12-7	Anthracene	67	< 67 U
84-74-2	Di-n-Butylphthalate	67	< 67 U
206-44-0	Fluoranthene	67	< 67 U
129-00-0	Pyrene	67	< 67 U
85-68-7	Butylbenzylphthalate	67	< 67 U
91-94-1	3,3'-Dichlorobenzidine	330	< 330 U
56-55-3	Benzo(a)anthracene	67	< 67 U
117-81-7	bis(2-Ethylhexyl)phthalate	67	< 67 U
218-01-9	Chrysene	67	< 67 U
117-84-0	Di-n-Octyl phthalate	67	< 67 U
50-32-8	Benzo(a)pyrene	67	< 67 U
193-39-5	Indeno(1,2,3-cd)pyrene	67	< 67 U
53-70-3	Dibenz(a,h)anthracene	67	< 67 U
191-24-2	Benzo(g,h,i)perylene	67	< 67 U
90-12-0	1-Methylnaphthalene	67	< 67 U
TOTBFA	Total Benzofluoranthenes	67	< 67 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	81.2%	2-Fluorobiphenyl	70.4%
d14-p-Terphenyl	87.2%	d4-1,2-Dichlorobenzene	73.2%
d5-Phenol	74.7%	2-Fluorophenol	68.0%
2,4,6-Tribromophenol	78.4%	d4-2-Chlorophenol	72.5%

ANALYTICAL RESOURCES INCORPORATED

SW8270 SEMIVOLATILES SOIL/SEDIMENT SURROGATE RECOVERY SUMMARY

Matrix: Soil

QC Report No: SG07-The Boeing Company
Project: Jorgensen Forge
7KPL2JOR

Client ID	NBZ	FBP	TPH	DCB	PHL	2FP	TBP	2CP	TOT OUT
JF-PLSD-PS-15A	66.8%	70.4%	76.4%	62.8%	52.8%	36.3%	41.1%	53.9%	0
JF-PLSD-PS-15A DL	68.0%	69.2%	90.4%	65.2%	55.2%	38.4%	46.4%	55.5%	0
MB-020811	81.2%	70.4%	87.2%	73.2%	74.7%	68.0%	78.4%	72.5%	0
LCS-020811	78.8%	71.6%	92.0%	71.2%	76.0%	65.1%	81.6%	69.9%	0
LCSD-020811	79.6%	69.2%	88.8%	69.6%	70.4%	66.9%	78.1%	70.9%	0
JF-PLSD-PS-15B	59.9%	66.0%	69.2%	58.4%	33.4%	9.1%*	7.4%*	30.2%*	3
JF-PLSD-PS-15B RE	60.4%	64.8%	69.2%	60.4%	62.9%	52.0%	56.8%	60.0%	0
JF-PLSD-PS-24A	70.0%	70.0%	77.6%	65.6%	46.7%	22.9%	21.4%*	45.6%	1
JF-PLSD-PS-24B	63.2%	66.8%	71.6%	55.6%	32.5%	10.6%*	12.1%*	31.7%*	3
JF-PLSD-PS-24B DL	59.8%	70.1%	72.7%	62.2%	47.8%	22.4%	16.6%*	44.2%	1
JF-PLSD-PS-37-7	64.0%	68.0%	74.0%	53.6%	49.9%	35.5%	48.3%	48.8%	0
JF-PLSD-PS-37-2	78.0%	84.5%	88.2%	68.8%	74.2%	57.0%	80.8%	72.9%	0
JF-PLSD-PS-PUBLIC	77.4%	88.2%	136%*	71.5%	74.7%	51.7%	76.3%	71.0%	1
JF-PLSD-PS-24B-D	69.6%	73.6%	74.0%	64.0%	46.4%	22.4%	24.7%*	44.8%	1
MB-020211	70.8%	65.2%	80.0%	67.6%	69.9%	65.6%	62.7%	70.4%	0
LCS-020211	69.6%	66.8%	81.6%	64.4%	67.2%	61.6%	69.9%	66.7%	0
LCSD-020211	71.2%	68.8%	79.2%	60.8%	66.7%	59.7%	72.3%	62.7%	0
JF-PLSD-PS-37-7-M	61.2%	62.8%	80.8%	54.0%	59.2%	53.1%	66.9%	57.6%	0
JF-PLSD-PS-37-7-M DL	56.4%	62.0%	66.2%	52.1%	57.4%	48.7%	60.7%	53.5%	0
JF-PLSD-PS-37-7-M MS	63.6%	67.6%	89.6%	60.8%	64.3%	56.3%	71.2%	62.9%	0
JF-PLSD-PS-37-7-M MSD	63.6%	69.6%	85.2%	58.8%	60.8%	54.1%	71.2%	58.4%	0

	LCS/MB LIMITS	QC LIMITS
(NBZ) = d5-Nitrobenzene	(46-102)	(32-106)
(FBP) = 2-Fluorobiphenyl	(51-105)	(39-107)
(TPH) = d14-p-Terphenyl	(55-124)	(31-130)
(DCB) = d4-1,2-Dichlorobenzene	(48-104)	(38-102)
(PHL) = d5-Phenol	(44-110)	(27-112)
(2FP) = 2-Fluorophenol	(38-112)	(22-108)
(TBP) = 2,4,6-Tribromophenol	(54-120)	(31-131)
(2CP) = d4-2-Chlorophenol	(50-103)	(36-104)

Prep Method: SW3546
Log Number Range: 11-1522 to 11-1530

FORM-II SW8270

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS

Sample ID: LCS-020211
LCS/LCSD

Lab Sample ID: LCS-020211
LIMS ID: 11-1530
Matrix: Soil
Data Release Authorized:
Reported: 02/09/11

QC Report No: SG07-The Boeing Company
Project: Jorgensen Forge
7KPL2JOR
Date Sampled: 01/24/11
Date Received: 01/24/11

Date Extracted LCS/LCSD: 02/02/11

Date Analyzed LCS: 02/04/11 16:18
LCSD: 02/04/11 17:24
Instrument/Analyst LCS: NT4/JZ
LCSD: NT4/JZ
GPC Cleanup: Yes

Sample Amount LCS: 7.50 g
LCSD: 7.50 g
Final Extract Volume LCS: 0.5 mL
LCSD: 0.5 mL
Dilution Factor LCS: 1.00
LCSD: 1.00
Percent Moisture: NA

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Phenol	1250	1670	74.9%	1240	1670	74.3%	0.8%
Bis-(2-Chloroethyl) Ether	1140	1670	68.3%	1060	1670	63.5%	7.3%
2-Chlorophenol	1130	1670	67.7%	1110	1670	66.5%	1.8%
1,3-Dichlorobenzene	976	1670	58.4%	975	1670	58.4%	0.1%
1,4-Dichlorobenzene	991	1670	59.3%	971	1670	58.1%	2.0%
Benzyl Alcohol	1870	3330	56.2%	2000	3330	60.1%	6.7%
1,2-Dichlorobenzene	983	1670	58.9%	1030	1670	61.7%	4.7%
2-Methylphenol	981	1670	58.7%	1030	1670	61.7%	4.9%
2,2'-Oxybis(1-Chloropropane)	1090	1670	65.3%	1080	1670	64.7%	0.9%
4-Methylphenol	1910	3330	57.4%	2030	3330	61.0%	6.1%
N-Nitroso-Di-N-Propylamine	1090	1670	65.3%	1080	1670	64.7%	0.9%
Hexachloroethane	1040	1670	62.3%	1050	1670	62.9%	1.0%
Nitrobenzene	1170	1670	70.1%	1170	1670	70.1%	0.0%
Isophorone	1320	1670	79.0%	1320	1670	79.0%	0.0%
2-Nitrophenol	1130	1670	67.7%	1180	1670	70.7%	4.3%
2,4-Dimethylphenol	1050	1670	62.9%	1120	1670	67.1%	6.5%
Benzoic Acid	3120	5000	62.4%	3000	5000	60.0%	3.9%
bis(2-Chloroethoxy) Methane	1100	1670	65.9%	1160	1670	69.5%	5.3%
2,4-Dichlorophenol	1240	1670	74.3%	1230	1670	73.7%	0.8%
1,2,4-Trichlorobenzene	1110	1670	66.5%	1130	1670	67.7%	1.8%
Naphthalene	1220	1670	73.1%	1250	1670	74.9%	2.4%
4-Chloroaniline	2930	4000	73.2%	3030	4000	75.8%	3.4%
Hexachlorobutadiene	1150	1670	68.9%	1190	1670	71.3%	3.4%
4-Chloro-3-methylphenol	1250	1670	74.9%	1250	1670	74.9%	0.0%
2-Methylnaphthalene	1060	1670	63.5%	1100	1670	65.9%	3.7%
Hexachlorocyclopentadiene	3290	5000	65.8%	3610	5000	72.2%	9.3%
2,4,6-Trichlorophenol	1140	1670	68.3%	1250	1670	74.9%	9.2%
2,4,5-Trichlorophenol	1010	1670	60.5%	1090	1670	65.3%	7.6%
2-Chloronaphthalene	1120	1670	67.1%	1190	1670	71.3%	6.1%
2-Nitroaniline	1170	1670	70.1%	1270	1670	76.0%	8.2%
Dimethylphthalate	1130	1670	67.7%	1200	1670	71.9%	6.0%
Acenaphthylene	1200	1670	71.9%	1250	1670	74.9%	4.1%
3-Nitroaniline	3160	4270	74.0%	3350	4270	78.5%	5.8%
Acenaphthene	1140	1670	68.3%	1200	1670	71.9%	5.1%

FORM III

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS

Sample ID: LCSD-020211
LCS/LCSD

Lab Sample ID: LCS-020211
LIMS ID: 11-1530
Matrix: Soil
Date Analyzed LCS: 02/04/11 16:18
LCSD: 02/04/11 17:24

QC Report No: SG07-The Boeing Company
Project: Jorgensen Forge
7KPL2JOR

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
2,4-Dinitrophenol	3880	5000	77.6%	4210	5000	84.2%	8.2%
4-Nitrophenol	1240	1670	74.3%	1290	1670	77.2%	4.0%
Dibenzofuran	1130	1670	67.7%	1140	1670	68.3%	0.9%
2,6-Dinitrotoluene	1130	1670	67.7%	1220	1670	73.1%	7.7%
2,4-Dinitrotoluene	1140	1670	68.3%	1150	1670	68.9%	0.9%
Diethylphthalate	1140	1670	68.3%	1210	1670	72.5%	6.0%
4-Chlorophenyl-phenylether	1120	1670	67.1%	1190	1670	71.3%	6.1%
Fluorene	1190	1670	71.3%	1250	1670	74.9%	4.9%
4-Nitroaniline	915	1670	54.8%	984	1670	58.9%	7.3%
4,6-Dinitro-2-Methylphenol	3460	5000	69.2%	3790	5000	75.8%	9.1%
N-Nitrosodiphenylamine	1180	1670	70.7%	1230	1670	73.7%	4.1%
4-Bromophenyl-phenylether	1160	1670	69.5%	1260	1670	75.4%	8.3%
Hexachlorobenzene	1190	1670	71.3%	1250	1670	74.9%	4.9%
Pentachlorophenol	1230	1670	73.7%	1350	1670	80.8%	9.3%
Phenanthrene	1290	1670	77.2%	1370	1670	82.0%	6.0%
Carbazole	1110	1670	66.5%	1160	1670	69.5%	4.4%
Anthracene	1240	1670	74.3%	1300	1670	77.8%	4.7%
Di-n-Butylphthalate	1200	1670	71.9%	1210	1670	72.5%	0.8%
Fluoranthene	1290	1670	77.2%	1260	1670	75.4%	2.4%
Pyrene	1400	1670	83.8%	1410	1670	84.4%	0.7%
Butylbenzylphthalate	1330	1670	79.6%	1360	1670	81.4%	2.2%
3,3'-Dichlorobenzidine	3110	4270	72.8%	3220	4270	75.4%	3.5%
Benzo(a)anthracene	1240	1670	74.3%	1250	1670	74.9%	0.8%
bis(2-Ethylhexyl)phthalate	1190 B	1670	71.3%	1210 B	1670	72.5%	1.7%
Chrysene	1350	1670	80.8%	1350	1670	80.8%	0.0%
Di-n-Octyl phthalate	1090	1670	65.3%	1100	1670	65.9%	0.9%
Benzo(a)pyrene	1250	1670	74.9%	1270	1670	76.0%	1.6%
Indeno(1,2,3-cd)pyrene	1870 Q	1670	112%	1850 Q	1670	111%	1.1%
Dibenz(a,h)anthracene	1930 Q	1670	116%	1880 Q	1670	113%	2.6%
Benzo(g,h,i)perylene	1950 Q	1670	117%	1890 Q	1670	113%	3.1%
1-Methylnaphthalene	1130	1670	67.7%	1170	1670	70.1%	3.5%
Total Benzofluoranthenes	2670	3330	80.2%	2620	3330	78.7%	1.9%

Semivolatile Surrogate Recovery

	LCS	LCSD
d5-Nitrobenzene	69.6%	71.2%
2-Fluorobiphenyl	66.8%	68.8%
d14-p-Terphenyl	81.6%	79.2%
d4-1,2-Dichlorobenzene	64.4%	60.8%
d5-Phenol	67.2%	66.7%
2-Fluorophenol	61.6%	59.7%
2,4,6-Tribromophenol	69.9%	72.3%
d4-2-Chlorophenol	66.7%	62.7%

Reported in µg/kg (ppb)
RPD calculated using sample concentrations per SW846.

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS

Sample ID: LCS-020811
LCS/LCSD

Lab Sample ID: LCS-020811
LIMS ID: 11-1523
Matrix: Soil
Data Release Authorized:
Reported: 02/10/11

QC Report No: SG07-The Boeing Company
Project: Jorgensen Forge
7KPL2JOR
Date Sampled: 01/24/11
Date Received: 01/24/11

Date Extracted LCS/LCSD: 02/08/11

Date Analyzed LCS: 02/10/11 13:20
LCSD: 02/10/11 13:53
Instrument/Analyst LCS: NT4/JZ
LCSD: NT4/JZ
GPC Cleanup: Yes

Sample Amount LCS: 7.50 g
LCSD: 7.50 g
Final Extract Volume LCS: 0.5 mL
LCSD: 0.5 mL
Dilution Factor LCS: 1.00
LCSD: 1.00
Percent Moisture: NA

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Phenol	1490	1670	89.2%	1450	1670	86.8%	2.7%
Bis-(2-Chloroethyl) Ether	1250	1670	74.9%	1230	1670	73.7%	1.6%
2-Chlorophenol	1250	1670	74.9%	1250	1670	74.9%	0.0%
1,3-Dichlorobenzene	1080	1670	64.7%	1100	1670	65.9%	1.8%
1,4-Dichlorobenzene	1090	1670	65.3%	1080	1670	64.7%	0.9%
Benzyl Alcohol	2240	3330	67.3%	2260	3330	67.9%	0.9%
1,2-Dichlorobenzene	1100	1670	65.9%	1130	1670	67.7%	2.7%
2-Methylphenol	1140	1670	68.3%	1140	1670	68.3%	0.0%
2,2'-Oxybis(1-Chloropropane)	1280	1670	76.6%	1260	1670	75.4%	1.6%
4-Methylphenol	2300	3330	69.1%	2320	3330	69.7%	0.9%
N-Nitroso-Di-N-Propylamine	1270	1670	76.0%	1270	1670	76.0%	0.0%
Hexachloroethane	1160	1670	69.5%	1140	1670	68.3%	1.7%
Nitrobenzene	1280	1670	76.6%	1300	1670	77.8%	1.6%
Isophorone	1460	1670	87.4%	1510	1670	90.4%	3.4%
2-Nitrophenol	1320	1670	79.0%	1320	1670	79.0%	0.0%
2,4-Dimethylphenol	1230	1670	73.7%	1270	1670	76.0%	3.2%
Benzoic Acid	2280	5000	45.6%	2770	5000	55.4%	19.4%
bis(2-Chloroethoxy) Methane	1290	1670	77.2%	1290	1670	77.2%	0.0%
2,4-Dichlorophenol	1340	1670	80.2%	1360	1670	81.4%	1.5%
1,2,4-Trichlorobenzene	1110	1670	66.5%	1170	1670	70.1%	5.3%
Naphthalene	1290	1670	77.2%	1310	1670	78.4%	1.5%
4-Chloroaniline	3430	4000	85.8%	3500	4000	87.5%	2.0%
Hexachlorobutadiene	1170	1670	70.1%	1250	1670	74.9%	6.6%
4-Chloro-3-methylphenol	1510	1670	90.4%	1590	1670	95.2%	5.2%
2-Methylnaphthalene	1180	1670	70.7%	1230	1670	73.7%	4.1%
Hexachlorocyclopentadiene	3560	5000	71.2%	3570	5000	71.4%	0.3%
2,4,6-Trichlorophenol	1310	1670	78.4%	1330	1670	79.6%	1.5%
2,4,5-Trichlorophenol	1170	1670	70.1%	1140	1670	68.3%	2.6%
2-Chloronaphthalene	1190	1670	71.3%	1230	1670	73.7%	3.3%
2-Nitroaniline	1400 Q	1670	83.8%	1480 Q	1670	88.6%	5.6%
Dimethylphthalate	1340	1670	80.2%	1320	1670	79.0%	1.5%
Acenaphthylene	1330	1670	79.6%	1320	1670	79.0%	0.8%
3-Nitroaniline	4160	4270	97.4%	4200	4270	98.4%	1.0%
Acenaphthene	1310	1670	78.4%	1280	1670	76.6%	2.3%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS

Sample ID: LCSD-020811
LCS/LCSD

Lab Sample ID: LCS-020811
LIMS ID: 11-1523
Matrix: Soil
Date Analyzed LCS: 02/10/11 13:20
LCSD: 02/10/11 13:53

QC Report No: SG07-The Boeing Company
Project: Jorgensen Forge
7KPL2JOR

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
2,4-Dinitrophenol	4460	5000	89.2%	4770 Q	5000	95.4%	6.7%
4-Nitrophenol	1680 Q	1670	101%	1610	1670	96.4%	4.3%
Dibenzofuran	1240	1670	74.3%	1240	1670	74.3%	0.0%
2,6-Dinitrotoluene	1320	1670	79.0%	1340	1670	80.2%	1.5%
2,4-Dinitrotoluene	1390	1670	83.2%	1370	1670	82.0%	1.4%
Diethylphthalate	1400	1670	83.8%	1400	1670	83.8%	0.0%
4-Chlorophenyl-phenylether	1270	1670	76.0%	1300	1670	77.8%	2.3%
Fluorene	1350	1670	80.8%	1390	1670	83.2%	2.9%
4-Nitroaniline	1320	1670	79.0%	1370	1670	82.0%	3.7%
4,6-Dinitro-2-Methylphenol	4200	5000	84.0%	4570	5000	91.4%	8.4%
N-Nitrosodiphenylamine	1310	1670	78.4%	1300	1670	77.8%	0.8%
4-Bromophenyl-phenylether	1270	1670	76.0%	1320	1670	79.0%	3.9%
Hexachlorobenzene	1270	1670	76.0%	1320	1670	79.0%	3.9%
Pentachlorophenol	1090	1670	65.3%	1240	1670	74.3%	12.9%
Phenanthrene	1430	1670	85.6%	1470	1670	88.0%	2.8%
Carbazole	1300	1670	77.8%	1390	1670	83.2%	6.7%
Anthracene	1400	1670	83.8%	1430	1670	85.6%	2.1%
Di-n-Butylphthalate	1320	1670	79.0%	1380	1670	82.6%	4.4%
Fluoranthene	1410	1670	84.4%	1450	1670	86.8%	2.8%
Pyrene	1570	1670	94.0%	1590	1670	95.2%	1.3%
Butylbenzylphthalate	1580	1670	94.6%	1560	1670	93.4%	1.3%
3,3'-Dichlorobenzidine	3510	4270	82.2%	3510	4270	82.2%	0.0%
Benzo(a)anthracene	1370	1670	82.0%	1350	1670	80.8%	1.5%
bis(2-Ethylhexyl)phthalate	1240	1670	74.3%	1250	1670	74.9%	0.8%
Chrysene	1490	1670	89.2%	1510	1670	90.4%	1.3%
Di-n-Octyl phthalate	1010	1670	60.5%	1010	1670	60.5%	0.0%
Benzo(a)pyrene	1420	1670	85.0%	1440	1670	86.2%	1.4%
Indeno(1,2,3-cd)pyrene	1650	1670	98.8%	1660	1670	99.4%	0.6%
Dibenz(a,h)anthracene	1660	1670	99.4%	1710	1670	102%	3.0%
Benzo(g,h,i)perylene	1550	1670	92.8%	1580	1670	94.6%	1.9%
1-Methylnaphthalene	1280	1670	76.6%	1300	1670	77.8%	1.6%
Total Benzofluoranthenes	3120	3330	93.7%	3160	3330	94.9%	1.3%

Semivolatile Surrogate Recovery

	LCS	LCSD
d5-Nitrobenzene	78.8%	79.6%
2-Fluorobiphenyl	71.6%	69.2%
d14-p-Terphenyl	92.0%	88.8%
d4-1,2-Dichlorobenzene	71.2%	69.6%
d5-Phenol	76.0%	70.4%
2-Fluorophenol	65.1%	66.9%
2,4,6-Tribromophenol	81.6%	78.1%
d4-2-Chlorophenol	69.9%	70.9%

Reported in µg/kg (ppb)
RPD calculated using sample concentrations per SW846.

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS

Sample ID: JF-PLSD-PS-37-7-M
MS/MSD

Lab Sample ID: SG07I
LIMS ID: 11-1530
Matrix: Soil
Data Release Authorized:
Reported: 02/11/11

QC Report No: SG07-The Boeing Company
Project: Jorgensen Forge
7KPL2JOR
Date Sampled: 01/24/11
Date Received: 01/24/11

Date Extracted MS/MSD: 02/02/11

Date Analyzed MS: 02/07/11 17:56
MSD: 02/07/11 18:28
Instrument/Analyst MS: NT4/JZ
MSD: NT4/JZ
GPC Cleanup: Yes

Sample Amount MS: 7.81 g-dry-wt
MSD: 7.70 g-dry-wt
Final Extract Volume MS: 0.5 mL
MSD: 0.5 mL
Dilution Factor MS: 1.00
MSD: 1.00
Percent Moisture: 45.4 %

Analyte	Sample	MS	Spike Added-MS	MS Recovery	MSD	Spike Added-MSD	MSD Recovery	RPD
Phenol	94.9	1160	1600	66.6%	1250	1620	71.3%	7.5%
Bis-(2-Chloroethyl) Ether	< 65.0 U	1050	1600	65.6%	974	1620	60.1%	7.5%
2-Chlorophenol	< 65.0 U	1040	1600	65.0%	1010	1620	62.3%	2.9%
1,3-Dichlorobenzene	< 65.0 U	863	1600	53.9%	858	1620	53.0%	0.6%
1,4-Dichlorobenzene	< 65.0 U	872	1600	54.5%	914	1620	56.4%	4.7%
Benzyl Alcohol	< 325 U	1870	3200	58.4%	1860	3250	57.2%	0.5%
1,2-Dichlorobenzene	< 65.0 U	891	1600	55.7%	895	1620	55.2%	0.4%
2-Methylphenol	< 65.0 U	809	1600	50.6%	784	1620	48.4%	3.1%
2,2'-Oxybis(1-Chloropropane	< 65.0 U	1020	1600	63.8%	1010	1620	62.3%	1.0%
4-Methylphenol	< 65.0 U	1830	3200	57.2%	1710	3250	52.6%	6.8%
N-Nitroso-Di-N-Propylamine	< 65.0 U	1030	1600	64.4%	996	1620	61.5%	3.4%
Hexachloroethane	< 65.0 U	890	1600	55.6%	827	1620	51.0%	7.3%
Nitrobenzene	< 65.0 U	1010	1600	63.1%	1090	1620	67.3%	7.6%
Isophorone	< 65.0 U	1110	1600	69.4%	1190	1620	73.5%	7.0%
2-Nitrophenol	< 65.0 U	962	1600	60.1%	1090	1620	67.3%	12.5%
2,4-Dimethylphenol	< 65.0 U	232	1600	14.5%	205	1620	12.7%	12.4%
Benzoic Acid	< 650 U	1230	4800	25.6%	860	4870	17.7%	35.4%
bis(2-Chloroethoxy) Methane	< 65.0 U	985	1600	61.6%	1070	1620	66.0%	8.3%
2,4-Dichlorophenol	< 325 U	1090	1600	68.1%	1120	1620	69.1%	2.7%
1,2,4-Trichlorobenzene	< 65.0 U	967	1600	60.4%	1020	1620	63.0%	5.3%
Naphthalene	160	1190	1600	64.4%	1220	1620	65.4%	2.5%
4-Chloroaniline	< 325 U	339	3840	8.8%	958	3900	24.6%	95.5%
Hexachlorobutadiene	< 65.0 U	1040	1600	65.0%	1070	1620	66.0%	2.8%
4-Chloro-3-methylphenol	< 325 U	1070	1600	66.9%	1160	1620	71.6%	8.1%
2-Methylnaphthalene	174	1090	1600	57.2%	1140	1620	59.6%	4.5%
Hexachlorocyclopentadiene	< 325 U	< 320 U	4800	NA	471	4870	9.7%	NA
2,4,6-Trichlorophenol	< 325 U	1100	1600	68.8%	1170	1620	72.2%	6.2%
2,4,5-Trichlorophenol	< 325 U	1010	1600	63.1%	1020	1620	63.0%	1.0%
2-Chloronaphthalene	< 65.0 U	1130	1600	70.6%	1140	1620	70.4%	0.9%
2-Nitroaniline	< 325 U	1230	1600	76.9%	1240	1620	76.5%	0.8%
Dimethylphthalate	< 65.0 U	1130	1600	70.6%	1150	1620	71.0%	1.8%
Acenaphthylene	< 65.0 U	1200	1600	75.0%	1240	1620	76.5%	3.3%
3-Nitroaniline	< 325 U	988	4100	24.1%	2020	4160	48.6%	68.6%
Acenaphthene	1040	1280	1600	15.0%	1280	1620	14.8%	0.0%
2,4-Dinitrophenol	< 650 U	< 640 U	4800	NA	< 649 U	4870	NA	NA
4-Nitrophenol	< 325 U	1030 Q	1600	64.4%	1060 Q	1620	65.4%	2.9%
Dibenzofuran	447	1220	1600	48.3%	1220	1620	47.7%	0.0%
2,6-Dinitrotoluene	< 325 U	1090	1600	68.1%	1150	1620	71.0%	5.4%
2,4-Dinitrotoluene	< 325 U	1100	1600	68.8%	1130	1620	69.8%	2.7%
Diethylphthalate	< 65.0 U	1140	1600	71.2%	1140	1620	70.4%	0.0%
4-Chlorophenyl-phenylether	< 65.0 U	1130	1600	70.6%	1130	1620	69.8%	0.0%
Fluorene	754	1390	1600	39.8%	1440	1620	42.3%	3.5%
4-Nitroaniline	< 325 U	< 320 U	1600	NA	401	1620	24.8%	NA
4,6-Dinitro-2-Methylphenol	< 650 U	< 640 U	4800	NA	< 649 U	4870	NA	NA
N-Nitrosodiphenylamine	< 65.0 U	952	1600	59.5%	945	1620	58.3%	0.7%

FORM III

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS

Sample ID: JF-PLSD-PS-37-7-M
MS/MSD

Lab Sample ID: SG07I
LIMS ID: 11-1530
Matrix: Soil
Date Analyzed MS: 02/07/11 17:56
MSD: 02/07/11 18:28

QC Report No: SG07-The Boeing Company
Project: Jorgensen Forge
7KPL2JOR

Analyte	Sample	MS	Spike Added-MS	MS Recovery	MSD	Spike Added-MSD	MSD Recovery	RPD
4-Bromophenyl-phenylether	< 65.0 U	948	1600	59.2%	912	1620	56.3%	3.9%
Hexachlorobenzene	< 65.0 U	992	1600	62.0%	937	1620	57.8%	5.7%
Pentachlorophenol	< 325 U	1050	1600	65.6%	980	1620	60.5%	6.9%
Phenanthrene	3250	2500	1600	NA	2740	1620	NA	9.2%
Carbazole	492	1230	1600	46.1%	1260	1620	47.4%	2.4%
Anthracene	736	1280	1600	34.0%	1400	1620	41.0%	9.0%
Di-n-Butylphthalate	508	1350	1600	52.6%	1440	1620	57.5%	6.5%
Fluoranthene	4460	3500	1600	NA	4210	1620	NA	18.4%
Pyrene	4790	4220	1600	NA	4710	1620	NA	11.0%
Butylbenzylphthalate	270	1330	1600	66.2%	1500	1620	75.9%	12.0%
3,3'-Dichlorobenzidine	< 325 U	< 320 U	4100	NA	771	4160	18.5%	NA
Benzo(a)anthracene	2090	2150	1600	3.8%	2590	1620	30.9%	18.6%
bis(2-Ethylhexyl)phthalate	962 B	2180 B	1600	76.1%	2110 B	1620	70.9%	3.3%
Chrysene	2550	2890	1600	21.2%	2810	1620	16.0%	2.8%
Di-n-Octyl phthalate	< 65.0 U	898	1600	56.1%	1100	1620	67.9%	20.2%
Benzo(a)pyrene	2370	2580	1600	13.1%	3030	1620	40.7%	16.0%
Indeno(1,2,3-cd)pyrene	909	1420	1600	31.9%	1550	1620	39.6%	8.8%
Dibenz(a,h)anthracene	118 Q	1110 Q	1600	62.0%	1220 Q	1620	68.0%	9.4%
Benzo(g,h,i)perylene	945 Q	1330 Q	1600	24.1%	1440 Q	1620	30.6%	7.9%
1-Methylnaphthalene	154	1120	1600	60.4%	1200	1620	64.6%	6.9%
Total Benzofluoranthenes	6350	8660	3200	72.2%	10200	3250	118%	16.3%

Reported in µg/kg (ppb)
RPD calculated using sample concentrations per SW846.
NA-No recovery due to high concentration of analyte in original sample and/or calculated negative recovery.

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: JF-PLSD-PS-15A
SAMPLE

Lab Sample ID: SG07A
LIMS ID: 11-1522
Matrix: Soil
Data Release Authorized:
Reported: 02/07/11

QC Report No: SG07-The Boeing Company
Project: Jorgensen Forge
7KPL2JOR
Date Sampled: 01/24/11
Date Received: 01/24/11

Percent Total Solids: 78.6%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	01/26/11	6010B	02/01/11	**7440-38-2**	**Arsenic**	30	**30**	
3050B	01/26/11	6010B	02/01/11	7440-43-9	Cadmium	1	1	U
3050B	01/26/11	6010B	02/01/11	**7440-50-8**	**Copper**	1	**838**	
3050B	01/26/11	6010B	02/01/11	**7439-92-1**	**Lead**	10	**180**	
3050B	01/26/11	6010B	02/01/11	**7440-02-0**	**Nickel**	6	**1,590**	
3050B	01/26/11	6010B	02/01/11	**7440-66-6**	**Zinc**	6	**698**	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: JF-PLSD-PS-15B
SAMPLE

Lab Sample ID: SG07B
LIMS ID: 11-1523
Matrix: Soil
Data Release Authorized:
Reported: 02/07/11

QC Report No: SG07-The Boeing Company
Project: Jorgensen Forge
7KPL2JOR
Date Sampled: 01/24/11
Date Received: 01/24/11

Percent Total Solids: 70.4%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	01/26/11	6010B	02/01/11	**7440-38-2**	**Arsenic**	30	**70**	
3050B	01/26/11	6010B	02/01/11	**7440-43-9**	**Cadmium**	1	**21**	
3050B	01/26/11	6010B	02/01/11	**7440-50-8**	**Copper**	1	**4,060**	
3050B	01/26/11	6010B	02/01/11	**7439-92-1**	**Lead**	10	**1,410**	
3050B	01/26/11	6010B	02/01/11	**7440-02-0**	**Nickel**	7	**837**	
3050B	01/26/11	6010B	02/01/11	**7440-66-6**	**Zinc**	7	**5,490**	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: JF-PLSD-PS-24A
SAMPLE

Lab Sample ID: SG07C
LIMS ID: 11-1524
Matrix: Soil
Data Release Authorized:
Reported: 02/07/11

QC Report No: SG07-The Boeing Company
Project: Jorgensen Forge
7KPL2JOR
Date Sampled: 01/24/11
Date Received: 01/24/11

Percent Total Solids: 81.4%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	01/26/11	6010B	02/01/11	7440-38-2	Arsenic	30	30	U
3050B	01/26/11	6010B	02/01/11	7440-43-9	Cadmium	1	1	U
3050B	01/26/11	6010B	02/01/11	**7440-50-8**	**Copper**	1	**333**	
3050B	01/26/11	6010B	02/01/11	**7439-92-1**	**Lead**	10	**80**	
3050B	01/26/11	6010B	02/01/11	**7440-02-0**	**Nickel**	6	**648**	
3050B	01/26/11	6010B	02/01/11	**7440-66-6**	**Zinc**	6	**789**	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: JF-PLSD-PS-24B
SAMPLE

Lab Sample ID: SG07D
LIMS ID: 11-1525
Matrix: Soil
Data Release Authorized
Reported: 02/07/11

QC Report No: SG07-The Boeing Company
Project: Jorgensen Forge
7KPL2JOR
Date Sampled: 01/24/11
Date Received: 01/24/11

Percent Total Solids: 63.6%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	01/26/11	6010B	02/01/11	**7440-38-2**	**Arsenic**	20	**40**	
3050B	01/26/11	6010B	02/01/11	**7440-43-9**	**Cadmium**	0.8	**0.8**	
3050B	01/26/11	6010B	02/01/11	**7440-50-8**	**Copper**	0.8	**190**	
3050B	01/26/11	6010B	02/01/11	**7439-92-1**	**Lead**	8	**335**	
3050B	01/26/11	6010B	02/01/11	**7440-02-0**	**Nickel**	4	**136**	
3050B	01/26/11	6010B	02/01/11	**7440-66-6**	**Zinc**	4	**367**	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: JF-PLSD-PS-37-7
SAMPLE

Lab Sample ID: SG07E
LIMS ID: 11-1526
Matrix: Soil
Data Release Authorized:
Reported: 02/07/11

QC Report No: SG07-The Boeing Company
Project: Jorgensen Forge
7KPL2JOR
Date Sampled: 01/24/11
Date Received: 01/24/11

Percent Total Solids: 44.1%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	01/26/11	6010B	02/01/11	**7440-38-2**	**Arsenic**	10	**40**	
3050B	01/26/11	6010B	02/01/11	**7440-43-9**	**Cadmium**	0.4	**2.8**	
3050B	01/26/11	6010B	02/01/11	**7440-50-8**	**Copper**	0.4	**271**	
3050B	01/26/11	6010B	02/01/11	**7439-92-1**	**Lead**	4	**839**	
3050B	01/26/11	6010B	02/01/11	**7440-02-0**	**Nickel**	2	**97**	
3050B	01/26/11	6010B	02/01/11	**7440-66-6**	**Zinc**	2	**749**	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: JF-PLSD-PS-37-2
SAMPLE

Lab Sample ID: SG07F
LIMS ID: 11-1527
Matrix: Soil
Data Release Authorized:
Reported: 02/07/11

QC Report No: SG07-The Boeing Company
Project: Jorgensen Forge
7KPL2JOR
Date Sampled: 01/24/11
Date Received: 01/24/11

Percent Total Solids: 64.1%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	01/26/11	6010B	02/01/11	**7440-38-2**	**Arsenic**	8	**45**	
3050B	01/26/11	6010B	02/01/11	**7440-43-9**	**Cadmium**	0.3	**9.2**	
3050B	01/26/11	6010B	02/01/11	**7440-50-8**	**Copper**	0.3	**332**	
3050B	01/26/11	6010B	02/01/11	**7439-92-1**	**Lead**	3	**1,000**	
3050B	01/26/11	6010B	02/01/11	**7440-02-0**	**Nickel**	2	**154**	
3050B	01/26/11	6010B	02/01/11	**7440-66-6**	**Zinc**	2	**822**	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: JF-PLSD-PS-PUBLIC SAMPLE

Lab Sample ID: SG07G
LIMS ID: 11-1528
Matrix: Soil
Data Release Authorized:
Reported: 02/07/11

QC Report No: SG07-The Boeing Company
Project: Jorgensen Forge 7KPL2JOR
Date Sampled: 01/24/11
Date Received: 01/24/11

Percent Total Solids: 67.8%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	01/26/11	6010B	02/01/11	**7440-38-2**	**Arsenic**	20	**30**	
3050B	01/26/11	6010B	02/01/11	**7440-43-9**	**Cadmium**	0.7	**4.0**	
3050B	01/26/11	6010B	02/01/11	**7440-50-8**	**Copper**	0.7	**159**	
3050B	01/26/11	6010B	02/01/11	**7439-92-1**	**Lead**	7	**358**	
3050B	01/26/11	6010B	02/01/11	**7440-02-0**	**Nickel**	3	**64**	
3050B	01/26/11	6010B	02/01/11	**7440-66-6**	**Zinc**	3	**569**	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: JF-PLSD-PS-24B-D
SAMPLE

Lab Sample ID: SG07H
LIMS ID: 11-1529
Matrix: Soil
Data Release Authorized:
Reported: 02/07/11

QC Report No: SG07-The Boeing Company
Project: Jorgensen Forge
7KPL2JOR
Date Sampled: 01/24/11
Date Received: 01/24/11

Percent Total Solids: 59.6%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	01/26/11	6010B	02/01/11	**7440-38-2**	**Arsenic**	8	**34**	
3050B	01/26/11	6010B	02/01/11	**7440-43-9**	**Cadmium**	0.3	**1.1**	
3050B	01/26/11	6010B	02/01/11	**7440-50-8**	**Copper**	0.3	**265**	
3050B	01/26/11	6010B	02/01/11	**7439-92-1**	**Lead**	3	**420**	
3050B	01/26/11	6010B	02/01/11	**7440-02-0**	**Nickel**	2	**174**	
3050B	01/26/11	6010B	02/01/11	**7440-66-6**	**Zinc**	2	**441**	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: JF-PLSD-PS-37-7-M
SAMPLE

Lab Sample ID: SG07I
LIMS ID: 11-1530
Matrix: Soil
Data Release Authorized:
Reported: 02/07/11

QC Report No: SG07-The Boeing Company
Project: Jorgensen Forge
7KPL2JOR
Date Sampled: 01/24/11
Date Received: 01/24/11

Percent Total Solids: 43.9%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	01/26/11	6010B	02/01/11	**7440-38-2**	**Arsenic**	10	**40**	
3050B	01/26/11	6010B	02/01/11	**7440-43-9**	**Cadmium**	0.4	**2.5**	
3050B	01/26/11	6010B	02/01/11	**7440-50-8**	**Copper**	0.4	**281**	
3050B	01/26/11	6010B	02/01/11	**7439-92-1**	**Lead**	4	**713**	
3050B	01/26/11	6010B	02/01/11	**7440-02-0**	**Nickel**	2	**90**	
3050B	01/26/11	6010B	02/01/11	**7440-66-6**	**Zinc**	2	**720**	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: JF-PLSD-PS-37-7-M
DUPLICATE

Lab Sample ID: SG07I
LIMS ID: 11-1530
Matrix: Soil
Data Release Authorized:
Reported: 02/07/11

QC Report No: SG07-The Boeing Company
Project: Jorgensen Forge
7KPL2JOR
Date Sampled: 01/24/11
Date Received: 01/24/11

MATRIX DUPLICATE QUALITY CONTROL REPORT

Analyte	Analysis Method	Sample	Duplicate	RPD	Control Limit	Q
Arsenic	6010B	40	40	0.0%	+/- 10	L
Cadmium	6010B	2.5	2.1	17.4%	+/- 20%	
Copper	6010B	281	243	14.5%	+/- 20%	
Lead	6010B	713	698	2.1%	+/- 20%	
Nickel	6010B	90	88	2.2%	+/- 20%	
Zinc	6010B	720	733	1.8%	+/- 20%	

Reported in mg/kg-dry

*-Control Limit Not Met
L-RPD Invalid, Limit = Detection Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: JF-PLSD-PS-37-7-M
MATRIX SPIKE

Lab Sample ID: SG07I
LIMS ID: 11-1530
Matrix: Soil
Data Release Authorized:
Reported: 02/07/11

QC Report No: SG07-The Boeing Company
Project: Jorgensen Forge
7KPL2JOR
Date Sampled: 01/24/11
Date Received: 01/24/11

MATRIX SPIKE QUALITY CONTROL REPORT

Analyte	Analysis Method	Sample	Spike	Spike Added	% Recovery	Q
Arsenic	6010B	40	440	420	95.2%	
Cadmium	6010B	2.5	102	105	94.8%	
Copper	6010B	281	350	105	65.7%	N
Lead	6010B	713	1,100	420	92.1%	
Nickel	6010B	90	194	105	99.0%	
Zinc	6010B	720	813	105	88.6%	H

Reported in mg/kg-dry

N-Control Limit Not Met
H-% Recovery Not Applicable, Sample Concentration Too High
NA-Not Applicable, Analyte Not Spiked

Percent Recovery Limits: 75-125%

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: METHOD BLANK

Lab Sample ID: SG07MB
LIMS ID: 11-1522
Matrix: Soil
Data Release Authorized:
Reported: 02/07/11

QC Report No: SG07-The Boeing Company
Project: Jorgensen Forge
7KPL2JOR
Date Sampled: NA
Date Received: NA

Percent Total Solids: NA

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	01/26/11	6010B	02/01/11	7440-38-2	Arsenic	5	5	U
3050B	01/26/11	6010B	02/01/11	7440-43-9	Cadmium	0.2	0.2	U
3050B	01/26/11	6010B	02/01/11	7440-50-8	Copper	0.2	0.2	U
3050B	01/26/11	6010B	02/01/11	7439-92-1	Lead	2	2	U
3050B	01/26/11	6010B	02/01/11	7440-02-0	Nickel	1	1	U
3050B	01/26/11	6010B	02/01/11	7440-66-6	Zinc	1	1	U

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: LAB CONTROL

Lab Sample ID: SG07LCS
LIMS ID: 11-1522
Matrix: Soil
Data Release Authorized:
Reported: 02/07/11

QC Report No: SG07-The Boeing Company
Project: Jorgensen Forge
7KPL2JOR
Date Sampled: NA
Date Received: NA

BLANK SPIKE QUALITY CONTROL REPORT

Analyte	Analysis Method	Spike Found	Spike Added	% Recovery	Q
Arsenic	6010B	197	200	98.5%	
Cadmium	6010B	48.8	50.0	97.6%	
Copper	6010B	48.4	50.0	96.8%	
Lead	6010B	197	200	98.5%	
Nickel	6010B	48	50	96.0%	
Zinc	6010B	49	50	98.0%	

Reported in mg/kg-dry

N-Control limit not met
NA-Not Applicable, Analyte Not Spiked
Control Limits: 80-120%

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TCLP METALS

Sample ID: JF-PLSD-PS-TCLP
SAMPLE

Lab Sample ID: SG07J
LIMS ID: 11-1531
Matrix: Soil
Data Release Authorized:
Reported: 02/07/11

QC Report No: SG07-The Boeing Company
Project: Jorgensen Forge
7KPL2JOR
Date Sampled: 01/24/11
Date Received: 01/24/11

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/L	Q
1311	02/01/11	6010B	02/03/11	7440-38-2	Arsenic	0.2	0.2	U
1311	02/01/11	6010B	02/03/11	**7440-39-3**	**Barium**	0.02	**0.37**	
1311	02/01/11	6010B	02/03/11	**7440-43-9**	**Cadmium**	0.01	**0.04**	
1311	02/01/11	6010B	02/03/11	**7440-47-3**	**Chromium**	0.02	**0.05**	
1311	02/01/11	6010B	02/03/11	**7439-92-1**	**Lead**	0.1	**0.9**	
1311	02/01/11	7470A	02/04/11	7439-97-6	Mercury	0.0001	0.0001	U
1311	02/01/11	6010B	02/03/11	7782-49-2	Selenium	0.2	0.2	U
1311	02/01/11	6010B	02/03/11	7440-22-4	Silver	0.02	0.02	U

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TCLP METALS

Sample ID: JF-PLSD-PS-TCLP DUPLICATE

Lab Sample ID: SG07J
LIMS ID: 11-1531
Matrix: Soil
Data Release Authorized:
Reported: 02/07/11

QC Report No: SG07-The Boeing Company
Project: Jorgensen Forge
7KPL2JOR
Date Sampled: 01/24/11
Date Received: 01/24/11

MATRIX DUPLICATE QUALITY CONTROL REPORT

Analyte	Analysis Method	Sample	Duplicate	RPD	Control Limit	Q
Arsenic	6010B	0.2 U	0.2 U	0.0%	+/- 0.2	L
Barium	6010B	0.37	0.36	2.7%	+/- 20%	
Cadmium	6010B	0.04	0.04	0.0%	+/- 0.01	L
Chromium	6010B	0.05	0.04	22.2%	+/- 0.02	L
Lead	6010B	0.9	0.9	0.0%	+/- 20%	
Mercury	7470A	0.0001 U	0.0001 U	0.0%	+/- 0.0001	L
Selenium	6010B	0.2 U	0.2 U	0.0%	+/- 0.2	L
Silver	6010B	0.02 U	0.02 U	0.0%	+/- 0.02	L

Reported in mg/L

*-Control Limit Not Met
L-RPD Invalid, Limit = Detection Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TCLP METALS

Sample ID: JF-PLSD-PS-TCLP
MATRIX SPIKE

Lab Sample ID: SG07J
LIMS ID: 11-1531
Matrix: Soil
Data Release Authorized:
Reported: 02/07/11

QC Report No: SG07-The Boeing Company
Project: Jorgensen Forge
7KPL2JOR
Date Sampled: 01/24/11
Date Received: 01/24/11

MATRIX SPIKE QUALITY CONTROL REPORT

Analyte	Analysis Method	Sample	Spike	Spike Added	% Recovery	Q
Arsenic	6010B	0.2 U	4.0	4.0	100%	
Barium	6010B	0.37	4.31	4.00	98.5%	
Cadmium	6010B	0.04	1.08	1.00	104%	
Chromium	6010B	0.05	1.02	1.00	97.0%	
Lead	6010B	0.9	4.9	4.0	100%	
Mercury	7470A	0.0001 U	0.0010	0.0010	100%	
Selenium	6010B	0.2 U	4.3	4.0	108%	
Silver	6010B	0.02 U	1.02	1.00	102%	

Reported in mg/L

N-Control Limit Not Met
H-% Recovery Not Applicable, Sample Concentration Too High
NA-Not Applicable, Analyte Not Spiked

Percent Recovery Limits: 75-125%

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TCLP METALS

Sample ID: METHOD BLANK

Lab Sample ID: SG07MB
LIMS ID: 11-1531
Matrix: Soil
Data Release Authorized:
Reported: 02/07/11

QC Report No: SG07-The Boeing Company
Project: Jorgensen Forge
7KPL2JOR
Date Sampled: NA
Date Received: NA

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/L	Q
1311	02/01/11	6010B	02/03/11	7440-38-2	Arsenic	0.2	0.2	U
1311	02/01/11	6010B	02/03/11	**7440-39-3**	**Barium**	0.02	**0.04**	
1311	02/01/11	6010B	02/03/11	7440-43-9	Cadmium	0.01	0.01	U
1311	02/01/11	6010B	02/03/11	7440-47-3	Chromium	0.02	0.02	U
1311	02/01/11	6010B	02/03/11	7439-92-1	Lead	0.1	0.1	U
1311	02/01/11	7470A	02/04/11	7439-97-6	Mercury	0.0001	0.0001	U
1311	02/01/11	6010B	02/03/11	7782-49-2	Selenium	0.2	0.2	U
1311	02/01/11	6010B	02/03/11	7440-22-4	Silver	0.02	0.02	U

U-Analyte undetected at given RL
RL-Reporting Limit

Analytical Resources, Incorporated
Analytical Chemists and Consultants

March 7, 2011

Tom Colligan
Floyd Snider
601 Union Street, Suite 600
Seattle, WA 98101-2341

RE: Project: Jorgensen Forge
ARI Job No: SK68

Dear Tom:

Please find enclosed analytical results and the original Chain of Custody documentation (COC) for the project referenced above. Analytical Resources, Incorporated (ARI) accepted three water samples and one solid sample on February 25, 2011. The samples were received in good condition. The water samples have been logged under a different ARI SDG SK67 based on client specified turn around times.

The sample was analyzed for PCBs, as requested.

No analytical complications were noted for this analysis. Quality control results are included for your review.

A copy of the reports and all associated raw data will remain on file with ARI. If you have any questions or require additional information, please contact me at your convenience.

Sincerely,

ANALYTICAL RESOURCES, INC.

Kelly Bottem
Client Services Manager
kellyb@arilabs.com
206-695-6211
Enclosures

Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: SK68 ~~SK68~~	Turn-around Requested: Water-5 Day; Solid-Standard
ARI Client Company: Floyd | Snider	Phone: 206-292-2078
Client Contact: Nick Garson / Tom Colligan	
Client Project Name: Jorgensen Forge	
Client Project #: 7KPL2JOR	Samplers: D. BRAME

Page: 1	of 1
Date: 2/25/11	Ice Present? Y
No. of Coolers: 1	Cooler Temps: 2.7, 1.8

Analytical Resources, Incorporated
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6201 (fax)

Sample ID	Date	Time	Matrix	No. Containers	pH	Total Metals	HEM (FOG)	Settleable Solids	MTCA PCBs (8)	TOTAL PCBs			Notes/Comments
JF-PLSD-WC-B08	2/25/11	1250	Water	6	x	x	x	x	x				5-Day
JF-PLSD-WC-B59	2/25/11	1330	Water	6	x	x	x	x	x				5-Day
JF-PLSD-WC-B89	2/25/11	1355	Water	6	x	x	x	x	x				5-Day
JF-PLSD-WD-12	2/25/11	1445	Solid	1						x			Standard

Comments/Special Instructions	Relinquished by:	Received by:	Relinquished by:	Received by:
	(Signature) Dean Brame	(Signature) [signature]	(Signature)	(Signature)
	Printed Name: DEAN BRAME	Printed Name: Taylor Streeter	Printed Name:	Printed Name:
	Company: FLOYD | SNIDER	Company: ARI	Company:	Company:
	Date & Time: 2/25/11 1605	Date & Time: 2-25-11 16:10	Date & Time:	Date & Time:

Limits of Liability: *ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, not withstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.*

Sample Retention Policy: All samples submitted to ARI will be appropriately discarded no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer, unless alternate retention schedules have been established by work-order or contract.

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: ~~Floyd Snider~~ Boeing

Project Name: Jorgensen Forge

COC No(s): _____ NA

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____

Assigned ARI Job No: SK68

Tracking No: _____ NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of to cooler?	YES	NO
Were custody papers included with the cooler?	YES	NO
Were custody papers properly filled out (ink, signed, etc.)	YES	NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)..... 2.7 1.8 ___ ___ ___ ___

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID#: 90941619

Cooler Accepted by: TB Date: 2-25-11 Time: 18:10

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler?		YES	NO
What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: _____			
Was sufficient ice used (if appropriate)?	NA	YES	NO
Were all bottles sealed in individual plastic bags?		YES	NO
Did all bottles arrive in good condition (unbroken)?		YES	NO
Were all bottle labels complete and legible?		YES	NO
Did the number of containers listed on COC match with the number of containers received?		YES	NO
Did all bottle labels and tags agree with custody papers?		YES	NO
Were all bottles used correct for the requested analyses?		YES	NO
Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs)...	NA	YES	NO
Were all VOC vials free of air bubbles?	NA	YES	NO
Was sufficient amount of sample sent in each bottle?		YES	NO
Date VOC Trip Blank was made at ARI	NA	_____	

Was Sample Split by ARI : NA YES Date/Time: _____ Equipment: _____ Split by: _____

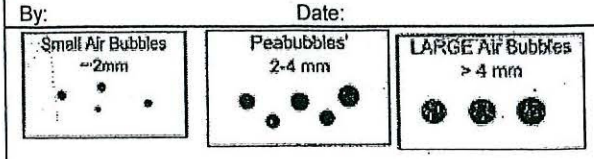
Samples Logged by: JM Date: 2/25/11 Time: 1709

***** Notify Project Manager of discrepancies or concerns *****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: Date:



Small → "sm"
Peabubbles → "pb"
Large → "lg"
Headspace → "hs"

Sample ID Cross Reference Report

ANALYTICAL RESOURCES INCORPORATED

ARI Job No: SK68
Client: The Boeing Company
Project Event: 7KPL2JOR
Project Name: Jorgensen Forge

	Sample ID	ARI Lab ID	ARI LIMS ID	Matrix	Sample Date/Time	VTSR
1.	JF-PLSD-WD-12	SK68A	11-4085	Solid	02/25/11 14:45	02/25/11 16:10

Printed 02/25/11

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: JF-PLSD-WD-12
SAMPLE

Lab Sample ID: SK68A
LIMS ID: 11-4085
Matrix: Solid
Data Release Authorized:
Reported: 03/07/11

QC Report No: SK68-The Boeing Company
Project: Jorgensen Forge
7KPL2JOR
Date Sampled: 02/25/11
Date Received: 02/25/11

Date Extracted: 03/01/11
Date Analyzed: 03/04/11 20:05
Instrument/Analyst: ECD5/JLW
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 5.04 g-as-rec
Final Extract Volume: 40 mL
Dilution Factor: 5.00
Silica Gel: Yes

Percent Moisture: NA

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	790	< 790 U
53469-21-9	Aroclor 1242	790	< 790 U
12672-29-6	Aroclor 1248	12,000	< 12,000 Y
11097-69-1	**Aroclor 1254**	**790**	**34,000**
11096-82-5	Aroclor 1260	2,000	< 2,000 Y
11104-28-2	Aroclor 1221	790	< 790 U
11141-16-5	Aroclor 1232	790	< 790 U
37324-23-5	Aroclor 1262	790	< 790 U
11100-14-4	Aroclor 1268	790	< 790 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	95.0%
Tetrachlorometaxylene	77.6%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: MB-030111
METHOD BLANK

Lab Sample ID: MB-030111
LIMS ID: 11-4085
Matrix: Solid
Data Release Authorized:
Reported: 03/07/11

QC Report No: SK68-The Boeing Company
Project: Jorgensen Forge
7KPL2JOR
Date Sampled: NA
Date Received: NA

Date Extracted: 03/01/11
Date Analyzed: 03/04/11 19:28
Instrument/Analyst: ECD5/JLW
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 5.00 g
Final Extract Volume: 40 mL
Dilution Factor: 5.00
Silica Gel: Yes

Percent Moisture: NA

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	800	< 800 U
53469-21-9	Aroclor 1242	800	< 800 U
12672-29-6	Aroclor 1248	800	< 800 U
11097-69-1	Aroclor 1254	800	< 800 U
11096-82-5	Aroclor 1260	800	< 800 U
11104-28-2	Aroclor 1221	800	< 800 U
11141-16-5	Aroclor 1232	800	< 800 U
37324-23-5	Aroclor 1262	800	< 800 U
11100-14-4	Aroclor 1268	800	< 800 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	85.2%
Tetrachlorometaxylene	71.8%

ANALYTICAL RESOURCES INCORPORATED

SW8082/PCB SOIL/SEDIMENT SURROGATE RECOVERY SUMMARY

Matrix: Solid

QC Report No: SK68-The Boeing Company
Project: Jorgensen Forge
7KPL2JOR

Client ID	DCBP % REC	DCBP LCL-UCL	TCMX % REC	TCMX LCL-UCL	TOT OUT
MB-030111	85.2%	51-127	71.8%	49-110	0
LCS-030111	87.5%	51-127	70.5%	49-110	0
JF-PLSD-WD-12	95.0%	22-168	77.6%	28-106	0

Medium Level Control Limits
Prep Method: SW3580A
Log Number Range: 11-4085 to 11-4085

FORM-II SW8082

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: LCS-030111
LAB CONTROL

Lab Sample ID: LCS-030111
LIMS ID: 11-4085
Matrix: Solid
Data Release Authorized:
Reported: 03/07/11

QC Report No: SK68-The Boeing Company
Project: Jorgensen Forge
7KPL2JOR
Date Sampled: NA
Date Received: NA

Date Extracted: 03/01/11
Date Analyzed: 03/04/11 19:46
Instrument/Analyst: ECD5/JLW
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 5.00 g-as-rec
Final Extract Volume: 40 mL
Dilution Factor: 5.00
Silica Gel: Yes

Percent Moisture: NA

Analyte	Lab Control	Spike Added	Recovery
Aroclor 1016	3430	4000	85.8%
Aroclor 1260	3160	4000	79.0%

PCB Surrogate Recovery

Decachlorobiphenyl	87.5%
Tetrachlorometaxylene	70.5%

Results reported in µg/kg (ppb)

Analytical Resources, Incorporated
Analytical Chemists and Consultants

December 30, 2010

Tom Colligan
Floyd Snider
601 Union Street, Suite 600
Seattle, WA 98101-2341

RE: Project: Jorgensen Forge PLO
ARI Job No: SC18 (revised 1/21/11)

Dear Tom:

Please find enclosed analytical results and Chain of Custody documentation (COC) for the project referenced above. Analytical Resources, Incorporated (ARI) accepted six water samples on December 22, 2010. The samples were received in good condition.

The samples were analyzed for total metals and general chemistry parameters, as requested on the COC.

No analytical complications were noted for these analyses. Quality control results are included for your review.

A copy of the reports and all associated raw data will remain on file with ARI. If you have any questions or require additional information, please contact me at your convenience.

Sincerely,

ANALYTICAL RESOURCES, INC.

Kelly Bottem
Client Services Manager
kellyb@arilabs.com
206-695-6211

Enclosures

cc: eFile SC18

KB/kb

4611 South 134th Place, Suite 100 • Tukwila WA 98168 • **206-695-6200** • **206-695-6201** fax

Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: SC18	Turn-around Requested: STAT
ARI Client Company: Floyd Snider	Phone: (206) 292-2078
Client Contact: Tom Colligan	
Client Project Name: Torgenson Forge PLO Cleanout	
Client Project #: P2JO	Samplers: Lisa Meoli / Dean Browne

Page: 1 of 1

Date: 12/22/10 Ice Present? Y

No. of Coolers: 1 Cooler Temps: 5.3

Analytical Resources, Incorporated
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6201 (fax)

Sample ID	Date	Time	Matrix	No. Containers	Alkalinity	Anions	Cations	pH	Salinity				Notes/Comments
JF-PLSD-SW-24A	12/22/10	8:05	SW	3	↓	↓	↓	↓	↓				
JF-PLSD-SW-24B	↓	8:30	SW	3	↓	↓	↓	↓	↓				
JF-PLSD-SW-377	↓	8:50	SW	3	↓	↓	↓	↓	↓				
JF-PLSD-SW-372	↓	9:15	SW	3	↓	↓	↓	↓	↓				
JF-PLSD-SW-Public	↓	9:45	SW	3	↓	↓	↓	↓	↓				
JF-PLSD-SW-Public-D	↓	9:45	SW	3	↓	↓	↓	↓	↓				

Comments/Special Instructions	Relinquished by:	Received by:	Relinquished by:	Received by:
	(Signature) Lisa Meoli	(Signature) [signature]	(Signature)	(Signature)
	Printed Name: Lisa Meoli	Printed Name: Jennifer Millsap	Printed Name:	Printed Name:
	Company: Floyd Snider	Company: ARI	Company:	Company:
	Date & Time: 12/22/10 11:00	Date & Time: 12/22/10 1100	Date & Time:	Date & Time:

SC18 00002

Limits of Liability: *ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, not withstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.*

Sample Retention Policy: All samples submitted to ARI will be appropriately discarded no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer, unless alternate retention schedules have been established by work-order or contract.

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: Floyd Snider

Project Name: Jorgenson Forge PLO Cleanout

COC No(s): _____ (NA)

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____

Assigned ARI Job No: SC18

Tracking No: _____ (NA)

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of to cooler?	YES	(NO)
Were custody papers included with the cooler?	(YES)	NO
Were custody papers properly filled out (ink, signed, etc.)	(YES)	NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)..... 5.3 ___ ___ ___

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID#: 90941619

Cooler Accepted by: JM Date: 12/22/10 Time: 1100

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler?		YES	(NO)
What kind of packing material was used? ... Bubble Wrap (Wet Ice) Gel Packs Baggies Foam Block Paper Other: _____			
Was sufficient ice used (if appropriate)?	NA	(YES)	NO
Were all bottles sealed in individual plastic bags?		YES	(NO)
Did all bottles arrive in good condition (unbroken)?		(YES)	NO
Were all bottle labels complete and legible?		(YES)	NO
Did the number of containers listed on COC match with the number of containers received?		(YES)	NO
Did all bottle labels and tags agree with custody papers?		(YES)	NO
Were all bottles used correct for the requested analyses?		(YES)	NO
Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs)...	NA	(YES)	NO
Were all VOC vials free of air bubbles?	(NA)	YES	NO
Was sufficient amount of sample sent in each bottle?		(YES)	NO
Date VOC Trip Blank was made at ARI	(NA)		

Was Sample Split by ARI : (NA) YES Date/Time: _____ Equipment: _____ Split by: _____

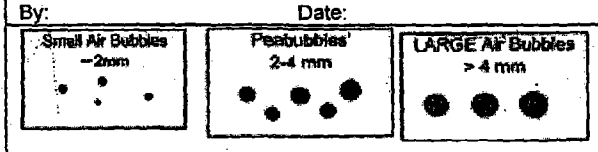
Samples Logged by: JM Date: 12/22/10 Time: 1115

***** Notify Project Manager of discrepancies or concerns *****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: Date:



Small → "sm"	
Peabubbles → "pb"	
Large → "lg"	
Headspace → "hs"	

PRESERVATION VERIFICATION 12/22/10
Page 1 of 1

ANALYTICAL RESOURCES INCORPORATED

ARI Job No: **SC18**

Inquiry Number: NONE
Analysis Requested: 12/22/10
Contact: Colligan, Tom
Client: Floyd/Snider
Logged by: JM
Sample Set Used: Yes-440
Validatable Package: No
Deliverables:

PC: Sue D.
VTSR: 12/22/10

Project #: P2JO
Project: Jorgenson Forge PLO Cleanout
Sample Site:
SDG No:
Analytical Protocol: In-house

LOGNUM ARI ID	CLIENT ID	CN >12	WAD >12	NH3 <2	COD <2	FOG <2	MET <2	PHEN <2	PHOS <2	TKN <2	NO23 <2	TOC <2	S2 >9	AK102 <2	Fe2+ <2	DMET FLT	DOC FLT	PARAMETER	ADJUSTED TO	LOT NUMBER	AMOUNT ADDED	DATE/BY
10-31771 **SC18A**	JF-PLSD-SW-24A						TOT															
10-31772 **SC18B**	JF-PLSD-SW-24B						TOT															
10-31773 **SC18C**	JF-PLSD-SW-37-7						TOT															
10-31774 **SC18D**	JF-PLSD-SW-37-2						TOT															
10-31775 **SC18E**	JF-PLSD-SW-Public						TOT															
10-31776 **SC18F**	JF-PLSD-SW-Public-D						TOT															

SC18:000004

Checked By JM Date 12/22/10

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: METHOD BLANK

Lab Sample ID: SC18MB
LIMS ID: 10-31771
Matrix: Stormwater
Data Release Authorized:
Reported: 12/27/10

QC Report No: SC18-Floyd/Snider
Project: Jorgenson Forge PLO Cleanout P2JO
Date Sampled: NA
Date Received: NA

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/L	Q
3010A	12/22/10	6010B	12/23/10	7440-70-2	Calcium	0.05	0.05	U
3010A	12/22/10	6010B	12/23/10	7439-95-4	Magnesium	0.05	0.05	U
3010A	12/22/10	6010B	12/23/10	7440-09-7	Potassium	0.5	0.5	U
3010A	12/22/10	6010B	12/23/10	7440-23-5	Sodium	0.5	0.5	U

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: JF-PLSD-SW-24A
SAMPLE

Lab Sample ID: SC18A
LIMS ID: 10-31771
Matrix: Stormwater
Data Release Authorized:
Reported: 12/27/10

QC Report No: SC18-Floyd/Snider
Project: Jorgenson Forge PLO Cleanout P2JO
Date Sampled: 12/22/10
Date Received: 12/22/10

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/L	Q
3010A	12/22/10	6010B	12/23/10	**7440-70-2**	**Calcium**	0.05	**15.4**	
3010A	12/22/10	6010B	12/23/10	**7439-95-4**	**Magnesium**	0.05	**21.8**	
3010A	12/22/10	6010B	12/23/10	**7440-09-7**	**Potassium**	0.5	**7.5**	
3010A	12/22/10	6010B	12/23/10	**7440-23-5**	**Sodium**	0.5	**176**	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: JF-PLSD-SW-24B
SAMPLE

Lab Sample ID: SC18B
LIMS ID: 10-31772
Matrix: Stormwater
Data Release Authorized:
Reported: 12/27/10

QC Report No: SC18-Floyd/Snider
Project: Jorgenson Forge PLO Cleanout P2JO
Date Sampled: 12/22/10
Date Received: 12/22/10

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/L	Q
3010A	12/22/10	6010B	12/23/10	**7440-70-2**	**Calcium**	0.05	**18.2**	
3010A	12/22/10	6010B	12/23/10	**7439-95-4**	**Magnesium**	0.05	**31.1**	
3010A	12/22/10	6010B	12/23/10	**7440-09-7**	**Potassium**	0.5	**10.4**	
3010A	12/22/10	6010B	12/23/10	**7440-23-5**	**Sodium**	0.5	**256**	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: JF-PLSD-SW-37-7
SAMPLE

Lab Sample ID: SC18C
LIMS ID: 10-31773
Matrix: Stormwater
Data Release Authorized:
Reported: 12/27/10

QC Report No: SC18-Floyd/Snider
Project: Jorgenson Forge PLO Cleanout P2JO
Date Sampled: 12/22/10
Date Received: 12/22/10

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/L	Q
3010A	12/22/10	6010B	12/23/10	**7440-70-2**	**Calcium**	0.05	**18.1**	
3010A	12/22/10	6010B	12/23/10	**7439-95-4**	**Magnesium**	0.05	**31.1**	
3010A	12/22/10	6010B	12/23/10	**7440-09-7**	**Potassium**	0.5	**10.6**	
3010A	12/22/10	6010B	12/23/10	**7440-23-5**	**Sodium**	0.5	**259**	

U-Analyte undetected at given RL
RL-Reporting Limit

FORM-I

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: JF-PLSD-SW-37-2
SAMPLE

Lab Sample ID: SC18D
LIMS ID: 10-31774
Matrix: Stormwater
Data Release Authorized
Reported: 12/27/10

QC Report No: SC18-Floyd/Snider
Project: Jorgenson Forge PLO Cleanout P2JO
Date Sampled: 12/22/10
Date Received: 12/22/10

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/L	Q
3010A	12/22/10	6010B	12/23/10	**7440-70-2**	**Calcium**	0.05	**17.2**	
3010A	12/22/10	6010B	12/23/10	**7439-95-4**	**Magnesium**	0.05	**28.4**	
3010A	12/22/10	6010B	12/23/10	**7440-09-7**	**Potassium**	0.5	**9.6**	
3010A	12/22/10	6010B	12/23/10	**7440-23-5**	**Sodium**	0.5	**233**	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: JF-PLSD-SW-Public
SAMPLE

Lab Sample ID: SC18E
LIMS ID: 10-31775
Matrix: Stormwater
Data Release Authorized:
Reported: 12/27/10

QC Report No: SC18-Floyd/Snider
Project: Jorgenson Forge PLO Cleanout P2JO
Date Sampled: 12/22/10
Date Received: 12/22/10

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/L	Q
3010A	12/22/10	6010B	12/23/10	**7440-70-2**	**Calcium**	0.05	**19.6**	
3010A	12/22/10	6010B	12/23/10	**7439-95-4**	**Magnesium**	0.05	**32.3**	
3010A	12/22/10	6010B	12/23/10	**7440-09-7**	**Potassium**	0.5	**11.0**	
3010A	12/22/10	6010B	12/23/10	**7440-23-5**	**Sodium**	0.5	**272**	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: JF-PLSD-SW-Public-D
SAMPLE

Lab Sample ID: SC18F
LIMS ID: 10-31776
Matrix: Stormwater
Data Release Authorized:
Reported: 12/27/10

QC Report No: SC18-Floyd/Snider
Project: Jorgenson Forge PLO Cleanout P2JO
Date Sampled: 12/22/10
Date Received: 12/22/10

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/L	Q
3010A	12/22/10	6010B	12/23/10	**7440-70-2**	**Calcium**	0.05	**20.9**	
3010A	12/22/10	6010B	12/23/10	**7439-95-4**	**Magnesium**	0.05	**34.2**	
3010A	12/22/10	6010B	12/23/10	**7440-09-7**	**Potassium**	0.5	**11.7**	
3010A	12/22/10	6010B	12/23/10	**7440-23-5**	**Sodium**	0.5	**291**	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: LAB CONTROL

Lab Sample ID: SC18LCS
LIMS ID: 10-31771
Matrix: Stormwater
Data Release Authorized:
Reported: 12/27/10

QC Report No: SC18-Floyd/Snider
Project: Jorgenson Forge PLO Cleanout P2JO
Date Sampled: NA
Date Received: NA

BLANK SPIKE QUALITY CONTROL REPORT

Analyte	Analysis Method	Spike Found	Spike Added	% Recovery	Q
Calcium	6010B	9.72	10.0	97.2%	
Magnesium	6010B	9.87	10.0	98.7%	
Potassium	6010B	10.1	10.0	101%	
Sodium	6010B	9.9	10.0	99.0%	

Reported in mg/L

N-Control limit not met
Control Limits: 80-120%

METHOD BLANK RESULTS-CONVENTIONALS
SC18-Floyd/Snider

ANALYTICAL RESOURCES INCORPORATED

Matrix: Stormwater
Data Release Authorized:
Reported: 03/02/11

Project: Jorgenson Forge PLO Cleanout
Event: P2JO
Date Sampled: NA
Date Received: NA

Analyte	Method	Date	Units	Blank	ID
Conductivity	EPA 120.1	12/23/10	umhos/cm	< 1.00 U	
Salinity	SM 2520.B	12/23/10	ppt	< 0.10 U	
Chloride	EPA 300.0	12/23/10	mg/L	< 0.1 U	
Sulfate	EPA 300.0	12/23/10	mg/L	< 0.1 U	

SC18:00013 R 3/3/11

SAMPLE RESULTS-CONVENTIONALS
SC18-Floyd/Snider

ANALYTICAL RESOURCES INCORPORATED

Matrix: Stormwater
Data Release Authorized:
Reported: 03/02/11

Project: Jorgenson Forge PLO Cleanout
Event: P2JO
Date Sampled: 12/22/10
Date Received: 12/22/10

Client ID: JF-PLSD-SW-24A
ARI ID: 10-31771 SC18A

Analyte	Date Batch	Method	Units	RL	Sample
pH	12/22/10 122210#1	EPA 150.1	std units	0.01	6.81
Alkalinity	12/22/10 122210#1	SM 2320	mg/L CaCO3	1.0	37.8
Carbonate	12/22/10	SM 2320	mg/L CaCO3	1.0	< 1.0 U
Bicarbonate	12/22/10	SM 2320	mg/L CaCO3	1.0	37.8
Hydroxide	12/22/10	SM 2320	mg/L CaCO3	1.0	< 1.0 U
Conductivity	12/23/10 122310#1	EPA 120.1	umhos/cm	1.00	1,130
Salinity	12/23/10 122310#1	SM 2520.B	ppt	0.10	0.60
Chloride	12/23/10 122310#1	EPA 300.0	mg/L	10.0	311
Sulfate	12/23/10 122310#1	EPA 300.0	mg/L	10.0	40.4

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
SC18-Floyd/Snider

ANALYTICAL RESOURCES INCORPORATED

Matrix: Stormwater
Data Release Authorized:
Reported: 03/02/11

Project: Jorgenson Forge PLO Cleanout
Event: P2JO
Date Sampled: 12/22/10
Date Received: 12/22/10

Client ID: JF-PLSD-SW-24B
ARI ID: 10-31772 SC18B

Analyte	Date Batch	Method	Units	RL	Sample
pH	12/22/10 122210#1	EPA 150.1	std units	0.01	6.78
Alkalinity	12/22/10 122210#1	SM 2320	mg/L CaCO3	1.0	38.2
Carbonate	12/22/10	SM 2320	mg/L CaCO3	1.0	< 1.0 U
Bicarbonate	12/22/10	SM 2320	mg/L CaCO3	1.0	38.2
Hydroxide	12/22/10	SM 2320	mg/L CaCO3	1.0	< 1.0 U
Conductivity	12/23/10 122310#1	EPA 120.1	umhos/cm	1.00	1,590
Salinity	12/23/10 122310#1	SM 2520.B	ppt	0.10	0.80
Chloride	12/23/10 122310#1	EPA 300.0	mg/L	10.0	477
Sulfate	12/23/10 122310#1	EPA 300.0	mg/L	10.0	60.0

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
SC18-Floyd/Snider

ANALYTICAL RESOURCES INCORPORATED

Matrix: Stormwater
Data Release Authorized:
Reported: 03/02/11

Project: Jorgenson Forge PLO Cleanout
Event: P2JO
Date Sampled: 12/22/10
Date Received: 12/22/10

Client ID: JF-PLSD-SW-37-7
ARI ID: 10-31773 SC18C

Analyte	Date Batch	Method	Units	RL	Sample
pH	12/22/10 122210#1	EPA 150.1	std units	0.01	6.88
Alkalinity	12/22/10 122210#1	SM 2320	mg/L CaCO3	1.0	38.9
Carbonate	12/22/10	SM 2320	mg/L CaCO3	1.0	< 1.0 U
Bicarbonate	12/22/10	SM 2320	mg/L CaCO3	1.0	38.9
Hydroxide	12/22/10	SM 2320	mg/L CaCO3	1.0	< 1.0 U
Conductivity	12/23/10 122310#1	EPA 120.1	umhos/cm	1.00	1,630
Salinity	12/23/10 122310#1	SM 2520.B	ppt	0.10	0.80
Chloride	12/23/10 122310#1	EPA 300.0	mg/L	10.0	490
Sulfate	12/23/10 122310#1	EPA 300.0	mg/L	10.0	62.5

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
SC18-Floyd/Snider

ANALYTICAL RESOURCES INCORPORATED

Matrix: Stormwater
Data Release Authorized:
Reported: 03/02/11

Project: Jorgenson Forge PLO Cleanout
Event: P2JO
Date Sampled: 12/22/10
Date Received: 12/22/10

Client ID: JF-PLSD-SW-37-2
ARI ID: 10-31774 SC18D

Analyte	Date Batch	Method	Units	RL	Sample
pH	12/22/10 122210#1	EPA 150.1	std units	0.01	6.96
Alkalinity	12/22/10 122210#1	SM 2320	mg/L CaCO3	1.0	32.4
Carbonate	12/22/10	SM 2320	mg/L CaCO3	1.0	< 1.0 U
Bicarbonate	12/22/10	SM 2320	mg/L CaCO3	1.0	32.4
Hydroxide	12/22/10	SM 2320	mg/L CaCO3	1.0	< 1.0 U
Conductivity	12/23/10 122310#1	EPA 120.1	umhos/cm	1.00	1,490
Salinity	12/23/10 122310#1	SM 2520.B	ppt	0.10	0.70
Chloride	12/23/10 122310#1	EPA 300.0	mg/L	10.0	441
Sulfate	12/23/10 122310#1	EPA 300.0	mg/L	10.0	54.5

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
SC18-Floyd/Snider

ANALYTICAL RESOURCES INCORPORATED

Matrix: Stormwater
Data Release Authorized:
Reported: 03/02/11

Project: Jorgenson Forge PLO Cleanout
Event: P2JO
Date Sampled: 12/22/10
Date Received: 12/22/10

Client ID: JF-PLSD-SW-Public
ARI ID: 10-31775 SC18E

Analyte	Date Batch	Method	Units	RL	Sample
pH	12/22/10 122210#1	EPA 150.1	std units	0.01	6.85
Alkalinity	12/22/10 122210#1	SM 2320	mg/L CaCO3	1.0	39.2
Carbonate	12/22/10	SM 2320	mg/L CaCO3	1.0	< 1.0 U
Bicarbonate	12/22/10	SM 2320	mg/L CaCO3	1.0	39.2
Hydroxide	12/22/10	SM 2320	mg/L CaCO3	1.0	< 1.0 U
Conductivity	12/23/10 122310#1	EPA 120.1	umhos/cm	1.00	1,700
Salinity	12/23/10 122310#1	SM 2520.B	ppt	0.10	0.90
Chloride	12/23/10 122310#1	EPA 300.0	mg/L	20.0	519
Sulfate	12/23/10 122310#1	EPA 300.0	mg/L	20.0	64.9

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
SC18-Floyd/Snider

ANALYTICAL RESOURCES INCORPORATED

Matrix: Stormwater
Data Release Authorized:
Reported: 03/02/11

Project: Jorgenson Forge PLO Cleanout
Event: P2JO
Date Sampled: 12/22/10
Date Received: 12/22/10

Client ID: JF-PLSD-SW-Public-D
ARI ID: 10-31776 SC18F

Analyte	Date Batch	Method	Units	RL	Sample
pH	12/22/10 122210#1	EPA 150.1	std units	0.01	6.74
Alkalinity	12/22/10 122210#1	SM 2320	mg/L CaCO3	1.0	38.8
Carbonate	12/22/10	SM 2320	mg/L CaCO3	1.0	< 1.0 U
Bicarbonate	12/22/10	SM 2320	mg/L CaCO3	1.0	38.8
Hydroxide	12/22/10	SM 2320	mg/L CaCO3	1.0	< 1.0 U
Conductivity	12/23/10 122310#1	EPA 120.1	umhos/cm	1.00	1,750
Salinity	12/23/10 122310#1	SM 2520.B	ppt	0.10	0.90
Chloride	12/23/10 122310#1	EPA 300.0	mg/L	20.0	529
Sulfate	12/23/10 122310#1	EPA 300.0	mg/L	20.0	67.8

RL Analytical reporting limit
U Undetected at reported detection limit

LAB CONTROL RESULTS-CONVENTIONALS
SC18-Floyd/Snider

ANALYTICAL RESOURCES INCORPORATED

Matrix: Stormwater
Data Release Authorized:
Reported: 03/02/11

Project: Jorgenson Forge PLO Cleanout
Event: P2JO
Date Sampled: NA
Date Received: NA

Analyte/Method	QC ID	Date	Units	LCS	Spike Added	Recovery
pH EPA 150.1	ICVL	12/22/10	std units	6.99	7.00	0.01
Salinity SM 2520.B	ICVL	12/23/10	ppt	43,400	47,600	91.2%

pH is evaluated as the Absolute Difference between the values rather than Percent Recovery.

STANDARD REFERENCE RESULTS-CONVENTIONALS
SC18-Floyd/Snider

ANALYTICAL RESOURCES INCORPORATED

Matrix: Stormwater
Data Release Authorized:
Reported: 03/02/11

Project: Jorgenson Forge PLO Cleanout
Event: P2JO
Date Sampled: NA
Date Received: NA

Analyte/SRM ID	Method	Date	Units	SRM	True Value	Recovery
Alkalinity ERA #P114506	SM 2320	12/22/10	mg/L CaCO3	99.5	102	97.5%
Conductivity Ricca #3193	EPA 120.1	12/23/10	umhos/cm	984	1,000	98.4%
Chloride ERA #230109	EPA 300.0	12/23/10	mg/L	3.0	3.0	100.0%
Sulfate ERA #220109	EPA 300.0	12/23/10	mg/L	3.0	3.0	100.0%

REPLICATE RESULTS-CONVENTIONALS
SC18-Floyd/Snider

ANALYTICAL RESOURCES INCORPORATED

Matrix: Stormwater
Data Release Authorized:
Reported: 03/02/11

Project: Jorgenson Forge PLO Cleanout
Event: P2JO
Date Sampled: 12/22/10
Date Received: 12/22/10

Analyte	Method	Date	Units	Sample	Replicate(s)	RPD/RSD
ARI ID: SC18A Client ID: JF-PLSD-SW-24A						
pH	EPA 150.1	12/22/10	std units	6.81	6.79	0.02
Alkalinity	SM 2320	12/22/10	mg/L CaCO3	37.8	37.5	0.8%
Carbonate	SM 2320	12/22/10	mg/L CaCO3	< 1.0	< 1.0	NA
Bicarbonate	SM 2320	12/22/10	mg/L CaCO3	37.8	37.5	0.8%
Hydroxide	SM 2320	12/22/10	mg/L CaCO3	< 1.0	< 1.0	NA
Chloride	EPA 300.0	12/23/10	mg/L	311	317	1.9%
Sulfate	EPA 300.0	12/23/10	mg/L	40.4	42.1	4.1%
ARI ID: SC18B Client ID: JF-PLSD-SW-24B						
Conductivity	EPA 120.1	12/23/10	umhos/cm	1,590	1,600	0.6%
Salinity	SM 2520.B	12/23/10	ppt	0.80	0.80	0.0%

pH is evaluated as the Absolute Difference between the values rather than Relative Percent Difference

Analytical Resources, Incorporated
Analytical Chemists and Consultants

January 21, 2011

Tom Colligan
Floyd Snider
601 Union Street, Suite 600
Seattle, WA 98101-2341

RE: Project: Jorgensen Forge PLO
ARI Job No: SD56

Dear Tom:

Please find enclosed analytical results and the original and a revised copy of the Chain of Custody documentation (COC) for the project referenced above. Analytical Resources, Incorporated (ARI) accepted one water sample on January 6, 2011. The samples were received in good condition.

The samples were analyzed for total metals and general chemistry parameters, as requested.

No analytical complications were noted for these analyses. Quality control results are included for your review.

A copy of the reports and all associated raw data will remain on file with ARI. If you have any questions or require additional information, please contact me at your convenience.

Sincerely,

ANALYTICAL RESOURCES, INC.

Kelly Bottem
Client Services Manager
kellyb@arilabs.com
206-695-6211

Enclosures

cc: eFile SD56

KB/kb

4611 South 134th Place, Suite 100 • Tukwila WA 98168 • **206-695-6200** • **206-695-6201** fax

Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: SD56	Turn-around Requested: Standard	Page: 1 of 1	
ARI Client Company: Floyd/Snider	Phone: 206-292-2078	Date: 1/6/11	Ice Present? Y
Client Contact: Lisa Meoli / Teri Floyd	teri.floyd@floydsnider.com lisa.meoli@floydsnider.com	No. of Coolers: 1	Cooler Temps: 5.3
Client Project Name: Boeing Plant 2			
Client Project #: BP2-BOE CM11 TASK 1.1	Samplers: Lisa Meoli		

Sample ID	Date	Time	Matrix	No. Containers	Alkalinity	Anions	Cations	pH	Salinity				Notes/Comments
LDW-Stilling Well	1/6/11	13:00	SW	3	✓	✓	✓	✓	✓				

Comments/Special Instructions	Relinquished by:	Received by:	Relinquished by:	Received by:
	(Signature) Lisa Meoli	(Signature)	(Signature)	(Signature)
	Printed Name: Lisa Meoli	Printed Name: A. Volgardsen	Printed Name:	Printed Name:
	Company: Floyd/Snider	Company: ARI	Company:	Company:
	Date & Time: 1/6/11 1420	Date & Time: 1/6/11 1420	Date & Time:	Date & Time:

Analytical Resources, Incorporated
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6201 (fax)

Limits of Liability: *ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, not withstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.*

Sample Retention Policy: All samples submitted to ARI will be appropriately discarded no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer, unless alternate retention schedules have been established by work-order or contract.

Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number:	Turn-around Requested: Standard	Page: 1 of 1	
ARI Client Company: [illegible]	Phone: [illegible]	Date: [illegible]	Ice Present? Y
Client Contact: Tom Colligan, Nick Garson LW 1/7/14		No. of Coolers: 1	Cooler Temps: [illegible]
Client Project Name: 1/7/14 LW Jorgensen Forge PLO 1/7/14 LW			
Client Project #: 1/7/14 LW	Samplers: Lisa Meoli		

Analytical Resources, Incorporated
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6201 (fax)

7KPL2JOR LW Sample ID	Date	Time	Matrix	No. Containers	Alkalinity	Anions	Cations	pH	Solids				Notes/Comments
LOW-Shallow Well	1/7/14	13:00	GW	3	✓	✓	✓	✓	✓				

Comments/Special Instructions	Relinquished by:	Received by	Relinquished by:	Received by:
	(Signature): [illegible]	(Signature): [illegible]	(Signature)	(Signature)
	Printed Name: [illegible]	Printed Name: [illegible]	Printed Name:	Printed Name:
	Company: Hood Engineer	Company: ARI	Company:	Company:
	Date & Time: 1/7/14 14:20	Date & Time: 1/7/14 14:20	Date & Time:	Date & Time:

Limits of Liability: *ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, not withstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.*

Sample Retention Policy: All samples submitted to ARI will be appropriately discarded no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer, unless alternate retention schedules have been established by work-order or contract.

PRESERVATION VERIFICATION 01/06/11

ANALYTICAL RESOURCES INCORPORATED

ARI Job No: **SD56**

Inquiry Number: NONE
Analysis Requested: 01/06/11
Contact: Ernst, Will
Client: The Boeing Company
Logged by: AV
Sample Set Used: Yes-440
Validatable Package: No
Deliverables:

PC: Kelly
VTSR: 01/06/11

Project #: BP@2-BOE CMI11 Task 1.1
Project: Boeing Plant 2
Sample Site:
SDG No:
Analytical Protocol: In-house

LOGNUM ARI ID	CLIENT ID	CN >12	WAD >12	NH3 <2	COD <2	FOG <2	MET <2	PHEN <2	PHOS <2	TKN <2	NO23 <2	TOC <2	S2 >9	AK102 <2	Fe2+ <2	DMET FLT	DOC FLT	PARAMETER	ADJUSTED TO	LOT NUMBER	AMOUNT ADDED	DATE/BY
11-298 **SD56A**	LDW-Stilling Well						TOT Pass															

Checked By AV Date 1/6/11

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: Boeing

Project Name: Boeing Plant 2

COC No(s): _____ (NA)

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____

Assigned ARI Job No: SD56

Tracking No: _____ (NA)

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of to cooler?	YES	(NO)
Were custody papers included with the cooler?	(YES)	NO
Were custody papers properly filled out (ink, signed, etc.)	(YES)	NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)..... 5.3 ___ ___ ___ ___

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID#: 90941019

Cooler Accepted by: AV Date: 1/6/11 Time: 1420

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler?		YES	(NO)
What kind of packing material was used? ... Bubble Wrap (Wet Ice) Gel Packs Baggies Foam Block Paper Other: empty bottles			
Was sufficient ice used (if appropriate)?	NA	(YES)	NO
Were all bottles sealed in individual plastic bags?		YES	(NO)
Did all bottles arrive in good condition (unbroken)?		(YES)	NO
Were all bottle labels complete and legible?		(YES)	NO
Did the number of containers listed on COC match with the number of containers received?		(YES)	NO
Did all bottle labels and tags agree with custody papers?		(YES)	NO
Were all bottles used correct for the requested analyses?		(YES)	NO
Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs)...	NA	(YES)	NO
Were all VOC vials free of air bubbles?	(NA)	YES	NO
Was sufficient amount of sample sent in each bottle?		(YES)	NO
Date VOC Trip Blank was made at ARI	(NA)	_____	

Was Sample Split by ARI : (NA) YES Date/Time: _____ Equipment: _____ Split by: _____

Samples Logged by: AV Date: 1/6/11 Time: 1435

*** Notify Project Manager of discrepancies or concerns ***

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: Date:

Small Air Bubbles ~2mm	Peabubbles 2-4 mm	LARGE Air Bubbles > 4 mm	
			Small → "sm"
			Peabubbles → "pb"
			Large → "lg"
			Headspace → "hs"

SAMPLE RESULTS-CONVENTIONALS
SD56-The Boeing Company

ANALYTICAL RESOURCES INCORPORATED

Matrix: Stormwater
Data Release Authorized:
Reported: 01/21/11

Project: Jorgensen Forge PLO
Event: 7KPL2JOR
Date Sampled: 01/06/11
Date Received: 01/06/11

Client ID: LDW-Stilling Well
ARI ID: 11-298 SD56A

Analyte	Date Batch	Method	Units	RL	Sample
pH	01/06/11 010611#1	EPA 150.1	std units	0.01	6.73
Alkalinity	01/07/11 010711#1	SM 2320	mg/L CaCO3	1.0	55.2
Carbonate	01/07/11	SM 2320	mg/L CaCO3	1.0	< 1.0 U
Bicarbonate	01/07/11	SM 2320	mg/L CaCO3	1.0	55.2
Hydroxide	01/07/11	SM 2320	mg/L CaCO3	1.0	< 1.0 U
Conductivity	01/11/11 011111#1	EPA 120.1	umhos/cm	1.00	7,400
Salinity	01/11/11 011111#1	SM 2520.B	ppt	0.10	4.00
Chloride	01/18/11 011811#1	EPA 300.0	mg/L	100	2,510
Sulfate	01/08/11 010811#1	EPA 300.0	mg/L	10.0	363

RL Analytical reporting limit
U Undetected at reported detection limit

METHOD BLANK RESULTS-CONVENTIONALS
SD56-The Boeing Company

ANALYTICAL RESOURCES INCORPORATED

Matrix: Stormwater
Data Release Authorized:
Reported: 01/21/11

Project: Jorgensen Forge PLO
Event: 7KPL2JOR
Date Sampled: NA
Date Received: NA

Analyte	Method	Date	Units	Blank	ID
Conductivity	EPA 120.1	01/11/11	umhos/cm	< 1.00 U	
Salinity	SM 2520.B	01/11/11	ppt	< 0.10 U	
Chloride	EPA 300.0	01/18/11	mg/L	< 0.1 U	
Sulfate	EPA 300.0	01/08/11	mg/L	< 0.1 U	

LAB CONTROL RESULTS-CONVENTIONALS
SD56-The Boeing Company

ANALYTICAL RESOURCES INCORPORATED

Matrix: Stormwater
Data Release Authorized:
Reported: 01/21/11

Project: Jorgensen Forge PLO
Event: 7KPL2JOR
Date Sampled: NA
Date Received: NA

Analyte/Method	QC ID	Date	Units	LCS	Spike Added	Recovery
pH EPA 150.1	ICVL	01/06/11	std.units	7.02	7.00	0.02
Salinity SM 2520.B	ICVL	01/11/11	ppt	43,300	47,600	91.0%

pH is evaluated as the Absolute Difference between the values rather than Percent Recovery.

STANDARD REFERENCE RESULTS-CONVENTIONALS
SD56-The Boeing Company

ANALYTICAL RESOURCES INCORPORATED

Matrix: Stormwater
Data Release Authorized:
Reported: 01/21/11

Project: Jorgensen Forge PLO
Event: 7KPL2JOR
Date Sampled: NA
Date Received: NA

Analyte/SRM ID	Method	Date	Units	SRM	True Value	Recovery
Alkalinity ERA #P114506	SM 2320	01/07/11	mg/L CaCO3	99.4	102	97.5%
Conductivity Ricca #3193	EPA 120.1	01/11/11	umhos/cm	993	1,000	99.3%
Chloride ERA #230109	EPA 300.0	01/18/11	mg/L	3.1	3.0	103.3%
Sulfate ERA #220109	EPA 300.0	01/08/11	mg/L	3.1	3.0	103.3%

REPLICATE RESULTS-CONVENTIONALS
SD56-The Boeing Company

ANALYTICAL RESOURCES INCORPORATED

Matrix: Stormwater
Data Release Authorized:
Reported: 01/21/11

Project: Jorgensen Forge PLO
Event: 7KPL2JOR
Date Sampled: 01/06/11
Date Received: 01/06/11

Analyte	Method	Date	Units	Sample	Replicate(s)	RPD/RSD
ARI ID: SD56A Client ID: LDW-Stilling Well						
pH	EPA 150.1	01/06/11	std units	6.73	6.74	0.01
Alkalinity	SM 2320	01/07/11	mg/L CaCO3	55.2	55.3	0.2%
Carbonate	SM 2320	01/07/11	mg/L CaCO3	< 1.0	< 1.0	NA
Bicarbonate	SM 2320	01/07/11	mg/L CaCO3	55.2	55.3	0.2%
Hydroxide	SM 2320	01/07/11	mg/L CaCO3	< 1.0	< 1.0	NA
Conductivity	EPA 120.1	01/11/11	umhos/cm	7,400	7,400	0.0%
Salinity	SM 2520.B	01/11/11	ppt	4.00	4.00	0.0%

pH is evaluated as the Absolute Difference between the values rather than Relative Percent Difference

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: LDW-Stilling Well
SAMPLE

Lab Sample ID: SD56A
LIMS ID: 11-298
Matrix: Stormwater
Data Release Authorized:
Reported: 01/14/11

QC Report No: SD56-The Boeing Company
Project: Jorgensen Forge PLO
7KPL2JOR
Date Sampled: 01/06/11
Date Received: 01/06/11

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/L	Q
3010A	01/07/11	6010B	01/10/11	7440-70-2	Calcium	0.05	62.5	
3010A	01/07/11	6010B	01/10/11	7439-95-4	Magnesium	0.05	163	
3010A	01/07/11	6010B	01/10/11	7440-09-7	Potassium	0.5	53.4	
3010A	01/07/11	6010B	01/10/11	7440-23-5	Sodium	0.5	1,460	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS
Page 1 of 1

Sample ID: METHOD BLANK

Lab Sample ID: SD56MB
LIMS ID: 11-298
Matrix: Stormwater
Data Release Authorized:
Reported: 01/14/11

QC Report No: SD56-The Boeing Company
Project: Jorgensen Forge PLO
7KPL2JOR
Date Sampled: NA
Date Received: NA

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/L	Q
3010A	01/07/11	6010B	01/10/11	7440-70-2	Calcium	0.05	0.05	U
3010A	01/07/11	6010B	01/10/11	7439-95-4	Magnesium	0.05	0.05	U
3010A	01/07/11	6010B	01/10/11	7440-09-7	Potassium	0.5	0.5	U
3010A	01/07/11	6010B	01/10/11	7440-23-5	Sodium	0.5	0.5	U

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: LAB CONTROL

Lab Sample ID: SD56LCS
LIMS ID: 11-298
Matrix: Stormwater
Data Release Authorized:
Reported: 01/14/11

QC Report No: SD56-The Boeing Company
Project: Jorgensen Forge PLO
7KPL2JOR
Date Sampled: NA
Date Received: NA

BLANK SPIKE QUALITY CONTROL REPORT

Analyte	Analysis Method	Spike Found	Spike Added	% Recovery	Q
Calcium	6010B	10.1	10.0	101%	
Magnesium	6010B	10.4	10.0	104%	
Potassium	6010B	10.6	10.0	106%	
Sodium	6010B	10.7	10.0	107%	

Reported in mg/L

N-Control limit not met
Control Limits: 80-120%

Analytical Resources, Incorporated
Analytical Chemists and Consultants

February 23, 2011

Tom Colligan
Floyd Snider
601 Union Street, Suite 600
Seattle, WA 98101-2341

RE: Project: Jorgensen Forge PLO
ARI Job No: SJ49

Dear Tom:

Please find enclosed analytical results and the original Chain of Custody documentation (COC) for the project referenced above. Analytical Resources, Incorporated (ARI) accepted ten soil samples and one water sample on January 24, 2011. The samples were received in good condition. Select samples were placed on hold pending further instructions.

The samples were originally analyzed for Total Metals, TCLP Metals, SVOCs, PCBs and NWTPH-Dx, as requested and reported under ARI SDG SG07.

At the request of Floyd Snider, select samples were analyzed for TCLP follow ups.

No analytical complications were noted for these analyses. Quality control results are included for your review.

A copy of the reports and all associated raw data will remain on file with ARI. If you have any questions or require additional information, please contact me at your convenience.

Sincerely,

ANALYTICAL RESOURCES, INC.

Kelly Bottem
Client Services Manager
kellyb@arilabs.com
206-695-6211
Enclosures

Subject: TCLP request- Jorgensen Project
From: Tom Colligan <Tom.Colligan@floydsnider.com>
Date: Wed, 23 Feb 2011 12:43:08 -0800
To: Kelly Bottem <kellyb@arilabs.com>

Kelly, please submit each of the remaining 8 oz sample of the samples on this COC, less the last two samples, for TCLP analysis. 7 day TAT. Thanks.

Tom Colligan
FLOYD|SNIDER
Two Union Square
601 Union Street, Suite 600
Seattle, WA 98101
tel: 206.292.2078
direct line: 206-805-2166
fax: 206.682.7867
cell: 206-276-8527

tom.colligan@floydsnider.com

Chain of Custody Record & Laboratory Analysis Request

Analytical Resources, Incorporated
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206 695 6200 206 695-6201 (fax)

ARI Assigned Number: 5	Turnaround Requested: Standard
ARI Client Company: FLOYD | SNIDER 300 mg	Phone: 206-292-2078
Client Contact: NICK GARSON / TOM COLLIGAN	
Client Project Name: JORGENSEN FORGE	
Client Project #: 7KPL2JOR	Samplers: DEAN BRAME / TOM COLLIGAN

Page 1 of 2
Date: 1/24/11
Ice Present? Y
No. of Coolers: 1
Cooler Temps: 6.6

Sample ID	Date	Time	Matrix	No. Containers	PCBs	SVOCs	TPH-D	Metals As, Cd, Cu, Pb Hg, Zn					Notes/Comments
JF-PLSD-PS-15A	1/24/11	1310	SOIL	3	x	x	x	x					
JF-PLSD-PS-15B		1455											
JF-PLSD-PS-24A		1340											
JF-PLSD-PS-24B		1415											
JF-PLSD-PS-37-7		1230											
JF-PLSD-PS-37-2		1200											
JF-PLSD-PS-PUBLIC		1110											
JF-PLSD-PS-~~15B-R~~ 24B-D		1420											
JF-PLSD-PS-37-7-M		1235											MS/MSD
JF-PLSD-PS-15B-R		1515	WATER	2	x								

Comments Special Instructions

Relinquished by (Signature)	Received by (Signature)	Relinquished by (Signature)	Received by (Signature)
Printed Name: DEAN BRAME	Printed Name: Taylor Streeter	Printed Name:	Printed Name:
Company: FLOYD|SNIDER	Company: ARI	Company:	Company:
Date & Time: 1/24/11 1606	Date & Time: 1/24/11 1606	Date & Time:	Date & Time:

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards by the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the invoiced amount for

Picture (Device Independent Bitmap) 1.jpg
Content-Description: Picture (Device Independent Bitmap) 1.jpg
Content-Type: image/jpeg

Sample ID Cross Reference Report

ANALYTICAL RESOURCES INCORPORATED

ARI Job No: SJ49
Client: The Boeing Company
Project Event: 7KPL2JOR
Project Name: Jorgensen Forge

	Sample ID	ARI Lab ID	ARI LIMS ID	Matrix	Sample Date/Time	VTSR
1.	JF-PLSD-PS-15A	SJ49A	11-3467	Soil	01/24/11 13:10	01/24/11 16:06
2.	JF-PLSD-PS-15B	SJ49B	11-3468	Soil	01/24/11 14:55	01/24/11 16:06
3.	JF-PLSD-PS-24A	SJ49C	11-3469	Soil	01/24/11 13:40	01/24/11 16:06
4.	JF-PLSD-PS-24B	SJ49D	11-3470	Soil	01/24/11 14:15	01/24/11 16:06
5.	JF-PLSD-PS-37-7	SJ49E	11-3471	Soil	01/24/11 12:30	01/24/11 16:06
6.	JF-PLSD-PS-37-2	SJ49F	11-3472	Soil	01/24/11 12:00	01/24/11 16:06
7.	JF-PLSD-PS-PUBLIC	SJ49G	11-3473	Soil	01/24/11 11:10	01/24/11 16:06

Printed 02/17/11

Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: 5	Turn-around Requested: Standard	Page: 1 of 2	
ARI Client Company: FLOYD | SNIDER 300 Mg	Phone: 206-292-2078	Date: 1/24/11	Ice Present? Y
Client Contact: NICK GARSON / TOM COLLIGAN		No. of Coolers: 1	Cooler Temps: 6.6
Client Project Name: JORGENSEN FORGE			
Client Project #: FKPL2JOR	Samplers: DEAN BRAME / TOM COLLIGAN		

Analytical Resources, Incorporated
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6201 (fax)

Sample ID	Date	Time	Matrix	No. Containers	PCBs	SVOCs	TPH-D	Metals As, Cd, Cu, Pb Ni, Zn					Notes/Comments
JF-PLSD-PS-15A	1/24/11	1310	SOIL	3	x	x	x	x					
JF-PLSD-PS-15B	↓	1455	↓	↓	↓	↓	↓	↓					
JF-PLSD-PS-24A		1340											
JF-PLSD-PS-24B		1415											
JF-PLSD-PS-37-7		1230											
JF-PLSD-PS-37-2		1200											
JF-PLSD-PS-PUBLIC		1110											
JF-PLSD-PS-~~15B-R~~ -24B-D		1420											
JF-PLSD-PS-37-7-M		1235	↓	↓	↓	↓	↓	↓					MS/MSD
JF-PLSD-PS-15B-R	↓	1515	WATER	2	x								

Comments/Special Instructions	Relinquished by: (Signature)	Received by: (Signature)	Relinquished by: (Signature)	Received by: (Signature)
	Printed Name: DEAN BRAME	Printed Name: Taylor Stretch	Printed Name:	Printed Name:
	Company: FLOYD | SNIDER	Company: ARI	Company:	Company:
	Date & Time: 1/24/11 1606	Date & Time: 1/24/11 1606	Date & Time:	Date & Time:

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the invoiced amount for

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TCLP METALS

Sample ID: JF-PLSD-PS-15A
SAMPLE

Lab Sample ID: SJ49A
LIMS ID: 11-3467
Matrix: Soil
Data Release Authorized:
Reported: 02/23/11

QC Report No: SJ49-The Boeing Company
Project: Jorgensen Forge
7KPL2JOR
Date Sampled: 01/24/11
Date Received: 01/24/11

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/L	Q
1311	02/18/11	6010B	02/21/11	7440-38-2	Arsenic	0.2	0.2	U
1311	02/18/11	6010B	02/21/11	**7440-39-3**	**Barium**	0.02	**0.19**	
1311	02/18/11	6010B	02/21/11	7440-43-9	Cadmium	0.01	0.01	U
1311	02/18/11	6010B	02/21/11	7440-47-3	Chromium	0.02	0.02	U
1311	02/18/11	6010B	02/21/11	7439-92-1	Lead	0.1	0.1	U
1311	02/18/11	7470A	02/22/11	7439-97-6	Mercury	0.0001	0.0001	U
1311	02/18/11	6010B	02/21/11	**7440-02-0**	**Nickel**	0.05	**2.74**	
1311	02/18/11	6010B	02/21/11	7782-49-2	Selenium	0.2	0.2	U
1311	02/18/11	6010B	02/21/11	7440-22-4	Silver	0.02	0.02	U

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TCLP METALS

Sample ID: JF-PLSD-PS-15A
DUPLICATE

Lab Sample ID: SJ49A
LIMS ID: 11-3467
Matrix: Soil
Data Release Authorized:
Reported: 02/23/11

QC Report No: SJ49-The Boeing Company
Project: Jorgensen Forge
7KPL2JOR
Date Sampled: 01/24/11
Date Received: 01/24/11

MATRIX DUPLICATE QUALITY CONTROL REPORT

Analyte	Analysis Method	Sample	Duplicate	RPD	Control Limit	Q
Arsenic	6010B	0.2 U	0.2 U	0.0%	+/- 0.2	L
Barium	6010B	0.19	0.19	0.0%	+/- 20%	
Cadmium	6010B	0.01 U	0.01 U	0.0%	+/- 0.01	L
Chromium	6010B	0.02 U	0.02 U	0.0%	+/- 0.02	L
Lead	6010B	0.1 U	0.1 U	0.0%	+/- 0.1	L
Mercury	7470A	0.0001 U	0.0001 U	0.0%	+/- 0.0001	L
Nickel	6010B	2.74	2.70	1.5%	+/- 20%	
Selenium	6010B	0.2 U	0.2 U	0.0%	+/- 0.2	L
Silver	6010B	0.02 U	0.02 U	0.0%	+/- 0.02	L

Reported in mg/L

*-Control Limit Not Met
L-RPD Invalid, Limit = Detection Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TCLP METALS

Sample ID: JF-PLSD-PS-15A
MATRIX SPIKE

Lab Sample ID: SJ49A
LIMS ID: 11-3467
Matrix: Soil
Data Release Authorized:
Reported: 02/23/11

QC Report No: SJ49-The Boeing Company
Project: Jorgensen Forge
7KPL2JOR
Date Sampled: 01/24/11
Date Received: 01/24/11

MATRIX SPIKE QUALITY CONTROL REPORT

Analyte	Analysis Method	Sample	Spike	Spike Added	% Recovery	Q
Arsenic	6010B	0.2 U	4.2	4.0	105%	
Barium	6010B	0.19	4.14	4.00	98.8%	
Cadmium	6010B	0.01 U	1.04	1.00	104%	
Chromium	6010B	0.02 U	1.01	1.00	101%	
Lead	6010B	0.1 U	4.1	4.0	102%	
Mercury	7470A	0.0001 U	0.0011	0.0010	110%	
Nickel	6010B	2.74	3.74	1.00	100%	
Selenium	6010B	0.2 U	4.3	4.0	108%	
Silver	6010B	0.02 U	1.02	1.00	102%	

Reported in mg/L

N-Control Limit Not Met
H-% Recovery Not Applicable, Sample Concentration Too High
NA-Not Applicable, Analyte Not Spiked

Percent Recovery Limits: 75-125%

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TCLP METALS

Sample ID: JF-PLSD-PS-15B
SAMPLE

Lab Sample ID: SJ49B
LIMS ID: 11-3468
Matrix: Soil
Data Release Authorized:
Reported: 02/23/11

QC Report No: SJ49-The Boeing Company
Project: Jorgensen Forge
7KPL2JOR
Date Sampled: 01/24/11
Date Received: 01/24/11

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/L	Q
1311	02/18/11	6010B	02/21/11	7440-38-2	Arsenic	0.2	0.2	U
1311	02/18/11	6010B	02/21/11	**7440-39-3**	**Barium**	0.02	**0.75**	
1311	02/18/11	6010B	02/21/11	**7440-43-9**	**Cadmium**	0.01	**0.11**	
1311	02/18/11	6010B	02/21/11	**7440-47-3**	**Chromium**	0.02	**0.12**	
1311	02/18/11	6010B	02/21/11	**7439-92-1**	**Lead**	0.1	**1.3**	
1311	02/18/11	7470A	02/22/11	7439-97-6	Mercury	0.0001	0.0001	U
1311	02/18/11	6010B	02/21/11	**7440-02-0**	**Nickel**	0.05	**2.47**	
1311	02/18/11	6010B	02/21/11	7782-49-2	Selenium	0.2	0.2	U
1311	02/18/11	6010B	02/21/11	7440-22-4	Silver	0.02	0.02	U

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TCLP METALS

Sample ID: JF-PLSD-PS-24A
SAMPLE

Lab Sample ID: SJ49C
LIMS ID: 11-3469
Matrix: Soil
Data Release Authorized:
Reported: 02/23/11

QC Report No: SJ49-The Boeing Company
Project: Jorgensen Forge
7KPL2JOR
Date Sampled: 01/24/11
Date Received: 01/24/11

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/L	Q
1311	02/18/11	6010B	02/21/11	7440-38-2	Arsenic	0.2	0.2	U
1311	02/18/11	6010B	02/21/11	**7440-39-3**	**Barium**	0.02	**0.18**	
1311	02/18/11	6010B	02/21/11	**7440-43-9**	**Cadmium**	0.01	**0.08**	
1311	02/18/11	6010B	02/21/11	**7440-47-3**	**Chromium**	0.02	**0.05**	
1311	02/18/11	6010B	02/21/11	**7439-92-1**	**Lead**	0.1	**0.2**	
1311	02/18/11	7470A	02/22/11	7439-97-6	Mercury	0.0001	0.0001	U
1311	02/18/11	6010B	02/21/11	**7440-02-0**	**Nickel**	0.05	**2.46**	
1311	02/18/11	6010B	02/21/11	7782-49-2	Selenium	0.2	0.2	U
1311	02/18/11	6010B	02/21/11	7440-22-4	Silver	0.02	0.02	U

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TCLP METALS

Sample ID: JF-PLSD-PS-24B
SAMPLE

Lab Sample ID: SJ49D
LIMS ID: 11-3470
Matrix: Soil
Data Release Authorized:
Reported: 02/23/11

QC Report No: SJ49-The Boeing Company
Project: Jorgensen Forge
7KPL2JOR
Date Sampled: 01/24/11
Date Received: 01/24/11

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/L	Q
1311	02/18/11	6010B	02/21/11	7440-38-2	Arsenic	0.2	0.2	U
1311	02/18/11	6010B	02/21/11	**7440-39-3**	**Barium**	0.02	**0.07**	
1311	02/18/11	6010B	02/21/11	7440-43-9	Cadmium	0.01	0.01	U
1311	02/18/11	6010B	02/21/11	7440-47-3	Chromium	0.02	0.02	U
1311	02/18/11	6010B	02/21/11	7439-92-1	Lead	0.1	0.1	U
1311	02/18/11	7470A	02/22/11	7439-97-6	Mercury	0.0001	0.0001	U
1311	02/18/11	6010B	02/21/11	**7440-02-0**	**Nickel**	0.05	**1.30**	
1311	02/18/11	6010B	02/21/11	7782-49-2	Selenium	0.2	0.2	U
1311	02/18/11	6010B	02/21/11	7440-22-4	Silver	0.02	0.02	U

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TCLP METALS

Sample ID: JF-PLSD-PS-37-7
SAMPLE

Lab Sample ID: SJ49E
LIMS ID: 11-3471
Matrix: Soil
Data Release Authorized:
Reported: 02/23/11

QC Report No: SJ49-The Boeing Company
Project: Jorgensen Forge
7KPL2JOR
Date Sampled: 01/24/11
Date Received: 01/24/11

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/L	Q
1311	02/18/11	6010B	02/21/11	7440-38-2	Arsenic	0.2	0.2	U
1311	02/18/11	6010B	02/21/11	**7440-39-3**	**Barium**	0.02	**0.09**	
1311	02/18/11	6010B	02/21/11	**7440-43-9**	**Cadmium**	0.01	**0.02**	
1311	02/18/11	6010B	02/21/11	7440-47-3	Chromium	0.02	0.02	U
1311	02/18/11	6010B	02/21/11	**7439-92-1**	**Lead**	0.1	**0.8**	
1311	02/18/11	7470A	02/22/11	7439-97-6	Mercury	0.0001	0.0001	U
1311	02/18/11	6010B	02/21/11	**7440-02-0**	**Nickel**	0.05	**0.32**	
1311	02/18/11	6010B	02/21/11	7782-49-2	Selenium	0.2	0.2	U
1311	02/18/11	6010B	02/21/11	7440-22-4	Silver	0.02	0.02	U

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TCLP METALS

Sample ID: JF-PLSD-PS-37-2
SAMPLE

Lab Sample ID: SJ49F
LIMS ID: 11-3472
Matrix: Soil
Data Release Authorized:
Reported: 02/23/11

QC Report No: SJ49-The Boeing Company
Project: Jorgensen Forge
7KPL2JOR
Date Sampled: 01/24/11
Date Received: 01/24/11

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/L	Q
1311	02/18/11	6010B	02/21/11	7440-38-2	Arsenic	0.2	0.2	U
1311	02/18/11	6010B	02/21/11	**7440-39-3**	**Barium**	0.02	**0.24**	
1311	02/18/11	6010B	02/21/11	**7440-43-9**	**Cadmium**	0.01	**0.07**	
1311	02/18/11	6010B	02/21/11	**7440-47-3**	**Chromium**	0.02	**0.06**	
1311	02/18/11	6010B	02/21/11	**7439-92-1**	**Lead**	0.1	**4.0**	
1311	02/18/11	7470A	02/22/11	7439-97-6	Mercury	0.0001	0.0001	U
1311	02/18/11	6010B	02/21/11	**7440-02-0**	**Nickel**	0.05	**1.23**	
1311	02/18/11	6010B	02/21/11	7782-49-2	Selenium	0.2	0.2	U
1311	02/18/11	6010B	02/21/11	7440-22-4	Silver	0.02	0.02	U

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TCLP METALS

Sample ID: JF-PLSD-PS-PUBLIC
SAMPLE

Lab Sample ID: SJ49G
LIMS ID: 11-3473
Matrix: Soil
Data Release Authorized:
Reported: 02/23/11

QC Report No: SJ49-The Boeing Company
Project: Jorgensen Forge
7KPL2JOR
Date Sampled: 01/24/11
Date Received: 01/24/11

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/L	Q
1311	02/18/11	6010B	02/21/11	7440-38-2	Arsenic	0.2	0.2	U
1311	02/18/11	6010B	02/21/11	**7440-39-3**	**Barium**	0.02	**0.34**	
1311	02/18/11	6010B	02/21/11	**7440-43-9**	**Cadmium**	0.01	**0.04**	
1311	02/18/11	6010B	02/21/11	**7440-47-3**	**Chromium**	0.02	**0.04**	
1311	02/18/11	6010B	02/21/11	**7439-92-1**	**Lead**	0.1	**1.2**	
1311	02/18/11	7470A	02/22/11	7439-97-6	Mercury	0.0001	0.0001	U
1311	02/18/11	6010B	02/21/11	**7440-02-0**	**Nickel**	0.05	**0.21**	
1311	02/18/11	6010B	02/21/11	7782-49-2	Selenium	0.2	0.2	U
1311	02/18/11	6010B	02/21/11	7440-22-4	Silver	0.02	0.02	U

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TCLP METALS

Sample ID: METHOD BLANK

Lab Sample ID: SJ49MB
LIMS ID: 11-3468
Matrix: Soil
Data Release Authorized:
Reported: 02/23/11

QC Report No: SJ49-The Boeing Company
Project: Jorgensen Forge
7KPL2JOR
Date Sampled: NA
Date Received: NA

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/L	Q
1311	02/18/11	6010B	02/21/11	7440-38-2	Arsenic	0.2	0.2	U
1311	02/18/11	6010B	02/21/11	7440-39-3	Barium	0.02	0.02	U
1311	02/18/11	6010B	02/21/11	7440-43-9	Cadmium	0.01	0.01	U
1311	02/18/11	6010B	02/21/11	7440-47-3	Chromium	0.02	0.02	U
1311	02/18/11	6010B	02/21/11	7439-92-1	Lead	0.1	0.1	U
1311	02/18/11	7470A	02/22/11	7439-97-6	Mercury	0.0001	0.0001	U
1311	02/18/11	6010B	02/21/11	7440-02-0	Nickel	0.05	0.05	U
1311	02/18/11	6010B	02/21/11	7782-49-2	Selenium	0.2	0.2	U
1311	02/18/11	6010B	02/21/11	7440-22-4	Silver	0.02	0.02	U

U-Analyte undetected at given RL
RL-Reporting Limit

Analytical Resources, Incorporated
Analytical Chemists and Consultants

February 21, 2011

Tom Colligan
Floyd Snider
601 Union Street, Suite 600
Seattle, WA 98101-2341

RE: Project: Jorgensen Forge
ARI Job No: SJ56

Dear Tom:

Please find enclosed analytical results and the original Chain of Custody documentation (COC) for the project referenced above. Analytical Resources, Incorporated (ARI) accepted one water sample and one soil sample soil sample on February 17, 2011. The samples were received in good condition. The soil sample was logged under a different ARI SDG based on client specified turn around times.

The sample was analyzed for PCBs, as requested.

No analytical complications were noted for this analysis. Quality control results are included for your review.

A copy of the reports and all associated raw data will remain on file with ARI. If you have any questions or require additional information, please contact me at your convenience.

Sincerely,

ANALYTICAL RESOURCES, INC.

Kelly Bottem
Client Services Manager
kellyb@arilabs.com
206-695-6211
Enclosures

Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: SJ56	Turn-around Requested: 2DAY sample#1 ; Standard other	Page: 1	of 1
ARI Client Company: FLOYD SNIDER	Phone: 206 292 2078	Date: 2/17/11	Ice Present? Y
Client Contact: NICK GARSON / TOM COLLIGAN		No. of Coolers: 1	Cooler Temps: 2.2
Client Project Name: JORGENSEN FORGE			
Client Project #: 7KPL2JOR	Samplers: D. BRAME		

Analytical Resources, Incorporated
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6201 (fax)

Sample ID	Date	Time	Matrix	No. Containers	MTCA PCBs (8)	RCRA Metals TCLP							Notes/Comments
JF-PLSD-RJW-4L	2/15/11	1145	Water	1	X								2-DAY
JF-PLSD-SWC-17	2/17/11	1215	Soil	1	X	X							STANDARD

Comments/Special Instructions	Relinquished by:	Received by:	Relinquished by:	Received by:
	(Signature) [signature]	(Signature) [signature]	(Signature)	(Signature)
	Printed Name: DEAN BRAME	Printed Name: A. Volgardsen	Printed Name:	Printed Name:
	Company: FLOYD SNIDER	Company: ARI	Company:	Company:
	Date & Time: 2/17/11 1434	Date & Time: 2/17/11 1436	Date & Time:	Date & Time:

Limits of Liability: *ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, not withstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.*

Sample Retention Policy: All samples submitted to ARI will be appropriately discarded no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer, unless alternate retention schedules have been established by work-order or contract.

Sample ID Cross Reference Report

ANALYTICAL RESOURCES INCORPORATED

ARI Job No: SJ56
Client: The Boeing Company
Project Event: 7KPL2JOR
Project Name: Jorgensen Forge

	Sample ID	ARI Lab ID	ARI LIMS ID	Matrix	Sample Date/Time	VTSR
1.	JF-PLSD-RJW-4L	SJ56A	11-3497	Water	02/15/11 11:45	02/17/11 14:36

Printed 02/17/11

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: Boeing

Project Name: Jorgansen forge.

COC No(s): _____ NA

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____

Assigned ARI Job No: SJ56

Tracking No: _____ NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of to cooler?	YES	NO
Were custody papers included with the cooler?	YES	NO
Were custody papers properly filled out (ink, signed, etc.)	YES	NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)..... 2.2 ___ ___ ___ ___ ___

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID#: 909411619

Cooler Accepted by: AV Date: 2/17/11 Time: 1436

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler?		YES	NO
What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: _____			
Was sufficient ice used (if appropriate)?	NA	YES	NO
Were all bottles sealed in individual plastic bags?		YES	NO
Did all bottles arrive in good condition (unbroken)?		YES	NO
Were all bottle labels complete and legible?		YES	NO
Did the number of containers listed on COC match with the number of containers received?		YES	NO
Did all bottle labels and tags agree with custody papers?		YES	NO
Were all bottles used correct for the requested analyses?		YES	NO
Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs)...	NA	YES	NO
Were all VOC vials free of air bubbles?	NA	YES	NO
Was sufficient amount of sample sent in each bottle?		YES	NO
Date VOC Trip Blank was made at ARI	NA	_____	

Was Sample Split by ARI : NA YES Date/Time: _____ Equipment: _____ Split by: _____

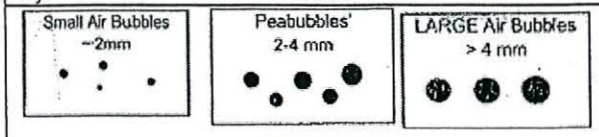
Samples Logged by: [signature] Date: 2/17/11 Time: 1452.

***** Notify Project Manager of discrepancies or concerns *****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: Date:



Small → "sm"
Peabubbles → "pb"
Large → "lg"
Headspace → "hs"

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: JF-PLSD-RJW-4L
SAMPLE

Lab Sample ID: SJ56A
LIMS ID: 11-3497
Matrix: Water
Data Release Authorized:
Reported: 02/21/11

QC Report No: SJ56-The Boeing Company
Project: Jorgensen Forge
7KPL2JOR
Date Sampled: 02/15/11
Date Received: 02/17/11

Date Extracted: 02/17/11
Date Analyzed: 02/18/11 12:56
Instrument/Analyst: ECD7/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes

Sample Amount: 500 mL
Final Extract Volume: 1.0 mL
Dilution Factor: 1.00
Silica Gel: Yes
Acid Cleanup: Yes

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	0.10	< 0.10 U
53469-21-9	Aroclor 1242	0.10	< 0.10 U
12672-29-6	**Aroclor 1248**	**0.10**	**1.6**
11097-69-1	**Aroclor 1254**	**0.10**	**1.9**
11096-82-5	Aroclor 1260	0.16	< 0.16 Y
11104-28-2	Aroclor 1221	0.10	< 0.10 U
11141-16-5	Aroclor 1232	0.10	< 0.10 U
37324-23-5	Aroclor 1262	0.10	< 0.10 U

Reported in µg/L (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	80.8%
Tetrachlorometaxylene	68.5%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: MB-021711
METHOD BLANK

Lab Sample ID: MB-021711
LIMS ID: 11-3497
Matrix: Water
Data Release Authorized:
Reported: 02/21/11

QC Report No: SJ56-The Boeing Company
Project: Jorgensen Forge
7KPL2JOR
Date Sampled: NA
Date Received: NA

Date Extracted: 02/17/11
Date Analyzed: 02/18/11 10:56
Instrument/Analyst: ECD7/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes

Sample Amount: 500 mL
Final Extract Volume: 1.0 mL
Dilution Factor: 1.00
Silica Gel: Yes
Acid Cleanup: Yes

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	0.10	< 0.10 U
53469-21-9	Aroclor 1242	0.10	< 0.10 U
12672-29-6	Aroclor 1248	0.10	< 0.10 U
11097-69-1	Aroclor 1254	0.10	< 0.10 U
11096-82-5	Aroclor 1260	0.10	< 0.10 U
11104-28-2	Aroclor 1221	0.10	< 0.10 U
11141-16-5	Aroclor 1232	0.10	< 0.10 U
37324-23-5	Aroclor 1262	0.10	< 0.10 U

Reported in µg/L (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	78.0%
Tetrachlorometaxylene	66.0%

ANALYTICAL RESOURCES INCORPORATED

SW8082/PCB WATER SURROGATE RECOVERY SUMMARY

Matrix: Water

QC Report No: SJ56-The Boeing Company
Project: Jorgensen Forge
7KPL2JOR

Client ID	DCBP % REC	DCBP LCL-UCL	TCMX % REC	TCMX LCL-UCL	TOT OUT
MB-021711	78.0%	35-116	66.0%	29-100	0
LCS-021711	81.2%	35-116	67.0%	29-100	0
LCSD-021711	78.8%	35-116	62.0%	29-100	0
JF-PLSD-RJW-4L	80.8%	10-128	68.5%	25-100	0

Prep Method: SW3510C
Log Number Range: 11-3497 to 11-3497

FORM-II SW8082

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: LCS-021711
LCS/LCSD

Lab Sample ID: LCS-021711
LIMS ID: 11-3497
Matrix: Water
Data Release Authorized:
Reported: 02/21/11

QC Report No: SJ56-The Boeing Company
Project: Jorgensen Forge
7KPL2JOR
Date Sampled: NA
Date Received: NA

Date Extracted LCS/LCSD: 02/17/11

Date Analyzed LCS: 02/18/11 11:20
LCSD: 02/18/11 11:44
Instrument/Analyst LCS: ECD7/JGR
LCSD: ECD7/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes

Sample Amount LCS: 500 mL
LCSD: 500 mL
Final Extract Volume LCS: 1.0 mL
LCSD: 1.0 mL
Dilution Factor LCS: 1.00
LCSD: 1.00
Silica Gel: Yes
Acid Cleanup: Yes

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Aroclor 1016	0.654	1.00	65.4%	0.647	1.00	64.7%	1.1%
Aroclor 1260	0.733	1.00	73.3%	0.735	1.00	73.5%	0.3%

PCB Surrogate Recovery

	LCS	LCSD
Decachlorobiphenyl	81.2%	78.8%
Tetrachlorometaxylene	67.0%	62.0%

Results reported in µg/L
RPD calculated using sample concentrations per SW846.

Analytical Resources, Incorporated
Analytical Chemists and Consultants

February 28, 2011

Tom Colligan
Floyd Snider
601 Union Street, Suite 600
Seattle, WA 98101-2341

RE: Project: Jorgensen Forge
ARI Job No: SJ68

Dear Tom:

Please find enclosed analytical results and the original Chain of Custody documentation (COC) for the project referenced above. Analytical Resources, Incorporated (ARI) accepted one water sample and one soil sample soil sample on February 17, 2011. The samples were received in good condition. The water sample was logged under ARI SDG SJ56 based on client specified turn around times.

The sample was analyzed for PCBs and TCLP metals, as requested.

The PCBs LCS is out of control high for aroclor 1016. No action was taken.

The surrogate TCMX is out of control high for sample JF-PLSD-SWC-17.

No other analytical complications were noted for this analysis. Quality control results are included for your review.

A copy of the reports and all associated raw data will remain on file with ARI. If you have any questions or require additional information, please contact me at your convenience.

Sincerely,

ANALYTICAL RESOURCES, INC.

Kelly Bottem
Client Services Manager
kellyb@arilabs.com
206-695-6211
Enclosures

Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number:	5168
Turn-around Requested:	2DAY sample #1 ; Standard other
Page:	1 of 1
ARI Client Company:	FLOYD SNIDER
Phone:	206 292 2078
Date:	2/17/11
Ice Present?	Y
Client Contact:	NICK GARSON / TOM COLLIGAN
No. of Coolers:	1
Cooler Temps:	2.2
Client Project Name:	JORGENSEN FORGE
Client Project #:	7KPL2JOR
Samplers:	D. BRAME

Analytical Resources, Incorporated
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6201 (fax)

Sample ID	Date	Time	Matrix	No. Containers	MTCA PCBs (8)	RCRA Metals TCLP							Notes/Comments
JF-PLSD-RJW-4L	2/15/11	1145	Water	1	X								2-DAY
JF-PLSD-SWC-17	2/17/11	1215	Soil	1	X	X							STANDARD

9 aroclor
Regular
PCB
STD

Analysis Requested

Comments/Special Instructions	Relinquished by:	Received by:	Relinquished by:	Received by:
(Signature)	[signature]	[signature]		
Printed Name:	DEAN BRAME	A. Volgardsen		
Company:	FLOYD SNIDER	ARI		
Date & Time:	2/17/11 1434	2/17/11 1436		

Limits of Liability: *ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, not withstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.*

Sample Retention Policy: All samples submitted to ARI will be appropriately discarded no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer, unless alternate retention schedules have been established by work-order or contract.

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: Boeing

Project Name: Jorgensen Forge

COC No(s): _____ (NA)

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____

Assigned ARI Job No: SJ168

Tracking No: _____ (NA)

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of to cooler?	YES	(NO)
Were custody papers included with the cooler?	(YES)	NO
Were custody papers properly filled out (ink, signed, etc.)	(YES)	NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)..... 2.2 ___ ___ ___ ___

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID#: 90941619

Cooler Accepted by: AV Date: 2/17/11 Time: 1430

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler?		YES	(NO)
What kind of packing material was used? ... Bubble Wrap (Wet Ice) Gel Packs (Baggies) Foam Block Paper Other: _____			
Was sufficient ice used (if appropriate)?	NA	(YES)	NO
Were all bottles sealed in individual plastic bags?		(YES)	NO
Did all bottles arrive in good condition (unbroken)?		(YES)	NO
Were all bottle labels complete and legible?		(YES)	NO
Did the number of containers listed on COC match with the number of containers received?		(YES)	NO
Did all bottle labels and tags agree with custody papers?		(YES)	NO
Were all bottles used correct for the requested analyses?		(YES)	NO
Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs)...	(NA)	YES	NO
Were all VOC vials free of air bubbles?	(NA)	YES	NO
Was sufficient amount of sample sent in each bottle?		(YES)	NO
Date VOC Trip Blank was made at ARI	(NA)		

Was Sample Split by ARI : (NA) YES Date/Time: _____ Equipment: _____ Split by: _____

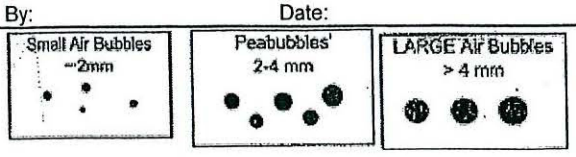
Samples Logged by: AV Date: 2/17/11 Time: 1755

***** Notify Project Manager of discrepancies or concerns *****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: Date:



Small → "sm"	
Peabubbles → "pb"	
Large → "lg"	
Headspace → "hs"	

Sample ID Cross Reference Report

ANALYTICAL RESOURCES INCORPORATED

ARI Job No: SJ68
Client: The Boeing Company
Project Event: 7KPL2JOR
Project Name: Jorgensen Forge

	Sample ID	ARI Lab ID	ARI LIMS ID	Matrix	Sample Date/Time	VTSR
1.	JF-PLSD-SWC-17	SJ68A	11-3586	Soil	02/17/11 12:15	02/17/11 14:36

Printed 02/17/11

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: JF-PLSD-SWC-17
SAMPLE

Lab Sample ID: SJ68A
LIMS ID: 11-3586
Matrix: Soil
Data Release Authorized:
Reported: 02/28/11

QC Report No: SJ68-The Boeing Company
Project: Jorgensen Forge
7KPL2JOR
Date Sampled: 02/17/11
Date Received: 02/17/11

Date Extracted: 02/22/11
Date Analyzed: 02/25/11 09:49
Instrument/Analyst: ECD5/JLW
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 0.84 g-dry-wt
Final Extract Volume: 40 mL
Dilution Factor: 50.0
Silica Gel: No

Percent Moisture: 18.0%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	48,000	< 48,000 U
53469-21-9	Aroclor 1242	48,000	< 48,000 U
12672-29-6	Aroclor 1248	190,000	< 190,000 Y
11097-69-1	**Aroclor 1254**	**48,000**	**350,000**
11096-82-5	Aroclor 1260	48,000	< 48,000 U
11104-28-2	Aroclor 1221	48,000	< 48,000 U
11141-16-5	Aroclor 1232	48,000	< 48,000 U
37324-23-5	Aroclor 1262	48,000	< 48,000 U
11100-14-4	Aroclor 1268	48,000	< 48,000 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	145%
Tetrachlorometaxylene	114%

ANALYTICAL RESOURCES INCORPORATED

SW8082/PCB SOIL/SEDIMENT SURROGATE RECOVERY SUMMARY

Matrix: Soil

QC Report No: SJ68-The Boeing Company
Project: Jorgensen Forge
7KPL2JOR

Client ID	DCBP % REC	DCBP LCL-UCL	TCMX % REC	TCMX LCL-UCL	TOT OUT
MB-022211	92.9%	51-127	88.0%	49-110	0
LCS-022211	101%	51-127	98.9%	49-110	0
JF-PLSD-SWC-17	145%	22-168	114%*	28-106	1

Medium Level Control Limits
Prep Method: SW3580A
Log Number Range: 11-3586 to 11-3586

FORM-II SW8082

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: MB-022211
METHOD BLANK

Lab Sample ID: MB-022211
LIMS ID: 11-3586
Matrix: Soil
Data Release Authorized:
Reported: 02/28/11

QC Report No: SJ68-The Boeing Company
Project: Jorgensen Forge
7KPL2JOR
Date Sampled: NA
Date Received: NA

Date Extracted: 02/22/11
Date Analyzed: 02/25/11 09:11
Instrument/Analyst: ECD5/JLW
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 5.00 g
Final Extract Volume: 40 mL
Dilution Factor: 5.00
Silica Gel: No

Percent Moisture: NA

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	800	< 800 U
53469-21-9	Aroclor 1242	800	< 800 U
12672-29-6	Aroclor 1248	800	< 800 U
11097-69-1	Aroclor 1254	800	< 800 U
11096-82-5	Aroclor 1260	800	< 800 U
11104-28-2	Aroclor 1221	800	< 800 U
11141-16-5	Aroclor 1232	800	< 800 U
37324-23-5	Aroclor 1262	800	< 800 U
11100-14-4	Aroclor 1268	800	< 800 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	92.9%
Tetrachlorometaxylene	88.0%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: LCS-022211
LAB CONTROL

Lab Sample ID: LCS-022211
LIMS ID: 11-3586
Matrix: Soil
Data Release Authorized:
Reported: 02/28/11

QC Report No: SJ68-The Boeing Company
Project: Jorgensen Forge
7KPL2JOR
Date Sampled: NA
Date Received: NA

Date Extracted: 02/22/11
Date Analyzed: 02/25/11 09:30
Instrument/Analyst: ECD5/JLW
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 5.00 g-dry-wt
Final Extract Volume: 40 mL
Dilution Factor: 5.00
Silica Gel: No

Percent Moisture: NA

Analyte	Lab Control	Spike Added	Recovery
Aroclor 1016	4460	4000	112%
Aroclor 1260	4060	4000	102%

PCB Surrogate Recovery

Decachlorobiphenyl	101%
Tetrachlorometaxylene	98.9%

Results reported in µg/kg (ppb)

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TCLP METALS

Sample ID: JF-PLSD-SWC-17
SAMPLE

Lab Sample ID: SJ68A
LIMS ID: 11-3586
Matrix: Soil
Data Release Authorized:
Reported: 02/25/11

QC Report No: SJ68-The Boeing Company
Project: Jorgensen Forge
7KPL2JOR
Date Sampled: 02/17/11
Date Received: 02/17/11

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/L	Q
1311	02/22/11	6010B	02/24/11	7440-38-2	Arsenic	0.2	0.2	U
1311	02/22/11	6010B	02/24/11	**7440-39-3**	**Barium**	0.02	**0.06**	
1311	02/22/11	6010B	02/24/11	**7440-43-9**	**Cadmium**	0.01	**0.01**	
1311	02/22/11	6010B	02/24/11	7440-47-3	Chromium	0.02	0.02	U
1311	02/22/11	6010B	02/24/11	7439-92-1	Lead	0.1	0.1	U
1311	02/22/11	7470A	02/22/11	7439-97-6	Mercury	0.0001	0.0001	U
1311	02/22/11	6010B	02/24/11	7782-49-2	Selenium	0.2	0.2	U
1311	02/22/11	6010B	02/24/11	7440-22-4	Silver	0.02	0.02	U

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TCLP METALS

Sample ID: JF-PLSD-SWC-17
DUPLICATE

Lab Sample ID: SJ68A
LIMS ID: 11-3586
Matrix: Soil
Data Release Authorized:
Reported: 02/25/11

QC Report No: SJ68-The Boeing Company
Project: Jorgensen Forge
7KPL2JOR
Date Sampled: 02/17/11
Date Received: 02/17/11

MATRIX DUPLICATE QUALITY CONTROL REPORT

Analyte	Analysis Method	Sample	Duplicate	RPD	Control Limit	Q
Arsenic	6010B	0.2 U	0.2 U	0.0%	+/- 0.2	L
Barium	6010B	0.06	0.06	0.0%	+/- 0.02	L
Cadmium	6010B	0.01	0.01	0.0%	+/- 0.01	L
Chromium	6010B	0.02 U	0.02 U	0.0%	+/- 0.02	L
Lead	6010B	0.1 U	0.1 U	0.0%	+/- 0.1	L
Mercury	7470A	0.0001 U	0.0001 U	0.0%	+/- 0.0001	L
Selenium	6010B	0.2 U	0.2 U	0.0%	+/- 0.2	L
Silver	6010B	0.02 U	0.02 U	0.0%	+/- 0.02	L

Reported in mg/L

*-Control Limit Not Met
L-RPD Invalid, Limit = Detection Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TCLP METALS

Sample ID: JF-PLSD-SWC-17
MATRIX SPIKE

Lab Sample ID: SJ68A
LIMS ID: 11-3586
Matrix: Soil
Data Release Authorized:
Reported: 02/25/11

QC Report No: SJ68-The Boeing Company
Project: Jorgensen Forge
7KPL2JOR
Date Sampled: 02/17/11
Date Received: 02/17/11

MATRIX SPIKE QUALITY CONTROL REPORT

Analyte	Analysis Method	Sample	Spike	Spike Added	% Recovery	Q
Arsenic	6010B	0.2 U	4.1	4.0	102%	
Barium	6010B	0.06	3.93	4.00	96.8%	
Cadmium	6010B	0.01	1.08	1.00	107%	
Chromium	6010B	0.02 U	1.00	1.00	100%	
Lead	6010B	0.1 U	4.1	4.0	102%	
Mercury	7470A	0.0001 U	0.0011	0.0010	110%	
Selenium	6010B	0.2 U	4.2	4.0	105%	
Silver	6010B	0.02 U	1.02	1.00	102%	

Reported in mg/L

N-Control Limit Not Met
H-% Recovery Not Applicable, Sample Concentration Too High
NA-Not Applicable, Analyte Not Spiked

Percent Recovery Limits: 75-125%

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TCLP METALS

Sample ID: METHOD BLANK

Lab Sample ID: SJ68MB
LIMS ID: 11-3586
Matrix: Soil
Data Release Authorized:
Reported: 02/25/11

QC Report No: SJ68-The Boeing Company
Project: Jorgensen Forge
7KPL2JOR
Date Sampled: NA
Date Received: NA

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/L	Q
1311	02/22/11	6010B	02/24/11	7440-38-2	Arsenic	0.2	0.2	U
1311	02/22/11	6010B	02/24/11	7440-39-3	Barium	0.02	0.02	U
1311	02/22/11	6010B	02/24/11	7440-43-9	Cadmium	0.01	0.01	U
1311	02/22/11	6010B	02/24/11	7440-47-3	Chromium	0.02	0.02	U
1311	02/22/11	6010B	02/24/11	7439-92-1	Lead	0.1	0.1	U
1311	02/22/11	7470A	02/22/11	7439-97-6	Mercury	0.0001	0.0001	U
1311	02/22/11	6010B	02/24/11	7782-49-2	Selenium	0.2	0.2	U
1311	02/22/11	6010B	02/24/11	7440-22-4	Silver	0.02	0.02	U

U-Analyte undetected at given RL
RL-Reporting Limit

Analytical Resources, Incorporated
Analytical Chemists and Consultants

March 3, 2011

Tom Colligan
Floyd Snider
601 Union Street, Suite 600
Seattle, WA 98101-2341

RE: Project: Jorgensen Forge
ARI Job No: SK67

Dear Tom:

Please find enclosed analytical results and the original Chain of Custody documentation (COC) for the project referenced above. Analytical Resources, Incorporated (ARI) accepted three water samples and one solid sample on February 25, 2011. The samples were received in good condition. The solid sample has been logged under a different ARI SDG based on client specified turn around times.

The samples were analyzed for PCBs, Total Metals, pH, Settleable Solids and Oil and Grease, as requested.

The PCB surrogate DCBP is out of control high for all associated samples. No action was taken.

No other analytical complications were noted for this analysis. Quality control results are included for your review.

A copy of the reports and all associated raw data will remain on file with ARI. If you have any questions or require additional information, please contact me at your convenience.

Sincerely,

ANALYTICAL RESOURCES, INC.

Kelly Bottem
Client Services Manager
kellyb@arilabs.com
206-695-6211
Enclosures

Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: SK67	Turn-around Requested: Water-5 Day; Solid-Standard
ARI Client Company: Floyd | Snider	Phone: 206-292-2078
Client Contact: Nick Garson / Tom Colligan	
Client Project Name: Jorgensen Forge	
Client Project #: 7KPL2JOR	Samplers: D. BRAME

Page: 1 of 1	
Date: 2/25/11	Ice Present? Y
No. of Coolers: 2	Cooler Temps: 2.7, 1.8

Analytical Resources, Incorporated
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6201 (fax)

Sample ID	Date	Time	Matrix	No. Containers	pH	Total Metals	HEM (FOG)	Settleable Solids	MTCA PCBs (8)	TOTAL PCBs			Notes/Comments
JF-PLSD-WC-B08	2/25/11	1250	Water	6	x	x	x	x	x				5-Day
JF-PLSD-WC-B59	2/25/11	1330	Water	6	x	x	x	x	x				5-Day
JF-PLSD-WC-B89	2/25/11	1355	Water	6	x	x	x	x	x				5-Day
JF-PLSD-WD-12	2/25/11	1445	Solid	1						x			Standard

Comments/Special Instructions	Relinquished by:	Received by:	Relinquished by:	Received by:
	(Signature) [signature]	(Signature) [signature]	(Signature)	(Signature)
	Printed Name: DEAN BRAME	Printed Name: Taylor Streeter	Printed Name:	Printed Name:
	Company: FLOYD | SNIDER	Company: ARI	Company:	Company:
	Date & Time: 2/25/11 1605	Date & Time: 2-25-11 16:10	Date & Time:	Date & Time:

Limits of Liability: *ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, not withstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.*

Sample Retention Policy: All samples submitted to ARI will be appropriately discarded no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer, unless alternate retention schedules have been established by work-order or contract.

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: ~~Floyd Snider~~ Boeing JM

Project Name: Jorgensen Forge

COC No(s): _____ NA

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____

Assigned ARI Job No: SK67

Tracking No: _____ NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of to cooler?	YES	(NO)
Were custody papers included with the cooler?	(YES)	NO
Were custody papers properly filled out (ink, signed, etc.)	(YES)	NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)..... 2.7 1.8 ___ ___ ___

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID#: 90941619

Cooler Accepted by: TB Date: 2-25-11 Time: 18:10

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler?		YES	(NO)
What kind of packing material was used? ... Bubble Wrap (Wet Ice) Gel Packs Baggies Foam Block Paper Other: _____			
Was sufficient ice used (if appropriate)?	NA	(YES)	NO
Were all bottles sealed in individual plastic bags?		YES	(NO)
Did all bottles arrive in good condition (unbroken)?		(YES)	NO
Were all bottle labels complete and legible?		(YES)	NO
Did the number of containers listed on COC match with the number of containers received?		(YES)	NO
Did all bottle labels and tags agree with custody papers?		(YES)	NO
Were all bottles used correct for the requested analyses?		(YES)	NO
Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs)...	NA	(YES)	NO
Were all VOC vials free of air bubbles?	(NA)	YES	NO
Was sufficient amount of sample sent in each bottle?		(YES)	NO
Date VOC Trip Blank was made at ARI	(NA)	_____	

Was Sample Split by ARI : (NA) YES Date/Time: _____ Equipment: _____ Split by: _____

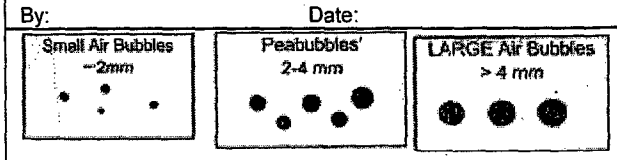
Samples Logged by: JM Date: 2/25/11 Time: 1649

***** Notify Project Manager of discrepancies or concerns *****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: Date:



Small → "sm"
Peabubbles → "pb"
Large → "lg"
Headspace → "hs"

Sample ID Cross Reference Report

ANALYTICAL RESOURCES INCORPORATED

ARI Job No: SK67
Client: The Boeing Company
Project Event: 7KPL2JOR
Project Name: Jorgensen Forge

	Sample ID	ARI Lab ID	ARI LIMS ID	Matrix	Sample Date/Time	VTSR
1.	JF-PLSD-WC-B08	SK67A	11-4082	Water	02/25/11 12:50	02/25/11 16:10
2.	JF-PLSD-WC-B59	SK67B	11-4083	Water	02/25/11 13:30	02/25/11 16:10
3.	JF-PLSD-WC-B89	SK67C	11-4084	Water	02/25/11 13:55	02/25/11 16:10

Printed 02/25/11

PRESERVATION VERIFICATION 02/25/11

ANALYTICAL RESOURCES INCORPORATED

ARI Job No: **SK67**

PC: Kelly
VTSR: 02/25/11

Inquiry Number: NONE
Analysis Requested: 02/28/11
Contact: Garson, Nick
Client: The Boeing Company
Logged by: JM
Sample Set Used: Yes-481
Validatable Package: No
Deliverables:

Project #: 7KPL2JOR
Project: Jorgensen Forge
Sample Site:
SDG No:
Analytical Protocol: In-house

LOGNUM ARI ID	CLIENT ID	CN >12	WAD >12	NH3 <2	COD <2	FOG <2	MET <2	PHEN <2	PHOS <2	TKN <2	NO23 <2	TOC <2	S2 >9	AK102 <2	Fe2+ <2	DMET FLT	DOC FLT	PARAMETER	ADJUSTED TO	LOT NUMBER	AMOUNT ADDED	DATE/BY
11-4082 **SK67A**	JF-PLSD-WC-B08					pass	TOT pass															
11-4083 **SK67B**	JF-PLSD-WC-B59						TOT															
11-4084 **SK67C**	JF-PLSD-WC-B89						TOT															

Checked By JM Date 2/25/11

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: JF-PLSD-WC-B08
SAMPLE

Lab Sample ID: SK67A
LIMS ID: 11-4082
Matrix: Water
Data Release Authorized:
Reported: 03/02/11

QC Report No: SK67-The Boeing Company
Project: Jorgensen Forge
7KPL2JOR
Date Sampled: 02/25/11
Date Received: 02/25/11

Date Extracted: 02/28/11
Date Analyzed: 03/02/11 09:31
Instrument/Analyst: ECD7/AAR
GPC Cleanup: No
Sulfur Cleanup: Yes

Sample Amount: 500 mL
Final Extract Volume: 1.0 mL
Dilution Factor: 10.0
Silica Gel: No
Acid Cleanup: Yes

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	1.0	< 1.0 U
53469-21-9	Aroclor 1242	1.0	< 1.0 U
12672-29-6	Aroclor 1248	3.5	< 3.5 Y
11097-69-1	**Aroclor 1254**	**1.0**	**5.5**
11096-82-5	Aroclor 1260	1.0	< 1.0 U
11104-28-2	Aroclor 1221	1.0	< 1.0 U
11141-16-5	Aroclor 1232	1.0	< 1.0 U
37324-23-5	Aroclor 1262	1.0	< 1.0 U

Reported in µg/L (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	140%
Tetrachlorometaxylene	73.0%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: JF-PLSD-WC-B59
SAMPLE

Lab Sample ID: SK67B
LIMS ID: 11-4083
Matrix: Water
Data Release Authorized:
Reported: 03/02/11

QC Report No: SK67-The Boeing Company
Project: Jorgensen Forge
7KPL2JOR
Date Sampled: 02/25/11
Date Received: 02/25/11

Date Extracted: 02/28/11
Date Analyzed: 03/02/11 09:55
Instrument/Analyst: ECD7/AAR
GPC Cleanup: No
Sulfur Cleanup: Yes

Sample Amount: 500 mL
Final Extract Volume: 1.0 mL
Dilution Factor: 10.0
Silica Gel: No
Acid Cleanup: Yes

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	1.0	< 1.0 U
53469-21-9	Aroclor 1242	1.0	< 1.0 U
12672-29-6	Aroclor 1248	2.6	< 2.6 Y
11097-69-1	**Aroclor 1254**	**1.0**	**3.2**
11096-82-5	Aroclor 1260	1.0	< 1.0 U
11104-28-2	Aroclor 1221	1.0	< 1.0 U
11141-16-5	Aroclor 1232	1.0	< 1.0 U
37324-23-5	Aroclor 1262	1.0	< 1.0 U

Reported in µg/L (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	137%
Tetrachlorometaxylene	74.2%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: JF-PLSD-WC-B89
SAMPLE

Lab Sample ID: SK67C
LIMS ID: 11-4084
Matrix: Water
Data Release Authorized:
Reported: 03/02/11

QC Report No: SK67-The Boeing Company
Project: Jorgensen Forge
7KPL2JOR
Date Sampled: 02/25/11
Date Received: 02/25/11

Date Extracted: 02/28/11
Date Analyzed: 03/02/11 10:19
Instrument/Analyst: ECD7/AAR
GPC Cleanup: No
Sulfur Cleanup: Yes

Sample Amount: 500 mL
Final Extract Volume: 1.0 mL
Dilution Factor: 10.0
Silica Gel: No
Acid Cleanup: Yes

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	1.0	< 1.0 U
53469-21-9	Aroclor 1242	1.0	< 1.0 U
12672-29-6	Aroclor 1248	2.0	< 2.0 Y
11097-69-1	**Aroclor 1254**	**1.0**	**2.1**
11096-82-5	Aroclor 1260	1.0	< 1.0 U
11104-28-2	Aroclor 1221	1.0	< 1.0 U
11141-16-5	Aroclor 1232	1.0	< 1.0 U
37324-23-5	Aroclor 1262	1.0	< 1.0 U

Reported in µg/L (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	131%
Tetrachlorometaxylene	69.2%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: MB-022811
METHOD BLANK

Lab Sample ID: MB-022811
LIMS ID: 11-4082
Matrix: Water
Data Release Authorized:
Reported: 03/02/11

QC Report No: SK67-The Boeing Company
Project: Jorgensen Forge
7KPL2JOR
Date Sampled: NA
Date Received: NA

Date Extracted: 02/28/11
Date Analyzed: 03/01/11 13:25
Instrument/Analyst: ECD7/AAR
GPC Cleanup: No
Sulfur Cleanup: Yes

Sample Amount: 500 mL
Final Extract Volume: 1.0 mL
Dilution Factor: 1.00
Silica Gel: No
Acid Cleanup: Yes

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	0.10	< 0.10 U
53469-21-9	Aroclor 1242	0.10	< 0.10 U
12672-29-6	Aroclor 1248	0.10	< 0.10 U
11097-69-1	Aroclor 1254	0.10	< 0.10 U
11096-82-5	Aroclor 1260	0.10	< 0.10 U
11104-28-2	Aroclor 1221	0.10	< 0.10 U
11141-16-5	Aroclor 1232	0.10	< 0.10 U
37324-23-5	Aroclor 1262	0.10	< 0.10 U

Reported in µg/L (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	89.2%
Tetrachlorometaxylene	71.2%

ANALYTICAL RESOURCES INCORPORATED

SW8082/PCB WATER SURROGATE RECOVERY SUMMARY

Matrix: Water

QC Report No: SK67-The Boeing Company
Project: Jorgensen Forge
7KPL2JOR

Client ID	DCBP % REC	DCBP LCL-UCL	TCMX % REC	TCMX LCL-UCL	TOT OUT
MB-022811	89.2%	35-116	71.2%	29-100	0
LCS-022811	92.0%	35-116	77.0%	29-100	0
LCSD-022811	90.8%	35-116	75.5%	29-100	0
JF-PLSD-WC-B08	140%*	10-128	73.0%	25-100	1
JF-PLSD-WC-B59	137%*	10-128	74.2%	25-100	1
JF-PLSD-WC-B89	131%*	10-128	69.2%	25-100	1

Prep Method: SW3510C
Log Number Range: 11-4082 to 11-4084

FORM-II SW8082

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: LCS-022811
LCS/LCSD

Lab Sample ID: LCS-022811
LIMS ID: 11-4082
Matrix: Water
Data Release Authorized:
Reported: 03/02/11

QC Report No: SK67-The Boeing Company
Project: Jorgensen Forge
7KPL2JOR
Date Sampled: NA
Date Received: NA

Date Extracted LCS/LCSD: 02/28/11

Date Analyzed LCS: 03/01/11 13:49
LCSD: 03/01/11 14:13
Instrument/Analyst LCS: ECD7/AAR
LCSD: ECD7/AAR
GPC Cleanup: No
Sulfur Cleanup: Yes

Sample Amount LCS: 500 mL
LCSD: 500 mL
Final Extract Volume LCS: 1.0 mL
LCSD: 1.0 mL
Dilution Factor LCS: 1.00
LCSD: 1.00
Silica Gel: No
Acid Cleanup: Yes

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Aroclor 1016	0.756	1.00	75.6%	0.790	1.00	79.0%	4.4%
Aroclor 1260	0.796	1.00	79.6%	0.822	1.00	82.2%	3.2%

PCB Surrogate Recovery

	LCS	LCSD
Decachlorobiphenyl	92.0%	90.8%
Tetrachlorometaxylene	77.0%	75.5%

Results reported in µg/L
RPD calculated using sample concentrations per SW846.

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: JF-PLSD-WC-B08
SAMPLE

Lab Sample ID: SK67A
LIMS ID: 11-4082
Matrix: Water
Data Release Authorized:
Reported: 03/02/11

QC Report No: SK67-The Boeing Company
Project: Jorgensen Forge
7KPL2JOR
Date Sampled: 02/25/11
Date Received: 02/25/11

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/L	Q
3010A	02/28/11	6010B	03/01/11	7440-43-9	Cadmium	0.002	0.002	U
3010A	02/28/11	6010B	03/01/11	7440-47-3	Chromium	0.005	0.005	U
3010A	02/28/11	6010B	03/01/11	**7440-50-8**	**Copper**	0.002	**0.006**	
3010A	02/28/11	6010B	03/01/11	7439-92-1	Lead	0.02	0.02	U
3010A	02/28/11	6010B	03/01/11	7440-02-0	Nickel	0.01	0.01	U
3010A	02/28/11	6010B	03/01/11	7440-22-4	Silver	0.003	0.003	U
3010A	02/28/11	6010B	03/01/11	**7440-66-6**	**Zinc**	0.01	**0.01**	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: JF-PLSD-WC-B59
SAMPLE

Lab Sample ID: SK67B
LIMS ID: 11-4083
Matrix: Water
Data Release Authorized
Reported: 03/02/11

QC Report No: SK67-The Boeing Company
Project: Jorgensen Forge
7KPL2JOR
Date Sampled: 02/25/11
Date Received: 02/25/11

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/L	Q
3010A	02/28/11	6010B	03/01/11	7440-43-9	Cadmium	0.002	0.002	U
3010A	02/28/11	6010B	03/01/11	7440-47-3	Chromium	0.005	0.005	U
3010A	02/28/11	6010B	03/01/11	**7440-50-8**	**Copper**	0.002	**0.006**	
3010A	02/28/11	6010B	03/01/11	7439-92-1	Lead	0.02	0.02	U
3010A	02/28/11	6010B	03/01/11	7440-02-0	Nickel	0.01	0.01	U
3010A	02/28/11	6010B	03/01/11	7440-22-4	Silver	0.003	0.003	U
3010A	02/28/11	6010B	03/01/11	**7440-66-6**	**Zinc**	0.01	**0.01**	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: METHOD BLANK

Lab Sample ID: SK67MB
LIMS ID: 11-4082
Matrix: Water
Data Release Authorized:
Reported: 03/02/11

QC Report No: SK67-The Boeing Company
Project: Jorgensen Forge
7KPL2JOR
Date Sampled: NA
Date Received: NA

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/L	Q
3010A	02/28/11	6010B	03/01/11	7440-43-9	Cadmium	0.002	0.002	U
3010A	02/28/11	6010B	03/01/11	7440-47-3	Chromium	0.005	0.005	U
3010A	02/28/11	6010B	03/01/11	7440-50-8	Copper	0.002	0.002	U
3010A	02/28/11	6010B	03/01/11	7439-92-1	Lead	0.02	0.02	U
3010A	02/28/11	6010B	03/01/11	7440-02-0	Nickel	0.01	0.01	U
3010A	02/28/11	6010B	03/01/11	7440-22-4	Silver	0.003	0.003	U
3010A	02/28/11	6010B	03/01/11	7440-66-6	Zinc	0.01	0.01	U

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: LAB CONTROL

Lab Sample ID: SK67LCS
LIMS ID: 11-4082
Matrix: Water
Data Release Authorized:
Reported: 03/02/11

QC Report No: SK67-The Boeing Company
Project: Jorgensen Forge
7KPL2JOR
Date Sampled: NA
Date Received: NA

BLANK SPIKE QUALITY CONTROL REPORT

Analyte	Analysis Method	Spike Found	Spike Added	% Recovery	Q
Cadmium	6010B	0.514	0.500	103%	
Chromium	6010B	0.498	0.500	99.6%	
Copper	6010B	0.506	0.500	101%	
Lead	6010B	1.98	2.00	99.0%	
Nickel	6010B	0.49	0.50	98.0%	
Silver	6010B	0.519	0.500	104%	
Zinc	6010B	0.49	0.50	98.0%	

Reported in mg/L

N-Control limit not met
Control Limits: 80-120%

SAMPLE RESULTS-CONVENTIONALS
SK67-The Boeing Company

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 03/02/11

Project: Jorgensen Forge
Event: 7KPL2JOR
Date Sampled: 02/25/11
Date Received: 02/25/11

Client ID: JF-PLSD-WC-B08
ARI ID: 11-4082 SK67A

Analyte	Date Batch	Method	Units	RL	Sample
pH	02/25/11 022511#1	EPA 150.1	std units	0.01	7.58
Settleable Solids	02/26/11 022611#1	EPA 160.5	mL/L	0.1	< 0.1 U
HEM Oil & Grease	03/01/11 030111#1	EPA 1664A	mg/L	5.7	< 5.7 U

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
SK67-The Boeing Company

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 03/02/11

Project: Jorgensen Forge
Event: 7KPL2JOR
Date Sampled: 02/25/11
Date Received: 02/25/11

Client ID: JF-PLSD-WC-B59
ARI ID: 11-4083 SK67B

Analyte	Date Batch	Method	Units	RL	Sample
pH	02/25/11 022511#1	EPA 150.1	std units	0.01	7.57
Settleable Solids	02/26/11 022611#1	EPA 160.5	mL/L	0.1	< 0.1 U
HEM Oil & Grease	03/01/11 030111#1	EPA 1664A	mg/L	5.7	< 5.7 U

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
SK67-The Boeing Company

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 03/02/11

Project: Jorgensen Forge
Event: 7KPL2JOR
Date Sampled: 02/25/11
Date Received: 02/25/11

Client ID: JF-PLSD-WC-B89
ARI ID: 11-4084 SK67C

Analyte	Date Batch	Method	Units	RL	Sample
pH	02/25/11 022511#1	EPA 150.1	std units	0.01	7.61
Settleable Solids	02/26/11 022611#1	EPA 160.5	mL/L	0.1	< 0.1 U
HEM Oil & Grease	03/01/11 030111#1	EPA 1664A	mg/L	5.7	< 5.7 U

RL Analytical reporting limit
U Undetected at reported detection limit

METHOD BLANK RESULTS-CONVENTIONALS
SK67-The Boeing Company

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 03/02/11

Project: Jorgensen Forge
Event: 7KPL2JOR
Date Sampled: NA
Date Received: NA

Analyte	Method	Date	Units	Blank	ID
Settleable Solids	EPA 160.5	02/26/11	mL/L	< 0.1 U	
HEM Oil & Grease	EPA 1664A	03/01/11	mg/L	< 5.0 U	

LAB CONTROL RESULTS-CONVENTIONALS
SK67-The Boeing Company

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized
Reported: 03/02/11

Project: Jorgensen Forge
Event: 7KPL2JOR
Date Sampled: NA
Date Received: NA

Analyte/Method	QC ID	Date	Units	LCS	Spike Added	Recovery
pH EPA 150.1	ICVL	02/25/11	std units	7.01	7.00	0.01
HEM Oil & Grease EPA 1664A	ICVL	03/01/11	mg/L	32.3	40.0	80.8%

pH is evaluated as the Absolute Difference between the values rather than Percent Recovery.

REPLICATE RESULTS-CONVENTIONALS
SK67-The Boeing Company

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 03/02/11

Project: Jorgensen Forge
Event: 7KPL2JOR
Date Sampled: 02/25/11
Date Received: 02/25/11

Analyte	Method	Date	Units	Sample	Replicate(s)	RPD/RSD
ARI ID: SK67A Client ID: JF-PLSD-WC-B08						
pH	EPA 150.1	02/25/11	std units	7.58	7.58	0.00

pH is evaluated as the Absolute Difference between the values rather than Relative Percent Difference

Analytical Resources, Incorporated
Analytical Chemists and Consultants

March 1, 2011

Tom Colligan
Floyd Snider
601 Union Street, Suite 600
Seattle, WA 98101-2341

RE: Project: Jorgensen Forge
ARI Job No: SK80

Dear Tom:

Please find enclosed analytical results and the original Chain of Custody documentation (COC) for the project referenced above. Analytical Resources, Incorporated (ARI) accepted seven wipe samples and one solid sample on February 28, 2011. The samples were received in good condition. The solid sample has been placed on hold pending further instructions.

The samples were analyzed for PCBs, as requested.

No analytical complications were noted for this analysis. Quality control results are included for your review.

A copy of the reports and all associated raw data will remain on file with ARI. If you have any questions or require additional information, please contact me at your convenience.

Sincerely,

ANALYTICAL RESOURCES, INC.

Kelly Bottem
Client Services Manager
kellyb@arilabs.com
206-695-6211
Enclosures

Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: SR80	Turn-around Requested: 5-24hr; 1-Standard, 1-HOLD	Page: 1 of 1	
ARI Client Company: FLOYD | SNIDER	Phone: 206 292 2078	Date: 2/28/11	Ice Present? Y
Client Contact: NICK GARSON / TOM COLLIGAN		No. of Coolers: 1	Cooler Temps: 4.6
Client Project Name: Sorgensen Forge			
Client Project #: 7KPL2 SOR	Samplers: D. BRAME		

Analytical Resources, Incorporated
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6201 (fax)

Sample ID	Date	Time	Matrix	No. Containers	PCBs (1668)								Notes/Comments
JF-PLSD-WP-B10K1	2/28/11	1215	HEX WIPE	1	X								24 HR TURN
JF-PLSD-WP-B10K2		1215		1									
JF-PLSD-WP-B10K3		1215		1									
JF-PLSD-WP-B10K4		1215		1									
JF-PLSD-WP-B10K5		1215		1									
JF-PLSD-WP-SF		1210		1									STANDARD
JF-PLSD-PS-4L		1115	Solid	1									HOLD
SS-PLSD-WP-4L	2/28/11	10:45	Wipe	1	X				Relinquished to		2/28/11 3:20 pm		

Comments/Special Instructions	Relinquished by: (Signature)	Received by: (Signature)	Relinquished by: (Signature)	Received by: (Signature)
	Printed Name: DEAN BRAME	Printed Name: A. Volgardsen	Printed Name:	Printed Name:
	Company: FLOYD | SNIDER	Company: ARI	Company:	Company:
	Date & Time: 2/28/11 1445	Date & Time: 2/28/11 1450	Date & Time:	Date & Time:

Limits of Liability: *ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, not withstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.*

Sample Retention Policy: All samples submitted to ARI will be appropriately discarded no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer, unless alternate retention schedules have been established by work-order or contract.

Sample ID Cross Reference Report

ANALYTICAL RESOURCES INCORPORATED

ARI Job No: SK80
Client: The Boeing Company
Project Event: 7KPL2JOR
Project Name: Jorgensen Forge

	Sample ID	ARI Lab ID	ARI LIMS ID	Matrix	Sample Date/Time	VTSR
1.	JF-PLSD-WP-B10K1	SK80A	11-4124	Wipe	02/28/11 12:15	02/28/11 14:50
2.	JF-PLSD-WP-B10K2	SK80B	11-4125	Wipe	02/28/11 12:15	02/28/11 14:50
3.	JF-PLSD-WP-B10K3	SK80C	11-4126	Wipe	02/28/11 12:15	02/28/11 14:50
4.	JF-PLSD-WP-B10K4	SK80D	11-4127	Wipe	02/28/11 12:15	02/28/11 14:50
5.	JF-PLSD-WP-B10K5	SK80E	11-4128	Wipe	02/28/11 12:15	02/28/11 14:50
6.	JF-PLSD-WP-SF	SK80F	11-4129	Wipe	02/28/11 12:10	02/28/11 14:50
7.	JF-PLSD-WP-4L	SK80G	11-4130	Wipe	02/28/11 10:45	02/28/11 14:50
8.	JF-PLSD-PS-4L	SK80H	11-4131	Solid	02/28/11 11:15	02/28/11 14:50

Printed 03/01/11

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: Boeing

Project Name: Jorgensen forge

COC No(s): _____ NA

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____

Assigned ARI Job No: SK60

Tracking No: _____ NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of to cooler? YES NO

Were custody papers included with the cooler? ..... YES NO

Were custody papers properly filled out (ink, signed, etc.) ..... YES NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)..... 4.6

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID#: 90941169

Cooler Accepted by: AV Date: 2/28/11 Time: 1450

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? ..... YES NO

What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: _____

Was sufficient ice used (if appropriate)? ..... NA YES NO

Were all bottles sealed in individual plastic bags? ..... YES NO

Did all bottles arrive in good condition (unbroken)? ..... YES NO

Were all bottle labels complete and legible? ..... YES NO

Did the number of containers listed on COC match with the number of containers received? ..... YES NO

Did all bottle labels and tags agree with custody papers? ..... YES NO

Were all bottles used correct for the requested analyses? ..... YES NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs)... NA YES NO

Were all VOC vials free of air bubbles? ..... NA YES NO

Was sufficient amount of sample sent in each bottle? ..... YES NO

Date VOC Trip Blank was made at ARI..... NA _____

Was Sample Split by ARI : NA YES Date/Time: _____ Equipment: _____ Split by: _____

Samples Logged by: MM Date: 2/28/11 Time: 1500

***** Notify Project Manager of discrepancies or concerns *****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

JF-PLSD-WP-4L not on C.O.C, sampled 2/28/11 @ 1045.

By: AV Date: 2/28/11

Small Air Bubbles <2mm	Peabubbles' 2-4 mm	LARGE Air Bubbles > 4 mm	
			Small → "sm"
			Peabubbles → "pb"
			Large → "lg"
			Headspace → "hs"

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: JF-PLSD-WP-B10K1
SAMPLE

Lab Sample ID: SK80A
LIMS ID: 11-4124
Matrix: Wipe
Data Release Authorized:
Reported: 03/01/11

QC Report No: SK80-The Boeing Company
Project: Jorgensen Forge
7KPL2JOR
Date Sampled: 02/28/11
Date Received: 02/28/11

Date Extracted: 02/28/11
Date Analyzed: 03/01/11 09:15
Instrument/Analyst: ECD5/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes

Sample Amount: 1.00 Wipe
Final Extract Volume: 10 mL
Dilution Factor: 5.00
Silica Gel: No

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	1.0	< 1.0 U
53469-21-9	Aroclor 1242	1.0	< 1.0 U
12672-29-6	Aroclor 1248	1.0	< 1.0 U
11097-69-1	Aroclor 1254	1.0	< 1.0 U
11096-82-5	Aroclor 1260	1.0	< 1.0 U
11104-28-2	Aroclor 1221	1.0	< 1.0 U
11141-16-5	Aroclor 1232	1.0	< 1.0 U

Reported in Total µg

PCB Surrogate Recovery

Decachlorobiphenyl	100%
Tetrachlorometaxylene	86.9%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: JF-PLSD-WP-B10K2
SAMPLE

Lab Sample ID: SK80B
LIMS ID: 11-4125
Matrix: Wipe
Data Release Authorized:
Reported: 03/01/11

QC Report No: SK80-The Boeing Company
Project: Jorgensen Forge
7KPL2JOR
Date Sampled: 02/28/11
Date Received: 02/28/11

Date Extracted: 02/28/11
Date Analyzed: 03/01/11 09:34
Instrument/Analyst: ECD5/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes

Sample Amount: 1.00 Wipe
Final Extract Volume: 10 mL
Dilution Factor: 5.00
Silica Gel: No

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	1.0	< 1.0 U
53469-21-9	Aroclor 1242	1.0	< 1.0 U
12672-29-6	Aroclor 1248	1.0	< 1.0 U
11097-69-1	Aroclor 1254	1.0	< 1.0 U
11096-82-5	Aroclor 1260	1.0	< 1.0 U
11104-28-2	Aroclor 1221	1.0	< 1.0 U
11141-16-5	Aroclor 1232	1.0	< 1.0 U

Reported in Total µg

PCB Surrogate Recovery

Decachlorobiphenyl	100%
Tetrachlorometaxylene	82.1%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: JF-PLSD-WP-B10K3
SAMPLE

Lab Sample ID: SK80C
LIMS ID: 11-4126
Matrix: Wipe
Data Release Authorized:
Reported: 03/01/11

QC Report No: SK80-The Boeing Company
Project: Jorgensen Forge
7KPL2JOR
Date Sampled: 02/28/11
Date Received: 02/28/11

Date Extracted: 02/28/11
Date Analyzed: 03/01/11 09:53
Instrument/Analyst: ECD5/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes

Sample Amount: 1.00 Wipe
Final Extract Volume: 10 mL
Dilution Factor: 5.00
Silica Gel: No

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	1.0	< 1.0 U
53469-21-9	Aroclor 1242	1.0	< 1.0 U
12672-29-6	Aroclor 1248	1.0	< 1.0 U
11097-69-1	Aroclor 1254	1.0	< 1.0 U
11096-82-5	Aroclor 1260	1.0	< 1.0 U
11104-28-2	Aroclor 1221	1.0	< 1.0 U
11141-16-5	Aroclor 1232	1.0	< 1.0 U

Reported in Total µg

PCB Surrogate Recovery

Decachlorobiphenyl	104%
Tetrachlorometaxylene	86.6%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: JF-PLSD-WP-B10K4
SAMPLE

Lab Sample ID: SK80D
LIMS ID: 11-4127
Matrix: Wipe
Data Release Authorized:
Reported: 03/01/11

QC Report No: SK80-The Boeing Company
Project: Jorgensen Forge
7KPL2JOR
Date Sampled: 02/28/11
Date Received: 02/28/11

Date Extracted: 02/28/11
Date Analyzed: 03/01/11 10:12
Instrument/Analyst: ECD5/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes

Sample Amount: 1.00 Wipe
Final Extract Volume: 10 mL
Dilution Factor: 5.00
Silica Gel: No

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	1.0	< 1.0 U
53469-21-9	Aroclor 1242	1.0	< 1.0 U
12672-29-6	Aroclor 1248	1.0	< 1.0 U
11097-69-1	Aroclor 1254	1.0	< 1.0 U
11096-82-5	Aroclor 1260	1.0	< 1.0 U
11104-28-2	Aroclor 1221	1.0	< 1.0 U
11141-16-5	Aroclor 1232	1.0	< 1.0 U

Reported in Total µg

PCB Surrogate Recovery

Decachlorobiphenyl	100%
Tetrachlorometaxylene	89.4%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: JF-PLSD-WP-B10K5
SAMPLE

Lab Sample ID: SK80E
LIMS ID: 11-4128
Matrix: Wipe
Data Release Authorized:
Reported: 03/01/11

QC Report No: SK80-The Boeing Company
Project: Jorgensen Forge
7KPL2JOR
Date Sampled: 02/28/11
Date Received: 02/28/11

Date Extracted: 02/28/11
Date Analyzed: 03/01/11 10:31
Instrument/Analyst: ECD5/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes

Sample Amount: 1.00 Wipe
Final Extract Volume: 10 mL
Dilution Factor: 5.00
Silica Gel: No

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	1.0	< 1.0 U
53469-21-9	Aroclor 1242	1.0	< 1.0 U
12672-29-6	Aroclor 1248	1.0	< 1.0 U
11097-69-1	Aroclor 1254	1.0	< 1.0 U
11096-82-5	Aroclor 1260	1.0	< 1.0 U
11104-28-2	Aroclor 1221	1.0	< 1.0 U
11141-16-5	Aroclor 1232	1.0	< 1.0 U

Reported in Total µg

PCB Surrogate Recovery

Decachlorobiphenyl	104%
Tetrachlorometaxylene	89.6%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: JF-PLSD-WP-SF
SAMPLE

Lab Sample ID: SK80F
LIMS ID: 11-4129
Matrix: Wipe
Data Release Authorized:
Reported: 03/01/11

QC Report No: SK80-The Boeing Company
Project: Jorgensen Forge
7KPL2JOR
Date Sampled: 02/28/11
Date Received: 02/28/11

Date Extracted: 02/28/11
Date Analyzed: 03/01/11 10:49
Instrument/Analyst: ECD5/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes

Sample Amount: 1.00 Wipe
Final Extract Volume: 10 mL
Dilution Factor: 5.00
Silica Gel: No

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	1.0	< 1.0 U
53469-21-9	Aroclor 1242	1.0	< 1.0 U
12672-29-6	Aroclor 1248	1.0	< 1.0 U
11097-69-1	Aroclor 1254	1.0	< 1.0 U
11096-82-5	Aroclor 1260	1.0	< 1.0 U
11104-28-2	Aroclor 1221	1.0	< 1.0 U
11141-16-5	Aroclor 1232	1.0	< 1.0 U

Reported in Total µg

PCB Surrogate Recovery

Decachlorobiphenyl	103%
Tetrachlorometaxylene	88.4%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: JF-PLSD-WP-4L
SAMPLE

Lab Sample ID: SK80G
LIMS ID: 11-4130
Matrix: Wipe
Data Release Authorized:
Reported: 03/01/11

QC Report No: SK80-The Boeing Company
Project: Jorgensen Forge
7KPL2JOR
Date Sampled: 02/28/11
Date Received: 02/28/11

Date Extracted: 02/28/11
Date Analyzed: 03/01/11 11:08
Instrument/Analyst: ECD5/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes

Sample Amount: 1.00 Wipe
Final Extract Volume: 10 mL
Dilution Factor: 5.00
Silica Gel: No

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	1.0	< 1.0 U
53469-21-9	Aroclor 1242	1.0	< 1.0 U
12672-29-6	Aroclor 1248	4.0	< 4.0 Y
11097-69-1	**Aroclor 1254**	**1.0**	**4.9**
11096-82-5	Aroclor 1260	1.0	< 1.0 U
11104-28-2	Aroclor 1221	1.0	< 1.0 U
11141-16-5	Aroclor 1232	1.0	< 1.0 U

Reported in Total µg

PCB Surrogate Recovery

Decachlorobiphenyl	96.2%
Tetrachlorometaxylene	90.5%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: MB-022811
METHOD BLANK

Lab Sample ID: MB-022811
LIMS ID: 11-4124
Matrix: Wipe
Data Release Authorized:
Reported: 03/01/11

QC Report No: SK80-The Boeing Company
Project: Jorgensen Forge
7KPL2JOR
Date Sampled: NA
Date Received: NA

Date Extracted: 02/28/11
Date Analyzed: 03/01/11 11:27
Instrument/Analyst: ECD5/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes

Sample Amount: 1.00 Wipe
Final Extract Volume: 10 mL
Dilution Factor: 5.00
Silica Gel: No

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	1.0	< 1.0 U
53469-21-9	Aroclor 1242	1.0	< 1.0 U
12672-29-6	Aroclor 1248	1.0	< 1.0 U
11097-69-1	Aroclor 1254	1.0	< 1.0 U
11096-82-5	Aroclor 1260	1.0	< 1.0 U
11104-28-2	Aroclor 1221	1.0	< 1.0 U
11141-16-5	Aroclor 1232	1.0	< 1.0 U

Reported in Total µg

PCB Surrogate Recovery

Decachlorobiphenyl	110%
Tetrachlorometaxylene	89.9%

ANALYTICAL RESOURCES INCORPORATED

SW8082/PCB SURROGATE RECOVERY SUMMARY

Matrix: Wipe

QC Report No: SK80-The Boeing Company
Project: Jorgensen Forge
7KPL2JOR

Client ID	DCBP	TCMX	TOT OUT
MB-022811	110%	89.9%	0
LCS-022811	105%	91.8%	0
LCSD-022811	106%	95.4%	0
JF-PLSD-WP-B10K1	100%	86.9%	0
JF-PLSD-WP-B10K2	100%	82.1%	0
JF-PLSD-WP-B10K3	104%	86.6%	0
JF-PLSD-WP-B10K4	100%	89.4%	0
JF-PLSD-WP-B10K5	104%	89.6%	0
JF-PLSD-WP-SF	103%	88.4%	0
JF-PLSD-WP-4L	96.2%	90.5%	0

	LCS/MB LIMITS	QC LIMITS
(DCBP) = Decachlorobiphenyl	(30-160)	(30-160)
(TCMX) = Tetrachlorometaxylene	(30-160)	(30-160)

Prep Method: SW3550C
Log Number Range: 11-4124 to 11-4130

FORM-II SW8082

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: LCS-022811
LCS/LCSD

Lab Sample ID: LCS-022811
LIMS ID: 11-4124
Matrix: Wipe
Data Release Authorized:
Reported: 03/01/11

QC Report No: SK80-The Boeing Company
Project: Jorgensen Forge
7KPL2JOR
Date Sampled: 02/28/11
Date Received: 02/28/11

Date Extracted LCS/LCSD: 02/28/11

Date Analyzed LCS: 03/01/11 11:46
LCSD: 03/01/11 12:05
Instrument/Analyst LCS: ECD5/JGR
LCSD: ECD5/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes

Sample Amount LCS: 1.00 Wipe
LCSD: 1.00 Wipe
Final Extract Volume LCS: 10 mL
LCSD: 10 mL
Dilution Factor LCS: 5.00
LCSD: 5.00
Silica Gel: No
Acid Cleanup: Yes

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Aroclor 1016	5.2	5.0	104%	5.2	5.0	104%	0.0%
Aroclor 1260	4.8	5.0	96.0%	5.1	5.0	102%	6.1%

PCB Surrogate Recovery

	LCS	LCSD
Decachlorobiphenyl	105%	106%
Tetrachlorometaxylene	91.8%	95.4%

Reported in Total µg
RPD calculated using sample concentrations per SW846.

Analytical Resources, Incorporated
Analytical Chemists and Consultants

March 15, 2011

Tom Colligan
Floyd Snider
601 Union Street, Suite 600
Seattle, WA 98101-2341

RE: Project: Jorgensen Forge
ARI Job No: SL50

Dear Tom:

Please find enclosed analytical results and the original Chain of Custody documentation (COC) for the project referenced above. Analytical Resources, Incorporated (ARI) accepted one water sample on March 3, 2011. The sample was received in good condition.

The sample was analyzed for PCBs, as requested.

No analytical complications were noted for this analysis. Quality control results are included for your review.

A copy of the reports and all associated raw data will remain on file with ARI. If you have any questions or require additional information, please contact me at your convenience.

Sincerely,

ANALYTICAL RESOURCES, INC.

Kelly Bottem
Client Services Manager
kellyb@arilabs.com
206-695-6211
Enclosures

Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: SL50	Turn-around Requested: STANDARD
ARI Client Company: FLOYD ISNIDER	Phone: 206 292 2078
Client Contact: NICK GARSON / TOM COLLIGAN	
Client Project Name: Jorgensen Forge	
Client Project #: 7KPL2JOR	Samplers: D. BRAME

Page: 1	of 1
Date: 3/3/11	Ice Present? Y
No. of Coolers: 1	Cooler Temps: 5.6

Analytical Resources, Incorporated
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6201 (fax)

Sample ID	Date	Time	Matrix	No. Containers	Analysis Requested: TOTAL PCBs								Notes/Comments
JF-PLSD-CB-10K	3/3/11	0830	Water	1	X								

Comments/Special Instructions				
Relinquished by: (Signature)	Received by: (Signature)	Relinquished by: (Signature)	Received by: (Signature)
Printed Name: DEAN BRAME	Printed Name: Jennifer Millsap	Printed Name:	Printed Name:
Company: FLOYD|SNIDER	Company: ARI	Company:	Company:
Date & Time: 3/3/11 1435	Date & Time: 3/3/11 1435	Date & Time:	Date & Time:

Limits of Liability: *ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, not withstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.*

Sample Retention Policy: All samples submitted to ARI will be appropriately discarded no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer, unless alternate retention schedules have been established by work-order or contract.

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: Floyd / Snider

Project Name: Jorgensen Forge

COC No(s): _____ NA

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____

Assigned ARI Job No: SL50

Tracking No: _____ NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of to cooler?	YES	NO
Were custody papers included with the cooler?	YES	NO
Were custody papers properly filled out (ink, signed, etc.)	YES	NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)..... 5.6 ___ ___ ___ ___

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID#: 90941619

Cooler Accepted by: JM Date: 3/3/11 Time: 1435

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler?		YES	NO
What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: _____			
Was sufficient ice used (if appropriate)?	NA	YES	NO
Were all bottles sealed in individual plastic bags?		YES	NO
Did all bottles arrive in good condition (unbroken)?		YES	NO
Were all bottle labels complete and legible?		YES	NO
Did the number of containers listed on COC match with the number of containers received?		YES	NO
Did all bottle labels and tags agree with custody papers?		YES	NO
Were all bottles used correct for the requested analyses?		YES	NO
Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs)...	NA	YES	NO
Were all VOC vials free of air bubbles?	NA	YES	NO
Was sufficient amount of sample sent in each bottle?		YES	NO
Date VOC Trip Blank was made at ARI	NA		_____

Was Sample Split by ARI : NA YES Date/Time: _____ Equipment: _____ Split by: _____

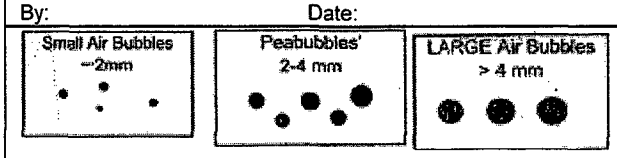
Samples Logged by: AV Date: 3/3/11 Time: 1725

***** Notify Project Manager of discrepancies or concerns *****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: Date:



Small → "sm"
Peabubbles → "pb"
Large → "lg"
Headspace → "hs"

Sample ID Cross Reference Report

ANALYTICAL RESOURCES INCORPORATED

ARI Job No: SL50
Client: The Boeing Company
Project Event: 7KPL2JOR
Project Name: Jorgensen Forge

	Sample ID	ARI Lab ID	ARI LIMS ID	Matrix	Sample Date/Time	VTSR
1.	JF-PLSD-CB-10K	SL50A	11-4526	Water	03/03/11 08:30	03/03/11 14:35

Printed 03/03/11

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: JF-PLSD-CB-10K
SAMPLE

Lab Sample ID: SL50A
LIMS ID: 11-4526
Matrix: Water
Data Release Authorized:
Reported: 03/14/11

QC Report No: SL50-The Boeing Company
Project: Jorgensen Forge
7KPL2JOR
Date Sampled: 03/03/11
Date Received: 03/03/11

Date Extracted: 03/04/11
Date Analyzed: 03/09/11 06:16
Instrument/Analyst: ECD7/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes

Sample Amount: 500 mL
Final Extract Volume: 5.0 mL
Dilution Factor: 1.00
Silica Gel: No
Acid Cleanup: Yes

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	1.0	< 1.0 U
53469-21-9	Aroclor 1242	1.0	< 1.0 U
12672-29-6	Aroclor 1248	1.0	< 1.0 U
11097-69-1	**Aroclor 1254**	**1.0**	**1.0**
11096-82-5	Aroclor 1260	1.0	< 1.0 U
11104-28-2	Aroclor 1221	1.0	< 1.0 U
11141-16-5	Aroclor 1232	1.0	< 1.0 U

Reported in µg/L (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	76.8%
Tetrachlorometaxylene	75.5%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: MB-030411
METHOD BLANK

Lab Sample ID: MB-030411
LIMS ID: 11-4526
Matrix: Water
Data Release Authorized:
Reported: 03/14/11

QC Report No: SL50-The Boeing Company
Project: Jorgensen Forge
7KPL2JOR
Date Sampled: NA
Date Received: NA

Date Extracted: 03/04/11
Date Analyzed: 03/09/11 04:17
Instrument/Analyst: ECD7/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes

Sample Amount: 500 mL
Final Extract Volume: 5.0 mL
Dilution Factor: 1.00
Silica Gel: No
Acid Cleanup: Yes

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	1.0	< 1.0 U
53469-21-9	Aroclor 1242	1.0	< 1.0 U
12672-29-6	Aroclor 1248	1.0	< 1.0 U
11097-69-1	Aroclor 1254	1.0	< 1.0 U
11096-82-5	Aroclor 1260	1.0	< 1.0 U
11104-28-2	Aroclor 1221	1.0	< 1.0 U
11141-16-5	Aroclor 1232	1.0	< 1.0 U

Reported in µg/L (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	57.8%
Tetrachlorometaxylene	75.2%

ANALYTICAL RESOURCES INCORPORATED

SW8082/PCB WATER SURROGATE RECOVERY SUMMARY

Matrix: Water

QC Report No: SL50-The Boeing Company
Project: Jorgensen Forge
7KPL2JOR

Client ID	DCBP % REC	DCBP LCL-UCL	TCMX % REC	TCMX LCL-UCL	TOT OUT
MB-030411	57.8%	41-111	75.2%	40-118	0
LCS-030411	58.2%	41-111	81.0%	40-118	0
LCSD-030411	58.8%	41-111	73.8%	40-118	0
JF-PLSD-CB-10K	76.8%	29-118	75.5%	38-118	0

Prep Method: SW3510C
Log Number Range: 11-4526 to 11-4526

FORM-II SW8082

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: LCS-030411
LCS/LCSD

Lab Sample ID: LCS-030411
LIMS ID: 11-4526
Matrix: Water
Data Release Authorized:
Reported: 03/14/11

QC Report No: SL50-The Boeing Company
Project: Jorgensen Forge
7KPL2JOR
Date Sampled: NA
Date Received: NA

Date Extracted LCS/LCSD: 03/04/11

Date Analyzed LCS: 03/09/11 04:41
LCSD: 03/09/11 05:05
Instrument/Analyst LCS: ECD7/JGR
LCSD: ECD7/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes

Sample Amount LCS: 500 mL
LCSD: 500 mL
Final Extract Volume LCS: 5.0 mL
LCSD: 5.0 mL
Dilution Factor LCS: 1.00
LCSD: 1.00
Silica Gel: No
Acid Cleanup: Yes

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Aroclor 1016	4.60	5.00	92.0%	4.48	5.00	89.6%	2.6%
Aroclor 1260	4.08	5.00	81.6%	3.99	5.00	79.8%	2.2%

PCB Surrogate Recovery

	LCS	LCSD
Decachlorobiphenyl	58.2%	58.8%
Tetrachlorometaxylene	81.0%	73.8%

Results reported in µg/L
RPD calculated using sample concentrations per SW846.

Analytical Resources, Incorporated
Analytical Chemists and Consultants

March 9, 2011

Tom Colligan
Floyd Snider
601 Union Street, Suite 600
Seattle, WA 98101-2341

RE: Project: Jorgensen Forge
ARI Job No: SL80

Dear Tom:

Please find enclosed analytical results and the original Chain of Custody documentation (COC) for the project referenced above. Analytical Resources, Incorporated (ARI) accepted one wipe sample on March 7, 2011. The sample was received in good condition.

The sample was analyzed for PCBs, as requested.

No analytical complications were noted for this analysis. Quality control results are included for your review.

A copy of the reports and all associated raw data will remain on file with ARI. If you have any questions or require additional information, please contact me at your convenience.

Sincerely,

ANALYTICAL RESOURCES, INC.

Kelly Bottem
Client Services Manager
kellyb@arilabs.com
206-695-6211
Enclosures

Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: SL80	Turn-around Requested: 24 HR
ARI Client Company: FLOYD | SNIDER	Phone: 206 292 2078
Client Contact: NICK GARSON / TOM COLLIGAN	
Client Project Name: SORGENSEN FORGE	
Client Project #: 7KPL 2JOR	Samplers: D. BRAME

Page: 1	of 1
Date: 3/7/11	Ice Present? Y
No. of Coolers: 1	Cooler Temps: 3.1

Analytical Resources, Incorporated
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6201 (fax)

Sample ID	Date	Time	Matrix	No. Containers	PCBs (1668)								Notes/Comments
JF-PLSD-WP-VT	3/7/11	1245	HEX WIPE	1	X								

Analysis Requested

Comments/Special Instructions

Relinquished by:	Received by:	Relinquished by:	Received by:
(Signature) [signature]	(Signature) [signature]	(Signature)	(Signature)
Printed Name: DEAN BRAME	Printed Name: Jennifer Millsap	Printed Name:	Printed Name:
Company: FLOYD | SNIDER	Company: ARI	Company:	Company:
Date & Time: 3/7/11 1346	Date & Time: 3/7/11 1346	Date & Time:	Date & Time:

Limits of Liability: *ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, not withstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.*

Sample Retention Policy: All samples submitted to ARI will be appropriately discarded no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer, unless alternate retention schedules have been established by work-order or contract.

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: Boeing

Project Name: Joragensen Forge

COC No(s): _____ (NA)

Delivered by: Fed-Ex UPS Courier (Hand Delivered) Other: _____

Assigned ARI Job No: SL80

Tracking No: _____ (NA)

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of to cooler?	YES	(NO)
Were custody papers included with the cooler?	(YES)	NO
Were custody papers properly filled out (ink, signed, etc.)	(YES)	NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)..... 3.1 ___ ___ ___ ___

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID#: 90941619

Cooler Accepted by: JM Date: 3/7/11 Time: 1346

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler?		YES	(NO)
What kind of packing material was used? ... Bubble Wrap (Wet Ice) Gel Packs Baggies Foam Block Paper Other: _____			
Was sufficient ice used (if appropriate)?	NA	(YES)	NO
Were all bottles sealed in individual plastic bags?		YES	(NO)
Did all bottles arrive in good condition (unbroken)?		(YES)	~~NO~~ JM
Were all bottle labels complete and legible?		(YES)	NO
Did the number of containers listed on COC match with the number of containers received?		(YES)	NO
Did all bottle labels and tags agree with custody papers?		(YES)	NO
Were all bottles used correct for the requested analyses?		(YES)	NO
Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs)...	(NA)	YES	NO
Were all VOC vials free of air bubbles?	(NA)	YES	NO
Was sufficient amount of sample sent in each bottle?		(YES)	NO
Date VOC Trip Blank was made at ARI	(NA)	_____	

Was Sample Split by ARI : (NA) YES Date/Time: _____ Equipment: _____ Split by: _____

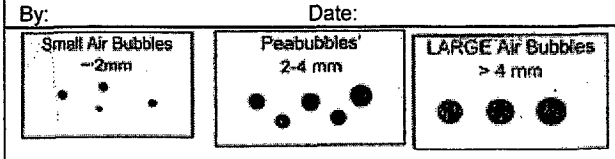
Samples Logged by: JM Date: 3/7/11 Time: 1450

***** Notify Project Manager of discrepancies or concerns *****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: Date:



Small → "sm"	
Peabubbles → "pb"	
Large → "lg"	
Headspace → "hs"	

Sample ID Cross Reference Report

ANALYTICAL RESOURCES INCORPORATED

ARI Job No: SL80
Client: The Boeing Company
Project Event: 7KPL2JOR
Project Name: Jorgensen Forge

	Sample ID	ARI Lab ID	ARI LIMS ID	Matrix	Sample Date/Time	VTSR
1.	JF-PLSD-WP-VT	SL80A	11-4666	Wipe	03/07/11 12:45	03/07/11 13:46

Printed 03/07/11

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: JF-PLSD-WP-VT
SAMPLE

Lab Sample ID: SL80A
LIMS ID: 11-4666
Matrix: Wipe
Data Release Authorized:
Reported: 03/09/11

QC Report No: SL80-The Boeing Company
Project: Jorgensen Forge
7KPL2JOR
Date Sampled: 03/07/11
Date Received: 03/07/11

Date Extracted: 03/07/11
Date Analyzed: 03/09/11 09:22
Instrument/Analyst: ECD5/JLW
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes

Sample Amount: 1.00 Wipe
Final Extract Volume: 10 mL
Dilution Factor: 5.00
Silica Gel: No

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	1.0	< 1.0 U
53469-21-9	Aroclor 1242	1.0	< 1.0 U
12672-29-6	Aroclor 1248	1.0	< 1.0 U
11097-69-1	**Aroclor 1254**	**1.0**	**6.3**
11096-82-5	Aroclor 1260	1.0	< 1.0 U
11104-28-2	Aroclor 1221	1.0	< 1.0 U
11141-16-5	Aroclor 1232	1.0	< 1.0 U
37324-23-5	Aroclor 1262	1.0	< 1.0 U
11100-14-4	Aroclor 1268	1.0	< 1.0 U

Reported in Total µg

PCB Surrogate Recovery

Decachlorobiphenyl	112%
Tetrachlorometaxylene	95.2%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: MB-030711
METHOD BLANK

Lab Sample ID: MB-030711
LIMS ID: 11-4666
Matrix: Wipe
Data Release Authorized:
Reported: 03/09/11

QC Report No: SL80-The Boeing Company
Project: Jorgensen Forge
7KPL2JOR
Date Sampled: NA
Date Received: NA

Date Extracted: 03/07/11
Date Analyzed: 03/09/11 08:26
Instrument/Analyst: ECD5/JLW
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes

Sample Amount: 1.00 Wipe
Final Extract Volume: 10 mL
Dilution Factor: 5.00
Silica Gel: No

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	1.0	< 1.0 U
53469-21-9	Aroclor 1242	1.0	< 1.0 U
12672-29-6	Aroclor 1248	1.0	< 1.0 U
11097-69-1	Aroclor 1254	1.0	< 1.0 U
11096-82-5	Aroclor 1260	1.0	< 1.0 U
11104-28-2	Aroclor 1221	1.0	< 1.0 U
11141-16-5	Aroclor 1232	1.0	< 1.0 U
37324-23-5	Aroclor 1262	1.0	< 1.0 U
11100-14-4	Aroclor 1268	1.0	< 1.0 U

Reported in Total µg

PCB Surrogate Recovery

Decachlorobiphenyl	132%
Tetrachlorometaxylene	118%

ANALYTICAL RESOURCES INCORPORATED

SW8082/PCB SURROGATE RECOVERY SUMMARY

Matrix: Wipe

QC Report No: SL80-The Boeing Company
Project: Jorgensen Forge
7KPL2JOR

Client ID	DCBP	TCMX	TOT OUT
MB-030711	132%	118%	0
LCS-030711	132%	117%	0
LCSD-030711	124%	109%	0
JF-PLSD-WP-VT	112%	95.2%	0

	LCS/MB LIMITS	QC LIMITS
(DCBP) = Decachlorobiphenyl	(30-160)	(30-160)
(TCMX) = Tetrachlorometaxylene	(30-160)	(30-160)

Prep Method: SW3580A
Log Number Range: 11-4666 to 11-4666

FORM-II SW8082

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: LCS-030711
LCS/LCSD

Lab Sample ID: LCS-030711
LIMS ID: 11-4666
Matrix: Wipe
Data Release Authorized:
Reported: 03/09/11

QC Report No: SL80-The Boeing Company
Project: Jorgensen Forge
7KPL2JOR
Date Sampled: 03/07/11
Date Received: 03/07/11

Date Extracted LCS/LCSD: 03/07/11

Date Analyzed LCS: 03/09/11 08:44
LCSD: 03/09/11 09:03
Instrument/Analyst LCS: ECD5/JLW
LCSD: ECD5/JLW
GPC Cleanup: No
Sulfur Cleanup: Yes

Sample Amount LCS: 1.00 Wipe
LCSD: 1.00 Wipe
Final Extract Volume LCS: 10 mL
LCSD: 10 mL
Dilution Factor LCS: 5.00
LCSD: 5.00
Silica Gel: No
Acid Cleanup: Yes

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Aroclor 1016	6.6	5.0	132%	6.2	5.0	124%	6.2%
Aroclor 1260	6.4	5.0	128%	6.1	5.0	122%	4.8%

PCB Surrogate Recovery

	LCS	LCSD
Decachlorobiphenyl	132%	124%
Tetrachlorometaxylene	117%	109%

Reported in Total µg
RPD calculated using sample concentrations per SW846.

Analytical Resources, Incorporated
Analytical Chemists and Consultants

April 15, 2011

Tom Colligan
Floyd Snider
601 Union Street, Suite 600
Seattle, WA 98101-2341

RE: Project: Jorgensen Forge
ARI Job No: SR61

Dear Tom:

Please find enclosed analytical results and the original Chain of Custody documentation (COC) for the project referenced above. Analytical Resources, Incorporated (ARI) accepted three wipe samples on April 13, 2011. The samples were received in good condition.

The samples were analyzed for PCBs, as requested on the COC.

No analytical complications were noted for this analysis. Quality control results are included for your review.

A copy of the reports and all associated raw data will remain on file with ARI. If you have any questions or require additional information, please contact me at your convenience.

Sincerely,

ANALYTICAL RESOURCES, INC.

Kelly Bottem
Client Services Manager
kellyb@arilabs.com
206-695-6211
Enclosures

Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: SR101	Turn-around Requested: 24 HR
ARI Client Company: FLOYD|SNIDER	Phone: 206 292 2078
Client Contact: NICK GARSON / TOM COLLIGAN	
Client Project Name: Jorgensen Forge	
Client Project #: 7KPL2JOR	Samplers: D. BRAME

Page: 1	of 1
Date: 4/13/11	Ice Present? N
No. of Coolers: 1	Cooler Temps: 13.7

Analytical Resources, Incorporated
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6201 (fax)

Sample ID	Date	Time	Matrix	No. Containers	PCB (ppb)								Notes/Comments
JFPLSD-WP-B08	4/13/11	1510	HEX WIPE	1	x								
JF-PLSD-WP-B59	↓	1513	↓	1	↓								
JF-PLSD-WP-B89	↓	1518	↓	1	↓								

Comments/Special Instructions	Relinquished by:	Received by:	Relinquished by:	Received by:
	(Signature) [signature]	(Signature) [signature]	(Signature)	(Signature)
	Printed Name: DEAN BRAME	Printed Name: A. Volgardsen	Printed Name:	Printed Name:
	Company: FLOYD|SNIDER	Company: ARI	Company:	Company:
	Date & Time: 4/13/11 1555	Date & Time: 4/13/11 1555	Date & Time:	Date & Time:

Limits of Liability: *ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, not withstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.*

Sample Retention Policy: All samples submitted to ARI will be appropriately discarded no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer, unless alternate retention schedules have been established by work-order or contract.

Sample ID Cross Reference Report

ANALYTICAL RESOURCES INCORPORATED

ARI Job No: SR61
Client: The Boeing Company
Project Event: 7KPL2JOR
Project Name: Jorgensen Forge

	Sample ID	ARI Lab ID	ARI LIMS ID	Matrix	Sample Date/Time	VTSR
1.	JF-PLSD-WP-B08	SR61A	11-8056	Wipe	04/13/11 15:10	04/13/11 15:55
2.	JF-PLSD-WP-B59	SR61B	11-8057	Wipe	04/13/11 15:13	04/13/11 15:55
3.	JF-PLSD-WP-B89	SR61C	11-8058	Wipe	04/13/11 15:18	04/13/11 15:55

Printed 04/13/11

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: Boeing

Project Name: Jorgensen Forge

COC No(s): _____ (NA)

Delivered by: Fed-Ex UPS Courier (Hand Delivered) Other: _____

Assigned ARI Job No: SRL61

Tracking No: _____ NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of to cooler?	YES	(NO)
Were custody papers included with the cooler?	(YES)	NO
Were custody papers properly filled out (ink, signed, etc.)	(YES)	NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)..... 13.7

If cooler temperature is out of compliance fill out form 00070F n/A Sor wipes 4/15/11 Temp Gun ID#: 909411619

Cooler Accepted by: AV Date: 4/13/11 Time: 1555

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler?		YES	(NO)
What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs (Baggies) Foam Block Paper Other: _____			
Was sufficient ice used (if appropriate)?	NA	YES	(NO)
Were all bottles sealed in individual plastic bags?		YES	(NO)
Did all bottles arrive in good condition (unbroken)?		(YES)	NO
Were all bottle labels complete and legible?		(YES)	NO
Did the number of containers listed on COC match with the number of containers received?		(YES)	NO
Did all bottle labels and tags agree with custody papers?		(YES)	NO
Were all bottles used correct for the requested analyses?		(YES)	NO
Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs)...	(NA)	YES	NO
Were all VOC vials free of air bubbles?	(NA)	YES	NO
Was sufficient amount of sample sent in each bottle?		(YES)	NO
Date VOC Trip Blank was made at ARI	(NA)	_____	

Was Sample Split by ARI : (NA) YES Date/Time: _____ Equipment: _____ Split by: _____

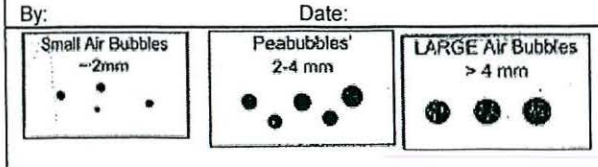
Samples Logged by: AV Date: 4/13/11 Time: 1600

***** Notify Project Manager of discrepancies or concerns *****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: Date:



Small → "sm"
Peabubbles → "pb"
Large → "lg"
Headspace → "hs"

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: JF-PLSD-WP-B08
SAMPLE

Lab Sample ID: SR61A
LIMS ID: 11-8056
Matrix: Wipe
Data Release Authorized:
Reported: 04/15/11

QC Report No: SR61-The Boeing Company
Project: Jorgensen Forge
7KPL2JOR
Date Sampled: 04/13/11
Date Received: 04/13/11

Date Extracted: 04/14/11
Date Analyzed: 04/15/11 09:10
Instrument/Analyst: ECD7/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes

Sample Amount: 1.00 Wipe
Final Extract Volume: 10 mL
Dilution Factor: 1.00
Silica Gel: No

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	1.0	< 1.0 U
53469-21-9	Aroclor 1242	1.0	< 1.0 U
12672-29-6	Aroclor 1248	1.0	< 1.0 U
11097-69-1	Aroclor 1254	1.0	< 1.0 U
11096-82-5	Aroclor 1260	1.0	< 1.0 U
11104-28-2	Aroclor 1221	1.0	< 1.0 U
11141-16-5	Aroclor 1232	1.0	< 1.0 U

Reported in Total µg

PCB Surrogate Recovery

Decachlorobiphenyl	89.0%
Tetrachlorometaxylene	85.8%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: JF-PLSD-WP-B59
SAMPLE

Lab Sample ID: SR61B
LIMS ID: 11-8057
Matrix: Wipe
Data Release Authorized:
Reported: 04/15/11

QC Report No: SR61-The Boeing Company
Project: Jorgensen Forge
7KPL2JOR
Date Sampled: 04/13/11
Date Received: 04/13/11

Date Extracted: 04/14/11
Date Analyzed: 04/15/11 09:34
Instrument/Analyst: ECD7/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes

Sample Amount: 1.00 Wipe
Final Extract Volume: 10 mL
Dilution Factor: 1.00
Silica Gel: No

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	1.0	< 1.0 U
53469-21-9	Aroclor 1242	1.0	< 1.0 U
12672-29-6	Aroclor 1248	1.0	< 1.0 U
11097-69-1	Aroclor 1254	1.0	< 1.0 U
11096-82-5	Aroclor 1260	1.0	< 1.0 U
11104-28-2	Aroclor 1221	1.0	< 1.0 U
11141-16-5	Aroclor 1232	1.0	< 1.0 U

Reported in Total µg

PCB Surrogate Recovery

Decachlorobiphenyl	91.0%
Tetrachlorometaxylene	87.5%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: JF-PLSD-WP-B89
SAMPLE

Lab Sample ID: SR61C
LIMS ID: 11-8058
Matrix: Wipe
Data Release Authorized:
Reported: 04/15/11

QC Report No: SR61-The Boeing Company
Project: Jorgensen Forge
7KPL2JOR
Date Sampled: 04/13/11
Date Received: 04/13/11

Date Extracted: 04/14/11
Date Analyzed: 04/15/11 09:58
Instrument/Analyst: ECD7/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes

Sample Amount: 1.00 Wipe
Final Extract Volume: 10 mL
Dilution Factor: 1.00
Silica Gel: No

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	1.0	< 1.0 U
53469-21-9	Aroclor 1242	1.0	< 1.0 U
12672-29-6	Aroclor 1248	1.0	< 1.0 U
11097-69-1	Aroclor 1254	1.0	< 1.0 U
11096-82-5	Aroclor 1260	1.0	< 1.0 U
11104-28-2	Aroclor 1221	1.0	< 1.0 U
11141-16-5	Aroclor 1232	1.0	< 1.0 U

Reported in Total µg

PCB Surrogate Recovery

Decachlorobiphenyl	96.0%
Tetrachlorometaxylene	94.8%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: MB-041411
METHOD BLANK

Lab Sample ID: MB-041411
LIMS ID: 11-8056
Matrix: Wipe
Data Release Authorized:
Reported: 04/15/11

QC Report No: SR61-The Boeing Company
Project: Jorgensen Forge
7KPL2JOR
Date Sampled: NA
Date Received: NA

Date Extracted: 04/14/11
Date Analyzed: 04/15/11 10:22
Instrument/Analyst: ECD7/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes

Sample Amount: 1.00 Wipe
Final Extract Volume: 10 mL
Dilution Factor: 1.00
Silica Gel: No

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	1.0	< 1.0 U
53469-21-9	Aroclor 1242	1.0	< 1.0 U
12672-29-6	Aroclor 1248	1.0	< 1.0 U
11097-69-1	Aroclor 1254	1.0	< 1.0 U
11096-82-5	Aroclor 1260	1.0	< 1.0 U
11104-28-2	Aroclor 1221	1.0	< 1.0 U
11141-16-5	Aroclor 1232	1.0	< 1.0 U

Reported in Total µg

PCB Surrogate Recovery

Decachlorobiphenyl	112%
Tetrachlorometaxylene	108%

ANALYTICAL RESOURCES INCORPORATED

SW8082/PCB SURROGATE RECOVERY SUMMARY

Matrix: Wipe

QC Report No: SR61-The Boeing Company
Project: Jorgensen Forge
7KPL2JOR

Client ID	DCBP	TCMX	TOT OUT
MB-041411	112%	108%	0
LCS-041411	106%	106%	0
LCSD-041411	106%	104%	0
JF-PLSD-WP-B08	89.0%	85.8%	0
JF-PLSD-WP-B59	91.0%	87.5%	0
JF-PLSD-WP-B89	96.0%	94.8%	0

	LCS/MB LIMITS	QC LIMITS
(DCBP) = Decachlorobiphenyl	(30-160)	(30-160)
(TCMX) = Tetrachlorometaxylene	(30-160)	(30-160)

Prep Method: SW3580A
Log Number Range: 11-8056 to 11-8058

FORM-II SW8082

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082

Sample ID: LCS-041411
LCS/LCSD

Lab Sample ID: LCS-041411
LIMS ID: 11-8056
Matrix: Wipe
Data Release Authorized:
Reported: 04/15/11

QC Report No: SR61-The Boeing Company
Project: Jorgensen Forge
7KPL2JOR
Date Sampled: 04/13/11
Date Received: 04/13/11

Date Extracted LCS/LCSD: 04/14/11

Date Analyzed LCS: 04/15/11 10:46
LCSD: 04/15/11 11:10
Instrument/Analyst LCS: ECD7/JGR
LCSD: ECD7/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes

Sample Amount LCS: 1.00 Wipe
LCSD: 1.00 Wipe
Final Extract Volume LCS: 10 mL
LCSD: 10 mL
Dilution Factor LCS: 1.00
LCSD: 1.00
Silica Gel: No
Acid Cleanup: Yes

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Aroclor 1016	5.9	5.0	118%	4.2	5.0	84.0%	33.7%
Aroclor 1260	6.2	5.0	124%	4.3	5.0	86.0%	36.2%

PCB Surrogate Recovery

	LCS	LCSD
Decachlorobiphenyl	106%	106%
Tetrachlorometaxylene	106%	104%

Reported in Total µg
RPD calculated using sample concentrations per SW846.