A/M
3/12/07
M

King County Environmental Laboratory

WORK GROUP REPORT (wk02)

Mar 12 2007, 06:42 am

Work Group: WG90587 (PHPAHWIPES) for Department: 7 - Organics, Trace

Created: 12-MAR-07 PrepDate: 12-MAR-07 Due: Operator: MCD

Sample	Project Number	Project Description	PKey	C	Product	Matrix	Stat	UA	Workdate	Duedate
L41895-10	423589-090-1	Lower Duwamish Phthalate Studies	S		PHPAHWIPE	OTHR SOLID	WKGP	U	13-MAR-07	29-MAR-07
L41895-6	423589-090-1	Lower Duwamish Phthalate Studies	S		PHPAHWIPE	OTHR SOLID	WKGP	U	13-MAR-07	29-MAR-07
L41895-7	423589-090-1	Lower Duwamish Phthalate Studies	S		PHPAHWIPE	OTHR SOLID	WKGP	U	13-MAR-07	29-MAR-07
L41895-8	423589-090-1	Lower Duwamish Phthalate Studies	S		PHPAHWIPE	OTHR SOLID	WKGP	U	13-MAR-07	29-MAR-07
L41895-9	423589-090-1	Lower Duwamish Phthalate Studies	S		PHPAHWIPE	OTHR SOLID	WKGP	U	13-MAR-07	29-MAR-07
L41896-2	423589-090-1	Lower Duwamish Phthalate Studies	S		PHPAHWIPE	OTHR SOLID	WKGP	U	09-MAR-07	25-MAR-07
WG90587-1	MB		S		PHPAHWIPE	OTHR SOLID	WKGP	U	12-MAR-07	

Comments:

L41895-10	wipes
L41895-6	wipes
L41895-7	wipes
L41895-8	wipes
L41895-9	wipes
L41896-2	wipe blank
WG90587-1	FILTER BLANK

KCSlip4 57998

SEA424297

Trace Organics Data Anomaly Form

Date(s) Occurred: *07/03/12*

WG #(s): *WG90587*

☒ **All samples in WKGP(s)** **or** ☐ **Sample #(s):**

Project #(s): *423589-090-001*

Matrix: ☐ **Liquid** ☒ **Solid** ☐ **Air** ☐ **Tissue** ☐ **Calibration** ☐ **Other:**

I. Analysis/Extraction

☐ BNA	☒ BNALL	☐ EDC	☐ EDC-LVI
☐ CLPESTPCB	☐ PEST	☐ PCB	☐ OPPEST
☐ VOA-GCMS	☐ NWTPH-GX	☐ NWTPH-DX	☐ NWTPH-HCID
☐ BUTYL TIN	☐ AIRTOX	☐ AIR-SULFUR	

☐ Other: *PHPAHWIPE*

☐ Subcontracted:

II. Instrument

GC/ICP/MS: ☐ P

GC/MS: ☐ D ☐ E ☒ J ☐ K ☐ L ☐ M ☐ N

GC: ☐ F ECD ☐ G ECD ☐ H FID ☐ H OI4450PID/FID ☐ I FID

Extraction/Cleanup: ☐ PFE ☐ GPC ☐ Other:

III. Type of Sample/Analytical Anomaly

☒ Values Outside of Control Limits:

1 ☒ Blank Contamination
2 ☐ SB/SBD Spike Recoveries
3 ☐ MS/MSD Spike Recoveries
4 ☐ LCS/SRM Recoveries
5 ☐ Initial Calibration
6 ☐ Performance Checks
7 ☐ ISTD % Differences
8 ☐ Surrogate Spike Recoveries
9 ☐ SB/SBD RPD
10 ☐ MS/MSD RPD
11 ☐ Sample/LD RPD
12 ☐ Continuing Calibration Checks
13 ☐ Tuning Criteria

14 ☐ Holding time exceeded by:
15 ☐ Insufficient sample amount.
16 ☐ Inappropriate storage, container or preservation.
17 ☐ Other

Anomaly Description:

1. WG90587-1 Filter paper blank had detectable levels of Bis (2EH) phthalate. All sample were flagged "B" in accordance with the project X3 rule. The level reported is typical for past sets of funnel wipe data.

IV. Type of Project Anomaly

- ☐ SAP/Work Plan specified MDLs not met.
- ☐ SAP/Work Plan specified QC frequency or QC type not met.
- ☐ SAP/Work Plan specified methodology not used.
- ☐ Sample exceeds regulatory and/or hazardous waste limits.
- ☐ Sample data results are unusual or inconsistent with expected results.
- ☐ Other

Anomaly Description:

V. Corrective Action Taken

- ☐ Sample(s) re-analyzed
- ☐ Sample(s) re-prepared and re-analyzed
- ☒ Sample(s) reported "AS IS"
- ☒ Data qualified with the following flags: *B*
- ☐ Other

Corrective Action Description:

VI. Potential Effects on Data Quality:

- ☐ None; corrective action entirely corrected anomaly (explanation optional):
- ☐ Potential effect explanation (explanation mandatory):

	Signatures	Signature Dates
Reported By: *M. Doubrava*	[signature]	3/13/07
Reviewer:		
Supervisor: *Dana Walker*	[signature]	3/13/07
QA Officer: *Colin Elliott* (For QA1 only)		
cc: LPM:		

A/M
3/19/07
MS

KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab QC Report - 03/13/07 07:47
Run ID: R119052 Workgroup: WG90587 (PHPAHWIPES)

MB:WG90587-1 Matrix: OTHR SOLID Listtype: ORPHPAHWIPE Method: 8270D-WIPETEST Project: 423589-090-1 Pkey: STD
(Method Blank)

Parameter	Mdl	Rdl	Units	MB Value	Qual
Naphthalene	.02	.04	ug	<MDL	
Acenaphthylene	.01	.02	ug	<MDL	
Dimethyl Phthalate	.05	.1	ug	<MDL	
Acenaphthene	.01	.02	ug	<MDL	
Fluorene	.01	.02	ug	<MDL	
Diethyl Phthalate	.05	.1	ug	<MDL	
Phenanthrene	.01	.02	ug	<MDL	
Anthracene	.01	.02	ug	<MDL	
Di-N-Butyl Phthalate	.05	.1	ug	<MDL	
Fluoranthene	.01	.02	ug	<MDL	
Pyrene	.01	.02	ug	<MDL	
Benzyl Butyl Phthalate	.05	.1	ug	<MDL	
Benzo(a)anthracene	.01	.02	ug	<MDL	
Chrysene	.01	.02	ug	<MDL	
Bis(2-Ethylhexyl)Phthalate	.05	.1	ug	.393	B
Di-N-Octyl Phthalate	.05	.1	ug	<MDL	
Benzo(b)fluoranthene	.02	.04	ug	<MDL	
Benzo(k)fluoranthene	.02	.04	ug	<MDL	
Benzo(a)pyrene	.02	.04	ug	<MDL	
Indeno(1,2,3-Cd)Pyrene	.02	.04	ug	<MDL	
Dibenzo(a,h)anthracene	.02	.04	ug	<MDL	
Benzo(g,h,i)perylene	.02	.04	ug	<MDL	
2-Methylnaphthalene	.01	.02	ug	<MDL	

X3 = 1.179 ug
X3 BLANK
Rule

KCSlip4 58001
SEA424300

SOLID AND TISSUE SAMPLE EXTRACTION RECORD FOR BNA ANALYSIS
TRACE ORGANICS LABORATORY

QC BATCH NO.: BS 1:1 Acetone:MeCl2

WORKGROUP NO.: WG90587-BNA WG90588-PCB

EPA SW-846 EXTRACTION METHOD:

SONICATION EPA 3550 SOXHLET EPA 3540

BNA SURROGATE SPIKE I.D.#: Coprostanol:

BNA MATRIX SPIKE I.D.#: Caffeine:

Date/ Analyst	Sample Number	Project Number	Sample Description	coc	Init. Amt (g)	Spike Amount (uL)	Vf (mL)	Clean ups (GPC)	Conc. Anal.	Turn Over Date	Comments
3/12/07	WG90587-1		ON ARH WIPE FB			50uL 1376	1mL	AL	MO		Samples conc
MO	WG90588-1		PCB WIPE FB			25uL 1372					to 1mL fv
	L41896-2		Funnel wipes								Split:
	L41895-6										0.5mL-BNA
	-7										0.5mL PCB
	-8										
	-9										
	-10										

(1) Filter paper rinsed with MeCl2

(2) Funnel wipes X2 with MeCl2 soaked filter paper

(3) BNA/PCB Surrogate added - samples sonic bath X3 with 50mL MeCl2 and conc to 1mL fv -KD-

(4) 0.5mL for BNA
0.5mLs solvent exchanged to Hexane conc, Alumina cleaned and conc. to 0.5mL fv for PCB analysis

KCSlip4 58002

SEA424301

```
Sequence Name: C:\MSDChem\1\sequence\070312.S
       Comment:
      Operator:
     Data Path: C:\MSDChem\1\data\070312\
Top                    Pre-Seq Cmd:
Instrument Control     Pre-Seq Cmd:
Data Analysis          Pre-Seq Cmd:

Top                   Post-Seq Cmd:
Instrument Control    Post-Seq Cmd:
Data Analysis         Post-Seq Cmd:

   Method Sections To Run      On A Barcode Mismatch
     (X) Full Method             (X) Inject Anyway
     ( ) Reprocessing Only       ( ) Don't Inject

   ------------------------------------------------------------------------
   Line                    Sample Name/Misc Info
 1)  Tune            3  DFTPP-1   DFTPP     10 NG/UL DFTPP MIX
 2)  Sample          4  CCALI-01  8270B1    SS#1354 D 8.0 PPM BNA STD
 3)  Sample          5  CCEDC-01  8270BEDC  SS#1355 C 5.0 PPM EDC STD
 4)  Blank           2  BLANK-01  8270B1    MECL2 INSTRUMENT BLANK
 5)  Blank           6
     Datafile          WG90587-1
     Method            8270B1
 6)  Sample          7  L41896-2  8270B1    L41896-2 FUNNEL WIPES
 7)  Sample          8  L41895-6  8270B1    L41895-6 FUNNEL WIPES
 8)  Sample          9  L41895-7  8270B1    L41895-7 FUNNEL WIPES
 9)  Sample         10  L41895-8  8270B1    L41895-8 FUNNEL WIPES
10)  Sample         11  L41895-9  8270B1    L41895-9 FUNNEL WIPES
11)  Sample         12
     Datafile          L41895-10
     Method            8270B1
12)  Sample         13
     Datafile          L41732-1X
     Method            8270B1
13)  Sample         14
     Datafile          L41733-1X
     Method            8270B1
14)  Tune           3  DFTPP-2   DFTPP     10 NG/UL DFTPP MIX
15)  Sample         4  CCALI-02  8270B1    SS#1354 D 8.0 PPM BNA STD
16)  Sample         5  CCEDC-02  8270BEDC  SS#1355 C 5.0 PPM EDC STD
17)  Blank          2  BLANK-02  8270B1    MECL2 INSTRUMENT BLANK
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KCSlip4 58003

SEA424302

Batch: \\orgizmo\EE\chem\6890j.i\070312.b

#	Smp. #	Injection Time	Wkgp. #	QC #	Project #	Sample Description	Matrix	Amount	DilFac	IS#2-RT	IS#2-Area	Method	Init Cali	Analyst
1	DFTPP-1	12-MAR-2007 06:11	SDGa0971	SDGa09		10 NG/UL DFTPP MIX	NONE	0.000	1.0	13.134	173504	DFTPP.m		M.Doubrava
2	CCALI-01	12-MAR-2007 06:45	SDGa0282	SDGa02		SS#1354 D 8.0 PPM BNA STD	WATER	0.000	1.0	8.375	552243	8270b1.m	05-JAN-2007	M.Doubrava
3	CCEDC-01	12-MAR-2007 07:30	SDGa0962	SDGa09		SS#1355 C 5.0 PPM EDC STD	WATER	0.000	1.0	8.420	1859	8270BEDC.m	06-JAN-2007	M.Doubrava
4	BLANK-01	12-MAR-2007 08:05	SDGa0282	SDGa02		MECL2 INSTRUMENT BLANK	WATER	0.000	1.0	0.000	0	8270B1.m	05-JAN-2007	M.Doubrava
5	WG90587-1	12-MAR-2007 08:54	WG90587	WIPES		WG90587-1 FILTER BLANK FUNNE	SOIL	1.000	1.0	8.375	607327	8270b1.m	05-JAN-2007	M.Doubrava
6	L41896-2	12-MAR-2007 09:39	WG90587	WIPES		L41896-2 FUNNEL WIPES	SOIL	1.000	1.0	8.375	424168	8270b1.m	05-JAN-2007	M.Doubrava
7	L41895-6	12-MAR-2007 10:25	WG90587	WIPES		L41895-6 FUNNEL WIPES	SOIL	1.000	1.0	8.375	596546	8270b1.m	05-JAN-2007	M.Doubrava
8	L41895-7	12-MAR-2007 11:10	WG90587	WIPES		L41895-7 FUNNEL WIPES	SOIL	1.000	1.0	8.375	538508	8270b1.m	05-JAN-2007	M.Doubrava
9	L41895-8	12-MAR-2007 11:56	WG90587	WIPES		L41895-8 FUNNEL WIPES	SOIL	1.000	1.0	8.375	373022	8270b1.m	05-JAN-2007	M.Doubrava
10	L41895-9	12-MAR-2007 12:41	WG90587	WIPES		L41895-9 FUNNEL WIPES	SOIL	1.000	1.0	8.375	446515	8270b1.m	05-JAN-2007	M.Doubrava
11	L41895-10	12-MAR-2007 13:27	WG90587	WIPES		L41895-10 FUNNEL WIPES	SOIL	1.000	1.0	8.375	460907	8270b1.m	05-JAN-2007	M.Doubrava
12	L41732-1X	12-MAR-2007 14:12	WG90281	EDCL90		L41732-1 X 10 DIL SILICA GEL	WATER	2000.000	5.0	8.375	477319	8270B1.m	05-JAN-2007	M.Doubrava
13	L41733-1X	12-MAR-2007 14:57	WG90281	EDCL90		L41733-1 X 10 DIL SILICA GEL	WATER	2000.000	5.0	8.375	297023	8270B1.m	05-JAN-2007	M.Doubrava
14	DFTPP-2	12-MAR-2007 15:43	SDGa0971	SDGa09		10 NG/UL DFTPP MIX	NONE	0.000	1.0	13.125	194880	DFTPP.m		M.Doubrava
15	CCALI-02	12-MAR-2007 16:17	SDGa0282	SDGa02		SS#1354 D 8.0 PPM BNA STD	WATER	0.000	1.0	8.375	418824	8270b1.m	05-JAN-2007	M.Doubrava
16	CCEDC-02	12-MAR-2007 17:02	SDGa0962	SDGa09		SS#1355 C 5.0 PPM EDC STD	WATER	0.000	1.0	8.441	4599	8270BEDC.m	06-JAN-2007	M.Doubrava
17	BLANK-02	12-MAR-2007 17:37	SDGa0282	SDGa02		MECL2 INSTRUMENT BLANK	WATER	0.000	1.0	0.000	0	8270B1.m	05-JAN-2007	M.Doubrava

Samples: 11 QC Samples + Misc.: 3 ContinuingCals: 1 Tunes: 2 Calibrations: 0

KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab Review Report - 03/19/07 01:03 - Data Source: ELD

Sample#:	WG90587-1	Matrix:	OTHR SOLID	List Type:	ORPHPAHWIPE		
		Project:		Run ID:	R119052	Col. Date:	
		Locator:	MB	Work Group:	WG90587	Rec. Date:	12-MAR-07
		Site:	NONE	QC Type:	MB	Due Date:	
		Method Code:	8270D-WIPETEST				

Parameter	Value	Units	Valq	Mdl	Rdl	Textvalue
Naphthalene		ug	<MDL	.02	.04	
Acenaphthylene		ug	<MDL	.01	.02	
Dimethyl Phthalate		ug	<MDL	.05	.1	
Acenaphthene		ug	<MDL	.01	.02	
Fluorene		ug	<MDL	.01	.02	
Diethyl Phthalate		ug	<MDL	.05	.1	
Phenanthrene		ug	<MDL	.01	.02	
Anthracene		ug	<MDL	.01	.02	
Di-N-Butyl Phthalate		ug	<MDL	.05	.1	
Fluoranthene		ug	<MDL	.01	.02	
Pyrene		ug	<MDL	.01	.02	
Benzyl Butyl Phthalate		ug	<MDL	.05	.1	
Benzo(a)anthracene		ug	<MDL	.01	.02	
Chrysene		ug	<MDL	.01	.02	
Bis(2-Ethylhexyl)Phthalate	.393	ug	B	.05	.1	
Di-N-Octyl Phthalate		ug	<MDL	.05	.1	
Benzo(b)fluoranthene		ug	<MDL	.02	.04	
Benzo(k)fluoranthene		ug	<MDL	.02	.04	
Benzo(a)pyrene		ug	<MDL	.02	.04	
Indeno(1,2,3-Cd)Pyrene		ug	<MDL	.02	.04	
Dibenzo(a,h)anthracene		ug	<MDL	.02	.04	
Benzo(g,h,i)perylene		ug	<MDL	.02	.04	
2-Methylnaphthalene		ug	<MDL	.01	.02	
2-Fluorobiphenyl	.735	ug		.02	.04	
d14-Terphenyl	1.12	ug		.02	.04	
Amount Analyzed	1	g				
Standard Amount	1	g				
Dilution Factor	1	none				
Date Analyzed						12-MAR-07
Operator ID						M.Doubrava
Porthandler File						/usr/users/seed2/METROS3/files/gcms/WG90587-1.rp
Instrument ID						6890j.i
Prep Date						12-MAR-07

SURROGATE RECOVERY INFORMATION

Parameter	% Rec	Lab Limits
2-Fluorobiphenyl	59	30-115
d14-Terphenyl	90	18-137

KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab Review Report - 03/19/07 01:03 - Data Source: ELD

Sample#: L41895-6	Matrix:	OTHR SOLID	List Type:	ORPHPAHWIPE	
	Project:	423589-090-1	Run ID:	R119052	Col. Date: 27-FEB-07
	Locator:	BWR	Work Group:	WG90587	Rec. Date: 27-FEB-07
	Site:	METRO	QC Type:		Due Date: 29-MAR-07
	Method Code:	8270D-WIPETEST			

Parameter	Value	Units	Valq	Mdl	Rdl	Textvalue
Naphthalene		ug	<MDL	.02	.04	
Acenaphthylene		ug	<MDL	.01	.02	
Dimethyl Phthalate		ug	<MDL	.05	.1	
Acenaphthene		ug	<MDL	.01	.02	
Fluorene		ug	<MDL	.01	.02	
Diethyl Phthalate	.161	ug		.05	.1	
Phenanthrene	.018	ug	<RDL	.01	.02	
Anthracene		ug	<MDL	.01	.02	
Di-N-Butyl Phthalate		ug	<MDL	.05	.1	
Fluoranthene		ug	<MDL	.01	.02	
Pyrene		ug	<MDL	.01	.02	
Benzyl Butyl Phthalate		ug	<MDL	.05	.1	
Benzo(a)anthracene		ug	<MDL	.01	.02	
Chrysene		ug	<MDL	.01	.02	
Bis(2-Ethylhexyl)Phthalate	.497	ug	B	.05	.1	
Di-N-Octyl Phthalate		ug	<MDL	.05	.1	
Benzo(b)fluoranthene		ug	<MDL	.02	.04	
Benzo(k)fluoranthene		ug	<MDL	.02	.04	
Benzo(a)pyrene		ug	<MDL	.02	.04	
Indeno(1,2,3-Cd)Pyrene		ug	<MDL	.02	.04	
Dibenzo(a,h)anthracene		ug	<MDL	.02	.04	
Benzo(g,h,i)perylene		ug	<MDL	.02	.04	
2-Methylnaphthalene		ug	<MDL	.01	.02	
2-Fluorobiphenyl	.916	ug		.02	.04	
d14-Terphenyl	1.28	ug		.02	.04	
Amount Analyzed	1	g				
Standard Amount	1	g				
Dilution Factor	1	none				
Date Analyzed						12-MAR-07
Operator ID						M.Doubrava
Porthandler File						/usr/users/seed2/METRO93/files/gcms/L41895-6.rp
Instrument ID						6890j.i
Prep Date						12-MAR-07

SURROGATE RECOVERY INFORMATION

Parameter	% Rec	Lab Limits
2-Fluorobiphenyl	73	30-115
d14-Terphenyl	102	18-137

KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab Review Report - 03/19/07 01:03 - Data Source: ELD

Sample#: L41895-7	Matrix:	OTHR SOLID	List Type:	ORPHPAHWIPE	
	Project:	423589-090-1	Run ID:	R119052	Col. Date: 27-FEB-07
	Locator:	CER	Work Group:	WG90587	Rec. Date: 27-FEB-07
	Site:	METRO	QC Type:		Due Date: 29-MAR-07
	Method Code:	8270D-WIPETEST			

Parameter	Value	Units	Valq	Mdl	Rdl	Textvalue
Naphthalene		ug	<MDL	.02	.04	
Acenaphthylene		ug	<MDL	.01	.02	
Dimethyl Phthalate		ug	<MDL	.05	.1	
Acenaphthene		ug	<MDL	.01	.02	
Fluorene		ug	<MDL	.01	.02	
Diethyl Phthalate	.276	ug		.05	.1	
Phenanthrene	.0392	ug		.01	.02	
Anthracene		ug	<MDL	.01	.02	
Di-N-Butyl Phthalate	.15	ug		.05	.1	
Fluoranthene	.0223	ug		.01	.02	
Pyrene	.017	ug	<RDL	.01	.02	
Benzyl Butyl Phthalate		ug	<MDL	.05	.1	
Benzo(a)anthracene		ug	<MDL	.01	.02	
Chrysene		ug	<MDL	.01	.02	
Bis(2-Ethylhexyl)Phthalate	.765	ug	B	.05	.1	
Di-N-Octyl Phthalate		ug	<MDL	.05	.1	
Benzo(b)fluoranthene		ug	<MDL	.02	.04	
Benzo(k)fluoranthene		ug	<MDL	.02	.04	
Benzo(a)pyrene		ug	<MDL	.02	.04	
Indeno(1,2,3-Cd)Pyrene		ug	<MDL	.02	.04	
Dibenzo(a,h)anthracene		ug	<MDL	.02	.04	
Benzo(g,h,i)perylene		ug	<MDL	.02	.04	
2-Methylnaphthalene		ug	<MDL	.01	.02	
2-Fluorobiphenyl	.917	ug		.02	.04	
d14-Terphenyl	1.33	ug		.02	.04	
Amount Analyzed	1	g				
Standard Amount	1	g				
Dilution Factor	1	none				
Date Analyzed						12-MAR-07
Operator ID						M.Doubrava
Porthandler File						/usr/users/seed2/METROS3/files/gcms/L41895-7.rp
Instrument ID						6890j.1
Prep Date						12-MAR-07

SURROGATE RECOVERY INFORMATION

Parameter	% Rec	Lab Limits
2-Fluorobiphenyl	73	30-115
d14-Terphenyl	107	18-137

KCSlip4 58007

SEA424306

KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab Review Report - 03/19/07 01:03 - Data Source: ELD

Sample#: L41895-8	Matrix:	OTHR SOLID	List Type:	ORPHPAHWIPE	
	Project:	423589-090-1	Run ID:	R119052	Col. Date: 27-FEB-07
	Locator:	DZ	Work Group:	WG90587	Rec. Date: 27-FEB-07
	Site:	METRO	QC Type:		Due Date: 29-MAR-07
	Method Code:	8270D-WIPETEST			

Parameter	Value	Units	Valq	Mdl	Rdl	Textvalue
Naphthalene		ug	<MDL	.02	.04	
Acenaphthylene		ug	<MDL	.01	.02	
Dimethyl Phthalate		ug	<MDL	.05	.1	
Acenaphthene		ug	<MDL	.01	.02	
Fluorene		ug	<MDL	.01	.02	
Diethyl Phthalate	.18	ug		.05	.1	
Phenanthrene		ug	<MDL	.01	.02	
Anthracene		ug	<MDL	.01	.02	
Di-N-Butyl Phthalate	.058	ug	<RDL	.05	.1	
Fluoranthene		ug	<MDL	.01	.02	
Pyrene		ug	<MDL	.01	.02	
Benzyl Butyl Phthalate		ug	<MDL	.05	.1	
Benzo(a)anthracene		ug	<MDL	.01	.02	
Chrysene		ug	<MDL	.01	.02	
Bis(2-Ethylhexyl)Phthalate	.439	ug	B	.05	.1	
Di-N-Octyl Phthalate		ug	<MDL	.05	.1	
Benzo(b)fluoranthene		ug	<MDL	.02	.04	
Benzo(k)fluoranthene		ug	<MDL	.02	.04	
Benzo(a)pyrene		ug	<MDL	.02	.04	
Indeno(1,2,3-Cd)Pyrene		ug	<MDL	.02	.04	
Dibenzo(a,h)anthracene		ug	<MDL	.02	.04	
Benzo(g,h,i)perylene		ug	<MDL	.02	.04	
2-Methylnaphthalene		ug	<MDL	.01	.02	
2-Fluorobiphenyl	.649	ug		.02	.04	
d14-Terphenyl	1.06	ug		.02	.04	
Amount Analyzed	1	g				
Standard Amount	1	g				
Dilution Factor	1	none				
Date Analyzed						12-MAR-07
Operator ID						M.Doubrava
Porthandler File						/usr/users/seed2/METROS3/files/gcms/L41895-8.rp
Instrument ID						6890j.i
Prep Date						12-MAR-07

SURROGATE RECOVERY INFORMATION

Parameter	% Rec	Lab Limits
2-Fluorobiphenyl	52	30-115
d14-Terphenyl	85	18-137

KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab Review Report - 07/19/07 01:03 - Data Source: ELD

Sample#: L41895-9	Matrix:	OTHR SOLID	List Type:	ORPHPAHWIPE	
	Project:	423589-090-1	Run ID:	R119052	Col. Date: 27-FEB-07
	Locator:	KCIA	Work Group:	WG90587	Rec. Date: 27-FEB-07
	Site:	METRO	QC Type:		Due Date: 29-MAR-07
	Method Code:	8270D-WIPETEST			

Parameter	Value	Units	Valq	Mdl	Rdl	Textvalue
Naphthalene		ug	<MDL	.02	.04	
Acenaphthylene		ug	<MDL	.01	.02	
Dimethyl Phthalate		ug	<MDL	.05	.1	
Acenaphthene		ug	<MDL	.01	.02	
Fluorene		ug	<MDL	.01	.02	
Diethyl Phthalate	.313	ug		.05	.1	
Phenanthrene	.018	ug	<RDL	.01	.02	
Anthracene		ug	<MDL	.01	.02	
Di-N-Butyl Phthalate		ug	<MDL	.05	.1	
Fluoranthene	.017	ug	<RDL	.01	.02	
Pyrene	.016	ug	<RDL	.01	.02	
Benzyl Butyl Phthalate		ug	<MDL	.05	.1	
Benzo(a)anthracene		ug	<MDL	.01	.02	
Chrysene		ug	<MDL	.01	.02	
Bis(2-Ethylhexyl)Phthalate	.454	ug	B	.05	.1	
Di-N Octyl Phthalate		ug	<MDL	.05	.1	
Benzo(b)fluoranthene		ug	<MDL	.02	.04	
Benzo(k)fluoranthene		ug	<MDL	.02	.04	
Benzo(a)pyrene		ug	<MDL	.02	.04	
Indeno(1,2,3-Cd)Pyrene		ug	<MDL	.02	.04	
Dibenzo(a,h)anthracene		ug	<MDL	.02	.04	
Benzo(g,h,i)perylene		ug	<MDL	.02	.04	
2-Methylnaphthalene		ug	<MDL	.01	.02	
2-Fluorobiphenyl	.907	ug		.02	.04	
d14-Terphenyl	1.45	ug		.02	.04	
Amount Analyzed	1	g				
Standard Amount	1	g				
Dilution Factor	1	none				
Date Analyzed						12-MAR-07
Operator ID						M.Doubrava
Porthandler File						/usr/users/seed2/METROS3/files/gcms/L41895-9.rp
Instrument ID						6890j.i
Prep Date						12-MAR-07

SURROGATE RECOVERY INFORMATION

Parameter	% Rec	Lab Limits
2-Fluorobiphenyl	73	30-115
d14-Terphenyl	116	18-137

KCSlip4 58009

SEA424308

KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab Review Report - 03/19/07 01:03 - Data Source: ELD

Sample#: L41895-10	Matrix:	OTHR SOLID	List Type:	ORPHPAHWIPE	
	Project:	423589-090-1	Run ID:	R119052	Col. Date: 27-FEB-07
	Locator:	SPCC	Work Group:	WG90587	Rec. Date: 27-FEB-07
	Site:	METRO	QC Type:		Due Date: 29-MAR-07
	Method Code:	8270D-WIPETEST			

Parameter	Value	Units	Valq	Mdl	Rdl	Textvalue
Naphthalene		ug	<MDL	.02	.04	
Acenaphthylene		ug	<MDL	.01	.02	
Dimethyl Phthalate		ug	<MDL	.05	.1	
Acenaphthene		ug	<MDL	.01	.02	
Fluorene		ug	<MDL	.01	.02	
Diethyl Phthalate	.161	ug		.05	.1	
Phenanthrene		ug	<MDL	.01	.02	
Anthracene		ug	<MDL	.01	.02	
Di-N-Butyl Phthalate	.05	ug	<RDL	.05	.1	
Fluoranthene		ug	<MDL	.01	.02	
Pyrene		ug	<MDL	.01	.02	
Benzyl Butyl Phthalate		ug	<MDL	.05	.1	
Benzo(a)anthracene		ug	<MDL	.01	.02	
Chrysene		ug	<MDL	.01	.02	
Bis(2-Ethylhexyl)Phthalate	.448	ug	B	.05	.1	
Di-N-Octyl Phthalate		ug	<MDL	.05	.1	
Benzo(b)fluoranthene		ug	<MDL	.02	.04	
Benzo(k)fluoranthene		ug	<MDL	.02	.04	
Benzo(a)pyrene		ug	<MDL	.02	.04	
Indeno(1,2,3-Cd)Pyrene		ug	<MDL	.02	.04	
Dibenzo(a,h)anthracene		ug	<MDL	.02	.04	
Benzo(g,h,i)perylene		ug	<MDL	.02	.04	
2-Methylnaphthalene		ug	<MDL	.01	.02	
2-Fluorobiphenyl	.905	ug		.02	.04	
d14-Terphenyl	1.49	ug		.02	.04	
Amount Analyzed	1	g				
Standard Amount	1	g				
Dilution Factor	1	none				
Date Analyzed						12-MAR-07
Operator ID						M.Doubrava
Porthandler File						/usr/users/seed2/METROS3/files/gcms/L41895-10.rp
Instrument ID						6890j.i
Prep Date						12-MAR-07

SURROGATE RECOVERY INFORMATION

Parameter	% Rec	Lab Limits
2-Fluorobiphenyl	72	30-115
d14-Terphenyl	119	18-137

KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab Review Report - 03/19/07 01:04 - Data Source: ELD

Sample#: L41896-2	Matrix: OTHR SOLID	List Type: ORPHPAHWIPE			
	Project: 423589-090-1	Run ID: R119052		Col. Date:	23-FEB-07
	Locator: BWR	Work Group: WG90587		Rec. Date:	23-FEB-07
	Site: METRO	QC Type:		Due Date:	25-MAR-07
	Method Code: 8270D-WIPETEST				

Parameter	Value	Units	Valq	Mdl	Rdl	Textvalue
Naphthalene		ug	<MDL	.02	.04	
Acenaphthylene		ug	<MDL	.01	.02	
Dimethyl Phthalate		ug	<MDL	.05	.1	
Acenaphthene		ug	<MDL	.01	.02	
Fluorene		ug	<MDL	.01	.02	
Diethyl Phthalate	.117	ug		.05	.1	
Phenanthrene		ug	<MDL	.01	.02	
Anthracene		ug	<MDL	.01	.02	
Di-N-Butyl Phthalate	.141	ug		.05	.1	
Fluoranthene		ug	<MDL	.01	.02	
Pyrene		ug	<MDL	.01	.02	
Benzyl Butyl Phthalate		ug	<MDL	.05	.1	
Benzo(a)anthracene		ug	<MDL	.01	.02	
Chrysene		ug	<MDL	.01	.02	
Bis(2-Ethylhexyl)Phthalate	.541	ug	B	.05	.1	
Di-N-Octyl Phthalate		ug	<MDL	.05	.1	
Benzo(b)fluoranthene		ug	<MDL	.02	.04	
Benzo(k)fluoranthene		ug	<MDL	.02	.04	
Benzo(a)pyrene		ug	<MDL	.02	.04	
Indeno(1,2,3-Cd)Pyrene		ug	<MDL	.02	.04	
Dibenzo(a,h)anthracene		ug	<MDL	.02	.04	
Benzo(g,h,i)perylene		ug	<MDL	.02	.04	
2-Methylnaphthalene		ug	<MDL	.01	.02	
2-Fluorobiphenyl	.927	ug		.02	.04	
d14-Terphenyl	1.37	ug		.02	.04	
Amount Analyzed	1	g				
Standard Amount	1	g				
Dilution Factor	1	none				
Date Analyzed						12-MAR-07
Operator ID						M.Doubrava
Porthandler File						/usr/users/seed2/METROS3/files/gcms/L41896-2.rp
Instrument ID						6890j i
Prep Date						12-MAR-07

SURROGATE RECOVERY INFORMATION

Parameter	% Rec	Lab Limits
2-Fluorobiphenyl	74	30-115
d14-Terphenyl	110	18-137

KCSlip4 58011

SEA424310

King County Environmental Laboratory

WORK GROUP REPORT (wk02)

Mar 12 2007, 06:43 am

Work Group: WG90588 (PCBWIPE) for Department: 7 - Organics, Trace

Created: 12-MAR-07 PrepDate: 12-MAR-07 Due: Operator: MCD/JF

Sample	Project Number	Project Description	Prcy	C	Product	Matrix	Stat	UA	Workdate	Duedate
L41895-10	423589-090-1	Lower Duwamish Phthalate Studies	S		PCBWIPE	OTHR SOLID	WKGP	U	13-MAR-07	29-MAR-07
L41895-6	423589-090-1	Lower Duwamish Phthalate Studies	S		PCBWIPE	OTHR SOLID	WKGP	U	13-MAR-07	29-MAR-07
L41895-7	423589-090-1	Lower Duwamish Phthalate Studies	S		PCBWIPE	OTHR SOLID	WKGP	U	13-MAR-07	29-MAR-07
L41895-8	423589-090-1	Lower Duwamish Phthalate Studies	S		PCBWIPE	OTHR SOLID	WKGP	U	13-MAR-07	29-MAR-07
L41895-9	423589-090-1	Lower Duwamish Phthalate Studies	S		PCBWIPE	OTHR SOLID	WKGP	U	13-MAR-07	29-MAR-07
L41896-2	423589-090-1	Lower Duwamish Phthalate Studies	S		PCBWIPE	OTHR SOLID	WKGP	U	09-MAR-07	25-MAR-07
WG90588-1	MB		S		PCBWIPE	OTHR SOLID	WKGP	U	12-MAR-07	

Comments:

L41895-10	wipes
L41895-6	wipes
L41895-7	wipes
L41895-8	wipes
L41895-9	wipes
L41896-2	wipe blank
WG90588-1	FILTER BLANK

KCSlip4 58012

SEA424311

SOLID AND TISSUE SAMPLE EXTRACTION RECORD FOR BNA ANALYSIS
TRACE ORGANICS LABORATORY

QC BATCH NO.: BS 1:1 Acetone:MeCl2

WORKGROUP NO.: WG90587-BNA WG90588-PCB

EPA SW-846 EXTRACTION METHOD:

BNA SURROGATE SPIKE I.D.#: Coprostanol:

SONICATION EPA 3550 SOXHLET EPA 3540

BNA MATRIX SPIKE I.D.#: Caffeine:

Date/ Analyst	Sample Number	Project Number	Sample Description	coc	Init. Amt (g)	Spike Amount (uL)	Vf (mL)	Clean ups (GPC)	Conc. Anal.	Turn Over Date	Comments
3/12/07	WG90587-1		OHARA WIPE FB			50uL 1376	1mL	AL	MO		Samples conc
MO	WG90588-1		PCB WIPE FB			25uL 1372					to 1mL fv
	L41890-2		Funnel wipes								Split:
	L41895-6										0.5mL-BNA
	-7										0.5mL PCB
	-8										
	-9										
	-10										

(1) Filter paper rinsed with MeCl2

(2) Funnel wipes X2 with MeCl2 soaked filter paper

(3) BNA/PCB Surrogate added - samples sonic bath X3 with 50mL MeCl2 and conc to 1mL fv - KD

(4) 0.5mL for BNA

0.5mLs solvent exchanged to Hexane conc, Alumina cleaned and conc. to 0.5mL fv for PCB analyses

KCSlip4 58013

SEA424312

Data File Name	Sample Name	Date Acquired	Vial Numb	Sample Amount	Sample Multiplie	Isodrin (RT)	Isodrin (Height)	Leptophos (RT)	Leptophos (Height)	Isodrin #2 (RT)	Isodrin #2 (Height)	Leptoph (RT)	Leptophos #2 (Height)	Misc Info	Data File Path
COND-01.D	conditioner	3/15/2007 16:13	1	0	1										S:\MSDCHEM\2\DATA\070315\
BLANK-01.D	blank	3/15/2007 16:50	2	0	1										S:\MSDCHEM\2\DATA\070315\
PCB-01.D	1218D 1016/1260 500/50	3/15/2007 17:26	3	0	1	15.282	106667324	23.621	180254844	12.928	273339760	19.319	510848072		S:\MSDCHEM\2\DATA\070315\
PCB-02.D	1209.2 1248 500/50	3/15/2007 18:03	4	0	1	15.282	109930526	23.621	184088551	12.927	285542755	19.316	512467552		S:\MSDCHEM\2\DATA\070315\
PCB-03.D	1210.2 1254 500/50	3/15/2007 18:39	5	0	1	15.281	83356324	23.618	138730879	12.926	210160395	19.315	370225137		S:\MSDCHEM\2\DATA\070315\
PCB-04.D	1208.2 1221 500/50	3/15/2007 19:16	6	0	1	15.280	93860705	23.617	155863340	12.926	246207461	19.314	463976123		S:\MSDCHEM\2\DATA\070315\
PCB-05.D	1207.2 1232 500/50	3/15/2007 19:53	7	0	1	15.280	82573831	23.617	134906686	12.926	210183537	19.314	385906963		S:\MSDCHEM\2\DATA\070315\
PCB-06.D	1208.2 1242 500/50	3/15/2007 20:29	8	0	1	15.281	83135326	23.617	138994406	12.925	210072119	19.313	383862993		S:\MSDCHEM\2\DATA\070315\
WG90588-1.D	MB	3/15/2007 21:06	9	0	1	15.280	90485392	23.616	155357644	12.925	218971444	19.313	418706381	PPBWIPE06 PCB DUWAMISH PHTHALATES	S:\MSDCHEM\2\DATA\070315\
L41895-6.D	L41895-6	3/15/2007 21:42	10	0	1	15.279	81302082	23.616	144480816	12.926	198116884	19.313	397090271	PPBWIPE06 PCB DUWAMISH PHTHALATES	S:\MSDCHEM\2\DATA\070315\
L41895-7.D	L41895-7	3/15/2007 22:19	11	0	1	15.281	77455112	23.617	141917153	12.926	196260834	19.313	363657364	PPBWIPE06 PCB DUWAMISH PHTHALATES	S:\MSDCHEM\2\DATA\070315\
L41895-8.D	L41895-8	3/15/2007 22:56	12	0	1	15.279	77601838	23.618	139550085	12.926	191004868	19.313	391759234	PPBWIPE06 PCB DUWAMISH PHTHALATES	S:\MSDCHEM\2\DATA\070315\
L41895-9.D	L41895-9	3/15/2007 23:32	13	0	1	15.281	86411219	23.619	157382159	12.926	215459149	19.312	413676373	PPBWIPE06 PCB DUWAMISH PHTHALATES	S:\MSDCHEM\2\DATA\070315\
L41895-10.D	L41895-10	3/16/2007 12:09	14	0	1	15.281	85135085	23.618	153523484	12.926	210224433	19.313	419629305	PPBWIPE06 PCB DUWAMISH PHTHALATES	S:\MSDCHEM\2\DATA\070315\
L41896-2.D	L41896-2	3/16/2007 12:45	15	0	1	15.281	87709579	23.620	154711869	12.926	211710637	19.312	416033985	PPBWIPE06 PCB DUWAMISH PHTHALATES	S:\MSDChem\2\data\070315\
PCB-07.D	1218D 1016/1260 500/50	3/16/2007 1:22	3	0	1	15.281	110841026	23.619	197471533	12.926	274978833	19.314	529459666		S:\MSDCHEM\2\DATA\070315\
PCB-08.D	1210.2 1254 500/50	3/16/2007 1:59	5	0	1	15.282	81901004	23.619	143501251	12.925	218169553	19.313	406139089		S:\MSDCHEM\2\DATA\070315\
					Ave.	15.281	89223746	23.618	154715047	12.926	224761511	19.314	427002096		
					Std. Dev.	0.001	11199951	0.002	18656137	0.001	30179992	0.002	51926264		
					%RSD		13%		12%		13%		12%		

KCSlip4 58014
SEA424313

KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab QC Report - 03/16/07 11:31
Run ID: R119159 Workgroup: WG90588 (PCBWIPE)

MB:WG90588-1 Matrix: OTHR SOLID Listtype: ORPCBWIPE Method: 8270D-WIPETEST Project: Pkey: STD
(Method Blank)

Parameter	Mdl	Rdl	Units	MB Value	Qual
Aroclor 1016	50	100	ug	<MDL	
Aroclor 1221	50	100	ug	<MDL	
Aroclor 1232	50	100	ug	<MDL	
Aroclor 1242	50	100	ug	<MDL	
Aroclor 1248	50	100	ug	<MDL	
Aroclor 1254	50	100	ug	<MDL	
Aroclor 1260	50	100	ug	<MDL	

KCSlip4 58015
SEA424314

KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab QC Report - 03/16/07 11:31
Run ID: R119159 Workgroup: WG90588 (PCBWIPE)

Sample #	Decachlorobiphenyl
(Lab Limits)	25-150
L41895-6	87
L41895-7	82
L41895-8	59
L41895-9	83
L41895-10	77
L41896-2	80
WG90588-1	91

If the following parameters are reported, values in the RPD column are their Absolute Differences:

pH
pH, Field
Salinity
Salinity, Field
Sample Depth
Sample Temperature, Field

KCSlip4 58016
SEA424315

KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab Review Report - 03/16/07 11:32 - Data Source: ELD

Sample#: L41895-7	Matrix:	OTHR SOLID	List Type:	ORPCBWIPE	
	Project:	423589-090-1	Run ID:	R119159	Col. Date: 27-FEB-07
	Locator:	CER	Work Group:	WG90588	Rec. Date: 27-FEB-07
	Site:	METRO	QC Type:		Due Date: 29-MAR-07
	Method Code:	8270D-WIPETEST			

Parameter	Value	Units	Valq	Mdl	Rdl	Textvalue
Aroclor 1016		ug	<MDL	50	100	
Aroclor 1221		ug	<MDL	50	100	
Aroclor 1232		ug	<MDL	50	100	
Aroclor 1242		ug	<MDL	50	100	
Aroclor 1248		ug	<MDL	50	100	
Aroclor 1254		ug	<MDL	50	100	
Aroclor 1260		ug	<MDL	50	100	
Decachlorobiphenyl	25.5	ug		5	10	
Amount Analyzed	1	g				
Standard Amount	1	g				
Dilution Factor	1	none				
Date Analyzed						15-MAR-07
Operator ID						JSF
Porthandler File						/usr/users/seed2/METROS3/files/gc/wg90588.txt
Instrument ID						HP6890ECD-G
Prep Date						12-MAR-07

SURROGATE RECOVERY INFORMATION

Parameter	% Rec	Lab Limits
Decachlorobiphenyl	82	25-150

KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab Review Report - 03/16/07 11:32 - Data Source: ELD

Sample#: L41895-8	Matrix:	OTHR SOLID	List Type:	ORPCBWIPE	
	Project:	423589-090-1	Run ID:	R119159	Col. Date: 27-FEB-07
	Locator:	DZ	Work Group:	WG90588	Rec. Date: 27-FEB-07
	Site:	METRO	QC Type:		Due Date: 29-MAR-07
	Method Code:	8270D-WIPETEST			

Parameter	Value	Units	Valq	Mdl	Rdl	Textvalue
Aroclor 1016		ug	<MDL	50	100	
Aroclor 1221		ug	<MDL	50	100	
Aroclor 1232		ug	<MDL	50	100	
Aroclor 1242		ug	<MDL	50	100	
Aroclor 1248		ug	<MDL	50	100	
Aroclor 1254		ug	<MDL	50	100	
Aroclor 1260		ug	<MDL	50	100	
Decachlorobiphenyl	18.3	ug		5	10	
Amount Analyzed	1	g				
Standard Amount	1	g				
Dilution Factor	1	none				
Date Analyzed						15-MAR-07
Operator ID						JSF
Porthandler File						/usr/users/seed2/METROS3/files/gc/wg90588.txt
Instrument ID						HP6890ECD-G
Prep Date						12-MAR-07

SURROGATE RECOVERY INFORMATION

Parameter	% Rec	Lab Limits
Decachlorobiphenyl	59	25-150

KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab Review Report - 03/16/07 11:32 - Data Source: ELD

Sample#: L41895-9	Matrix: OTHR SOLID	List Type: ORPCBWIPE			
	Project: 423589-090-1	Run ID: R119159		Col. Date:	27-FEB-07
	Locator: KCIA	Work Group: WG90588		Rec. Date:	27-FEB-07
	Site: METRO	QC Type:		Due Date:	29-MAR-07
	Method Code: 8270D-WIPETEST				

Parameter	Value	Units	Valq	Mdl	Rdl	Textvalue
Aroclor 1016		ug	<MDL	50	100	
Aroclor 1221		ug	<MDL	50	100	
Aroclor 1232		ug	<MDL	50	100	
Aroclor 1242		ug	<MDL	50	100	
Aroclor 1248		ug	<MDL	50	100	
Aroclor 1254		ug	<MDL	50	100	
Aroclor 1260		ug	<MDL	50	100	
Decachlorobiphenyl	26	ug		5	10	
Amount Analyzed	1	g				
Standard Amount	1	g				
Dilution Factor	1	none				
Date Analyzed						15-MAR-07
Operator ID						JSF
Porthandler File						/usr/users/seed2/METROS3/files/gc/wg90588.txt
Instrument ID						HP6890ECD-G
Prep Date						12-MAR-07

SURROGATE RECOVERY INFORMATION

Parameter	% Rec	Lab Limits
Decachlorobiphenyl	83	25-150

KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab Review Report - 03/16/07 11:32 - Data Source: ELD

Sample#: L41895-10	Matrix:	OTHR SOLID	List Type:	ORPCBWIPE	
	Project:	423589-090-1	Run ID:	R119159	Col. Date: 27-FEB-07
	Locator:	SPCC	Work Group:	WG90588	Rec. Date: 27-FEB-07
	Site:	METRO	QC Type:		Due Date: 29-MAR-07
	Method Code:	8270D-WIPETEST			

Parameter	Value	Units	Valq	Mdl	Rdl	Textvalue
Aroclor 1016		ug	<MDL	50	100	
Aroclor 1221		ug	<MDL	50	100	
Aroclor 1232		ug	<MDL	50	100	
Aroclor 1242		ug	<MDL	50	100	
Aroclor 1248		ug	<MDL	50	100	
Aroclor 1254		ug	<MDL	50	100	
Aroclor 1260		ug	<MDL	50	100	
Decachlorobiphenyl	24.2	ug		5	10	
Amount Analyzed	1	g				
Standard Amount	1	g				
Dilution Factor	1	none				
Date Analyzed						15-MAR-07
Operator ID						JSF
Porthandler File						/usr/users/seed2/METROS3/files/gc/wg90588.txt
Instrument ID						HP6890ECD-G
Prep Date						12-MAR-07

SURROGATE RECOVERY INFORMATION

Parameter	% Rec	Lab Limits
Decachlorobiphenyl	77	25-150

KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab Review Report - 03/16/07 11:32 - Data Source: ELD

Sample#: L41896-2	Matrix:	OTHR SOLID	List Type:	ORPCBWIPE	
	Project:	423589-090-1	Run ID:	R119159	Col. Date: 23-FEB-07
	Locator:	BWR	Work Group:	WG90588	Rec. Date: 23-FEB-07
	Site:	METRO	QC Type:		Due Date: 25-MAR-07
	Method Code:	8270D-WIPETEST			

Parameter	Value	Units	Valq	Mdl	Rdl	Textvalue
Aroclor 1016		ug	<MDL	50	100	
Aroclor 1221		ug	<MDL	50	100	
Aroclor 1232		ug	<MDL	50	100	
Aroclor 1242		ug	<MDL	50	100	
Aroclor 1248		ug	<MDL	50	100	
Aroclor 1254		ug	<MDL	50	100	
Aroclor 1260		ug	<MDL	50	100	
Decachlorobiphenyl	24.9	ug		5	10	
Amount Analyzed	1	g				
Standard Amount	1	g				
Dilution Factor	1	none				
Date Analyzed						15-MAR-07
Operator ID						JSF
Porthandler File						/usr/users/seed2/METROS3/files/gc/wg90588.txt
Instrument ID						HP6890ECD-G
Prep Date						12-MAR-07

SURROGATE RECOVERY INFORMATION

Parameter	% Rec	Lab Limits
Decachlorobiphenyl	80	25-150

A/M
4/26/07

King County Environmental Laboratory

WORK GROUP REPORT (wk02)

Apr 23 2007, 11:12 am

Work Group: WG90566 (BL#692 PHPAHSOURCE) for Department: 7 - Organics, Trace

Created: 08-MAR-07 PrepDate: 05-MAR-07 Due: Operator: JG

Sample	Project Number	Project Description	PKey	C	Product	Matrix	Stat	UA	Worddate	Duedate
L41895-1	423589-090-1	Lower Duwamish Phthalate Studies		S	PHPAHSOURCE	STORM WTR	PREP	U	13-MAR-07	29-MAR-07
L41895-2	423589-090-1	Lower Duwamish Phthalate Studies		S	PHPAHSOURCE	STORM WTR	PREP	U	13-MAR-07	29-MAR-07
L41895-3	423589-090-1	Lower Duwamish Phthalate Studies		S	PHPAHSOURCE	STORM WTR	PREP	U	13-MAR-07	29-MAR-07
L41895-4	423589-090-1	Lower Duwamish Phthalate Studies		S	PHPAHSOURCE	STORM WTR	PREP	U	13-MAR-07	29-MAR-07
L41895-5	423589-090-1	Lower Duwamish Phthalate Studies		S	PHPAHSOURCE	STORM WTR	PREP	U	13-MAR-07	29-MAR-07
L41896-1	423589-090-1	Lower Duwamish Phthalate Studies		S	PHPAHSOURCE	BLANK WTR	PREP	U	12-MAR-07	28-MAR-07
WG90566-1	SB			S	PHPAHSOURCE	BLANK WTR	PREP	U	08-MAR-07	
WG90566-2	MB			S	PHPAHSOURCE	BLANK WTR	PREP	U	08-MAR-07	
WG90566-3	MB			S	PHPAHSOURCE	BLANK WTR	PREP	U	08-MAR-07	
WG90566-4	SBD			S	PHPAHSOURCE	BLANK WTR	PREP	U	08-MAR-07	
WG90566-5	MB			S	PHPAHSOURCE	BLANK WTR	PREP	U	08-MAR-07	
WG90566-6	SB			S	PHPAHSOURCE	BLANK WTR	PREP	U	08-MAR-07	
WG90566-7	MB			S	PHPAHSOURCE	BLANK WTR	PREP	U	08-MAR-07	

Comments:

L41895-1	carboys
L41895-2	carboys
L41895-3	carboys
L41895-4	carboys
L41895-5	carboys
L41896-1	blank water
WG90566-1	WG90566-2
WG90566-2	MB070305 4L
WG90566-3	MB070305 2L
WG90566-4	WG90566-1 WG90566-5
WG90566-5	MB070306 4L
WG90566-6	WG90566-7
WG90566-7	MB070308 4L

Trace Organics Data Anomaly Form

Date(s) Occurred: *03/08/2007*

WG #(s): *WG90566*

☐ **All samples in WKGP(s)** or ☒ **Sample #(s):** *WG90566-(1,6,7), L41895-(1,3,4,5)*

Project #(s): *423589-090-001*

Matrix: ☒ **Liquid** ☐ **Solid** ☐ **Air** ☐ **Tissue** ☐ **Calibration** ☐ **Other:**

I. Analysis/Extraction

☐ BNA ☐ BNALL ☐ EDC ☐ EDC-LVI
☐ CLPESTPCB ☐ PEST ☐ PCB ☐ OPPEST
☐ VOA-GCMS ☐ NWTPH-GX ☐ NWTPH-DX ☐ NWTPH-HCID
☐ BUTYL TIN ☐ AIRTOX ☐ AIR-SULFUR
☒ Other: *PHPAHSOURCE*
☐ Subcontracted:

II. Instrument

GC/ICP/MS: ☐ P
GC/MS: ☐ D ☐ E ☐ J ☐ K ☐ L ☐ M ☒ N
GC: ☐ F ECD ☐ G ECD ☐ H FID ☐ H OI4450PID/FID
☐ I FID
Extraction/Cleanup: ☐ PFE ☐ GPC
☐ Other:

III. Type of Sample/Analytical Anomaly

☐ Values Outside of Control Limits:

1 ☐ Blank Contamination
2 ☐ SB/SBD Spike Recoveries
3 ☐ MS/MSD Spike Recoveries
4 ☐ LCS/SRM Recoveries
5 ☐ Initial Calibration
6 ☐ Performance Checks
7 ☐ ISTD % Differences
8 ☐ Surrogate Spike Recoveries
9 ☐ SB/SBD RPD
10 ☐ MS/MSD RPD
11 ☐ Sample/LD RPD
12 ☐ Continuing Calibration Checks
13 ☐ Tuning Criteria

14 ☒ Holding time exceeded by: *2 days*
15 ☐ Insufficient sample amount.
16 ☐ Inappropriate storage, container or preservation.
17 ☐ Other

Anomaly Description:
(1) Samples L41895-(4,5) were processed via solid phase extraction on the ninth (9th) day following collection, beyond the seven (7) day sample holding time designated for analysis of water samples for PHPAHSOURCE.

(2) Samples L41895-(1,3,4,5) contained suspended matter which clogged the Speedisk during the solid phase extraction processing step, requiring the use of two (2) Speedisks to complete the extraction of the entire sample.
(3) Sample WG90566-1 was double-spiked with the deuterated monitoring compounds surrogate (DMC Std. 1343) during preparation.
(4) Sample L41895-1 was double-spiked with the deuterated monitoring compounds surrogate (DMC Std. 1343). The sample was correctly spiked pre-deployment. The sample was incorrectly spiked again just before processing via solid phase extraction.

IV. Type of Project Anomaly

☐ SAP/Work Plan specified MDLs not met.
☐ SAP/Work Plan specified QC frequency or QC type not met.
☐ SAP/Work Plan specified methodology not used.
☐ Sample exceeds regulatory and/or hazardous waste limits.
☐ Sample data results are unusual or inconsistent with expected results.
☐ Other

Anomaly Description:

V. Corrective Action Taken

☐ Sample(s) re-analyzed ☐ Sample(s) re-prepared and re-analyzed
☒ Sample(s) reported "AS IS"
☒ Data qualified with the following flags: *H = Samples extracted beyond 7 day holding time (9 days); E=Estimated (outside expected accuracy)*
☐ Other

Corrective Action Description:
(1) For samples L41895-(4,5), the data will be flagged with an "H" qualifier to indicate that the samples were extracted beyond the 7 day holding time for sample preparation. The text statement, "Samples extracted 2 days past holding time" will be added to all affected parameters.
(2) Sample results reported "As Is."
(3) DMC surrogate spike volume corrected prior to recovery calculation. Sample results reported "As Is."
(4) DMC surrogate spike volume corrected prior to recovery calculation. Data will be flagged with an "E" qualifier and the text statement, "Estimated (outside expected accuracy).

VI. Potential Effects on Data Quality:

☒ None; corrective action entirely corrected anomaly (explanation optional):
(2) The use of two (2) Speedisks for these samples did not appear to quantitatively impact sample results. Surrogate recoveries were similar to those observed for previous analyses. Both a spike blank sample (WG90566-6) and a method blank (WG90566-7) were prepared using two (2) Speedisks. For the spike blank, recovery of target analytes was consistent with previous analyses using one (1) Speedisk. Concentrations of target analytes in the method blank processed using two (2) Speedisks were similar to previous method blanks using one (1) Speedisk.
(3) Correction of surrogate spike volume entirely corrected anomaly.

☒ Potential effect explanation (explanation mandatory):

(1) For samples L41895-(4,5) which were processed beyond the seven (7) day holding time, no significant quantitative impact on the data is expected. The seven (7) day holding time is considered conservative for the analytes included in the PHPAHSOURCE analysis.
(4) Because the DMC surrogate solution was added both before and after deployment, recovery results are not considered representative of a true surrogate field spike. Percent recoveries are reported for information only.

	Signatures	Signature Dates
Reported By: *Jack Gudeman*	Jack G. Gudeman	04/26/07
Reviewer: *Mike Doubrava*		4/26/07
Supervisor: *Dana Walker*	Dana Walker	4/26/07
QA Officer: *Colin Elliott* (For QA1 only)		
cc: LPM:		

Data Change Request

DMA # _____
DATE _____

Supervisor signature required on all Data Change requests: Original signed by Dana Walker retained by ISDA. (JG) 04/30/07

Requested by: Jack Gudeman
Date Requested: 04/30/2007 Phone: 684-2336
Dept: ☐ESS ☐CONV ☐MICRO ☐MET ☒ORG ☐AQ ☐IW ☐ISDA ☐CSS

HISTORICAL DATA

☐ Parameter names ☒ Analytical and Field Data ☐ Site, Locator, Project, Matrix, Units ☐ See attachment

Customer Name(s): Bruce Tiffany ☐ Customer contacted {NOTE: Customer must be contacted of changes > 24 hours}

Description of the data to be changed: (ie. Project, Lab Sample Number, Parameter, etc.) Explain the reason for this change.
(Remember to include the Unrounded value when the Numvalue is being changed)

For sample L41895-1 in WG90566, please delete the "E" data qualifier for the parameter d14-Terphenyl. There are no other data qualifiers for this parameter for sample L41895-1.

The "E" qualifier was incorrectly assigned to the paramenter d14-Terphenyl for sample L41895-1.

LIST TYPE

☐ Addition ☐ Deletion ☐ Modification ☐ See attachment

Listtype Name: _____ Method Reference: _____
Matrix Class: (Liquid, Solid, Tissue, Air) _____ Process Chain: _____
Design ID: (ie. OSMP-OR) _____ Product Link: _____

Seq	Parm Name	Value	Units	RDL	MDL	Parm Type	RDLSig	MDL Sig	Textvalue

QC LOOK-UP

☐ Addition ☐ Deletion ☐ Modification ☐ See attachment

QC Type: _____ CHEM: MB, CS, LCS, SRM, SB, SBD, LD, LT, MS, MSD, SDA, PDS, SR, SDIL
BIOLOGY: ETOH, PC, NC, DC, SC, AC, BF, AF
FIELD: BB, FB, MTRB, PB, RB, TB, FDUP, FREP, VREP, FSPK, BKGR

Matrix Class: (Liquid, Solid, Tissue, Air) _____ List Function: _____ Project Key: (STD, SED) _____
Design ID: (ie. OSMP-OR)

Seq	ParmName	TrueVal	Units	ParmType	HiLimit1	HiQual1	LoLimit1	LoQual1	VeryLo2	LoQual2	HiLimit3	HQual3

DataChangeRqstWG90566.doc, revised 15-Aug-2005

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SEA424326

PRODUCT CHANGES

☐ Addition ☐ Deletion ☐ Modification

Matrix Code(s): _____
(AB,LA,LB,LC,LD,LE,LF,LG,LH,LJ,LK,LL,LM,LN,LP,LQ,LR,LS,SA,SB,SC,SD,SE,SF,SG,SH,SJ,TA,TB,TC,TD,TE,TF,TG,TH)
Product: _____ **Standalone Products Only:** Hold Days: _____ Due Days: _____
Class: ____ (Standalone or Parent) Method: _____
Description:(Mandatory) _____ Hold Flag: _____ (Receive or Collect date)
Listlink: _____
Parent Products Only: List Children: _____

Time per test (Mandatory for requestor) _____ Cost per test (Obtain from Lab Manager) _____
Lab Manager's Approval _____
ISDA Supervsior _____

PARAMETER ADDITION

Final Stored Name of the New Parameter: _____ Units assigned to the Parameter: _____
Synonyms for the Parameter: _____ Number of Significant Figures: _____
Listtype Associated with Parameter: _____ List Matrix Class: _____
Product Associated with Parameter: _____
Reporting List(s) associated with Parameter: _____

CODES AND STATIC DATA

☐ Matrix Code: _____ Matrix Name: _____ Group: _____ (Solid, Liquid, Air, Tissue)
☐ QC Type: _____ Description: _____
☐ Qualifier Code: _____ Description: _____
☐ Units abbr: _____ Description: _____

QC Officer Approval: _____ Date: _____
ISDA Supervisor: _____ Date: _____

ISDA tracking log for this Data Change Request ☐ See attachment

Completed by: _____ Date: _____ Date Requestor Notified: _____ ☐Phone ☐Email
Audited by: _____ Date _____

DataChangeRqstWG90566.doc, revised 15-Aug-2005

KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab QC Report - 04/26/07 10:13
Run ID: R119592 Workgroup: WG90566 (EL#692 PHPAHSOURCE)

SBD:WG90566-4 SB:WG90566-1 MB:WG90566-2 Matrix: BLANK WTR Listtype: ORPHPAHSOURCE Method: 8270B Project: 423589-090-1 Pkey: STD
(Spiked Blank Duplicate, Spike Blank, Method Blank)

Parameter	Mdl	Rdl	Units	MB Value	Truevalue	SB Value	% Rec.	Qual	LabLimit	Truevalue	SBD Value	% Rec.	Qual	LabLimit	RPD	Qual	LabLimit
Acenaphthylene	.0044	.00889	ug/L	<MDL	0.111	.0426	38		10-150	0.111	.0433	39		10-150	3		100
Dimethyl Phthalate	.0044	.00889	ug/L	<MDL	0.111	.0493	44		10-150	0.111	.0516	46		10-150	4		100
Fluorene	.0044	.00889	ug/L	<MDL	0.111	.0584	53		10-150	0.111	.063	57		10-150	7		100
Diethyl Phthalate	.0067	.0133	ug/L	.0068	0.111	.104	88		10-150	0.111	.107	90		10-150	2		100
Phenanthrene	.0044	.00889	ug/L	<MDL	0.111	.0749	67		10-150	0.111	.0804	72		10-150	7		100
Anthracene	.0044	.00889	ug/L	<MDL	0.111	.06	54		10-150	0.111	.0662	60		10-150	11		100
Di-N-Butyl Phthalate	.0044	.00889	ug/L	.0201	0.111	.137	105		10-150	0.111	.144	112		10-150	6		100
Pyrene	.0044	.00889	ug/L	<MDL	0.111	.105	95		10-150	0.111	.111	100		10-150	5		100
Benzyl Butyl Phthalate	.0044	.00889	ug/L	.0101	0.111	.16	135		10-150	0.111	.167	145		10-150	7		100
Benzo(a)anthracene	.0044	.00889	ug/L	<MDL	0.111	.0936	84		10-150	0.111	.0976	88		10-150	5		100
Chrysene	.0044	.00889	ug/L	<MDL	0.111	.0907	82		10-150	0.111	.0972	87		10-150	6		100
Bis(2-Ethylhexyl)Phthalate	.0044	.00889	ug/L	.0267	0.111	.143	104		10-150	0.111	.148	101		10-150	3		100
Benzo(b)fluoranthene	.0067	.0133	ug/L	<MDL	0.111	.0969	87		10-150	0.111	.0958	86		10-150	1		100
Benzo(k)fluoranthene	.0067	.0133	ug/L	<MDL	0.111	.0947	85		10-150	0.111	.0936	84		10-150	1		100
Benzo(a)pyrene	.0067	.0133	ug/L	<MDL	0.111	.0834	75		10-150	0.111	.0846	76		10-150	1		100
Indeno(1,2,3-Cd)Pyrene	.0067	.0133	ug/L	<MDL	0.111	.0944	85		10-150	0.111	.0975	88		10-150	3		100
Dibenzo(a,h)anthracene	.0067	.0133	ug/L	<MDL	0.111	.0906	81		10-150	0.111	.0957	86		10-150	6		100
Benzo(g,h,i)perylene	.0067	.0133	ug/L	<MDL	0.111	.095	85		10-150	0.111	.0981	88		10-150	3		100

MB:WG90566-2 Matrix: BLANK WTR Listtype: ORPHPAHSOURCE Method: 8270B Project: 423589-090-1 Pkey: STD
(Method Blank)

Parameter	Mdl	Rdl	Units	MB Value	Qual
Naphthalene	.0089	.0178	ug/L	<MDL	
Acenaphthylene	.0044	.00889	ug/L	<MDL	
Dimethyl Phthalate	.0044	.00889	ug/L	<MDL	
Acenaphthene	.0044	.00889	ug/L	<MDL	
Fluorene	.0044	.00889	ug/L	<MDL	
Diethyl Phthalate	.0067	.0133	ug/L	.0068	B
Phenanthrene	.0044	.00889	ug/L	<MDL	
Anthracene	.0044	.00889	ug/L	<MDL	
Di-N-Butyl Phthalate	.0044	.00889	ug/L	.0201	B
Fluoranthene	.0044	.00889	ug/L	<MDL	
Pyrene	.0044	.00889	ug/L	<MDL	
Benzyl Butyl Phthalate	.0044	.00889	ug/L	.0101	B
Benzo(a)anthracene	.0044	.00889	ug/L	<MDL	
Chrysene	.0044	.00889	ug/L	<MDL	
Bis(2-Ethylhexyl)Phthalate	.0044	.00889	ug/L	.0267	B
Di-N-Octyl Phthalate	.0067	.0133	ug/L	<MDL	
Benzo(b)fluoranthene	.0067	.0133	ug/L	<MDL	
Benzo(k)fluoranthene	.0067	.0133	ug/L	<MDL	
Benzo(a)pyrene	.0067	.0133	ug/L	<MDL	
Indeno(1,2,3-Cd)Pyrene	.0067	.0133	ug/L	<MDL	
Dibenzo(a,h)anthracene	.0067	.0133	ug/L	<MDL	
Benzo(g,h,i)perylene	.0067	.0133	ug/L	<MDL	
2-Methylnaphthalene	.0067	.0133	ug/L	<MDL	

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MB:WG90566-3 Matrix: BLANK WTR Listtype: ORPHPAHSOURCE Method: 8270B Project: 423589-090-1 Pkey: STD
(Method Blank)

Parameter	Mdl	Rdl	Units	MB Value	Qual
Naphthalene	.0089	.0178	ug/L	<MDL	
Acenaphthylene	.0044	.00889	ug/L	<MDL	
Dimethyl Phthalate	.0044	.00889	ug/L	<MDL	
Acenaphthene	.0044	.00889	ug/L	<MDL	
Fluorene	.0044	.00889	ug/L	<MDL	
Diethyl Phthalate	.0067	.0133	ug/L	<MDL	
Phenanthrene	.0044	.00889	ug/L	<MDL	
Anthracene	.0044	.00889	ug/L	<MDL	
Di-N-Butyl Phthalate	.0044	.00889	ug/L	.037	B
Fluoranthene	.0044	.00889	ug/L	<MDL	
Pyrene	.0044	.00889	ug/L	<MDL	
Benzyl Butyl Phthalate	.0044	.00889	ug/L	.016	B
Benzo(a)anthracene	.0044	.00889	ug/L	<MDL	
Chrysene	.0044	.00889	ug/L	<MDL	
Bis(2-Ethylhexyl)Phthalate	.0044	.00889	ug/L	.0466	B
Di-N-Octyl Phthalate	.0067	.0133	ug/L	<MDL	
Benzo(b)fluoranthene	.0067	.0133	ug/L	<MDL	
Benzo(k)fluoranthene	.0067	.0133	ug/L	<MDL	
Benzo(a)pyrene	.0067	.0133	ug/L	<MDL	
Indeno(1,2,3-Cd)Pyrene	.0067	.0133	ug/L	<MDL	
Dibenzo(a,h)anthracene	.0067	.0133	ug/L	<MDL	
Benzo(g,h,i)perylene	.0067	.0133	ug/L	<MDL	
2-Methylnaphthalene	.0067	.0133	ug/L	<MDL	

MB:WG90566-5 Matrix: BLANK WTR Listtype: ORPHPAHSOURCE Method: 8270B Project: 423589-090-1 Pkey: STD
(Method Blank)

Parameter	Mdl	Rdl	Units	MB Value	Qual
Naphthalene	.0089	.0178	ug/L	<MDL	
Acenaphthylene	.0044	.00889	ug/L	<MDL	
Dimethyl Phthalate	.0044	.00889	ug/L	<MDL	
Acenaphthene	.0044	.00889	ug/L	<MDL	
Fluorene	.0044	.00889	ug/L	<MDL	
Diethyl Phthalate	.0067	.0133	ug/L	.0069	B
Phenanthrene	.0044	.00889	ug/L	<MDL	
Anthracene	.0044	.00889	ug/L	<MDL	
Di-N-Butyl Phthalate	.0044	.00889	ug/L	.0186	B
Fluoranthene	.0044	.00889	ug/L	<MDL	
Pyrene	.0044	.00889	ug/L	<MDL	
Benzyl Butyl Phthalate	.0044	.00889	ug/L	.0063	B
Benzo(a)anthracene	.0044	.00889	ug/L	<MDL	
Chrysene	.0044	.00889	ug/L	<MDL	
Bis(2-Ethylhexyl)Phthalate	.0044	.00889	ug/L	.0351	B
Di-N-Octyl Phthalate	.0067	.0133	ug/L	<MDL	
Benzo(b)fluoranthene	.0067	.0133	ug/L	<MDL	
Benzo(k)fluoranthene	.0067	.0133	ug/L	<MDL	
Benzo(a)pyrene	.0067	.0133	ug/L	<MDL	
Indeno(1,2,3-Cd)Pyrene	.0067	.0133	ug/L	<MDL	
Dibenzo(a,h)anthracene	.0067	.0133	ug/L	<MDL	
Benzo(g,h,i)perylene	.0067	.0133	ug/L	<MDL	

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SEA424329

MB:WG90566-5 Matrix: BLANK WTR Listtype: ORPHPAHSOURCE Method: 8270B Project: 423589-090-1 Pkey: STD
(Method Blank)

Parameter	Mdl	Rdl	Units	MB Value	Qual
2-Methylnaphthalene	.0067	.0133	ug/L	<MDL	

SB:WG90566-6 MB:WG90566-7 Matrix: BLANK WTR Listtype: ORPHPAHSOURCE Method: 8270B Project: 423589-090-1 Pkey: STD
(Spike Blank, Method Blank)

Parameter	Mdl	Rdl	Units	MB Value	Truevalue	SB Value	% Rec.	Qual	LabLimit
Acenaphthylene	.0044	.00889	ug/L	<MDL	0.111	.0341	31		10-150
Dimethyl Phthalate	.0044	.00889	ug/L	<MDL	0.111	.0762	69		10-150
Fluorene	.0044	.00889	ug/L	<MDL	0.111	.0571	51		10-150
Diethyl Phthalate	.0067	.0133	ug/L	<MDL	0.111	.106	95		10-150
Phenanthrene	.0044	.00889	ug/L	<MDL	0.111	.0777	70		10-150
Anthracene	.0044	.00889	ug/L	<MDL	0.111	.064	58		10-150
Di-N-Butyl Phthalate	.0044	.00889	ug/L	.0206	0.111	.146	113		10-150
Pyrene	.0044	.00889	ug/L	<MDL	0.111	.111	100		10-150
Benzyl Butyl Phthalate	.0044	.00889	ug/L	.00971	0.111	.167	142		10-150
Benzo(a)anthracene	.0044	.00889	ug/L	<MDL	0.111	.099	89		10-150
Chrysene	.0044	.00889	ug/L	<MDL	0.111	.0968	87		10-150
Bis(2-Ethylhexyl)Phthalate	.0044	.00889	ug/L	.0358	0.111	.159	111		10-150
Benzo(b)fluoranthene	.0067	.0133	ug/L	<MDL	0.111	.101	91		10-150
Benzo(k)fluoranthene	.0067	.0133	ug/L	<MDL	0.111	.0936	84		10-150
Benzo(a)pyrene	.0067	.0133	ug/L	<MDL	0.111	.085	77		10-150
Indeno(1,2,3-Cd)Pyrene	.0067	.0133	ug/L	<MDL	0.111	.1	90		10-150
Dibenzo(a,h)anthracene	.0067	.0133	ug/L	<MDL	0.111	.104	94		10-150
Benzo(g,h,i)perylene	.0067	.0133	ug/L	<MDL	0.111	.0995	90		10-150

MB:WG90566-7 Matrix: BLANK WTR Listtype: ORPHPAHSOURCE Method: 8270B Project: 423589-090-1 Pkey: STD
(Method Blank)

Parameter	Mdl	Rdl	Units	MB Value	Qual
Naphthalene	.0089	.0178	ug/L	<MDL	
Acenaphthylene	.0044	.00889	ug/L	<MDL	
Dimethyl Phthalate	.0044	.00889	ug/L	<MDL	
Acenaphthene	.0044	.00889	ug/L	<MDL	
Fluorene	.0044	.00889	ug/L	<MDL	
Diethyl Phthalate	.0067	.0133	ug/L	<MDL	
Phenanthrene	.0044	.00889	ug/L	<MDL	
Anthracene	.0044	.00889	ug/L	<MDL	
Di-N-Butyl Phthalate	.0044	.00889	ug/L	.0206	B
Fluoranthene	.0044	.00889	ug/L	<MDL	
Pyrene	.0044	.00889	ug/L	<MDL	
Benzyl Butyl Phthalate	.0044	.00889	ug/L	.00971	B
Benzo(a)anthracene	.0044	.00889	ug/L	<MDL	
Chrysene	.0044	.00889	ug/L	<MDL	
Bis(2-Ethylhexyl)Phthalate	.0044	.00889	ug/L	.0358	B
Di-N-Octyl Phthalate	.0067	.0133	ug/L	<MDL	
Benzo(b)fluoranthene	.0067	.0133	ug/L	<MDL	
Benzo(k)fluoranthene	.0067	.0133	ug/L	<MDL	
Benzo(a)pyrene	.0067	.0133	ug/L	<MDL	
Indeno(1,2,3-Cd)Pyrene	.0067	.0133	ug/L	<MDL	

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MB:WG90566-7 Matrix: BLANK WTR Listtype: ORPHPAHSOURCE Method: 8270B Project: 423589-090-1 Pkey: STD
(Method Blank)

Parameter	Mdl	Rdl	Units	MB Value	Qual
Dibenzo(a,h)anthracene	.0067	.0133	ug/L	<MDL	
Benzo(g,h,i)perylene	.0067	.0133	ug/L	<MDL	
2-Methylnaphthalene	.0067	.0133	ug/L	<MDL	

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SEA424331

KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab QC Report - 04/26/07 10:13
Run ID: R119592 Workgroup: WG90566 (BL#692 PHPAHSOURCE)

Sample # (Lab Limits)	d14-Terphenyl 33-141	D6-Dimethyl Ph-thalate 0-150	D8-Acenaphthyl-ene 0-150	D10-Fluorene 0-150	D10-Anthracene- 0-150	D10-Pyrene 0-150	D12-Benzo(a)py-rene 0-150
L41895-1	101	73	32	47	26	51	48
L41895-2	103	55	0 *	20	0 *	39	46
L41895-3	100	42	0 *	0 *	0 *	24	28
L41895-4	96	77	0 *	9 *	0 *	31	44
L41895-5	101	67	4 *	26	0 *	39	42
L41896-1	83	68	43	58	52	66	71
WG90566-1	90	43	46	55	49	67	76
WG90566-2	92	35	33	39	46	67	75
WG90566-3	88	72	45	54	51	66	74
WG90566-4	95	44	45	58	52	70	80
WG90566-5	98	42	47	52	57	71	82
WG90566-6	96	67	39	57	52	72	82
WG90566-7	95	63	38	49	51	70	80

==========

If the following parameters are reported, values in the RPD column are their Absolute Differences:

pH
pH, Field
Salinity
Salinity, Field
Sample Depth
Sample Temperature, Field

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SEA424332

Round 20 - Samples
Round 21 - Rinse Blank

LIQUID SAMPLE EXTRACTION RECORD FOR BNA ANALYSIS
TRACE ORGANICS LABORATORY

Acetone Lot# 064335
MeCL2 Lot # CS197 PHPAHSOURCE/PCBLL via SPE
QC BATCH NO.: BL #692
EPA SW-846 EXTRACTION METHOD:
CONT. L-L EPA 3520 SEP. FUNNEL EPA 3510

WORKGROUP NO.: 2 (PHPAHSOURCE = WG90566 PCBLL = WG90567)
BNA SURROGATE SPIKE: 1388+1343(DUCs)
BNA MATRIX SPIKE: 1390
PCB Field Surr = 1381
PCB Horse Surr = 1389
PCB MS LL = 1375

Date/ Analyst	Sample Number	Project Number	Sample Description	coc	pH	Initial Amt. (ml)	Spike Amount (ul)	Vf (ml)	Conc. Anlyst	Turn Over Date	Comments	
JG 03/05/07	WG90566-1 WG90567-1	QC	SB		6	4500	1343-25µl 1388-100µl 1381-100µl 1389-100µl 1390-50µl 1375-100µl	1.0	JG	04/05/07	22.5 ml MeOH, initially double-spiked for std. 1343.	19.5
	WG90566-2 WG90567-2	QC	MB		6	4500	1343-25µl 1388-100µl 1381-100µl 1389-100µl	1.0	JG	04/05/07	22.5 ml MeOH	22.
	WG90566-3 WG90567-3	QC	MB 2L		6	2000		1.0	JG	04/05/07	10 ml MeOH No beaker.	9.9
	L41896-1	423589-090-001	BWR-BK-Lower Duwamish Sources		6	2000		1.0	JG	04/05/07	10 ml MeOH No beaker.	10.
	L41895-3	423589-090-001	DZ-01-020607		5	4370		1.0	JG	04/05/07	22.5 MeOH, split between two (2) speedisks.	33.
							1343-25µl 1388-100µl					36.
JG 03/06/07	L41895-2	423589-090-001	CER-01-020607-		6	4260	1381-100µl 1389-100µl	1.0	JG	04/05/07	22 ml MeOH single speedisk. ~~two (2) spe~~ JG 03/06/07	32.
	L41895-1	423589-090-001	BWR-01-020607-		5	4590	+ (1343-25µl)	1.0	JG	04/05/07	22.5 ml MeOH, split between two (2) speedisks. Double spike	76.
	WG90566-4 WG90567-4	QC	SB		6	4500	1343-25µl 1388-100µl 1381-100µl 1389-100µl 1390-50µl 1375-100µl	1.0	JG	04/05/07	of std 1343 (pre and post) single speedisk.	26 +17
	WG90566-5 WG90567-5	QC	MB		6	4500	1343-25µl 1388-100µl 1381-100µl 1389-100µl	1.0	JG	04/05/07	22.5 ml MeOH single speedisk.	21.
JG 03/08/07	L41895-4	423589-090-001	KCIA-01-020607-		5	5210	1343-25µl 1344-100µl 1388-100µl 1389-100µl	1.0	JG	04/05/07	25 ml MeOH Two (2) speedisks simultaneously.	31. 31.
	L41895-5	423589-090-001	SPCC-01-020607-		5	4870					22.5 ml MeOH Two (2) speedisks simultaneously.	26. 26.
	WG90566-6 WG90567-6	QC	SB		6	4500	1343-25µl 1388-100µl 1381-100µl 1389-100µl 1390-50µl 1375-100µl	1.0	JG	04/05/07	22.5 ml MeOH split between two (2) speedisks simultaneously. For SB may be loss due to bad seal between speedisk and cylinder (some solvent on side VOA vial collection vial)	12. 12.
		~~QC~~ JG 03/08/07										
	WG90566-7 WG90567-7	QC	MB		6	4500	1343-25µl 1388-100µl 1381-100µl 1389-100µl	1.0	JG	04/05/07	22.5 ml MeOH 2 speedisks simultaneously.	— —

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LIQUID SAMPLE EXTRACTION RECORD FOR BNA ANALYSIS
TRACE ORGANICS LABORATORY

Acetone Lot # 064335
MeCL2 Lot # C5197
QC BATCH NO.: BL #692 PHPAHSOURCE / PCBLL via SPE

WORKGROUP NO.: { PHPAHSOURCE = WG590526 PCBLL = WG590567
BNA SURROGATE SPIKE: 1388 + 1343 (2ml's)
BNA MATRIX SPIKE: 1390

PCB Field Blank = 1381
PCB House Blank = 1389
PCB MS LL = 1375

EPA SW-846 EXTRACTION METHOD:
CONT. L-L EPA 3520 SEP. FUNNEL EPA 3510

Date/ Analyst	Sample Number	Project Number	Sample Description	coc	pH	Initial Amt. (ml)	Spike Amount (ul)	Vf (ml)	Conc. Anlyst	Turn Over Date	Comments
JG 03/12/07	—	421176	Re-used Cartridge Blank Vials 1 and 2			2000*	—	1.0	JG JG	04/05/07 04/05/07	*No sample water volume actually used. Assign 2000ml for calculation/comparison.
	Dave,										
			Cartridge blank prepared using a previously-used								
			cartridge which was solvent-rinsed for re-use.								
			Please analyze both 0.5 ml vial volumes, (1.0ml								
			Final Vol). No data loaded to LIMS; for								
			method development only.								
											PHPAHSOURCE
							JG	04/05/07			for both vials.

~~161~~
JG 04/05/07

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SEA424334

6890n DILUTION LOG

King County Environmental Laboratory

Date & Initials	Sample Name/ Sample Number	Extract Vol Used (ml)	Final Vol	Dil Fac	IS #	Additional IS (ul)	Total IS (ul)
4-11-07 DJ	L41895-1	50µl	0.5 ml	10X	SS#969x200	8µl	10µl
4-11-07 DJ	L41895-2	50µl	0.5 ml	10X	SS#969x200	8µl	10µl
4-11-09 DJ	L41895-4	50µl	0.5 ml	10X	SS#969x200	8µl	10µl

6890n MAINTENANCE LOG

King County Environmental Laboratory

Date & Initials	Maintenance Description

KCSlip4 58036

SEA424335

Batch: \\Orgizmo\EE\chem\6890n.i\070410.b

#	Smp. #	Injection Time	Wkgp. #	QC #	Project #	Sample Description	Matrix	Amount	DilFac	IS#2-RT	IS#2-Area	Method	Init Cali	Analyst
1	BLANK-1	10-APR-2007 06:59	SDGa1658	SDGa16	421152	Solvent Blank + ISTD's	WATER	1000.000	1.0	6.713	179096	PHPAH.m	09-APR-2007	Dave Fada
2	DFTPP-1	10-APR-2007 07:40	SDGa2816	SDGa28	421152	SS#1254x50 DFTPP	NONE	0.000	1.0	12.724	75968	LVI_DFTP.m		Dave Fada
3	CCALI-1	10-APR-2007 08:21	SDGa1658	SDGa16	421152	SS#1345E 250 ppb	WATER	1.000	1.0	6.686	235278	PHPAH.m	09-APR-2007	Dave Fada
4	WG90566-2	10-APR-2007 09:31	WG90566	BL#692	423589-09	Method Blank (03-05-2007)	WATER	4500.000	1.0	6.686	231703	PHPAH.m	09-APR-2007	Dave Fada
5	WG90566-3	10-APR-2007 10:12	WG90566	BL#692		Method Blank (03-05-2007)	WATER	2000.000	1.0	6.686	227120	PHPAH.m	09-APR-2007	Dave Fada
6	WG90566-5	10-APR-2007 10:53	WG90566	BL#692		Method Blank (03-06-2007)	WATER	4500.000	1.0	6.686	231335	PHPAH.m	09-APR-2007	Dave Fada
7	WG90566-7	10-APR-2007 11:34	WG90566	BL#692	423589-09	Method Blank (03-08-2007)	WATER	4500.000	1.0	6.686	236611	PHPAH.m	09-APR-2007	Dave Fada
8	WG90566-1	10-APR-2007 12:15	WG90566	BL#692	423589-09	Spike Blank (03-05-2007)	WATER	4500.000	1.0	6.677	239838	PHPAH.m	09-APR-2007	Dave Fada
9	WG90566-4	10-APR-2007 12:56	WG90566	BL#692	423589-09	Spike Blank Dup (03-06-2007)	WATER	4500.000	1.0	6.677	251485	PHPAH.m	09-APR-2007	Dave Fada
10	WG90566-6	10-APR-2007 13:37	WG90566	BL#692	423589-09	Spike Blank (03-08-2007)	WATER	4500.000	1.0	6.677	252895	PHPAH.m	09-APR-2007	Dave Fada
11	L41896-1	10-APR-2007 14:18	WG90566	BL#692	423589-09	Lower Duwamish Phthalate Stu	WATER	2000.000	1.0	6.677	249771	PHPAH.m	09-APR-2007	Dave Fada
12	CART-1	10-APR-2007 14:59	WG90566	BL#692	423589-09	Re-used Cartridge Blank Vial	WATER	2000.000	1.0	6.677	246761	PHPAH.m	09-APR-2007	Dave Fada
13	CART-2	10-APR-2007 15:40	WG90566	BL#692	423589-09	Re-used Cartridge Blank Vial	WATER	2000.000	1.0	6.677	258432	PHPAH.m	09-APR-2007	Dave Fada

Samples: 3 **QC Samples + Misc.:** 8 **ContinuingCals:** 1 **Tunes:** 1 **Calibrations:** 0

Batch: \\Orgizmo\EE\chem\6890n.i\070411.b

#	Smp. #	Injection Time	Wkgp. #	QC #	Project #	Sample Description	Matrix	Amount	DilFac	IS#2-RT	IS#2-Area	Method	Init Cali	Analyst
1	BLANK-1	11-APR-2007 06:09	SDGa1658	SDGa16	421152	Solvent Blank + ISTD's	WATER	1000.000	1.0	6.713	187362	PHPAH.m	09-APR-2007	Dave Fada
2	DFTPP-1	11-APR-2007 06:49	SDGa2816	SDGa28	421152	SS#1254x50 DFTPP	NONE	0.000	1.0	12.715	74776	LVI_DFTP.m		Dave Fada
3	CCALI-1	11-APR-2007 07:30	SDGa1658	SDGa16	421152	SS#1345E 250 ppb	WATER	1.000	1.0	6.686	230527	PHPAH.m	09-APR-2007	Dave Fada
4	L41895-1	11-APR-2007 08:57	WG90566	BL#692	423589-09	Lower Duwamish Phthalate Stu	WATER	4590.000	1.0	6.686	269941	PHPAH.m	09-APR-2007	Dave Fada
5	L41895-2	11-APR-2007 09:38	WG90566	BL#692	423589-09	Lower Duwamish Phthalate Stu	WATER	4260.000	1.0	6.686	285112	PHPAH.m	09-APR-2007	Dave Fada
6	L41895-3	11-APR-2007 10:19	WG90566	BL#692	423589-09	Lower Duwamish Phthalate Stu	WATER	4370.000	1.0	6.686	274310	PHPAH.m	09-APR-2007	Dave Fada
7	L41895-4	11-APR-2007 11:00	WG90566	BL#692	423589-09	Lower Duwamish Phthalate Stu	WATER	5210.000	1.0	6.686	247066	PHPAH.m	09-APR-2007	Dave Fada
8	L41895-5	11-APR-2007 11:41	WG90566	BL#692	423589-09	Lower Duwamish Phthalate Stu	WATER	4870.000	1.0	6.686	299490	PHPAH.m	09-APR-2007	Dave Fada
9	L41895-1X	11-APR-2007 12:57	WG90566	BL#692	423589-09	Lower Duwamish Phthalate Stu	WATER	4590.000	10.0	6.686	238746	PHPAH.m	09-APR-2007	Dave Fada
10	L41895-2X	11-APR-2007 13:38	WG90566	BL#692	423589-09	Lower Duwamish Phthalate Stu	WATER	4260.000	10.0	6.686	249362	PHPAH.m	09-APR-2007	Dave Fada
11	L41895-4X	11-APR-2007 14:19	WG90566	BL#692	423589-09	Lower Duwamish Phthalate Stu	WATER	5210.000	10.0	6.686	237418	PHPAH.m	09-APR-2007	Dave Fada

Samples: 8 **QC Samples + Misc.:** 1 **ContinuingCals:** 1 **Tunes:** 1 **Calibrations:** 0

```
   Sequence Name: C:\MSDCHEM\1\SEQUENCE\070410.S
         Comment:
        Operator: Dave Fada
       Data Path: C:\MSDCHEM\1\DATA\070410\
Instrument Control  Pre-Seq Cmd:
Data Analysis       Pre-Seq Cmd:

Instrument Control Post-Seq Cmd:
Data Analysis      Post-Seq Cmd:

   Method Sections To Run      On A Barcode Mismatch
    (X) Full Method              (X) Inject Anyway
    ( ) Reprocessing Only        ( ) Don't Inject

   ---------------------------------------------------------------------
   Line                    Sample Name/Misc Info
   ---------------------------------------------------------------------
   1   Type: Blank         Solvent Blank + ISTD's
       Vial: 1             Solvent Blank + ISTD's
       Method  : PHPAH.M
       Datafile: BLANK-1.D
       Bar Code: 421152            Samp Amt: 1000        Multiplr: 1
       Matrix            :Method Default   Sublist          :Method Default
       Spikelist         :Method Default   Re-inject        :No
   ---------------------------------------------------------------------
   2   Type: Tune          SS#1254x50 DFTPP
       Vial: 2             DFTPP 1.0 ug/ml 20 ul injection
       Method  : LVI_DFTP.M
       Datafile: DFTPP-1.D
       Bar Code: 421152            Samp Amt: 1           Multiplr: 1
       Matrix            :Method Default   Sublist          :Method Default
       Spikelist         :Method Default   Re-inject        :No
   ---------------------------------------------------------------------
   3   Type: Cont.Cal      SS#1345E 250 ppb
       Vial: 3             Phthalate/PAH 250 ppb 20 ul injection
       Method  : PHPAH.M
       Datafile: CCALI-1.D
       Bar Code: 421152            Samp Amt: 1           Multiplr: 1
       Matrix            :Method Default   Sublist          :Method Default
       Spikelist         :Method Default   Re-inject        :No
   ---------------------------------------------------------------------
   4   Type: Blank         Method Blank (03-05-2007)
       Vial: 4             WG90566;BL#692;SS#969x200;SS#1388/1343
       Method  : PHPAH.M
       Datafile: WG90566-2.D
       Bar Code: 423589-090-1      Samp Amt: 4500        Multiplr: 1
       Matrix            :Liquid           Sublist          :Method Default
       Spikelist         :Method Default   Re-inject        :No
   ---------------------------------------------------------------------
   5   Type: Blank         Method Blank (03-05-2007)
       Vial: 5             WG90566;BL#692;SS#969x200;SS#1388/1343
       Method  : PHPAH.M
       Datafile: WG90566-3.D
       Bar Code:                   Samp Amt: 2000        Multiplr: 0
       Matrix            :Method Default   Sublist          :Method Default
       Spikelist         :Method Default   Re-inject        :No
   ---------------------------------------------------------------------
   6   Type: Blank         Method Blank (03-06-2007)
       Vial: 6             WG90566;BL#692;SS#969x200;SS#1388/1343
       Method  : PHPAH.M
       Datafile: WG90566-5.D
       Bar Code:                   Samp Amt: 4500        Multiplr: 0
       Matrix            :Method Default   Sublist          :Method Default
       Spikelist         :Method Default   Re-inject        :No
   ---------------------------------------------------------------------
   7   Type: Blank         Method Blank (03-08-2007)
       Vial: 7             WG90566;BL#692;SS#969x200;SS#1388/1343
       Method  : PHPAH.M
       Datafile: WG90566-7.D
       Bar Code: 423589-090-2      Samp Amt: 4500        Multiplr: 1
       Matrix            :Liquid           Sublist          :Method Default
       Spikelist         :Method Default   Re-inject        :No
   ---------------------------------------------------------------------
   8   Type: SB            Spike Blank (03-05-2007)

   Sequence Last Modified  Tue Apr 10 09:24:33 2007        Page: 1
```

```
    Vial: 8            WG90566;BL#692;SS#969x200;SS#1388/1343
    Method  : PHPAH.M
    Datafile: WG90566-1.D
    Bar Code: 423589-090-1     Samp Amt: 4500       Multiplr: 1
    Matrix          :Liquid          Sublist          :Method Default
    Spikelist       :Method Default  Re-inject        :No
-----------------------------------------------------------------------
9   Type: SBD          Spike Blank Dup (03-06-2007)
    Vial: 9            WG90566;BL#692;SS#969x200;SS#1388/1343
    Method  : PHPAH.M
    Datafile: WG90566-4.D
    Bar Code: 423589-090-2     Samp Amt: 4500       Multiplr: 1
    Matrix          :Liquid          Sublist          :Method Default
    Spikelist       :Method Default  Re-inject        :No
-----------------------------------------------------------------------
10  Type: SB           Spike Blank (03-08-2007)
    Vial: 10           WG90566;BL#692;SS#969x200;SS#1388/1343
    Method  : PHPAH.M
    Datafile: WG90566-6.D
    Bar Code: 423589-090-1     Samp Amt: 4500       Multiplr: 1
    Matrix          :Liquid          Sublist          :Method Default
    Spikelist       :Method Default  Re-inject        :No
-----------------------------------------------------------------------
11  Type: Sample       Lower Duwamish Phthalate Studies
    Vial: 11           WG90566;BL#692;SS#969x200;SS#1388/1343
    Method  : PHPAH.M
    Datafile: L41896-1.D
    Bar Code: 423589-090-1     Samp Amt: 2000       Multiplr: 1
    Matrix          :Liquid          Sublist          :Method Default
    Spikelist       :Method Default  Re-inject        :No
-----------------------------------------------------------------------
12  Type: Sample       Re-used Cartridge Blank Vial 1 of 2
    Vial: 12           WG90566;BL#692;SS#969x200;SS#1388/1343
    Method  : PHPAH.M
    Datafile: CART-1.D
    Bar Code: 423589-090-1     Samp Amt: 2000       Multiplr: 1
    Matrix          :Liquid          Sublist          :Method Default
    Spikelist       :Method Default  Re-inject        :No
-----------------------------------------------------------------------
13  Type: Sample       Re-used Cartridge Blank Vial 2 of 2
    Vial: 13           WG90566;BL#692;SS#969x200;SS#1388/1343
    Method  : PHPAH.M
    Datafile: CART-2.D
    Bar Code: 423589-090-1     Samp Amt: 2000       Multiplr: 1
    Matrix          :Liquid          Sublist          :Method Default
    Spikelist       :Method Default  Re-inject        :No
-----------------------------------------------------------------------
```


KCSlip4 58039

SEA424338

```
Sequence Name: C:\msdchem\1\sequence\070411.S
      Comment:
     Operator: Dave Fada
    Data Path: C:\MSDCHEM\1\DATA\070411\
Instrument Control  Pre-Seq Cmd:
Data Analysis       Pre-Seq Cmd:

Instrument Control Post-Seq Cmd:
Data Analysis      Post-Seq Cmd:

Method Sections To Run      On A Barcode Mismatch
 (X) Full Method              (X) Inject Anyway
 ( ) Reprocessing Only        ( ) Don't Inject

-----------------------------------------------------------------------
Line                    Sample Name/Misc Info
-----------------------------------------------------------------------
1   Type: Blank         Solvent Blank + ISTD's
    Vial: 1             Solvent Blank + ISTD's
    Method  : PHPAH.M
    Datafile: BLANK-1.D
    Bar Code: 421152            Samp Amt: 1000        Multiplr: 1
    Matrix            :Method Default   Sublist          :Method Default
    Spikelist         :Method Default   Re-inject        :No
-----------------------------------------------------------------------
2   Type: Tune          SS#1254x50 DFTPP
    Vial: 2             DFTPP 1.0 ug/ml 20 ul injection
    Method  : LVI_DFTP.M
    Datafile: DFTPP-1.D
    Bar Code: 421152            Samp Amt: 1           Multiplr: 1
    Matrix            :Method Default   Sublist          :Method Default
    Spikelist         :Method Default   Re-inject        :No
-----------------------------------------------------------------------
3   Type: Cont.Cal      SS#1345E 250 ppb
    Vial: 3             Phthalate/PAH 250 ppb 20 ul injection
    Method  : PHPAH.M
    Datafile: CCALI-1.D
    Bar Code: 421152            Samp Amt: 1           Multiplr: 1
    Matrix            :Method Default   Sublist          :Method Default
    Spikelist         :Method Default   Re-inject        :No
-----------------------------------------------------------------------
4   Type: Sample        Lower Duwamish Phthalate Studies
    Vial: 4             WG90566;BL#692;SS#969x200;SS#1388/1343
    Method  : PHPAH.M
    Datafile: L41895-1.D
    Bar Code: 423589-090-1      Samp Amt: 4590        Multiplr: 1
    Matrix            :Liquid           Sublist          :Method Default
    Spikelist         :Method Default   Re-inject        :No
-----------------------------------------------------------------------
5   Type: Sample        Lower Duwamish Phthalate Studies
    Vial: 5             WG90566;BL#692;SS#969x200;SS#1388/1343
    Method  : PHPAH.M
    Datafile: L41895-2.D
    Bar Code: 423589-090-1      Samp Amt: 4260        Multiplr: 1
    Matrix            :Liquid           Sublist          :Method Default
    Spikelist         :Method Default   Re-inject        :No
-----------------------------------------------------------------------
6   Type: Sample        Lower Duwamish Phthalate Studies
    Vial: 6             WG90566;BL#692;SS#969x200;SS#1388/1343
    Method  : PHPAH.M
    Datafile: L41895-3.D
    Bar Code: 423589-090-1      Samp Amt: 4370        Multiplr: 1
    Matrix            :Liquid           Sublist          :Method Default
    Spikelist         :Method Default   Re-inject        :No
-----------------------------------------------------------------------
7   Type: Sample        Lower Duwamish Phthalate Studies
    Vial: 7             WG90566;BL#692;SS#969x200;SS#1388/1343
    Method  : PHPAH.M
    Datafile: L41895-4.D
    Bar Code: 423589-090-1      Samp Amt: 5210        Multiplr: 1
    Matrix            :Liquid           Sublist          :Method Default
    Spikelist         :Method Default   Re-inject        :No
-----------------------------------------------------------------------
8   Type: Sample        Lower Duwamish Phthalate Studies

Sequence Last Modified  Wed Apr 11 08:52:23 2007        Page: 1
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    Vial: 8           WG90566;BL#692;SS#969x200;SS#1388/1343
    Method  : PHPAH.M
    Datafile: L41895-5.D
    Bar Code: 423589-090-1      Samp Amt: 4870       Multiplr: 1
    Matrix          :Liquid           Sublist         :Method Default
    Spikelist       :Method Default   Re-inject       :No
-----------------------------------------------------------------------
9   Type: Sample      Lower Duwamish Phthalate Studies
    Vial: 9           WG90566;BL#692;SS#969x200;SS#1388/1343
    Method  : PHPAH.M
    Datafile: L41895-1X.D
    Bar Code: 423589-090-1      Samp Amt: 4590       Multiplr: 10
    Matrix          :Liquid           Sublist         :Method Default
    Spikelist       :Method Default   Re-inject       :No
-----------------------------------------------------------------------
10  Type: Sample      Lower Duwamish Phthalate Studies
    Vial: 10          WG90566;BL#692;SS#969x200;SS#1388/1343
    Method  : PHPAH.M
    Datafile: L41895-2X.D
    Bar Code: 423589-090-1      Samp Amt: 4260       Multiplr: 10
    Matrix          :Liquid           Sublist         :Method Default
    Spikelist       :Method Default   Re-inject       :No
-----------------------------------------------------------------------
11  Type: Sample      Lower Duwamish Phthalate Studies
    Vial: 11          WG90566;BL#692;SS#969x200;SS#1388/1343
    Method  : PHPAH.M
    Datafile: L41895-4X.D
    Bar Code: 423589-090-1      Samp Amt: 5210       Multiplr: 10
    Matrix          :Liquid           Sublist         :Method Default
    Spikelist       :Method Default   Re-inject       :No
-----------------------------------------------------------------------
```

KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab Review Report - 04/26/07 10:14 - Data Source: ELD

Sample#: WG90566-1	Matrix: BLANK WTR	List Type:	ORPHPAHSOURCE		
	Project:	Run ID:	R119592	Col. Date:	
	Locator: SB	Work Group:	WG90566	Rec. Date:	08-MAR-07
	Site: NONE	QC Type:	SB	Due Date:	
	Method Code: 8270B				

Parameter	Value	Units	Valq	Mdl	Rdl	Textvalue
Naphthalene		ug/L	<MDL	.0089	.0178	
Acenaphthylene	.0426	ug/L		.0044	.00889	
Dimethyl Phthalate	.0493	ug/L		.0044	.00889	
Acenaphthene		ug/L	<MDL	.0044	.00889	
Fluorene	.0584	ug/L		.0044	.00889	
Diethyl Phthalate	.104	ug/L		.0067	.0133	
Phenanthrene	.0749	ug/L		.0044	.00889	
Anthracene	.06	ug/L		.0044	.00889	
Di-N-Butyl Phthalate	.137	ug/L		.0044	.00889	
Fluoranthene		ug/L	<MDL	.0044	.00889	
Pyrene	.105	ug/L		.0044	.00889	
Benzyl Butyl Phthalate	.16	ug/L		.0044	.00889	
Benzo(a)anthracene	.0936	ug/L		.0044	.00889	
Chrysene	.0907	ug/L		.0044	.00889	
Bis(2-Ethylhexyl)Phthalate	.143	ug/L		.0044	.00889	
Di-N-Octyl Phthalate		ug/L	<MDL	.0067	.0133	
Benzo(b)fluoranthene	.0969	ug/L		.0067	.0133	
Benzo(k)fluoranthene	.0947	ug/L		.0067	.0133	
Benzo(a)pyrene	.0834	ug/L		.0067	.0133	
Indeno(1,2,3-Cd)Pyrene	.0944	ug/L		.0067	.0133	
Dibenzo(a,h)anthracene	.0906	ug/L		.0067	.0133	
Benzo(g,h,i)perylene	.095	ug/L		.0067	.0133	
2-Methylnaphthalene		ug/L	<MDL	.0067	.0133	
d14-Terphenyl	.251	ug/L		.0044	.00889	
D6-Dimethyl Phthalate	.0945	ug/L		.0044	.00889	
D8-Acenaphthylene	.102	ug/L		.0044	.00889	
D10-Fluorene	.122	ug/L		.0044	.00889	
D10-Anthracene	.108	ug/L		.0044	.00889	
D10-Pyrene	.148	ug/L		.0044	.00889	
D12-Benzo(a)pyrene	.168	ug/L		.0044	.00889	
Amount Analyzed	4500	ml				
Standard Amount	1000	ml				
Dilution Factor	1	none				
Date Analyzed						10-APR-07
Operator ID						Dave Fada
Porthandler File						/usr/users/seed2/METROS3/files/gcms/WG90566-1.rp
Instrument ID						6890n.i
Prep Date						05-MAR-07

SURROGATE RECOVERY INFORMATION

Parameter	% Rec	Lab Limits
d14-Terphenyl	90	33-141
D6-Dimethyl Phthalate	43	0-150
D8-Acenaphthylene	46	0-150
D10-Fluorene	55	0-150
D10-Anthracene	49	0-150
D10-Pyrene	67	0-150
D12-Benzo(a)pyrene	76	0-150

KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab Review Report - 04/24/07 10:21 - Data Source: ELD

Sample#: WG90566-2	Matrix:	BLANK WTR	List Type:	ORPHPAHSOURCE	
	Project:		Run ID:	R119592	Col. Date:
	Locator:	MB	Work Group:	WG90566	Rec. Date: 08-MAR-07
	Site:	NONE	QC Type:	MB	Due Date:
	Method Code:	8270B			

Parameter	Value	Units	Valq	Mdl	Rdl	Textvalue
Naphthalene		ug/L	<MDL	.0089	.0178	
Acenaphthylene		ug/L	<MDL	.0044	.00889	
Dimethyl Phthalate		ug/L	<MDL	.0044	.00889	
Acenaphthene		ug/L	<MDL	.0044	.00889	
Fluorene		ug/L	<MDL	.0044	.00889	
Diethyl Phthalate	.0068	ug/L	<RDL,B	.0067	.0133	
Phenanthrene		ug/L	<MDL	.0044	.00889	
Anthracene		ug/L	<MDL	.0044	.00889	
Di-N-Butyl Phthalate	.0201	ug/L	B	.0044	.00889	
Fluoranthene		ug/L	<MDL	.0044	.00889	
Pyrene		ug/L	<MDL	.0044	.00889	
Benzyl Butyl Phthalate	.0101	ug/L	B	.0044	.00889	
Benzo(a)anthracene		ug/L	<MDL	.0044	.00889	
Chrysene		ug/L	<MDL	.0044	.00889	
Bis(2-Ethylhexyl)Phthalate	.0267	ug/L	B	.0044	.00889	
Di-N-Octyl Phthalate		ug/L	<MDL	.0067	.0133	
Benzo(b)fluoranthene		ug/L	<MDL	.0067	.0133	
Benzo(k)fluoranthene		ug/L	<MDL	.0067	.0133	
Benzo(a)pyrene		ug/L	<MDL	.0067	.0133	
Indeno(1,2,3-Cd)Pyrene		ug/L	<MDL	.0067	.0133	
Dibenzo(a,h)anthracene		ug/L	<MDL	.0067	.0133	
Benzo(g,h,i)perylene		ug/L	<MDL	.0067	.0133	
2-Methylnaphthalene		ug/L	<MDL	.0067	.0133	
d14-Terphenyl	.254	ug/L		.0044	.00889	
D6-Dimethyl Phthalate	.0393	ug/L		.0044	.00889	
D8-Acenaphthylene	.0367	ug/L		.0044	.00889	
D10-Fluorene	.0432	ug/L		.0044	.00889	
D10-Anthracene	.0509	ug/L		.0044	.00889	
D10-Pyrene	.0741	ug/L		.0044	.00889	
D12-Benzo(a)pyrene	.0837	ug/L		.0044	.00889	
Amount Analyzed	4500	ml				
Standard Amount	1000	ml				
Dilution Factor	1	none				
Date Analyzed						10-APR-07
Operator ID						Dave Fada
Porthandler File						/usr/users/seed2/METROS3/files/gcms/WG90566-2.rp
Instrument ID						6890n.i
Prep Date						05-MAR-07

SURROGATE RECOVERY INFORMATION

Parameter	% Rec	Lab Limits
d14-Terphenyl	92	33-141
D6-Dimethyl Phthalate	35	0-150
D8-Acenaphthylene	33	0-150
D10-Fluorene	39	0-150
D10-Anthracene	46	0-150
D10-Pyrene	67	0-150
D12-Benzo(a)pyrene	75	0-150

KCSlip4 58043

SEA424342

KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab Review Report - 04/24/07 10:21 - Data Source: ELD

Sample#: WG90566-3	Matrix: BLANK WTR	List Type:	ORPHPAHSOURCE		
	Project:	Run ID:	R119592	Col. Date:	
	Locator: MB	Work Group:	WG90566	Rec. Date:	08-MAR-07
	Site: NONE	QC Type:	MB	Due Date:	
	Method Code: 8270B				

Parameter	Value	Units	Valq	Mdl	Rdl	Textvalue
Naphthalene		ug/L	<MDL	.02	.04	
Acenaphthylene		ug/L	<MDL	.01	.02	
Dimethyl Phthalate		ug/L	<MDL	.01	.02	
Acenaphthene		ug/L	<MDL	.01	.02	
Fluorene		ug/L	<MDL	.01	.02	
Diethyl Phthalate		ug/L	<MDL	.015	.03	
Phenanthrene		ug/L	<MDL	.01	.02	
Anthracene		ug/L	<MDL	.01	.02	
Di-N-Butyl Phthalate	.037	ug/L	B	.01	.02	
Fluoranthene		ug/L	<MDL	.01	.02	
Pyrene		ug/L	<MDL	.01	.02	
Benzyl Butyl Phthalate	.016	ug/L	<RDL,B	.01	.02	
Benzo(a)anthracene		ug/L	<MDL	.01	.02	
Chrysene		ug/L	<MDL	.01	.02	
Bis(2-Ethylhexyl)Phthalate	.0466	ug/L	B	.01	.02	
Di-N-Octyl Phthalate		ug/L	<MDL	.015	.03	
Benzo(b)fluoranthene		ug/L	<MDL	.015	.03	
Benzo(k)fluoranthene		ug/L	<MDL	.015	.03	
Benzo(a)pyrene		ug/L	<MDL	.015	.03	
Indeno(1,2,3-Cd)Pyrene		ug/L	<MDL	.015	.03	
Dibenzo(a,h)anthracene		ug/L	<MDL	.015	.03	
Benzo(g,h,i)perylene		ug/L	<MDL	.015	.03	
2-Methylnaphthalene		ug/L	<MDL	.015	.03	
d14-Terphenyl	.549	ug/L		.01	.02	
D6-Dimethyl Phthalate	.179	ug/L		.01	.02	
D8-Acenaphthylene	.112	ug/L		.01	.02	
D10-Fluorene	.136	ug/L		.01	.02	
D10-Anthracene	.129	ug/L		.01	.02	
D10-Pyrene	.164	ug/L		.01	.02	
D12-Benzo(a)pyrene	.185	ug/L		.01	.02	
Amount Analyzed	2000	ml				
Standard Amount	1000	ml				
Dilution Factor	1	none				
Date Analyzed						10-APR-07
Operator ID						Dave Fada
Porthandler File						/usr/users/seed2/METROS3/files/gcms/WG90566-3.rp
Instrument ID						6890n.i
Prep Date						05-MAR-07

SURROGATE RECOVERY INFORMATION

Parameter	% Rec	Lab Limits
d14-Terphenyl	88	33-141
D6-Dimethyl Phthalate	72	0-150
D8-Acenaphthylene	45	0-150
D10-Fluorene	54	0-150
D10-Anthracene	51	0-150
D10-Pyrene	66	0-150
D12-Benzo(a)pyrene	74	0-150

KCSlip4 58044

SEA424343

KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab Review Report - 04/24/07 10:21 - Data Source: ELD

Sample#:	WG90566-4	Matrix:	BLANK WTR	List Type:	ORPHPAHSOURCE		
		Project:		Run ID:	R119592	Col. Date:	
		Locator:	SBD	Work Group:	WG90566	Rec. Date:	08-MAR-07
		Site:	NONE	QC Type:	SBD	Due Date:	
		Method Code:	8270B				

Parameter	Value	Units	Valq	Mdl	Rdl	Textvalue
Naphthalene		ug/L	<MDL	.0089	.0178	
Acenaphthylene	.0433	ug/L		.0044	.00889	
Dimethyl Phthalate	.0516	ug/L		.0044	.00889	
Acenaphthene		ug/L	<MDL	.0044	.00889	
Fluorene	.063	ug/L		.0044	.00889	
Diethyl Phthalate	.107	ug/L		.0067	.0133	
Phenanthrene	.0804	ug/L		.0044	.00889	
Anthracene	.0662	ug/L		.0044	.00889	
Di-N-Butyl Phthalate	.144	ug/L		.0044	.00889	
Fluoranthene		ug/L	<MDL	.0044	.00889	
Pyrene	.111	ug/L		.0044	.00889	
Benzyl Butyl Phthalate	.167	ug/L		.0044	.00889	
Benzo(a)anthracene	.0976	ug/L		.0044	.00889	
Chrysene	.0972	ug/L		.0044	.00889	
Bis(2-Ethylhexyl)Phthalate	.148	ug/L		.0044	.00889	
Di-N-Octyl Phthalate		ug/L	<MDL	.0067	.0133	
Benzo(b)fluoranthene	.0958	ug/L		.0067	.0133	
Benzo(k)fluoranthene	.0936	ug/L		.0067	.0133	
Benzo(a)pyrene	.0846	ug/L		.0067	.0133	
Indeno(1,2,3-Cd)Pyrene	.0975	ug/L		.0067	.0133	
Dibenzo(a,h)anthracene	.0957	ug/L		.0067	.0133	
Benzo(g,h,i)perylene	.0981	ug/L		.0067	.0133	
2-Methylnaphthalene		ug/L	<MDL	.0067	.0133	
d14-Terphenyl	.263	ug/L		.0044	.00889	
D6-Dimethyl Phthalate	.0485	ug/L		.0044	.00889	
D8-Acenaphthylene	.0507	ug/L		.0044	.00889	
D10-Fluorene	.0647	ug/L		.0044	.00889	
D10-Anthracene	.0578	ug/L		.0044	.00889	
D10-Pyrene	.0779	ug/L		.0044	.00889	
D12-Benzo(a)pyrene	.0889	ug/L		.0044	.00889	
Amount Analyzed	4500	ml				
Standard Amount	1000	ml				
Dilution Factor	1	none				
Date Analyzed						10-APR-07
Operator ID						Dave Fada
Porthandler File						/usr/users/seed2/METROS3/file e/gcms/WG90566-4.rp
Instrument ID						6890n.i
Prep Date						05-MAR-07

SURROGATE RECOVERY INFORMATION

Parameter	% Rec	Lab Limits
d14-Terphenyl	95	33-141
D6-Dimethyl Phthalate	44	0-150
D8-Acenaphthylene	46	0-150
D10-Fluorene	58	0-150
D10-Anthracene	52	0-150
D10-Pyrene	70	0-150
D12-Benzo(a)pyrene	80	0-150

KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab Review Report - 04/24/07 10:21 - Data Source: ELD

Sample#: WG90566-5	Matrix:	BLANK WTR	List Type:	ORPHPAHSOURCE	
	Project:		Run ID:	R119592	Col. Date:
	Locator:	MB	Work Group:	WG90566	Rec. Date: 08-MAR-07
	Site:	NONE	QC Type:	MB	Due Date:
	Method Code:	8270B			

Parameter	Value	Units	Valq	Mdl	Rdl	Textvalue
Naphthalene		ug/L	<MDL	.0089	.0178	
Acenaphthylene		ug/L	<MDL	.0044	.00889	
Dimethyl Phthalate		ug/L	<MDL	.0044	.00889	
Acenaphthene		ug/L	<MDL	.0044	.00889	
Fluorene		ug/L	<MDL	.0044	.00889	
Diethyl Phthalate	.0069	ug/L	<RDL,B	.0067	.0133	
Phenanthrene		ug/L	<MDL	.0044	.00889	
Anthracene		ug/L	<MDL	.0044	.00889	
Di-N-Butyl Phthalate	.0186	ug/L	B	.0044	.00889	
Fluoranthene		ug/L	<MDL	.0044	.00889	
Pyrene		ug/L	<MDL	.0044	.00889	
Benzyl Butyl Phthalate	.0063	ug/L	<RDL,B	.0044	.00889	
Benzo(a)anthracene		ug/L	<MDL	.0044	.00889	
Chrysene		ug/L	<MDL	.0044	.00889	
Bis(2-Ethylhexyl)Phthalate	.0351	ug/L	B	.0044	.00889	
Di-N-Octyl Phthalate		ug/L	<MDL	.0067	.0133	
Benzo(b)fluoranthene		ug/L	<MDL	.0067	.0133	
Benzo(k)fluoranthene		ug/L	<MDL	.0067	.0133	
Benzo(a)pyrene		ug/L	<MDL	.0067	.0133	
Indeno(1,2,3-Cd)Pyrene		ug/L	<MDL	.0067	.0133	
Dibenzo(a,h)anthracene		ug/L	<MDL	.0067	.0133	
Benzo(g,h,i)perylene		ug/L	<MDL	.0067	.0133	
2-Methylnaphthalene		ug/L	<MDL	.0067	.0133	
d14-Terphenyl	.271	ug/L		.0044	.00889	
D6-Dimethyl Phthalate	.047	ug/L		.0044	.00889	
D8-Acenaphthylene	.052	ug/L		.0044	.00889	
D10-Fluorene	.058	ug/L		.0044	.00889	
D10-Anthracene	.0635	ug/L		.0044	.00889	
D10-Pyrene	.0793	ug/L		.0044	.00889	
D12-Benzo(a)pyrene	.0915	ug/L		.0044	.00889	
Amount Analyzed	4500	ml				
Standard Amount	1000	ml				
Dilution Factor	1	none				
Date Analyzed						10-APR-07
Operator ID						Dave Fada
Porthandler File						/usr/users/seed2/METROS3/files/gcms/WG90566-5.rp
Instrument ID						6890n.i
Prep Date						05-MAR-07

SURROGATE RECOVERY INFORMATION

Parameter	% Rec	Lab Limits
d14-Terphenyl	98	33-141
D6-Dimethyl Phthalate	42	0-150
D8-Acenaphthylene	47	0-150
D10-Fluorene	52	0-150
D10-Anthracene	57	0-150
D10-Pyrene	71	0-150
D12-Benzo(a)pyrene	82	0-150

KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab Review Report - 04/24/07 10:21 - Data Source: ELD

Sample#: WG90566-6	Matrix:	BLANK WTR	List Type:	ORPHPAHSOURCE	
	Project:		Run ID:	R119592	Col. Date:
	Locator:	SB	Work Group:	WG90566	Rec. Date: 08-MAR-07
	Site:	NONE	QC Type:	SB	Due Date:
	Method Code:	8270B			

Parameter	Value	Units	Valq	Mdl	Rdl	Textvalue
Naphthalene		ug/L	<MDL	.0089	.0178	
Acenaphthylene	.0341	ug/L		.0044	.00889	
Dimethyl Phthalate	.0762	ug/L		.0044	.00889	
Acenaphthene		ug/L	<MDL	.0044	.00889	
Fluorene	.0571	ug/L		.0044	.00889	
Diethyl Phthalate	.106	ug/L		.0067	.0133	
Phenanthrene	.0777	ug/L		.0044	.00889	
Anthracene	.064	ug/L		.0044	.00889	
Di-N-Butyl Phthalate	.146	ug/L		.0044	.00889	
Fluoranthene		ug/L	<MDL	.0044	.00889	
Pyrene	.111	ug/L		.0044	.00889	
Benzyl Butyl Phthalate	.167	ug/L		.0044	.00889	
Benzo(a)anthracene	.099	ug/L		.0044	.00889	
Chrysene	.0968	ug/L		.0044	.00889	
Bis(2-Ethylhexyl)Phthalate	.159	ug/L		.0044	.00889	
Di-N-Octyl Phthalate		ug/L	<MDL	.0067	.0133	
Benzo(b)fluoranthene	.101	ug/L		.0067	.0133	
Benzo(k)fluoranthene	.0936	ug/L		.0067	.0133	
Benzo(a)pyrene	.085	ug/L		.0067	.0133	
Indeno(1,2,3-Cd)Pyrene	.1	ug/L		.0067	.0133	
Dibenzo(a,h)anthracene	.104	ug/L		.0067	.0133	
Benzo(g,h,i)perylene	.0995	ug/L		.0067	.0133	
2-Methylnaphthalene		ug/L	<MDL	.0067	.0133	
d14-Terphenyl	.268	ug/L		.0044	.00889	
D6-Dimethyl Phthalate	.0749	ug/L		.0044	.00889	
D8-Acenaphthylene	.0438	ug/L		.0044	.00889	
D10-Fluorene	.0638	ug/L		.0044	.00889	
D10-Anthracene	.0577	ug/L		.0044	.00889	
D10-Pyrene	.0797	ug/L		.0044	.00889	
D12-Benzo(a)pyrene	.0909	ug/L		.0044	.00889	
Amount Analyzed	4500	ml				
Standard Amount	1000	ml				
Dilution Factor	1	none				
Date Analyzed						10-APR-07
Operator ID						Dave Fada
Forthandler File						/usr/users/seed2/METROS3/files/gcms/WG90566-6.rp
Instrument ID						6890n.i
Prep Date						05-MAR-07

SURROGATE RECOVERY INFORMATION

Parameter	% Rec	Lab Limits
d14-Terphenyl	96	33-141
D6-Dimethyl Phthalate	67	0-150
D8-Acenaphthylene	39	0-150
D10-Fluorene	57	0-150
D10-Anthracene	52	0-150
D10-Pyrene	72	0-150
D12-Benzo(a)pyrene	82	0-150

KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab Review Report - 04/24/07 10:21 - Data Source: ELD

Sample#: WG90566-7	Matrix: BLANK WTR	List Type: ORPHPAHSOURCE			
	Project:	Run ID: R119592	Col. Date:		
	Locator: MB	Work Group: WG90566	Rec. Date:	08-MAR-07	
	Site: NONE	QC Type: MB	Due Date:		
	Method Code: 8270B				

Parameter	Value	Units	Valq	Mdl	Rdl	Textvalue
Naphthalene		ug/L	<MDL	.0089	.0178	
Acenaphthylene		ug/L	<MDL	.0044	.00889	
Dimethyl Phthalate		ug/L	<MDL	.0044	.00889	
Acenaphthene		ug/L	<MDL	.0044	.00889	
Fluorene		ug/L	<MDL	.0044	.00889	
Diethyl Phthalate		ug/L	<MDL	.0067	.0133	
Phenanthrene		ug/L	<MDL	.0044	.00889	
Anthracene		ug/L	<MDL	.0044	.00889	
Di-N-Butyl Phthalate	.0206	ug/L	B	.0044	.00889	
Fluoranthene		ug/L	<MDL	.0044	.00889	
Pyrene		ug/L	<MDL	.0044	.00889	
Benzyl Butyl Phthalate	.00971	ug/L	B	.0044	.00889	
Benzo(a)anthracene		ug/L	<MDL	.0044	.00889	
Chrysene		ug/L	<MDL	.0044	.00889	
Bis(2-Ethylhexyl)Phthalate	.0358	ug/L	B	.0044	.00889	
Di-N-Octyl Phthalate		ug/L	<MDL	.0067	.0133	
Benzo(b)fluoranthene		ug/L	<MDL	.0067	.0133	
Benzo(k)fluoranthene		ug/L	<MDL	.0067	.0133	
Benzo(a)pyrene		ug/L	<MDL	.0067	.0133	
Indeno(1,2,3-Cd)Pyrene		ug/L	<MDL	.0067	.0133	
Dibenzo(a,h)anthracene		ug/L	<MDL	.0067	.0133	
Benzo(g,h,i)perylene		ug/L	<MDL	.0067	.0133	
2-Methylnaphthalene		ug/L	<MDL	.0067	.0133	
d14 Terphenyl	.265	ug/L		.0044	.00889	
D6-Dimethyl Phthalate	.0697	ug/L		.0044	.00889	
D8-Acenaphthylene	.0424	ug/L		.0044	.00889	
D10-Fluorene	.054	ug/L		.0044	.00889	
D10-Anthracene	.0568	ug/L		.0044	.00889	
D10-Pyrene	.0774	ug/L		.0044	.00889	
D12-Benzo(a)pyrene	.0885	ug/L		.0044	.00889	
Amount Analyzed	4500	ml				
Standard Amount	1000	ml				
Dilution Factor	1	none				
Date Analyzed						10-APR-07
Operator ID						Dave Fada
Porthandler File						/usr/users/seed2/METROS3/file s/gcms/WG90566-7.rp
Instrument ID						6890n.i
Prep Date						05-MAR-07

SURROGATE RECOVERY INFORMATION

Parameter	% Rec	Lab Limits
d14-Terphenyl	95	33-141
D6-Dimethyl Phthalate	63	0-150
D8-Acenaphthylene	38	0-150
D10-Fluorene	49	0-150
D10-Anthracene	51	0-150
D10-Pyrene	70	0-150
D12-Benzo(a)pyrene	80	0-150

KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab Review Report - 04/26/07 10:14 - Data Source: ELD

Sample#: L41895-1	Matrix: STORM WTR	List Type: ORPHPAHSOURCE			
	Project: 423589-090-1	Run ID: R119592		Col. Date:	27-FEB-07
	Locator: BWR	Work Group: WG90566		Rec. Date:	27-FEB-07
	Site: METRO	QC Type:		Due Date:	29-MAR-07
	Method Code: 8270B				

Parameter	Value	Units	Valq	Mdl	Rdl	Textvalue
Naphthalene	.01[illegible]	ug/L	<RDL	.0087	.0174	
Acenaphthylene	.0117	ug/L		.0044	.00871	
Dimethyl Phthalate	.0128	ug/L		.0044	.00871	
Acenaphthene		ug/L	<MDL	.0044	.00871	
Fluorene	.0071	ug/L	<RDL	.0044	.00871	
Diethyl Phthalate	.013	ug/L	<RDL,B	.0065	.0131	
Phenanthrene	.0187	ug/L		.0044	.00871	
Anthracene		ug/L	<MDL	.0044	.00871	
Di-N-Butyl Phthalate	.0219	ug/L	B	.0044	.00871	
Fluoranthene	.0293	ug/L		.0044	.00871	
Pyrene	.0302	ug/L		.0044	.00871	
Benzyl Butyl Phthalate	.265	ug/L		.0044	.00871	
Benzo(a)anthracene	.0081	ug/L	<RDL	.0044	.00871	
Chrysene	.0187	ug/L		.0044	.00871	
Bis(2-Ethylhexyl)Phthalate	1.35	ug/L	TA	.0044	.00871	value from 10x dilution
Di-N-Octyl Phthalate		ug/L	<MDL	.0065	.0131	
Benzo(b)fluoranthene	.0182	ug/L		.0065	.0131	
Benzo(k)fluoranthene	.013	ug/L	<RDL	.0065	.0131	
Benzo(a)pyrene	.0079	ug/L	<RDL	.0065	.0131	
Indeno(1,2,3-Cd)Pyrene	.012	ug/L	<RDL	.0065	.0131	
Dibenzo(a,h)anthracene		ug/L	<MDL	.0065	.0131	
Benzo(g,h,i)perylene	.0209	ug/L		.0065	.0131	
2-Methylnaphthalene		ug/L	<MDL	.0065	.0131	
d14-Terphenyl	.275	ug/L	E	.0044	.00871	
D6-Dimethyl Phthalate	.159	ug/L	E	.0044	.00871	
D8-Acenaphthylene	.07	ug/L	E	.0044	.00871	
D10-Fluorene	.102	ug/L	E	.0044	.00871	
D10-Anthracene	.056	ug/L	E	.0044	.00871	
D10-Pyrene	.111	ug/L	E	.0044	.00871	
D12-Benzo(a)pyrene	.105	ug/L	E	.0044	.00871	
Amount Analyzed	4590	ml				
Standard Amount	1000	ml				
Dilution Factor	1	none				
Date Analyzed						11-APR-07
Operator ID						Dave Fada
Porthandler File						/usr/users/seed2/METROS3/files/gcms/L41895-1.rp
Instrument ID						5890n.i
Prep Date						05-MAR-07

SURROGATE RECOVERY INFORMATION

Parameter	% Rec	Lab Limits
d14-Terphenyl	101	33-141
D6-Dimethyl Phthalate	73	0-150
D8-Acenaphthylene	32	0-150
D10-Fluorene	47	0-150
D10-Anthracene	26	0-150
D10-Pyrene	51	0-150
D12-Benzo(a)pyrene	48	0-150

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KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab Review Report - 04/24/07 10:20 - Data Source: ELD

Sample#: L41895-2	Matrix:	STORM WTR	List Type:	ORPHPAHSOURCE	
	Project:	423589-090-1	Run ID:	R119592	Col. Date: 27-FEB-07
	Locator:	CER	Work Group:	WG90566	Rec. Date: 27-FEB-07
	Site:	METRO	QC Type:		Due Date: 29-MAR-07
	Method Code:	8270B			

Parameter	Value	Units	Valq	Mdl	Rdl	Textvalue
Naphthalene	.0236	ug/L		.0094	.0188	
Acenaphthylene	.0236	ug/L		.0047	.00939	
Dimethyl Phthalate	.0323	ug/L		.0047	.00939	
Acenaphthene	.0051	ug/L	<RDL	.0047	.00939	
Fluorene	.0159	ug/L		.0047	.00939	
Diethyl Phthalate	.0811	ug/L		.007	.0141	
Phenanthrene	.0697	ug/L		.0047	.00939	
Anthracene	.0064	ug/L	<RDL	.0047	.00939	
Di-N-Butyl Phthalate	.154	ug/L		.0047	.00939	
Fluoranthene	.0599	ug/L		.0047	.00939	
Pyrene	.0682	ug/L		.0047	.00939	
Benzyl Butyl Phthalate	.251	ug/L		.0047	.00939	
Benzo(a)anthracene	.0172	ug/L		.0047	.00939	
Chrysene	.0417	ug/L		.0047	.00939	
Bis(2-Ethylhexyl)Phthalate	1.31	ug/L	TA	.0047	.00939	value from 10x dilution
Di-N-Octyl Phthalate	.0148	ug/L		.007	.0141	
Benzo(b)fluoranthene	.0403	ug/L		.007	.0141	
Benzo(k)fluoranthene	.023	ug/L		.007	.0141	
Benzo(a)pyrene	.0211	ug/L		.007	.0141	
Indeno(1,2,3-Cd)Pyrene	.0241	ug/L		.007	.0141	
Dibenzo(a,h)anthracene	.0085	ug/L	<RDL	.007	.0141	
Benzo(g,h,i)perylene	.0399	ug/L		.007	.0141	
2-Methylnaphthalene	.0152	ug/L		.007	.0141	
d14-Terphenyl	.301	ug/L		.0047	.00939	
D6-Dimethyl Phthalate	.0651	ug/L		.0047	.00939	
D8-Acenaphthylene		ug/L	<MDL	.0047	.00939	
D10-Fluorene	.0237	ug/L		.0047	.00939	
D10-Anthracene		ug/L	<MDL	.0047	.00939	
D10-Pyrene	.0455	ug/L		.0047	.00939	
D12-Benzo(a)pyrene	.0535	ug/L		.0047	.00939	
Amount Analyzed	4260	ml				
Standard Amount	1000	ml				
Dilution Factor	1	none				
Date Analyzed						11-APR-07
Operator ID						Dave Fada
Porthandler File						/usr/users/seed2/METROS3/file 8/gcms/L41895-2.rp
Instrument ID						5890n.i
Prep Date						05-MAR-07

SURROGATE RECOVERY INFORMATION

Parameter	% Rec		Lab Limits
d14-Terphenyl	103		33-141
D6-Dimethyl Phthalate	55		0-150
D8-Acenaphthylene	0	*	0-150
D10-Fluorene	20		0-150
D10-Anthracene	0	*	0-150
D10-Pyrene	39		0-150
D12-Benzo(a)pyrene	46		0-150

KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab Review Report - 04/24/07 10:20 - Data Source: ELD

Sample#: L41895-3	Matrix: STORM WTR	List Type: ORPHPAHSOURCE			
	Project: 423589-090-1	Run ID: R119592		Col. Date:	27-FEB-07
	Locator: DZ	Work Group: WG90566		Rec. Date:	27-FEB-07
	Site: METRO	QC Type:		Due Date:	29-MAR-07
	Method Code: 8270B				

Parameter	Value	Units	Valq	Mdl	Rdl	Textvalue
Naphthalene	.0204	ug/L		.0092	.0183	
Acenaphthylene	.0188	ug/L		.0046	.00915	
Dimethyl Phthalate	.032	ug/L		.0046	.00915	
Acenaphthene	.0054	ug/L	<RDL	.0046	.00915	
Fluorene	.0192	ug/L		.0046	.00915	
Diethyl Phthalate		ug/L	<MDL	.0069	.0137	
Phenanthrene	.0576	ug/L		.0046	.00915	
Anthracene	.0058	ug/L	<RDL	.0046	.00915	
Di-N-Butyl Phthalate	.0323	ug/L	B	.0046	.00915	
Fluoranthene	.0608	ug/L		.0046	.00915	
Pyrene	.0645	ug/L		.0046	.00915	
Benzyl Butyl Phthalate	.131	ug/L		.0046	.00915	
Benzo(a)anthracene	.0184	ug/L		.0046	.00915	
Chrysene	.039	ug/L		.0046	.00915	
Bis(2-Ethylhexyl)Phthalate	.495	ug/L		.0046	.00915	
Di-N-Octyl Phthalate	.0255	ug/L		.0069	.0137	
Benzo(b)fluoranthene	.0391	ug/L		.0069	.0137	
Benzo(k)fluoranthene	.0242	ug/L		.0069	.0137	
Benzo(a)pyrene	.0213	ug/L		.0069	.0137	
Indeno(1,2,3-Cd)Pyrene	.0232	ug/L		.0069	.0137	
Dibenzo(a,h)anthracene	.0087	ug/L	<RDL	.0069	.0137	
Benzo(g,h,i)perylene	.0331	ug/L		.0069	.0137	
2-Methylnaphthalene	.0141	ug/L		.0069	.0137	
d14-Terphenyl	.287	ug/L		.0046	.00915	
D6-Dimethyl Phthalate	.0477	ug/L		.0046	.00915	
D8-Acenaphthylene		ug/L	<MDL	.0046	.00915	
D10-Fluorene		ug/L	<MDL	.0046	.00915	
D10-Anthracene		ug/L	<MDL	.0046	.00915	
D10-Pyrene	.0275	ug/L		.0046	.00915	
D12-Benzo(a)pyrene	.0326	ug/L		.0046	.00915	
Amount Analyzed	4370	ml				
Standard Amount	1000	ml				
Dilution Factor	1	none				
Date Analyzed						11-APR-07
Operator ID						Dave Fada
Porthandler File						/usr/users/seed2/METROS3/files/gcms/L41895-3.rp
Instrument ID						6890n.i
Prep Date						05-MAR-07

SURROGATE RECOVERY INFORMATION

Parameter	% Rec		Lab Limits
d14-Terphenyl	100		33-141
D6-Dimethyl Phthalate	42		0-150
D8-Acenaphthylene	0	*	0-150
D10-Fluorene	0	*	0-150
D10-Anthracene	0	*	0-150
D10-Pyrene	24		0-150
D12-Benzo(a)pyrene	28		0-150

KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab Review Report - 04/24/07 10:21 - Data Source: ELD

Sample#: L41895-4	Matrix: STORM WTR	List Type: ORPHPAHSOURCE			
	Project: 423589-090-1	Run ID: R119592		Col. Date:	27-FEB-07
	Locator: KC1A	Work Group: WG90566		Rec. Date:	27-FEB-07
	Site: METRO	QC Type:		Due Date:	29-MAR-07
	Method Code: 8270B				

Parameter	Value	Units	Valq	Mdl	Rdl	Textvalue
Naphthalene	.0261	ug/L	H	.0077	.0154	samples extracted 2 days past holding time
Acenaphthylene	.023	ug/L	H	.0038	.00768	samples extracted 2 days past holding time
Dimethyl Phthalate	.0214	ug/L	H	.0038	.00768	samples extracted 2 days past holding time
Acenaphthene	.0153	ug/L	H	.0038	.00768	samples extracted 2 days past holding time
Fluorene	.0308	ug/L	H	.0038	.00768	samples extracted 2 days past holding time
Diethyl Phthalate	.105	ug/L	H	.0058	.0115	samples extracted 2 days past holding time
Phenanthrene	.538	ug/L	H,TA	.0038	.00768	samples extracted 2 days past holding time; value from 10x dilution
Anthracene	.0408	ug/L	H	.0038	.00768	samples extracted 2 days past holding time
Di-N-Butyl Phthalate	.097	ug/L	H	.0038	.00768	samples extracted 2 days past holding time
Fluoranthene	1.47	ug/L	H,TA	.0038	.00768	samples extracted 2 days past holding time; value from 10x dilution
Pyrene	1.2	ug/L	H,TA	.0038	.00768	samples extracted 2 days past holding time; value from 10x dilution
Benzyl Butyl Phthalate	.272	ug/L	H	.0038	.00768	samples extracted 2 days past holding time
Benzo(a)anthracene	.379	ug/L	H	.0038	.00768	samples extracted 2 days past holding time
Chrysene	.837	ug/L	H,TA	.0038	.00768	samples extracted 2 days past holding time; value from 10x dilution
Bis(2-Ethylhexyl)Phthalate	.691	ug/L	H,TA	.0038	.00768	samples extracted 2 days past holding time; value from 10x dilution
Di-N-Octyl Phthalate		ug/L	<MDL,H	.0058	.0115	samples extracted 2 days past holding time
Benzo(b)fluoranthene	1.01	ug/L	H,TA	.0058	.0115	samples extracted 2 days past holding time; value from 10x dilution
Benzo(k)fluoranthene	.557	ug/L	H,TA	.0058	.0115	samples extracted 2 days past holding time; value from 10x dilution
Benzo(a)pyrene	.548	ug/L	H,TA	.0058	.0115	samples extracted 2 days past holding time; value from 10x dilution
Indeno(1,2,3-Cd)Pyrene	.489	ug/L	H,TA	.0058	.0115	samples extracted 2 days past holding time; value from 10x dilution
Dibenzo(a,h)anthracene	.167	ug/L	H	.0058	.0115	samples extracted 2 days past holding time
Benzo(g,h,i)perylene	.528	ug/L	H,TA	.0058	.0115	samples extracted 2 days past holding time; value from 10x dilution
2-Methylnaphthalene	.0152	ug/L	H	.0058	.0115	samples extracted 2 days past holding time
d14-Terphenyl	.23	ug/L	H	.0038	.00768	samples extracted 2 days past holding time
D6-Dimethyl Phthalate	.0741	ug/L	H	.0038	.00768	samples extracted 2 days past holding time
D8-Acenaphthylene		ug/L	<MDL,H	.0038	.00768	samples extracted 2 days past holding time
D10-Fluorene	.00848	ug/L	H	.0038	.00768	samples extracted 2 days past holding time
D10-Anthracene		ug/L	<MDL,H	.0038	.00768	samples extracted 2 days past holding time

KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab Review Report - 04/24/07 10:21 - Data Source: ELD

Sample#: L41895-4	Matrix:	STORM WTR	List Type:	ORPHPAHSOURCE	
	Project:	423589-090-1	Run ID:	R119592	Col. Date: 27-FEB-07
	Locator:	KCIA	Work Group:	WG90566	Rec. Date: 27-FEB-07
	Site:	METRO	QC Type:		Due Date: 29-MAR-07
	Method Code:	8270B			

Parameter	Value	Units	Valq	Mdl	Rdl	Textvalue
D10-Pyrene	.03	ug/L	H	.0038	.00768	samples extracted 2 days past holding time
D12-Benzo(a)pyrene	.0422	ug/L	H	.0038	.00768	samples extracted 2 days past holding time
Amount Analyzed	5210	ml				
Standard Amount	1000	ml				
Dilution Factor	1	none				
Date Analyzed						11-APR-07
Operator ID						Dave Fada
Porthandler File						/usr/users/seed2/METRO53/files/gcms/L41895-4.rp
Instrument ID						6890n.i
Prep Date						05-MAR-07

SURROGATE RECOVERY INFORMATION

Parameter	% Rec		Lab Limits
d14-Terphenyl	96		33-141
D6-Dimethyl Phthalate	77		0-150
D8-Acenaphthylene	0	*	0-150
D10-Fluorene	9	*	0-150
D10-Anthracene	0	*	0-150
D10-Pyrene	31		0-150
D12-Benzo(a)pyrene	44		0-150

KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab Review Report - 04/24/07 10:21 - Data Source: ELD

Sample#:	L41895-5	Matrix:	STORM WTR	List Type:	ORPHPAHSOURCE		
		Project:	423589-090-1	Run ID:	R119592	Col. Date:	27-FEB-07
		Locator:	SPCC	Work Group:	WG90566	Rec. Date:	27-FEB-07
		Site:	METRO	QC Type:		Due Date:	29-MAR-07
		Method Code:	8270B				

Parameter	Value	Units	Valq	Mdl	Rdl	Textvalue
Naphthalene	.0172	ug/L	H	.0082	.0164	samples extracted 2 days past holding time
Acenaphthylene	.0149	ug/L	H	.0041	.00821	samples extracted 2 days past holding time
Dimethyl Phthalate	.0231	ug/L	H	.0041	.00821	samples extracted 2 days past holding time
Acenaphthene		ug/L	<MDL,H	.0041	.00821	samples extracted 2 days past holding time
Fluorene	.0133	ug/L	H	.0041	.00821	samples extracted 2 days past holding time
Diethyl Phthalate	.0158	ug/L	H	.0062	.0123	samples extracted 2 days past holding time
Phenanthrene	.0382	ug/L	H	.0041	.00821	samples extracted 2 days past holding time
Anthracene		ug/L	<MDL,H	.0041	.00821	samples extracted 2 days past holding time
Di-N-Butyl Phthalate	.0212	ug/L	B,H	.0041	.00821	samples extracted 2 days past holding time
Fluoranthene	.0324	ug/L	H	.0041	.00821	samples extracted 2 days past holding time
Pyrene	.038	ug/L	H	.0041	.00821	samples extracted 2 days past holding time
Benzyl Butyl Phthalate	.47	ug/L	H	.0041	.00821	samples extracted 2 days past holding time
Benzo(a)anthracene	.00911	ug/L	H	.0041	.00821	samples extracted 2 days past holding time
Chrysene	.0215	ug/L	H	.0041	.00821	samples extracted 2 days past holding time
Bis(2-Ethylhexyl)Phthalate	.377	ug/L	H	.0041	.00821	samples extracted 2 days past holding time
Di-N-Octyl Phthalate		ug/L	<MDL,H	.0062	.0123	samples extracted 2 days past holding time
Benzo(b)fluoranthene	.0189	ug/L	H	.0062	.0123	samples extracted 2 days past holding time
Benzo(k)fluoranthene	.0134	ug/L	H	.0062	.0123	samples extracted 2 days past holding time
Benzo(a)pyrene	.011	ug/L	<RDL,H	.0062	.0123	samples extracted 2 days past holding time
Indeno(1,2,3-Cd)Pyrene	.012	ug/L	<RDL,H	.0062	.0123	samples extracted 2 days past holding time
Dibenzo(a,h)anthracene		ug/L	<MDL,H	.0062	.0123	samples extracted 2 days past holding time
Benzo(g,h,i)perylene	.0194	ug/L	H	.0062	.0123	samples extracted 2 days past holding time
2-Methylnaphthalene	.01	ug/L	<RDL,H	.0062	.0123	samples extracted 2 days past holding time
d14-Terphenyl	.26	ug/L	H	.0041	.00821	samples extracted 2 days past holding time
D6-Dimethyl Phthalate	.0692	ug/L	H	.0041	.00821	samples extracted 2 days past holding time
D8-Acenaphthylene	.0046	ug/L	<RDL,H	.0041	.00821	samples extracted 2 days past holding time
D10-Fluorene	.0263	ug/L	H	.0041	.00821	samples extracted 2 days past holding time
D10-Anthracene		ug/L	<MDL,H	.0041	.00821	samples extracted 2 days past holding time
D10-Pyrene	.0398	ug/L	H	.0041	.00821	samples extracted 2 days past holding time
D12-Benzo(a)pyrene	.0432	ug/L	H	.0041	.00821	samples extracted 2 days past holding time
Amount Analyzed	4870	ml				
Standard Amount	1000	ml				
Dilution Factor	1	none				
Date Analyzed						11-APR-07
Operator ID						Dave Fada

KCSlip4 58054

SEA424353

KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab Review Report - 04/24/07 10:21 - Data Source: ELD

Sample#: L41895-5	Matrix:	STORM WTR	List Type:	ORPHPAHSOURCE	
	Project:	423589-090-1	Run ID:	R119592	Col. Date: 27-FEB-07
	Locator:	SPCC	Work Group:	WG90566	Rec. Date: 27-FEB-07
	Site:	METRO	QC Type:		Due Date: 29-MAR-07
	Method Code:	8270B			

Parameter	Value	Units	Valq	Mdl	Rdl	Textvalue
Porthandler File						/usr/users/seed2/METROS3/files/gcms/L41895-5 rp
Instrument ID						6890n 1
Prep Date						05-MAR-07

SURROGATE RECOVERY INFORMATION

Parameter	% Rec		Lab Limits
d14-Terphenyl	101		33-141
D6-Dimethyl Phthalate	67		0-150
D8-Acenaphthylene	4	*	0-150
D10-Fluorene	26		0-150
D10-Anthracene	0	*	0-150
D10-Pyrene	39		0-150
D12-Benzo(a)pyrene	42		0-150

KCSlip4 58055

SEA424354

KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab Review Report - 04/24/07 10:20 - Data Source: ELD

Sample#: L41896-1	Matrix:	BLANK WTR	List Type:	ORPHPAHSOURCE	
	Project:	423589-090-1	Run ID:	R119592	Col. Date: 26-FEB-07
	Locator:	BWR	Work Group:	WG90566	Rec. Date: 26-FEB-07
	Site:	METRO	QC Type:		Due Date: 28-MAR-07
	Method Code:	8270B			

Parameter	Value	Units	Valq	Mdl	Rdl	Textvalue
Naphthalene		ug/L	<MDL	.02	.04	
Acenaphthylene		ug/L	<MDL	.01	.02	
Dimethyl Phthalate		ug/L	<MDL	.01	.02	
Acenaphthene		ug/L	<MDL	.01	.02	
Fluorene		ug/L	<MDL	.01	.02	
Diethyl Phthalate	.018	ug/L	<RDL	.015	.03	
Phenanthrene		ug/L	<MDL	.01	.02	
Anthracene		ug/L	<MDL	.01	.02	
Di-N-Butyl Phthalate	.0408	ug/L	B	.01	.02	
Fluoranthene		ug/L	<MDL	.01	.02	
Pyrene		ug/L	<MDL	.01	.02	
Benzyl Butyl Phthalate	.018	ug/L	<RDL,B	.01	.02	
Benzo(a)anthracene		ug/L	<MDL	.01	.02	
Chrysene		ug/L	<MDL	.01	.02	
Bis(2-Ethylhexyl)Phthalate	.0407	ug/L	B	.01	.02	
Di-N-Octyl Phthalate		ug/L	<MDL	.015	.03	
Benzo(b)fluoranthene		ug/L	<MDL	.015	.03	
Benzo(k)fluoranthene		ug/L	<MDL	.015	.03	
Benzo(a)pyrene		ug/L	<MDL	.015	.03	
Indeno(1,2,3-Cd)Pyrene		ug/L	<MDL	.015	.03	
Dibenzo(a,h)anthracene		ug/L	<MDL	.015	.03	
Benzo(g,h,i)perylene		ug/L	<MDL	.015	.03	
2-Methylnaphthalene		ug/L	<MDL	.015	.03	
d14-Terphenyl	.519	ug/L		.01	.02	
D6-Dimethyl Phthalate	.17	ug/L		.01	.02	
D8-Acenaphthylene	.107	ug/L		.01	.02	
D10-Fluorene	.146	ug/L		.01	.02	
D10-Anthracene	.131	ug/L		.01	.02	
D10-Pyrene	.164	ug/L		.01	.02	
D12-Benzo(a)pyrene	.179	ug/L		.01	.02	
Amount Analyzed	2000	ml				
Standard Amount	1000	ml				
Dilution Factor	1	none				
Date Analyzed						10-APR-07
Operator ID						Dave Pada
Porthandler File						/usr/users/seed2/METROS3/files/gcms/L41896-1.rp
Instrument ID						6890n.i
Prep Date						05-MAR-07

SURROGATE RECOVERY INFORMATION

Parameter	% Rec	Lab Limits
d14-Terphenyl	83	33-141
D6-Dimethyl Phthalate	68	0-150
D8-Acenaphthylene	43	0-150
D10-Fluorene	58	0-150
D10-Anthracene	52	0-150
D10-Pyrene	66	0-150
D12-Benzo(a)pyrene	71	0-150

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SEA424355

King County Environmental Laboratory

WORK GROUP REPORT (wk02)

Apr 09 2007, 07:41 pm

Work Group: WG90567 (BL#692 PCBLL) for Department: 7 - Organics, Trace

Created: 08-MAR-07 PrepDate: 05-MAR-07 Due: Operator: JG

Sample	Project Number	Project Description	PKey	C	Product	Matrix	Stat	UM	Workdate	Duedate
L41895-1	423589-090-1	Lower Duwamish Phthalate Studies		S	PCBLL	STORM WTR	PREP	U	06-MAR-07	29-MAR-07
L41895-2	423589-090-1	Lower Duwamish Phthalate Studies		S	PCBLL	STORM WTR	PREP	U	06-MAR-07	29-MAR-07
L41895-3	423589-090-1	Lower Duwamish Phthalate Studies		S	PCBLL	STORM WTR	PREP	U	06-MAR-07	29-MAR-07
L41895-4	423589-090-1	Lower Duwamish Phthalate Studies		S	PCBLL	STORM WTR	PREP	U	06-MAR-07	29-MAR-07
L41895-5	423589-090-1	Lower Duwamish Phthalate Studies		S	PCBLL	STORM WTR	PREP	U	06-MAR-07	29-MAR-07
L41896-1	423589-090-1	Lower Duwamish Phthalate Studies		S	PCBLL	BLANK WTR	PREP	U	05-MAR-07	28-MAR-07
WG90567-1	SB			S	PCBLL	BLANK WTR	PREP	U	08-MAR-07	
WG90567-2	MB			S	PCBLL	BLANK WTR	PREP	U	08-MAR-07	
WG90567-3	MB			S	PCBLL	BLANK WTR	PREP	U	08-MAR-07	
WG90567-4	SBD			S	PCBLL	BLANK WTR	PREP	U	08-MAR-07	
WG90567-5	MB			S	PCBLL	BLANK WTR	PREP	U	08-MAR-07	
WG90567-6	SB			S	PCBLL	BLANK WTR	PREP	U	08-MAR-07	
WG90567-7	MB			S	PCBLL	BLANK WTR	PREP	U	08-MAR-07	

Comments:

L41895-1	carboys
L41895-2	carboys
L41895-3	carboys
L41895-4	carboys
L41895-5	carboys
L41896-1	blank water
WG90567-1	WG90567-2
WG90567-2	MB070305 4L
WG90567-3	MB070305 2L
WG90567-4	WG90567-1 WG90567-5
WG90567-5	MB070306 4L
WG90567-6	WG90567-7
WG90567-7	MB070308 4L

KCSlip4 58057

SEA424356

Trace Organics Data Anomaly Form

Date(s) Occurred: *04-11-07*

WG #(s): *WG90567*

☒ **All samples in WKGP(s)** **or** ☐ **Sample #(s):**

Project #(s): *423589*

Matrix: ☒ **Liquid** ☐ **Solid** ☐ **Air** ☐ **Tissue** ☐ **Calibration** ☐ **Other:**

I. Analysis/Extraction

☐ BNA ☐ BNALL ☐ EDC ☐ EDC-LVI
☐ CLPESTPCB ☐ PEST ☒ PCB ☐ OPPEST
☐ VOA-GCMS ☐ NWTPH-GX ☐ NWTPH-DX ☐ NWTPH-HCID
☐ BUTYL TIN ☐ AIRTOX ☐ AIR-SULFUR
☐ Other:
☐ Subcontracted:

II. Instrument

GC/ICP/MS: ☐ P
GC/MS: ☐ D ☐ E ☐ J ☐ K ☐ L ☐ M ☐ N
GC: ☐ F ECD ☒ G ECD ☐ H FID ☐ H OI4450PID/FID
☐ I FID
Extraction/Cleanup: ☐ PFE ☐ GPC
☐ Other:

III. Type of Sample/Analytical Anomaly

☐ Values Outside of Control Limits:

1 ☐ Blank Contamination
2 ☐ SB/SBD Spike Recoveries
3 ☐ MS/MSD Spike Recoveries
4 ☐ LCS/SRM Recoveries
5 ☐ Initial Calibration
6 ☐ Performance Checks
7 ☐ ISTD % Differences
8 ☐ Surrogate Spike Recoveries
9 ☐ SB/SBD RPD
10 ☐ MS/MSD RPD
11 ☐ Sample/LD RPD
12 ☐ Continuing Calibration Checks
13 ☐ Tuning Criteria

14 ☐ Holding time exceeded by:
15 ☐ Insufficient sample amount.
16 ☐ Inappropriate storage, container or preservation.
17 ☒ Other

Anomaly Description: *17. Not all congeners for aroclor 1016 were confirmed in the SBs (WG90567-1 or 6).*

IV. Type of Project Anomaly

Trace Organics Data Anomaly Form

Date(s) Occurred: *03/05/2007, 03/06/2007, 03/08/2007*

WG #(s): *WG90567*

☐ **All samples in WKGP(s)** **or** ☒ **Sample #(s):** *WG90567-(6,7), L41895-(1,3,4,5)*

Project #(s): *423589-090-001*

Matrix: ☒ **Liquid** ☐ **Solid** ☐ **Air** ☐ **Tissue** ☐ **Calibration** ☐ **Other:**

I. Analysis/Extraction

☐ BNA	☐ BNALL	☐ EDC	☐ EDC-LVI
☐ CLPESTPCB	☐ PEST	☐ PCB	☐ OPPEST
☐ VOA-GCMS	☐ NWTPH-GX	☐ NWTPH-DX	☐ NWTPH-HCID
☐ BUTYL TIN	☐ AIRTOX	☐ AIR-SULFUR	
☒ Other: *PCBLL*			
☐ Subcontracted:			

II. Instrument

GC/ICP/MS:	☐ P
GC/MS:	☐ D ☐ E ☐ J ☐ K ☐ L ☐ M ☐ N
GC:	☒ F ECD ☐ G ECD ☐ H FID ☐ H OI4450PID/FID ☐ I FID
Extraction/Cleanup:	☐ PFE ☐ GPC ☐ Other:

III. Type of Sample/Analytical Anomaly

☐ Values Outside of Control Limits:

1 ☐ Blank Contamination	8 ☐ Surrogate Spike Recoveries
2 ☐ SB/SBD Spike Recoveries	9 ☐ SB/SBD RPD
3 ☐ MS/MSD Spike Recoveries	10 ☐ MS/MSD RPD
4 ☐ LCS/SRM Recoveries	11 ☐ Sample/LD RPD
5 ☐ Initial Calibration	12 ☐ Continuing Calibration Checks
6 ☐ Performance Checks	13 ☐ Tuning Criteria
7 ☐ ISTD % Differences	

14 ☒ Holding time exceeded by: *2 days*
15 ☐ Insufficient sample amount.
16 ☐ Inappropriate storage, container or preservation.
17 ☐ Other

Anomaly Description:
(1) Samples L41895-(4,5) were processed via solid phase extraction on the ninth (9th) day following collection, beyond the seven (7) day sample holding time designated for analysis of water samples for PCBLL.

	Signatures	Signature Dates
Reported By: *Jack Gudeman*	Jack C. Gudeman	04/16/07
Reviewer: *Gretchen Nerlin*	[illegible]	4/20/07
Supervisor: *Dana Walker*	Dana Walker	4/20/07
QA Officer: *Colin Elliott* (For QA1 only)		
cc: LPM:		

Round 20 - Samples
Round 21 - Rinse Blank

LIQUID SAMPLE EXTRACTION RECORD FOR BNA ANALYSIS
TRACE ORGANICS LABORATORY

Acetone Lot# 064335
MeCL2 Lot # CS197
QC BATCH NO.: BL #692 PHPAHSOURCE/PCBLL via SPE
EPA SW-846 EXTRACTION METHOD:
CONT. L-L EPA 3520 SEP. FUNNEL EPA 3510

WORKGROUP NO.: (PHPAHSOURCE = WG905566 PCBLL = WG905567
BNA SURROGATE SPIKE: 1388+1343(DUCs)
BNA MATRIX SPIKE: 1390
PCB Field Surr = 1381
PCB Hose Surr = 1389
PCB MB LL = 1375

Date/ Analyst	Sample Number	Project Number	Sample Description	coc	pH	Initial Amt. (ml)	Spike Amount (ul)	Vf (ml)	Conc. Anlyst	Turn Over Date	Comments	
JG 03/05/07	WG905566-1 WG905567-1	QC	SB		6	4500	1343-25µl 1388-100µl 1381-100µl 1389-100µl 1390-50µl 1375-100µl	1.0	JG JG	04/05/07 04/09/07	22.5 ml MeOH, initially double-spiked for std. 1343.	19.
	WG905566-2 WG905567-2	QC	MB		6	4500	1343-25µl 1388-100µl 1381-100µl 1389-100µl	1.0	JG JG	04/05/07 04/09/07	22.5 ml MeOH	22
	WG905566-3 WG905567-3	QC	MB 2L		6	2000		1.0	JG JG	04/05/07 04/09/07	10 ml MeOH No beaker.	9.
	L41896-1	423589-090-001	BLOR-BK-Lower Duwamish Sources		6	2000		1.0	JG JG	04/05/07 04/09/07	10 ml MeOH No beaker.	10
	L41895-3	423589-090-001	DZ-01-020607		5	4370		1.0	JG JG	04/05/07 04/09/07	22.5 MeOH, split between two (2) speedisks.	33. 36.
JG 03/06/07	L41895-2	423589-090-001	CER-01-020607-		6	4260	1343-25µl 1388-100µl 1381-100µl 1389-100µl	1.0	JG JG	04/05/07 04/09/07	22 ml MeOH single speedisk. ~~two (2) spe~~ JG 03/06/07	32.
	L41895-1	423589-090-001	BLOR-01-020607-		5	4590	+ (1343-25µl)	1.0	JG JG	04/05/07 04/09/07	22.5 ml MeOH, split between two (2) speedisks. Double spike	76.
	WG905566-4 WG905567-4	QC	SB		6	4500	1343-25µl 1388-100µl 1381-100µl 1389-100µl 1390-50µl 1375-100µl	1.0	JG JG	04/05/07 04/09/07	or std 1343 (pre and post) single speedisk.	26 +17
	WG905566-5 WG905567-5	QC	MB		6	4500	1343-25µl 1388-100µl 1381-100µl 1389-100µl	1.0	JG JG	04/05/07 04/09/07	22.5 ml MeOH single speedisk.	21
JG 03/08/07	L41895-4	423589-090-001	KCIA-01-020607-		5	5210	1343-25µl 1344-100µl 1388-100µl 1389-100µl	1.0	JG JG	04/05/07 04/09/07	25 ml MeOH Two (2) speedisks simultaneously.	31. 31.
	L41895-5	423589-090-001	SPCC-01-020607-		5	4870					22.5 ml MeOH Two (2) speedisks simultaneously.	26 26
	WG905566-6 WG905567-6	QC	SB		6	4500	1343-25µl 1388-100µl 1381-100µl 1389-100µl 1390-50µl 1375-100µl	1.0	JG JG	04/05/07 04/09/07	22.5 ml MeOH split between two (2) speedisks simultaneously. For SB may be loss due to load test between speedisk and cylinder (some solvent outside VOA vial collection vial)	12. 12.
		~~QC~~ JG 03/08/07										
	WG905566-7 WG905567-7	QC	MB		6	4500	1343-25µl 1388-100µl 1381-100µl 1389-100µl	1.0	JG JG	04/05/07 04/09/07	22.5 ml MeOH 2 speedisks simultaneously.	

For all samples of WG905567, PCBLL split cleaned via Alumina + H_2SO_4.

KCSlip4 58061
SEA424360

KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab QC Report - 04/12/07 12:39
Run ID: R119550 Workgroup: WG90567 (BL#692 PCBLL)

SBD:WG90567-4 SB:WG90567-1 MB:WG90567-2 Matrix: BLANK WTR Listtype: ORPCBLL Method: EPA 8081A/8082 (7-3-03-002) Project: Pkey: STD
(Spiked Blank Duplicate, Spike Blank, Method Blank)

Parameter	Mdl	Rdl	Units	MB Value	Truevalue	SB Value	% Rec.	Qual	LabLimit	Truevalue	SBD Value	% Rec.	Qual	LabLimit	RPD	Qual	LabLimi
Aroclor 1016	.011	.0222	ug/L	<MDL	0.0667	.0615	92		65-129	0.0667	.0678	102		65-129	10		
Aroclor 1260	.011	.0222	ug/L	<MDL	0.0667	.0745	112		72-128	0.0667	.0835	125		72-128	11		

MB:WG90567-2 Matrix: BLANK WTR Listtype: ORPCBLL Method: EPA 8081A/8082 (7-3-03-002) Project: Pkey: STD
(Method Blank)

Parameter	Mdl	Rdl	Units	MB Value	Qual
Aroclor 1016	.011	.0222	ug/L	<MDL	
Aroclor 1221	.011	.0222	ug/L	<MDL	
Aroclor 1232	.011	.0222	ug/L	<MDL	
Aroclor 1242	.011	.0222	ug/L	<MDL	
Aroclor 1248	.011	.0222	ug/L	<MDL	
Aroclor 1254	.011	.0222	ug/L	<MDL	
Aroclor 1260	.011	.0222	ug/L	<MDL	

MB:WG90567-3 Matrix: BLANK WTR Listtype: ORPCBLL Method: EPA 8081A/8082 (7-3-03-002) Project: Pkey: STD
(Method Blank)

Parameter	Mdl	Rdl	Units	MB Value	Qual
Aroclor 1016	.011	.0222	ug/L	<MDL	
Aroclor 1221	.011	.0222	ug/L	<MDL	
Aroclor 1232	.011	.0222	ug/L	<MDL	
Aroclor 1242	.011	.0222	ug/L	<MDL	
Aroclor 1248	.011	.0222	ug/L	<MDL	
Aroclor 1254	.011	.0222	ug/L	<MDL	
Aroclor 1260	.011	.0222	ug/L	<MDL	

MB:WG90567-5 Matrix: BLANK WTR Listtype: ORPCBLL Method: EPA 8081A/8082 (7-3-03-002) Project: Pkey: STD
(Method Blank)

Parameter	Mdl	Rdl	Units	MB Value	Qual
Aroclor 1016	.011	.0222	ug/L	<MDL	
Aroclor 1221	.011	.0222	ug/L	<MDL	
Aroclor 1232	.011	.0222	ug/L	<MDL	
Aroclor 1242	.011	.0222	ug/L	<MDL	
Aroclor 1248	.011	.0222	ug/L	<MDL	
Aroclor 1254	.011	.0222	ug/L	<MDL	
Aroclor 1260	.011	.0222	ug/L	<MDL	

SB:WG90567-6 MB:WG90567-7 Matrix: BLANK WTR Listtype: ORPCBLL Method: EPA 8081A/8082 (7-3-03-002) Project: Pkey: STD
(Spike Blank, Method Blank)

Parameter	Mdl	Rdl	Units	MB Value	Truevalue	SB Value	% Rec.	Qual	LabLimit
Aroclor 1016	.011	.0222	ug/L	<MDL	0.0667	.0662	99		65-129
Aroclor 1260	.011	.0222	ug/L	<MDL	0.0667	.0848	127		72-128

KCSlip4 58062
SEA424361

KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab QC Report - 04/12/07 12:39
Run ID: R119550 Workgroup: WG90567 (BL#692 PCBLL)

MB:WG90567-7 Matrix: BLANK WTR Listtype: ORPCBLL Method: EPA 8081A/8082 (7-3-03-002) Project: Pkey: STD
(Method Blank)

Parameter	Mdl	Rdl	Units	MB Value	Qual
Aroclor 1016	.011	.0222	ug/L	<MDL	
Aroclor 1221	.011	.0222	ug/L	<MDL	
Aroclor 1232	.011	.0222	ug/L	<MDL	
Aroclor 1242	.011	.0222	ug/L	<MDL	
Aroclor 1248	.011	.0222	ug/L	<MDL	
Aroclor 1254	.011	.0222	ug/L	<MDL	
Aroclor 1260	.011	.0222	ug/L	<MDL	

KCSlip4 58063
SEA424362

KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab QC Report - 04/12/07 12:39
Run ID: R119550 Workgroup: WG90567 (BL#692 PCBLL)

Sample # (Lab Limits)	Decachlorobiphenyl 12-158	2,4,5,6-Tetrachloro-m-xylene 10-118
L41895-1	83	48
L41895-2	86	44
L41895-3	87	40
L41895-4	82	47
L41895-5	86	53
L41896-1	42	30
WG90567-1	70	20
WG90567-2	66	27
WG90567-3	57	34
WG90567-4	67	29
WG90567-5	74	41
WG90567-6	75	25
WG90567-7	68	31

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If the following parameters are reported, values in the RPD column are their Absolute Differences:

pH
pH, Field
Salinity
Salinity, Field
Sample Depth
Sample Temperature, Field

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SEA424363

Data File Name	Sample Name	Date Acquired	Vial Numb	Sample Amount	Sample Multiplie	Isodrin (RT)	Isodrin (Height)	Leptophos (RT)	Leptophos (Height)	Isodrin #2 (RT)	Isodrin #2 (Height)	Leptophos (RT)	Leptophos #2 (Height)	Misc Info	Data File Path
COND-01.D	conditioner	4/11/2007 9:17	1	0	1										S:\MSDCHEM\2\DATA\070411\
BLANK-01.D	blank	4/11/2007 9:54	2	0	1										S:\MSDCHEM\2\DATA\070411\
PCB-01.D	1358D 1016/1260 500/50	4/11/2007 10:30	3	0	1	15.227	118128689	23.554	196473516	12.904	349007945	19.285	544534914		S:\MSDCHEM\2\DATA\070411\
PCB-02.D	1378.1 1248 500/50	4/11/2007 11:07	4	0	1	15.226	115627666	23.552	190390816	12.905	333588386	19.286	524432865		S:\MSDCHEM\2\DATA\070411\
PCB-03.D	1210.2 1254 500/50	4/11/2007 11:44	5	0	1	15.227	108819211	23.553	175109603	12.905	311145106	19.284	478132354		S:\MSDCHEM\2\DATA\070411\
PCB-04.D	1206.2 1221 500/50	4/11/2007 12:20	6	0	1	15.227	102397710	23.554	170463156	12.904	297732786	19.285	459097965		S:\MSDCHEM\2\DATA\070411\
PCB-05.D	1207.2 1232 500/50	4/11/2007 12:57	7	0	1	15.226	123023874	23.555	200150414	12.904	344479296	19.285	539847552		S:\MSDCHEM\2\DATA\070411\
PCB-06.D	1208.2 1242 500/50	4/11/2007 13:34	8	0	1	15.227	119128263	23.555	194445270	12.904	352365940	19.284	546285228		S:\MSDCHEM\2\DATA\070411\
WG90567-1.D	WG90567-1	4/11/2007 14:10	9	4500	1	15.227	95122630	23.555	157750591	12.906	275548472	19.286	424813218	BL692 PCBLL LOWER DUWAMISH PHTHALATES	S:\MSDCHEM\2\DATA\070411\
WG90567-2.D	WG90567-2	4/11/2007 14:47	10	4500	1	15.226	94030245	23.555	155378842	12.906	279537612	19.286	443031215	BL692 PCBLL LOWER DUWAMISH PHTHALATES	S:\MSDCHEM\2\DATA\070411\
WG90567-3.D	WG90567-3	4/11/2007 15:24	11	2000	1	15.229	92682392	23.556	155535384	12.906	278193701	19.287	427241778	BL692 PCBLL LOWER DUWAMISH PHTHALATES	S:\MSDCHEM\2\DATA\070411\
WG90567-4.D	WG90567-4	4/11/2007 16:00	12	4500	1	15.228	91693757	23.558	160521877	12.907	278401541	19.290	433502278	BL692 PCBLL LOWER DUWAMISH PHTHALATES	S:\MSDCHEM\2\DATA\070411\
WG90567-5.D	WG90567-5	4/11/2007 16:37	13	4500	1	15.230	93611599	23.558	158556730	12.906	287487117	19.290	453078575	BL692 PCBLL LOWER DUWAMISH PHTHALATES	S:\MSDCHEM\2\DATA\070411\
WG90567-6.D	WG90567-6	4/11/2007 17:14	14	4500	1	15.231	91892302	23.560	161590696	12.907	287700936	19.289	443306519	BL692 PCBLL LOWER DUWAMISH PHTHALATES	S:\MSDCHEM\2\DATA\070411\
WG90567-7.D	WG90567-7	4/11/2007 17:50	15	4500	1	15.230	89115471	23.558	157946411	12.907	272482582	19.287	427518065	BL692 PCBLL LOWER DUWAMISH PHTHALATES	S:\MSDCHEM\2\DATA\070411\
L41895-1.D	L41895-1	4/11/2007 18:27	16	4590	1	15.226	87258805	23.559	163346074	12.908	289809211	19.292	438318120	BL692 PCBLL LOWER DUWAMISH PHTHALATES	S:\MSDCHEM\2\DATA\070411\
L41895-2.D	L41895-2	4/11/2007 19:04	17	4260	1	15.229	84334901	23.563	164997382	12.907	251803430	19.293	434323393	BL692 PCBLL LOWER DUWAMISH PHTHALATES	S:\MSDCHEM\2\DATA\070411\
BLANK-02.D	blank	4/11/2007 19:40	2	0	1										S:\MSDCHEM\2\DATA\070411\
PCB-07.D	1358D 1016/1260 500/50	4/11/2007 20:17	3	0	1	15.226	111664165	23.558	188952184	12.906	337613404	19.290	538013287		S:\MSDCHEM\2\DATA\070411\
PCB-08.D	1378.1 1248 500/50	4/11/2007 20:54	4	0	1	15.229	113677759	23.557	196653674	12.907	342588337	19.289	529366573		S:\MSDCHEM\2\DATA\070411\
L41895-3.D	L41895-3	4/11/2007 21:30	18	4370	1	15.229	81202454	23.560	156790978	12.907	247621081	19.291	415101528	BL692 PCBLL LOWER DUWAMISH PHTHALATES	S:\MSDCHEM\2\DATA\070411\
L41895-4.D	L41895-4	4/11/2007 22:07	19	5210	1	15.228	80517509	23.559	161493955	12.908	244847134	19.288	409148769	BL692 PCBLL LOWER DUWAMISH PHTHALATES	S:\MSDCHEM\2\DATA\070411\
L41895-5.D	L41895-5	4/11/2007 22:43	20	4870	1	15.229	81506860	23.558	157589400	12.905	239935625	19.286	413551719	BL692 PCBLL LOWER DUWAMISH PHTHALATES	S:\MSDCHEM\2\DATA\070411\
L41896-1.D	L41896-1	4/11/2007 23:20	21	2000	1	15.225	87581227	23.551	157300418	12.904	258479071	19.283	397109388	BL692 PCBLL LOWER DUWAMISH PHTHALATES	S:\MSDCHEM\2\DATA\070411\
PCB-1401.D	PCB-1401	4/11/2007 23:57	22	0	1	15.225	94174216	23.553	169927929	12.902	278425524	19.282	439448398	MS CHECK VALUE=1000 ppb	S:\MSDCHEM\2\DATA\070411\
PCB-1402.D	PCB-1402	4/12/2007 12:33	23	0	1	15.224	97010390	23.550	169377026	12.905	281509676	19.284	447215240	MSLL CHECK VALUE=300 ppb	S:\MSDCHEM\2\DATA\070411\
PCB-09.D	1358D 1016/1260 500/50	4/12/2007 1:10	3	0	1	15.227	117892650	23.554	202745375	12.904	334788263	19.284	537460735		S:\MSDCHEM\2\DATA\070411\
PCB-10.D	1210.2 1254 500/50	4/12/2007 1:47	5	0	1	15.226	105926538	23.553	179310239	12.905	299287639	19.284	484871248		S:\MSDCHEM\2\DATA\070411\
					Ave.	15.228	99120011	23.556	172517875	12.905	293215152	19.287	464229818		
					Std. Dev.	0.002	13382771	0.003	16880238	0.001	35508885	0.003	49403109		
					%RSD		14%		10%		12%		11%		

KCSlip4 58065
SEA424364

KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab Review Report - 04/12/07 12:41 - Data Source: ELD

Sample#: WG90567-1	Matrix:	BLANK WTR	List Type:	ORPCBLL	
	Project:		Run ID:	R119550	Col. Date:
	Locator:	SB	Work Group:	WG90567	Rec. Date: 08-MAR-07
	Site:	NONE	QC Type:	SB	Due Date:
	Method Code:	EPA 8081A/8082 (7-3-03-002)			

Parameter	Value	Units	Valq	Mdl	Rdl	Textvalue
Aroclor 1016	.0615	ug/L		.011	.0222	
Aroclor 1221		ug/L	<MDL	.011	.0222	
Aroclor 1232		ug/L	<MDL	.011	.0222	
Aroclor 1242		ug/L	<MDL	.011	.0222	
Aroclor 1248		ug/L	<MDL	.011	.0222	
Aroclor 1254		ug/L	<MDL	.011	.0222	
Aroclor 1260	.0745	ug/L		.011	.0222	
Decachlorobiphenyl	.0156	ug/L		.0011	.00222	
2,4,5,6-Tetrachloro-m-xylene	.0044	ug/L		.0011	.00222	
Amount Analyzed	4500	ml				
Standard Amount	1	ml				
Dilution Factor	1	none				
Date Analyzed						11-APR-07
Operator ID						JSF
Porthandler File						/usr/users/seed2/METROS3/files/gc/wg90567.txt
Instrument ID						HP6890ECD-G
Prep Date						05-MAR-07

SURROGATE RECOVERY INFORMATION

Parameter	% Rec	Lab Limits
Decachlorobiphenyl	70	12-158
2,4,5,6-Tetrachloro-m-xylene	20	10-118

KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab Review Report - 04/12/07 12:41 - Data Source: ELD

Sample#: WG90567-2	Matrix:	BLANK WTR	List Type:	ORPCBLL	
	Project:		Run ID:	R119550	Col. Date:
	Locator:	MB	Work Group:	WG90567	Rec. Date: 08-MAR-07
	Site:	NONE	QC Type:	MB	Due Date:
	Method Code:	EPA 8081A/8082 (7-3-03-002)			

Parameter	Value	Units	Valq	Mdl	Rdl	Textvalue
Aroclor 1016		ug/L	<MDL	.011	.0222	
Aroclor 1221		ug/L	<MDL	.011	.0222	
Aroclor 1232		ug/L	<MDL	.011	.0222	
Aroclor 1242		ug/L	<MDL	.011	.0222	
Aroclor 1248		ug/L	<MDL	.011	.0222	
Aroclor 1254		ug/L	<MDL	.011	.0222	
Aroclor 1260		ug/L	<MDL	.011	.0222	
Decachlorobiphenyl	.0146	ug/L		.0011	.00222	
2,4,5,6-Tetrachloro-m-xylene	.00594	ug/L		.0011	.00222	
Amount Analyzed	4500	ml				
Standard Amount	1	ml				
Dilution Factor	1	none				
Date Analyzed						11-APR-07
Operator ID						JSP
Porthandler File						/usr/users/seed2/METROS3/files/gc/wg90567.txt
Instrument ID						HP6890ECD-G
Prep Date						05-MAR-07

SURROGATE RECOVERY INFORMATION

Parameter	% Rec	Lab Limits
Decachlorobiphenyl	66	12-158
2,4,5,6-Tetrachloro-m-xylene	27	10-118

KCSlip4 58067

SEA424366

KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab Review Report - 04/12/07 12:41 - Data Source: ELD

Sample#: WG90567-3	Matrix:	BLANK WTR	List Type:	ORPCBLL	
	Project:		Run ID:	R119550	Col. Date:
	Locator:	MB	Work Group:	WG90567	Rec. Date: 08-MAR-07
	Site:	NONE	QC Type:	MB	Due Date:
	Method Code:	EPA 8081A/8082 (7-3 03-002)			

Parameter	Value	Units	Valq	Mdl	Rdl	Textvalue
Aroclor 1016		ug/L	<MDL	.025	.05	
Aroclor 1221		ug/L	<MDL	.025	.05	
Aroclor 1232		ug/L	<MDL	.025	.05	
Aroclor 1242		ug/L	<MDL	.025	.05	
Aroclor 1248		ug/L	<MDL	.025	.05	
Aroclor 1254		ug/L	<MDL	.025	.05	
Aroclor 1260		ug/L	<MDL	.025	.05	
Decachlorobiphenyl	.0283	ug/L		.0025	.005	
2,4,5,6-Tetrachloro-m-xylene	.017	ug/L		.0025	.005	
Amount Analyzed	2000	ml				
Standard Amount	1	ml				
Dilution Factor	1	none				
Date Analyzed						11-APR-07
Operator ID						JSF
Porthandler File						/usr/users/seed2/METROS3/files/gc/wg90567.txt
Instrument ID						HP6890ECD G
Prep Date						05-MAR-07

SURROGATE RECOVERY INFORMATION

Parameter	% Rec	Lab Limits
Decachlorobiphenyl	57	12-158
2,4,5,6-Tetrachloro-m-xylene	34	10-118

KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab Review Report - 04/12/07 12:41 - Data Source: ELD

Sample#: WG90567-4	Matrix:	BLANK WTR	List Type:	ORPCBLL	
	Project:		Run ID:	R119550	Col. Date:
	Locator:	SBD	Work Group:	WG90567	Rec. Date: 08-MAR-07
	Site:	NONE	QC Type:	SBD	Due Date:
	Method Code:	EPA 8081A/8082 (7-3-03-002)			

Parameter	Value	Units	Valq	Mdl	Rdl	Textvalue
Aroclor 1016	.0678	ug/L		.011	.0222	
Aroclor 1221		ug/L	<MDL	.011	.0222	
Aroclor 1232		ug/L	<MDL	.011	.0222	
Aroclor 1242		ug/L	<MDL	.011	.0222	
Aroclor 1248		ug/L	<MDL	.011	.0222	
Aroclor 1254		ug/L	<MDL	.011	.0222	
Aroclor 1260	.0835	ug/L		.011	.0222	
Decachlorobiphenyl	.015	ug/L		.0011	.00222	
2,4,5,6-Tetrachloro-m-xylene	.00637	ug/L		.0011	.00222	
Amount Analyzed	4500	ml				
Standard Amount	1	ml				
Dilution Factor	1	none				
Date Analyzed						11-APR-07
Operator ID						JSF
Porthandler File						/usr/users/seed2/METRO53/File s/qc/wg90567.txt
Instrument ID						HP6890ECD-G
Prep Date						05-MAR-07

SURROGATE RECOVERY INFORMATION

Parameter	% Rec	Lab Limits
Decachlorobiphenyl	67	12-158
2,4,5,6-Tetrachloro-m-xylene	29	10-118

KCSlip4 58069

SEA424368

KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab Review Report - 04/12/07 12:41 - Data Source: ELD

Sample#: WG90567-5	Matrix:	BLANK WTR	List Type:	ORPCBLL	
	Project:		Run ID:	R119550	Col. Date:
	Locator:	MB	Work Group:	WG90567	Rec. Date: 08-MAR-07
	Site:	NONE	QC Type:	MB	Due Date:
	Method Code:	EPA 8081A/8082 (7-3-03-002)			

Parameter	Value	Units	Valq	Mdl	Rdl	Textvalue
Aroclor 1016		ug/L	<MDL	.011	.0222	
Aroclor 1221		ug/L	<MDL	.011	.0222	
Aroclor 1232		ug/L	<MDL	.011	.0222	
Aroclor 1242		ug/L	<MDL	.011	.0222	
Aroclor 1248		ug/L	<MDL	.011	.0222	
Aroclor 1254		ug/L	<MDL	.011	.0222	
Aroclor 1260		ug/L	<MDL	.011	.0222	
Decachlorobiphenyl	.0163	ug/L		.0011	.00222	
2,4,5,6-Tetrachloro-m-xylene	.00916	ug/L		.0011	.00222	
Amount Analyzed	4500	ml				
Standard Amount	1	ml				
Dilution Factor	1	none				
Date Analyzed						11-APR-07
Operator ID						JSP
Porthandler File						/usr/users/seed2/METROS3/files/gc/wg90567.txt
Instrument ID						HP6890ECD-G
Prep Date						05-MAR-07

SURROGATE RECOVERY INFORMATION

Parameter	% Rec	Lab Limits
Decachlorobiphenyl	74	12-158
2,4,5,6-Tetrachloro-m-xylene	41	10-118

KCSlip4 58070

SEA424369

KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab Review Report - 04/12/07 12:41 - Data Source: ELD

Sample#: WG90567-6	Matrix:	BLANK WTR	List Type:	ORPCBLL	
	Project:		Run ID:	R119550	Col. Date:
	Locator:	SB	Work Group:	WG90567	Rec. Date: 08-MAR-07
	Site:	NONE	QC Type:	SB	Due Date:
	Method Code:	EPA 8081A/8082 (7-3-03-002)			

Parameter	Value	Units	Valq	Mdl	Rdl	Textvalue
Aroclor 1016	.0662	ug/L		.011	.0222	
Aroclor 1221		ug/L	<MDL	.011	.0222	
Aroclor 1232		ug/L	<MDL	.011	.0222	
Aroclor 1242		ug/L	<MDL	.011	.0222	
Aroclor 1248		ug/L	<MDL	.011	.0222	
Aroclor 1254		ug/L	<MDL	.011	.0222	
Aroclor 1260	.0848	ug/L		.011	.0222	
Decachlorobiphenyl	.0168	ug/L		.0011	.00222	
2,4,5,6-Tetrachloro-m-xylene	.00553	ug/L		.0011	.00222	
Amount Analyzed	4500	ml				
Standard Amount	1	ml				
Dilution Factor	1	none				
Date Analyzed						11-APR-07
Operator ID						JSF
Porthandler File						/usr/users/seed2/METROS3/files/gc/wg90567.txt
Instrument ID						HP6890ECD-G
Prep Date						05-MAR-07

SURROGATE RECOVERY INFORMATION

Parameter	% Rec	Lab Limits
Decachlorobiphenyl	75	12-158
2,4,5,6-Tetrachloro-m-xylene	25	10-118

KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab Review Report - 04/12/07 12:41 - Data Source: ELD

Sample#: WG90567-7	Matrix:	BLANK WTR	List Type:	ORPCBLL	
	Project:		Run ID:	R119550	Col. Date:
	Locator:	MB	Work Group:	WG90567	Rec. Date: 08-MAR-07
	Site:	NONE	QC Type:	MB	Due Date:
	Method Code:	EPA 8081A/8082 (7-3-03-002)			

Parameter	Value	Units	Valq	Mdl	Rdl	Textvalue
Aroclor 1016		ug/L	<MDL	.011	.0222	
Aroclor 1221		ug/L	<MDL	.011	.0222	
Aroclor 1232		ug/L	<MDL	.011	.0222	
Aroclor 1242		ug/L	<MDL	.011	.0222	
Aroclor 1248		ug/L	<MDL	.011	.0222	
Aroclor 1254		ug/L	<MDL	.011	.0222	
Aroclor 1260		ug/L	<MDL	.011	.0222	
Decachlorobiphenyl	.0151	ug/L		.0011	.00222	
2,4,5,6-Tetrachloro-m-xylene	.00694	ug/L		.0011	.00222	
Amount Analyzed	4500	ml				
Standard Amount	1	ml				
Dilution Factor	1	none				
Date Analyzed						11-APR-07
Operator ID						JSP
Porthandler File						/usr/users/seed2/METROS3/files/gc/wg90567.txt
Instrument ID						HP6890ECD-G
Prep Date						05-MAR-07

SURROGATE RECOVERY INFORMATION

Parameter	% Rec	Lab Limits
Decachlorobiphenyl	68	12-158
2,4,5,6-Tetrachloro-m-xylene	31	10-118

KCSlip4 58072

SEA424371

KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab Review Report - 04/12/07 12:41 - Data Source: ELD

Sample#: L41895-1	Matrix: STORM WTR	List Type: ORPCBLL			
	Project: 423589-090-1	Run ID: R119550		Col. Date:	27-FEB-07
	Locator: BWR	Work Group: WG90567		Rec. Date:	27-FEB-07
	Site: METRO	QC Type:		Due Date:	29-MAR-07
	Method Code: EPA 8081A/8082 (7-3-03-002)				

Parameter	Value	Units	Valq	Mdl	Rdl	Textvalue
Aroclor 1016		ug/L	<MDL	.011	.0218	
Aroclor 1221		ug/L	<MDL	.011	.0218	
Aroclor 1232		ug/L	<MDL	.011	.0218	
Aroclor 1242		ug/L	<MDL	.011	.0218	
Aroclor 1248		ug/L	<MDL	.011	.0218	
Aroclor 1254		ug/L	<MDL	.011	.0218	
Aroclor 1260		ug/L	<MDL	.011	.0218	
Decachlorobiphenyl	.0182	ug/L		.0011	.00218	
2,4,5,6-Tetrachloro-m-xylene	.0104	ug/L		.0011	.00218	
Amount Analyzed	4590	ml				
Standard Amount	1	ml				
Dilution Factor	1	none				
Date Analyzed						11-APR-07
Operator ID						JSP
Porthandler File						/usr/users/seed2/METROS3/files/gc/wg90567.txt
Instrument ID						HP6890ECD-G
Prep Date						05-MAR-07

SURROGATE RECOVERY INFORMATION

Parameter	% Rec	Lab Limits
Decachlorobiphenyl	83	12-158
2,4,5,6-Tetrachloro-m-xylene	48	10-118

KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab Review Report - 04/12/07 12:41 - Data Source: ELD

Sample#:	L41895-2	Matrix:	STORM WTR	List Type:	ORPCBLL		
		Project:	423589-090-1	Run ID:	R119550	Col. Date:	27-FEB-07
		Locator:	CER	Work Group:	WG90567	Rec. Date:	27-FEB-07
		Site:	METRO	QC Type:		Due Date:	29-MAR-07
		Method Code:	EPA 8081A/8082 (7-3-03-002)				

Parameter	Value	Units	Valq	Mdl	Rdl	Textvalue
Aroclor 1016		ug/L	<MDL	.012	.0235	
Aroclor 1221		ug/L	<MDL	.012	.0235	
Aroclor 1232		ug/L	<MDL	.012	.0235	
Aroclor 1242		ug/L	<MDL	.012	.0235	
Aroclor 1248		ug/L	<MDL	.012	.0235	
Aroclor 1254		ug/L	<MDL	.012	.0235	
Aroclor 1260		ug/L	<MDL	.012	.0235	
Decachlorobiphenyl	.0202	ug/L		.0012	.00235	
2,4,5,6-Tetrachloro-m-xylene	.0103	ug/L		.0012	.00235	
Amount Analyzed	4260	ml				
Standard Amount	1	ml				
Dilution Factor	1	none				
Date Analyzed						11 APR-07
Operator ID						JSF
Porthandler File						/usr/users/seed2/METROS3/files/gc/wg90567.txt
Instrument ID						HP6890ECD-G
Prep Date						05-MAR-07

SURROGATE RECOVERY INFORMATION

Parameter	% Rec	Lab Limits
Decachlorobiphenyl	86	12-158
2,4,5,6-Tetrachloro-m-xylene	44	10-118

KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab Review Report - 04/12/07 12:41 - Data Source: ELD

Sample#: L41895-3	Matrix:	STORM WTR	List Type:	ORPCBLL	
	Project:	423589-090-1	Run ID:	R119550	Col. Date: 27-FEB-07
	Locator:	DZ	Work Group:	WG90567	Rec. Date: 27-FEB-07
	Site:	METRO	QC Type:		Due Date: 29-MAR-07
	Method Code:	EPA 8081A/8082 (7-3-03-002)			

Parameter	Value	Units	Valq	Mdl	Rdl	Textvalue
Aroclor 1016		ug/L	<MDL	.011	.0229	
Aroclor 1221		ug/L	<MDL	.011	.0229	
Aroclor 1232		ug/L	<MDL	.011	.0229	
Aroclor 1242		ug/L	<MDL	.011	.0229	
Aroclor 1248		ug/L	<MDL	.011	.0229	
Aroclor 1254	.017	ug/L	<RDL	.011	.0229	
Aroclor 1260		ug/L	<MDL	.011	.0229	
Decachlorobiphenyl	.0199	ug/L		.0011	.00229	
2,4,5,6-Tetrachloro-m-xylene	.0092	ug/L		.0011	.00229	
Amount Analyzed	4370	ml				
Standard Amount	1	ml				
Dilution Factor	1	none				
Date Analyzed						11-APR-07
Operator ID						JSP
Porthandler File						/usr/users/seed2/METROS3/files/gc/wg90567.txt
Instrument ID						HP6890ECD-G
Prep Date						05-MAR-07

SURROGATE RECOVERY INFORMATION

Parameter	% Rec	Lab Limits
Decachlorobiphenyl	87	12-158
2,4,5,6-Tetrachloro-m-xylene	40	10-118

KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab Review Report - 04/17/07 01:59 - Data Source: ELD

Sample#: L41895-4	Matrix: STORM WTR	List Type: ORPCBLL			
	Project: 423589-090-1	Run ID: R119550		Col. Date:	27-FEB-07
	Locator: KCIA	Work Group: WG90567		Rec. Date:	27-FEB-07
	Site: METRO	QC Type:		Due Date:	29-MAR-07
	Method Code: EPA 8081A/8082 (7-3-03-002)				

Parameter	Value	Units	Valq	Mdl	Rdl	Textvalue
Aroclor 1016		ug/L	<MDL,H	.0096	.0192	Samples extracted beyond 7 day holding time (9 days)
Aroclor 1221		ug/L	<MDL,H	.0096	.0192	Samples extracted beyond 7 day holding time (9 days)
Aroclor 1232		ug/L	<MDL,H	.0096	.0192	Samples extracted beyond 7 day holding time (9 days)
Aroclor 1242		ug/L	<MDL,H	.0096	.0192	Samples extracted beyond 7 day holding time (9 days)
Aroclor 1248		ug/L	<MDL,H	.0096	.0192	Samples extracted beyond 7 day holding time (9 days)
Aroclor 1254		ug/L	<MDL,H	.0096	.0192	Samples extracted beyond 7 day holding time (9 days)
Aroclor 1260		ug/L	<MDL,H	.0096	.0192	Samples extracted beyond 7 day holding time (9 days)
Decachlorobiphenyl	.0158	ug/L	H	.00096	.00192	Samples extracted beyond 7 day holding time (9 days)
2,4,5,6-Tetrachloro-m-xylene	.00905	ug/L	H	.00096	.00192	Samples extracted beyond 7 day holding time (9 days)
Amount Analyzed	5210	ml				
Standard Amount	1	ml				
Dilution Factor	1	none				
Date Analyzed						11-APR-07
Operator ID						JSF
Porthandler File						/usr/users/seed2/METROS3/files/gc/wg90567.txt
Instrument ID						HP6890ECD-G
Prep Date						05-MAR-07

SURROGATE RECOVERY INFORMATION

Parameter	% Rec	Lab Limits
Decachlorobiphenyl	82	12-158
2,4,5,6-Tetrachloro-m-xylene	47	10-118

KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab Review Report - 04/17/07 01:59 - Data Source: ELD

Sample#: L41895-5	Matrix:	STORM WTR	List Type:	ORPCBLL	
	Project:	423589-090-1	Run ID:	R119550	Col. Date: 27-FEB-07
	Locator:	SPCC	Work Group:	WG90567	Rec. Date: 27-FEB-07
	Site:	METRO	QC Type:		Due Date: 29-MAR-07
	Method Code:	EPA 8081A/8082 (7-3-03-002)			

Parameter	Value	Units	Valq	Mdl	Rdl	Textvalue
Aroclor 1016		ug/L	<MDL,H	.01	.0205	Samples extracted beyond 7 day holding time (9 days)
Aroclor 1221		ug/L	<MDL,H	.01	.0205	Samples extracted beyond 7 day holding time (9 days)
Aroclor 1232		ug/L	<MDL,H	.01	.0205	Samples extracted beyond 7 day holding time (9 days)
Aroclor 1242		ug/L	<MDL,H	.01	.0205	Samples extracted beyond 7 day holding time (9 days)
Aroclor 1248		ug/L	<MDL,H	.01	.0205	Samples extracted beyond 7 day holding time (9 days)
Aroclor 1254		ug/L	<MDL,H	.01	.0205	Samples extracted beyond 7 day holding time (9 days)
Aroclor 1260		ug/L	<MDL,H	.01	.0205	Samples extracted beyond 7 day holding time (9 days)
Decachlorobiphenyl	.0177	ug/L	H	.001	.00205	Samples extracted beyond 7 day holding time (9 days)
2,4,5,6-Tetrachloro-m-xylene	.0109	ug/L	H	.001	.00205	Samples extracted beyond 7 day holding time (9 days)
Amount Analyzed	4870	ml				
Standard Amount	1	ml				
Dilution Factor	1	none				
Date Analyzed						11-APR-07
Operator ID						JSF
Porthandler File						/usr/users/seed2/METROS3/files/gc/wg90567.txt
Instrument ID						HP6890ECD-G
Prep Date						05-MAR-07

SURROGATE RECOVERY INFORMATION

Parameter	% Rec	Lab Limits
Decachlorobiphenyl	86	12-158
2,4,5,6-Tetrachloro-m-xylene	53	10-118

KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab Review Report - 04/12/07 12:41 - Data Source: ELD

Sample#: L41896-1	Matrix:	BLANK WTR	List Type:	ORPCBLL	
	Project:	423589-090-1	Run ID:	R119550	Col. Date: 26-FEB-07
	Locator:	BWR	Work Group:	WG90567	Rec. Date: 26-FEB-07
	Site:	METRO	QC Type:		Due Date: 28-MAR-07
	Method Code:	EPA 8081A/8082 (7-3 03 002)			

Parameter	Value	Units	Valq	Mdl	Rdl	Textvalue
Aroclor 1016		ug/L	<MDL	.025	.05	
Aroclor 1221		ug/L	<MDL	.025	.05	
Aroclor 1232		ug/L	<MDL	.025	.05	
Aroclor 1242		ug/L	<MDL	.025	.05	
Aroclor 1248		ug/L	<MDL	.025	.05	
Aroclor 1254		ug/L	<MDL	.025	.05	
Aroclor 1260		ug/L	<MDL	.025	.05	
Decachlorobiphenyl	.0209	ug/L		.0025	.005	
2,4,5,6-Tetrachloro-m-xylene	.015	ug/L		.0025	.005	
Amount Analyzed	2000	ml				
Standard Amount	1	ml				
Dilution Factor	1	none				
Date Analyzed						11-APR-07
Operator ID						JSF
Porthandler File						/usr/users/seed2/METROSJ/files/gc/wg90567.txt
Instrument ID						HP6890ECD-G
Prep Date						05-MAR-07

SURROGATE RECOVERY INFORMATION

Parameter	% Rec	Lab Limits
Decachlorobiphenyl	42	12-158
2,4,5,6-Tetrachloro-m-xylene	30	10-118