King County Environmental Laboratory

WORK GROUP REPORT (wk02)

Jan 15 2007, 05:31 pm

Work Group: WG89548 (BL#680 PHPAHSOURCE) for Department: 7 - Organics, Trace

Created: 18-DEC-06 PrepDate: 11-DEC-06 Due: Operator: JG

Sample	Project Number	Project Description	PKey	C	Product	Matrix	Stat	Lab	Workdate	Duedate
L41257-1	423589-090-1	Lower Duwamish Phthalate Studies		S	PHPAHSOURCE	STORM WTR	PREP	U	19-DEC-06	04-JAN-07
L41257-2	423589-090-1	Lower Duwamish Phthalate Studies		S	PHPAHSOURCE	STORM WTR	PREP	U	19-DEC-06	04-JAN-07
L41257-3	423589-090-1	Lower Duwamish Phthalate Studies		S	PHPAHSOURCE	STORM WTR	PREP	U	19-DEC-06	04-JAN-07
L41257-4	423589-090-1	Lower Duwamish Phthalate Studies		S	PHPAHSOURCE	STORM WTR	PREP	U	19-DEC-06	04-JAN-07
L41257-5	423589-090-1	Lower Duwamish Phthalate Studies		S	PHPAHSOURCE	STORM WTR	PREP	U	19-DEC-06	04-JAN-07
L41258-1	423589-090-1	Lower Duwamish Phthalate Studies		S	PHPAHSOURCE	BLANK WTR	PREP	U	18-DEC-06	03-JAN-07
WG89548-1	SB			S	PHPAHSOURCE	BLANK WTR	PREP	U	18-DEC-06	
WG89548-2	MB			S	PHPAHSOURCE	BLANK WTR	PREP	U	18-DEC-06	
WG89548-3	MB			S	PHPAHSOURCE	BLANK WTR	PREP	U	18-DEC-06	
WG89548-4	SBD			S	PHPAHSOURCE	BLANK WTR	PREP	U	18-DEC-06	
WG89548-5	MB			S	PHPAHSOURCE	BLANK WTR	PREP	U	18-DEC-06	

Comments:

L41257-1	carboys
L41257-2	carboys
L41257-3	carboys
L41257-4	carboys
L41257-5	carboys
L41258-1	blank water
WG89548-1	WG89548-2
WG89548-2	MB061211 6L
WG89548-3	MB061211 2L
WG89548-4	WG89548-1 WG89548-5
WG89548-5	MB061212 6L

KCSlip4 55356

SEA421684

A/m 1/18/07

KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab QC Report - 01/17/07 09:42
Run ID: R118220 Workgroup: WG89548 (BL#680 PHPAHSOURCE)

SBD:WG89548-4 SB:WG89548-1 MB:WG89548-2 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	.0033	.00667	ug/L	<MDL	0.0833	.0296	36		10-150	0.0833	.0244	29		10-150	22		100
Dimethyl Phthalate	.0033	.00667	ug/L	<MDL	0.0833	.0285	34		10-150	0.0833	.031	37		10-150	8		100
Fluorene	.0033	.00667	ug/L	<MDL	0.0833	.0433	52		10-150	0.0833	.0412	49		10-150	6		100
Diethyl Phthalate	.005	.01	ug/L	<MDL	0.0833	.0724	87		10-150	0.0833	.0781	94		10-150	8		100
Phenanthrene	.0033	.00667	ug/L	<MDL	0.0833	.0639	77		10-150	0.0833	.061	73		10-150	5		100
Anthracene	.0033	.00667	ug/L	<MDL	0.0833	.0547	66		10-150	0.0833	.0523	63		10-150	5		100
Di-N-Butyl Phthalate	.0033	.00667	ug/L	.0135	0.0833	.108	113		10-150	0.0833	.109	112		10-150	1		100
Pyrene	.0033	.00667	ug/L	<MDL	0.0833	.0822	99		10-150	0.0833	.0806	97		10-150	2		100
Benzyl Butyl Phthalate	.0033	.00667	ug/L	.0054	0.0833	.118	135		10-150	0.0833	.117	131		10-150	3		100
Benzo(a)anthracene	.0033	.00667	ug/L	<MDL	0.0833	.0801	96		10-150	0.0833	.0789	95		10-150	1		100
Chrysene	.0033	.00667	ug/L	<MDL	0.0833	.0772	93		10-150	0.0833	.0758	91		10-150	2		100
Bis(2-Ethylhexyl)Phthalate	.0033	.00667	ug/L	.039	0.0833	.108	83		10-150	0.0833	.0998	90		10-150	8		100
Benzo(b)fluoranthene	.005	.01	ug/L	<MDL	0.0833	.0713	86		10-150	0.0833	.0714	86		10-150	0		100
Benzo(k)fluoranthene	.005	.01	ug/L	<MDL	0.0833	.0742	89		10-150	0.0833	.0759	91		10-150	2		100
Benzo(a)pyrene	.005	.01	ug/L	<MDL	0.0833	.0596	72		10-150	0.0833	.0591	71		10-150	1		100
Indeno(1,2,3-Cd)Pyrene	.005	.01	ug/L	<MDL	0.0833	.045	54		10-150	0.0833	.042	50		10-150	8		100
Dibenzo(a,h)anthracene	.005	.01	ug/L	<MDL	0.0833	.0458	55		10-150	0.0833	.0435	52		10-150	6		100
Benzo(g,h,i)perylene	.005	.01	ug/L	<MDL	0.0833	.0442	53		10-150	0.0833	.0409	49		10-150	8		100

MB:WG89548-2 Matrix: BLANK WTR Listtype: ORPHPAHSOURCE Method: 8270B Project: 423589-090-1 Pkey: STD
(Method Blank)

Parameter	Mdl	Rdl	Units	MB Value	Qual
Naphthalene	.0067	.0133	ug/L	<MDL	
Acenaphthylene	.0033	.00667	ug/L	<MDL	
Dimethyl Phthalate	.0033	.00667	ug/L	<MDL	
Acenaphthene	.0033	.00667	ug/L	<MDL	
Fluorene	.0033	.00667	ug/L	<MDL	
Diethyl Phthalate	.005	.01	ug/L	<MDL	
Phenanthrene	.0033	.00667	ug/L	<MDL	
Anthracene	.0033	.00667	ug/L	<MDL	
Di-N-Butyl Phthalate	.0033	.00667	ug/L	.0135	B
Fluoranthene	.0033	.00667	ug/L	<MDL	
Pyrene	.0033	.00667	ug/L	<MDL	
Benzyl Butyl Phthalate	.0033	.00667	ug/L	.0054	B
Benzo(a)anthracene	.0033	.00667	ug/L	<MDL	
Chrysene	.0033	.00667	ug/L	<MDL	
Bis(2-Ethylhexyl)Phthalate	.0033	.00667	ug/L	.039	B
Di-N-Octyl Phthalate	.005	.01	ug/L	<MDL	
Benzo(b)fluoranthene	.005	.01	ug/L	<MDL	
Benzo(k)fluoranthene	.005	.01	ug/L	<MDL	
Benzo(a)pyrene	.005	.01	ug/L	<MDL	
Indeno(1,2,3-Cd)Pyrene	.005	.01	ug/L	<MDL	
Dibenzo(a,h)anthracene	.005	.01	ug/L	<MDL	
Benzo(g,h,i)perylene	.005	.01	ug/L	<MDL	
2-Methylnaphthalene	.005	.01	ug/L	<MDL	

KCSlip4 55357
SEA421685

KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab QC Report - 01/17/07 09:42
Run ID: R118220 Workgroup: WG89548 (BL#680 PHPAHSOURCE)

MB:WG89548-3 Matrix: BLANK WTR Listtype: ORPHPAHSOURCE Method: 8270B Project: 423589-090-1 Pkey: STD
(Method Blank)

Parameter	Mdl	Rdl	Units	MB Value	Qual
Naphthalene	.0067	.0133	ug/L	<MDL	
Acenaphthylene	.0033	.00667	ug/L	<MDL	
Dimethyl Phthalate	.0033	.00667	ug/L	<MDL	
Acenaphthene	.0033	.00667	ug/L	<MDL	
Fluorene	.0033	.00667	ug/L	<MDL	
Diethyl Phthalate	.005	.01	ug/L	<MDL	
Phenanthrene	.0033	.00667	ug/L	<MDL	
Anthracene	.0033	.00667	ug/L	<MDL	
Di-N-Butyl Phthalate	.0033	.00667	ug/L	.0366	B
Fluoranthene	.0033	.00667	ug/L	<MDL	
Pyrene	.0033	.00667	ug/L	<MDL	
Benzyl Butyl Phthalate	.0033	.00667	ug/L	.016	B
Benzo(a)anthracene	.0033	.00667	ug/L	<MDL	
Chrysene	.0033	.00667	ug/L	<MDL	
Bis(2-Ethylhexyl)Phthalate	.0033	.00667	ug/L	.0748	B
Di-N-Octyl Phthalate	.005	.01	ug/L	<MDL	
Benzo(b)fluoranthene	.005	.01	ug/L	<MDL	
Benzo(k)fluoranthene	.005	.01	ug/L	<MDL	
Benzo(a)pyrene	.005	.01	ug/L	<MDL	
Indeno(1,2,3-Cd)Pyrene	.005	.01	ug/L	<MDL	
Dibenzo(a,h)anthracene	.005	.01	ug/L	<MDL	
Benzo(g,h,i)perylene	.005	.01	ug/L	<MDL	
2-Methylnaphthalene	.005	.01	ug/L	<MDL	

MB:WG89548-5 Matrix: BLANK WTR Listtype: ORPHPAHSOURCE Method: 8270B Project: 423589-090-1 Pkey: STD
(Method Blank)

Parameter	Mdl	Rdl	Units	MB Value	Qual
Naphthalene	.0067	.0133	ug/L	<MDL	
Acenaphthylene	.0033	.00667	ug/L	<MDL	
Dimethyl Phthalate	.0033	.00667	ug/L	<MDL	
Acenaphthene	.0033	.00667	ug/L	<MDL	
Fluorene	.0033	.00667	ug/L	<MDL	
Diethyl Phthalate	.005	.01	ug/L	<MDL	
Phenanthrene	.0033	.00667	ug/L	<MDL	
Anthracene	.0033	.00667	ug/L	<MDL	
Di-N-Butyl Phthalate	.0033	.00667	ug/L	.0151	B
Fluoranthene	.0033	.00667	ug/L	<MDL	
Pyrene	.0033	.00667	ug/L	<MDL	
Benzyl Butyl Phthalate	.0033	.00667	ug/L	.00712	B
Benzo(a)anthracene	.0033	.00667	ug/L	<MDL	
Chrysene	.0033	.00667	ug/L	<MDL	
Bis(2-Ethylhexyl)Phthalate	.0033	.00667	ug/L	.0251	B
Di-N-Octyl Phthalate	.005	.01	ug/L	<MDL	
Benzo(b)fluoranthene	.005	.01	ug/L	<MDL	
Benzo(k)fluoranthene	.005	.01	ug/L	<MDL	
Benzo(a)pyrene	.005	.01	ug/L	<MDL	
Indeno(1,2,3-Cd)Pyrene	.005	.01	ug/L	<MDL	
Dibenzo(a,h)anthracene	.005	.01	ug/L	<MDL	
Benzo(g,h,i)perylene	.005	.01	ug/L	<MDL	

KCSlip4 55358
SEA421686

KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab QC Report - 01/17/07 09:42
Run ID: R118220 Workgroup: WG89548 (BL#680 PHPAHSOURCE)

MB:WG89548-5 Matrix: BLANK WTR Listtype: ORPHPAHSOURCE Method: 8270B Project: 423589-090-1 Pkey: STD
(Method Blank)

Parameter	Mdl	Rdl	Units	MB Value	Qual
2-Methylnaphthalene	.005	.01	ug/L	<MDL	

KCSlip4 55359
SEA421687

KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab QC Report - 01/17/07 09:42
Run ID: R118220 Workgroup: WG89548 (BL#680 PHPAHSOURCE)

Sample # (Lab Limits)	d14-Terphenyl 33-141	D6-Dimethyl Phthalate 0-150	D8-Acenaphthylene 0-150	D10-Fluorene 0-150	D10-Anthracene 0-150	D10-Pyrene 0-150	D12-Benzo(a)pyrene 0-150
L41257-1	86	51	8 *	29	10	78	78
L41257-2	104	27	0 *	8 *	0 *	62	81
L41257-3	96	41	0 *	0 *	0 *	22	36
L41257-4	97	45	0 *	5 *	0 *	58	37
L41257-5	100	48	0 *	12	0 *	71	65
L41258-1	95	70	45	60	59	67	68
WG89548-1	90	29	40	49	55	67	66
WG89548-2	89	26	39	52	57	67	65
WG89548-3	96	72	47	61	60	68	71
WG89548-4	80	31	35	49	53	65	63
WG89548-5	87	28	38	47	55	66	68

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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

KCSlip4 55360
SEA421688

Rand 15 Samples
Rand 16 Rinse Blank

LIQUID SAMPLE EXTRACTION RECORD FOR BNA ANALYSIS

TRACE ORGANICS LABORATORY

Acetone Lot # 064335
MeCL2 Lot # CR332
QC BATCH NO.: BL # 680
EPA SW-846 EXTRACTION METHOD:
CONT. L-L EPA 3520 SEP. FUNNEL EPA 3510

PHPAHSOURCE/PCBLL via SPE

WORKGROUP NO.: PHPAHSOURCE = WG89548, PCBLL = WG89549
BNA SURROGATE SPIKE: 1315 + 1205 (DMCs) or 1343 (DMCs)
BNA MATRIX SPIKE: 1246

1217 or
PCB Field Surr = 1344
PCB House Surr = 1216
PCB MS LL = 1261

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 12/11/06	WG89548-1 WG89549-1	QC	SB		6	6000	1343-25µl 1315-100µl 1344-100µl 1216-100µl 1246-50 1261-100	1.0	JG	01/15/07	30ml MeOH	31.7
	WG89548-2 WG89549-2	QC	MB1		6	6000	1343-25µl 1315-100µl 1344-100µl 1216-100µl	1.0	JG	01/15/07	30ml MeOH	32.5
01/07	WG89548-3 ~~WG89549-3~~	QC	MB		6	2000	1343-25µl 1315-100µl 1344-100µl 1216-100µl	1.0	JG	01/15/07	10ml MeOH No beaker for transfer. *WG89549-3 deleted because Rand 16 carboys overflowed so no Rinse Blank PCBLL needed.	9.6
1/15/07	LH1258-1	423589-090-001	BLWR-BK-120406-120406 ~~BLWR-BK-112006-120506~~ Lower Duwamish Phthalate		6	2000	1343-25µl 1315-100µl 1344-100µl 1216-100µl	1.0	JG	01/15/07	10ml MeOH No beaker for transfer.	10.7
	LH1257-4	423589-090-001	Lower Duwamish Phthalate KCIA-01-112106-120506		5	5620	1205-25µl 1315-100µl 1217-100µl 1216-100µl	1.0	JG	01/15/07	30ml MeOH *Std 1205 and 1217 spiked pre-deployment for LH1257-4.	39.8
	LH1257-5	423589-090-001	Lower Duwamish Phthalate SPCC-01-112106-120506		5	5980	1205-25µl 1315-100µl 1217-100µl 1216-100µl	1.0	JG	01/15/07	30ml MeOH *Std 1205 and 1217 spiked pre-deployment for LH1257-5	31.2
JG 12/12/06	WG89548-4 WG89549-4	QC	SB2		6	6000	1343-25µl 1315-100µl 1344-100µl 1216-100µl 1246-50µl 1261-100µl	1.0	JG	01/15/07	30 ml MeOH	30.8
	WG89548-5 WG89549-5	QC	MB2		6	6000	1343-25µl 1315-100µl 1344-100µl 1216-100µl	1.0	JG	01/15/07	30ml MeOH	34.3
	LH1257-3	423589-090-001	Lower Duwamish Phthalate DZ-01-112106-120506		5	6100	1205-25µl 1315-100µl 1217-100µl 1216-100µl	1.0	JG	01/15/07	30ml MeOH *Std 1205 & 1217 spiked pre-deployment	34.6
	LH1257-2	423589-090-001	Lower Duwamish Phthalate CER-01-112106-120506		6	6370		1.0	JG	01/15/07	31ml MeOH * Std. 1205 & 1217 spiked pre-deployment.	35.3
	LH1257-1	423589-090-001	Lower Duwamish Phthalate BWR-01-112106-120506		5	5470		1.0	JG	01/15/07	28ml MeOH * Std 1205 & 1217 spiked pre-deployment	38.7

All samples on 12/11/06 and 12/12/06 processed with SPE Lot # C03N14

KCSlip4 55361
SEA421689

Batch: \\Orgizmo\EE\chem\6890n.i\070116.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	16-JAN-2007 07:42	SDGa1658	SDGa16	421152	Solvent Blank + ISTD's	WATER	1000.000	1.0	6.686	293318	PHPAH.m	04-DEC-2006	Dave Fada
2	DFTPP-1	16-JAN-2007 08:23	SDGa2816	SDGa28	421152	SS#1254x50 DFTPP	NONE	0.000	1.0	12.733	144896	LVI_DFTP.m		Dave Fada
3	CCALI-1	16-JAN-2007 10:14	SDGa1658	SDGa16	421152	SS#1345E 250 ppb	WATER	1.000	1.0	6.686	364667	phpah.m	04-DEC-2006	Dave Fada
4	WG89548-2	16-JAN-2007 11:27	WG89548	BL#680	423589-09	Method Blank (12-11-2006)	WATER	6000.000	1.0	6.686	399785	PHPAH.m	04-DEC-2006	Dave Fada
5	WG89548-3	16-JAN-2007 12:07	WG89548	BL#680	423589-09	Method Blank (12-11-2006)	WATER	2000.000	1.0	6.686	355625	PHPAH.m	04-DEC-2006	Dave Fada
6	WG89548-5	16-JAN-2007 12:46	WG89548	BL#680	423589-09	Method Blank (12-12-2006)	WATER	6000.000	1.0	6.686	358745	PHPAH.m	04-DEC-2006	Dave Fada
7	L41258-1	16-JAN-2007 13:26	WG89548	BL#680	423589-09	Lower Duwamish Phthalate Stu	WATER	2000.000	1.0	6.686	372440	PHPAH.m	04-DEC-2006	Dave Fada
8	WG89548-1	16-JAN-2007 14:07	WG89548	BL#680	423589-09	Spike Blank (12-11-2006)	WATER	6000.000	1.0	6.686	375006	PHPAH.m	04-DEC-2006	Dave Fada
9	WG89548-4	16-JAN-2007 14:48	WG89548	BL#680	423589-09	Spike Blank Dup (12-12-2006)	WATER	6000.000	1.0	6.686	371193	PHPAH.m	04-DEC-2006	Dave Fada
10	L41257-1	16-JAN-2007 15:27	WG89548	BL#680	423589-09	Lower Duwamish Phthalate Stu	WATER	5470.000	1.0	6.677	490943	PHPAH.m	04-DEC-2006	Dave Fada
11	L41257-2	16-JAN-2007 16:07	WG89548	BL#680	423589-09	Lower Duwamish Phthalate Stu	WATER	6370.000	1.0	6.695	390284	PHPAH.m	04-DEC-2006	Dave Fada
12	L41257-3	16-JAN-2007 16:47	WG89548	BL#680	423589-09	Lower Duwamish Phthalate Stu	WATER	6100.000	1.0	6.695	372087	PHPAH.m	04-DEC-2006	Dave Fada
13	L41257-4	16-JAN-2007 17:27	WG89548	BL#680	423589-09	Lower Duwamish Phthalate Stu	WATER	5620.000	1.0	6.695	393606	PHPAH.m	04-DEC-2006	Dave Fada
14	L41257-5	16-JAN-2007 18:06	WG89548	BL#680	423589-09	Lower Duwamish Phthalate Stu	WATER	5980.000	1.0	6.695	384710	PHPAH.m	04-DEC-2006	Dave Fada

Samples: 6 **QC Samples + Misc.:** 6 **ContinuingCals:** 1 **Tunes:** 1 **Calibrations:** 0

```
   Sequence Name: C:\msdchem\1\sequence\070116.S
         Comment:
        Operator: Dave Fada
       Data Path: C:\MSDCHEM\1\DATA\070116\
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 (12-11-2006)
       Vial: 4             WG89548;BL#680;SS#969x200;SS#1205/1315
       Method   : PHPAH.M
       Datafile: WG89548-2.D
       Bar Code: 423589-090-1      Samp Amt: 6000        Multiplr: 1
       Matrix            :Liquid           Sublist          :Method Default
       Spikelist         :Method Default   Re-inject        :No
   ---------------------------------------------------------------------
   5   Type: Blank         Method Blank (12-11-2006)
       Vial: 5             WG89548;BL#680;SS#969x200;SS#1205/1315
       Method   : PHPAH.M
       Datafile: WG89548-3.D
       Bar Code: 423589-090-1      Samp Amt: 2000        Multiplr: 1
       Matrix            :Liquid           Sublist          :Method Default
       Spikelist         :Method Default   Re-inject        :No
   ---------------------------------------------------------------------
   6   Type: Blank         Method Blank (12-12-2006)
       Vial: 6             WG89548;BL#680;SS#969x200;SS#1205/1315
       Method   : PHPAH.M
       Datafile: WG89548-5.D
       Bar Code: 423589-090-1      Samp Amt: 6000        Multiplr: 1
       Matrix            :Liquid           Sublist          :Method Default
       Spikelist         :Method Default   Re-inject        :No
   ---------------------------------------------------------------------
   7   Type: Sample        Lower Duwamish Phthalate Studies
       Vial: 7             WG89548;BL#680;SS#969x200;SS#1205/1315
       Method   : PHPAH.M
       Datafile: L41258-1.D
       Bar Code: 423589-090-1      Samp Amt: 2000        Multiplr: 1
       Matrix            :Liquid           Sublist          :Method Default
       Spikelist         :Method Default   Re-inject        :No
   ---------------------------------------------------------------------
   8   Type: SB            Spike Blank (12-11-2006)

   Sequence Last Modified  Tue Jan 16 07:37:55 2007        Page: 1
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    Vial: 8            WG89548;BL#680;SS#969x200;SS#1205/1315
    Method   : PHPAH.M
    Datafile: WG89548-1.D
    Bar Code: 423589-090-1      Samp Amt: 6000        Multiplr: 1
    Matrix            :Liquid            Sublist          :Method Default
    Spikelist         :Method Default    Re-inject        :No
-----------------------------------------------------------------------
9   Type: SBD          Spike Blank Dup (12-12-2006)
    Vial: 9            WG89548;BL#680;SS#969x200;SS#1205/1315
    Method   : PHPAH.M
    Datafile: WG89548-4.D
    Bar Code: 423589-090-1      Samp Amt: 6000        Multiplr: 1
    Matrix            :Liquid            Sublist          :Method Default
    Spikelist         :Method Default    Re-inject        :No
-----------------------------------------------------------------------
10  Type: Sample       Lower Duwamish Phthalate Studies
    Vial: 10           WG89548;BL#680;SS#969x200;SS#1205/1315
    Method   : PHPAH.M
    Datafile: L41257-1.D
    Bar Code: 423589-090-1      Samp Amt: 5470        Multiplr: 1
    Matrix            :Liquid            Sublist          :Method Default
    Spikelist         :Method Default    Re-inject        :No
-----------------------------------------------------------------------
11  Type: Sample       Lower Duwamish Phthalate Studies
    Vial: 11           WG89548;BL#680;SS#969x200;SS#1205/1315
    Method   : PHPAH.M
    Datafile: L41257-2.D
    Bar Code: 423589-090-1      Samp Amt: 6370        Multiplr: 1
    Matrix            :Liquid            Sublist          :Method Default
    Spikelist         :Method Default    Re-inject        :No
-----------------------------------------------------------------------
12  Type: Sample       Lower Duwamish Phthalate Studies
    Vial: 12           WG89548;BL#680;SS#969x200;SS#1205/1315
    Method   : PHPAH.M
    Datafile: L41257-3.D
    Bar Code: 423589-090-1      Samp Amt: 6100        Multiplr: 1
    Matrix            :Liquid            Sublist          :Method Default
    Spikelist         :Method Default    Re-inject        :No
-----------------------------------------------------------------------
13  Type: Sample       Lower Duwamish Phthalate Studies
    Vial: 13           WG89548;BL#680;SS#969x200;SS#1205/1315
    Method   : PHPAH.M
    Datafile: L41257-4.D
    Bar Code: 423589-090-1      Samp Amt: 5620        Multiplr: 1
    Matrix            :Liquid            Sublist          :Method Default
    Spikelist         :Method Default    Re-inject        :No
-----------------------------------------------------------------------
14  Type: Sample       Lower Duwamish Phthalate Studies
    Vial: 14           WG89548;BL#680;SS#969x200;SS#1205/1315
    Method   : PHPAH.M
    Datafile: L41257-5.D
    Bar Code: 423589-090-1      Samp Amt: 5980        Multiplr: 1
    Matrix            :Liquid            Sublist          :Method Default
    Spikelist         :Method Default    Re-inject        :No
-----------------------------------------------------------------------
```


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SEA421692

KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab Review Report - 01/17/07 10:29 - Data Source: ELD

Sample#: WG89548-1	Matrix: BLANK WTR	List Type:	ORPHPAHSOURCE		
	Project:	Run ID:	R118220	Col. Date:	
	Locator: SB	Work Group:	WG89548	Rec. Date:	18-DEC-06
	Site: NONE	QC Type:	SB	Due Date:	
	Method Code: 8270B				

Parameter	Value	Units	Valq	Mdl	Rdl	Textvalue
Naphthalene		ug/L	<MDL	.0067	.0133	
Acenaphthylene	.0296	ug/L		.0033	.00667	
Dimethyl Phthalate	.0285	ug/L		.0033	.00667	
Acenaphthene		ug/L	<MDL	.0033	.00667	
Fluorene	.0433	ug/L		.0033	.00667	
Diethyl Phthalate	.0724	ug/L		.005	.01	
Phenanthrene	.0639	ug/L		.0033	.00667	
Anthracene	.0547	ug/L		.0033	.00667	
Di-N-Butyl Phthalate	.108	ug/L		.0033	.00667	
Fluoranthene		ug/L	<MDL	.0033	.00667	
Pyrene	.0822	ug/L		.0033	.00667	
Benzyl Butyl Phthalate	.118	ug/L		.0033	.00667	
Benzo(a)anthracene	.0801	ug/L		.0033	.00667	
Chrysene	.0772	ug/L		.0033	.00667	
Bis(2-Ethylhexyl)Phthalate	.108	ug/L		.0033	.00667	
Di-N-Octyl Phthalate		ug/L	<MDL	.005	.01	
Benzo(b)fluoranthene	.0713	ug/L		.005	.01	
Benzo(k)fluoranthene	.0742	ug/L		.005	.01	
Benzo(a)pyrene	.0596	ug/L		.005	.01	
Indeno(1,2,3-Cd)Pyrene	.045	ug/L		.005	.01	
Dibenzo(a,h)anthracene	.0458	ug/L		.005	.01	
Benzo(g,h,i)perylene	.0442	ug/L		.005	.01	
2-Methylnaphthalene		ug/L	<MDL	.005	.01	
d14-Terphenyl	.187	ug/L		.0033	.00667	
D6-Dimethyl Phthalate	.0239	ug/L		.0033	.00667	
D8-Acenaphthylene	.0334	ug/L		.0033	.00667	
D10-Fluorene	.0406	ug/L		.0033	.00667	
D10-Anthracene	.0462	ug/L		.0033	.00667	
D10-Pyrene	.0559	ug/L		.0033	.00667	
D12-Benzo(a)pyrene	.0548	ug/L		.0033	.00667	
Amount Analyzed	6000	ml				
Standard Amount	1000	ml				
Dilution Factor	1	none				
Date Analyzed						16-JAN-07
Operator ID						Dave Fada
Porthandler File						/usr/users/seed2/METROS3/files/gcms/WG89548-1.rp
Instrument ID						6890n.i
Prep Date						11-DEC-06

SURROGATE RECOVERY INFORMATION

Parameter	% Rec	Lab Limits
d14-Terphenyl	90	33-141
D6-Dimethyl Phthalate	29	0-150
D8-Acenaphthylene	40	0-150
D10-Fluorene	49	0-150
D10-Anthracene	55	0-150
D10-Pyrene	67	0-150
D12-Benzo(a)pyrene	66	0-150

KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab Review Report - 01/17/07 10:29 - Data Source: ELD

Sample#: WG89548-2	Matrix: BLANK WTR	List Type:	ORPHPAHSOURCE		
	Project:	Run ID:	R118220	Col. Date:	
	Locator: MB	Work Group:	WG89548	Rec. Date:	18-DEC-06
	Site: NONE	QC Type:	MB	Due Date:	
	Method Code: 8270B				

Parameter	Value	Units	Valq	Mdl	Rdl	Textvalue
Naphthalene		ug/L	<MDL	.0067	.0133	
Acenaphthylene		ug/L	<MDL	.0033	.00667	
Dimethyl Phthalate		ug/L	<MDL	.0033	.00667	
Acenaphthene		ug/L	<MDL	.0033	.00667	
Fluorene		ug/L	<MDL	.0033	.00667	
Diethyl Phthalate		ug/L	<MDL	.005	.01	
Phenanthrene		ug/L	<MDL	.0033	.00667	
Anthracene		ug/L	<MDL	.0033	.00667	
Di-N-Butyl Phthalate	.0135	ug/L	B	.0033	.00667	
Fluoranthene		ug/L	<MDL	.0033	.00667	
Pyrene		ug/L	<MDL	.0033	.00667	
Benzyl Butyl Phthalate	.0054	ug/L	<RDL,B	.0033	.00667	
Benzo(a)anthracene		ug/L	<MDL	.0033	.00667	
Chrysene		ug/L	<MDL	.0033	.00667	
Bis(2-Ethylhexyl)Phthalate	.039	ug/L	B	.0033	.00667	
Di-N-Octyl Phthalate		ug/L	<MDL	.005	.01	
Benzo(b)fluoranthene		ug/L	<MDL	.005	.01	
Benzo(k)fluoranthene		ug/L	<MDL	.005	.01	
Benzo(a)pyrene		ug/L	<MDL	.005	.01	
Indeno(1,2,3-Cd)Pyrene		ug/L	<MDL	.005	.01	
Dibenzo(a,h)anthracene		ug/L	<MDL	.005	.01	
Benzo(g,h,i)perylene		ug/L	<MDL	.005	.01	
2-Methylnaphthalene		ug/L	<MDL	.005	.01	
d14-Terphenyl	.185	ug/L		.0033	.00667	
D6-Dimethyl Phthalate	.0215	ug/L		.0033	.00667	
D8-Acenaphthylene	.0322	ug/L		.0033	.00667	
D10-Fluorene	.0429	ug/L		.0033	.00667	
D10-Anthracene	.0477	ug/L		.0033	.00667	
D10-Pyrene	.0561	ug/L		.0033	.00667	
D12-Benzo(a)pyrene	.0538	ug/L		.0033	.00667	
Amount Analyzed	6000	ml				
Standard Amount	1000	ml				
Dilution Factor	1	none				
Date Analyzed						16-JAN-07
Operator ID						Dave Fada
Porthandler File						/usr/users/seed2/METROS3/files/gcms/WG89548-2.rp
Instrument ID						6890n.i
Prep Date						11-DEC-06

SURROGATE RECOVERY INFORMATION

Parameter	% Rec	Lab Limits
d14-Terphenyl	89	33-141
D6-Dimethyl Phthalate	26	0-150
D8-Acenaphthylene	39	0-150
D10-Fluorene	52	0-150
D10-Anthracene	57	0-150
D10-Pyrene	67	0-150
D12-Benzo(a)pyrene	65	0-150

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SEA421694

KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab Review Report 01/17/07 10:29 - Data Source: ELD

Sample#: WG89548 3	Matrix:	BLANK WTR	List Type:	ORPHPAHSOURCE	
	Project:		Run ID:	R118220	Col. Date:
	Locator:	MB	Work Group:	WG89548	Rec. Date: 18-DEC-06
	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	.0366	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	.0748	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	.601	ug/L		.01	.02	
D6-Dimethyl Phthalate	.181	ug/L		.01	.02	
D8-Acenaphthylene	.118	ug/L		.01	.02	
D10-Fluorene	.154	ug/L		.01	.02	
D10-Anthracene	.15	ug/L		.01	.02	
D10-Pyrene	.169	ug/L		.01	.02	
D12-Benzo(a)pyrene	.177	ug/L		.01	.02	
Amount Analyzed	2000	ml				
Standard Amount	1000	ml				
Dilution Factor	1	none				
Date Analyzed						16-JAN-07
Operator ID						Dave Fada
Porthandler File						/usr/users/seed2/METROS3/files/gcms/WG89548-3.rp
Instrument ID						6890n.1
Prep Date						11-DEC-06

SURROGATE RECOVERY INFORMATION

Parameter	% Rec	Lab Limits
d14-Terphenyl	96	33-141
D6-Dimethyl Phthalate	72	0-150
D8-Acenaphthylene	47	0-150
D10-Fluorene	61	0-150
D10-Anthracene	60	0-150
D10-Pyrene	68	0-150
D12-Benzo(a)pyrene	71	0-150

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SEA421695

KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab Review Report - 01/17/07 10:29 - Data Source: ELD

Sample#: WG89548-4	Matrix: BLANK WTR	List Type:	ORPHPAHSOURCE		
	Project:	Run ID:	R118220	Col. Date:	
	Locator: SBD	Work Group:	WG89548	Rec. Date:	18-DEC-06
	Site: NONE	QC Type:	SBD	Due Date:	
	Method Code: 8270B				

Parameter	Value	Units	Valq	Mdl	Rdl	Textvalue
Naphthalene		ug/L	<MDL	.0067	.0133	
Acenaphthylene	.0244	ug/L		.0033	.00667	
Dimethyl Phthalate	.031	ug/L		.0033	.00667	
Acenaphthene		ug/L	<MDL	.0033	.00667	
Fluorene	.0412	ug/L		.0033	.00667	
Diethyl Phthalate	.0781	ug/L		.005	.01	
Phenanthrene	.061	ug/L		.0033	.00667	
Anthracene	.0523	ug/L		.0033	.00667	
Di-N-Butyl Phthalate	.109	ug/L		.0033	.00667	
Fluoranthene		ug/L	<MDL	.0033	.00667	
Pyrene	.0806	ug/L		.0033	.00667	
Benzyl Butyl Phthalate	.117	ug/L		.0033	.00667	
Benzo(a)anthracene	.0789	ug/L		.0033	.00667	
Chrysene	.0758	ug/L		.0033	.00667	
Bis(2-Ethylhexyl)Phthalate	.0998	ug/L		.0033	.00667	
Di-N-Octyl Phthalate		ug/L	<MDL	.005	.01	
Benzo(b)fluoranthene	.0714	ug/L		.005	.01	
Benzo(k)fluoranthene	.0759	ug/L		.005	.01	
Benzo(a)pyrene	.0591	ug/L		.005	.01	
Indeno(1,2,3-Cd)Pyrene	.042	ug/L		.005	.01	
Dibenzo(a,h)anthracene	.0435	ug/L		.005	.01	
Benzo(g,h,i)perylene	.0409	ug/L		.005	.01	
2-Methylnaphthalene		ug/L	<MDL	.005	.01	
d14-Terphenyl	.166	ug/L		.0033	.00667	
D6-Dimethyl Phthalate	.026	ug/L		.0033	.00667	
D8-Acenaphthylene	.0292	ug/L		.0033	.00667	
D10-Fluorene	.0411	ug/L		.0033	.00667	
D10-Anthracene	.0442	ug/L		.0033	.00667	
D10-Pyrene	.0538	ug/L		.0033	.00667	
D12-Benzo(a)pyrene	.0527	ug/L		.0033	.00667	
Amount Analyzed	6000	ml				
Standard Amount	1000	ml				
Dilution Factor	1	none				
Date Analyzed						16-JAN-07
Operator ID						Dave Fada
Porthandler File						/usr/users/seed2/METROS3/files/gcms/WG89548-4.rp
Instrument ID						6890n.i
Prep Date						11-DEC-06

SURROGATE RECOVERY INFORMATION

Parameter	% Rec	Lab Limits
d14-Terphenyl	80	33-141
D6-Dimethyl Phthalate	31	0-150
D8-Acenaphthylene	35	0-150
D10-Fluorene	49	0-150
D10-Anthracene	53	0-150
D10-Pyrene	65	0-150
D12-Benzo(a)pyrene	63	0-150

KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab Review Report - 01/17/07 10:29 - Data Source: ELD

Sample#: WG89548-5	Matrix:	BLANK WTR	List Type:	ORPHPAHSOURCE	
	Project:		Run ID:	R118220	Col. Date:
	Locator:	MB	Work Group:	WG89548	Rec. Date: 18-DEC-06
	Site:	NONE	QC Type:	MB	Due Date:
	Method Code:	8270B			

Parameter	Value	Units	Valq	Mdl	Rdl	Textvalue
Naphthalene		ug/L	<MDL	.0067	.0133	
Acenaphthylene		ug/L	<MDL	.0033	.00667	
Dimethyl Phthalate		ug/L	<MDL	.0033	.00667	
Acenaphthene		ug/L	<MDL	.0033	.00667	
Fluorene		ug/L	<MDL	.0033	.00667	
Diethyl Phthalate		ug/L	<MDL	.005	.01	
Phenanthrene		ug/L	<MDL	.0033	.00667	
Anthracene		ug/L	<MDL	.0033	.00667	
Di-N-Butyl Phthalate	.0151	ug/L	B	.0033	.00667	
Fluoranthene		ug/L	<MDL	.0033	.00667	
Pyrene		ug/L	<MDL	.0033	.00667	
Benzyl Butyl Phthalate	.00712	ug/L	B	.0033	.00667	
Benzo(a)anthracene		ug/L	<MDL	.0033	.00667	
Chrysene		ug/L	<MDL	.0033	.00667	
Bis(2-Ethylhexyl)Phthalate	.0251	ug/L	B	.0033	.00667	
Di-N-Octyl Phthalate		ug/L	<MDL	.005	.01	
Benzo(b)fluoranthene		ug/L	<MDL	.005	.01	
Benzo(k)fluoranthene		ug/L	<MDL	.005	.01	
Benzo(a)pyrene		ug/L	<MDL	.005	.01	
Indeno(1,2,3-Cd)Pyrene		ug/L	<MDL	.005	.01	
Dibenzo(a,h)anthracene		ug/L	<MDL	.005	.01	
Benzo(g,h,i)perylene		ug/L	<MDL	.005	.01	
2-Methylnaphthalene		ug/L	<MDL	.005	.01	
d14-Terphenyl	.182	ug/L		.0033	.00667	
D6-Dimethyl Phthalate	.0232	ug/L		.0033	.00667	
D8-Acenaphthylene	.0315	ug/L		.0033	.00667	
D10-Fluorene	.039	ug/L		.0033	.00667	
D10-Anthracene	.0458	ug/L		.0033	.00667	
D10-Pyrene	.0548	ug/L		.0033	.00667	
D12-Benzo(a)pyrene	.0565	ug/L		.0033	.00667	
Amount Analyzed	6000	ml				
Standard Amount	1000	ml				
Dilution Factor	1	none				
Date Analyzed						16-JAN-07
Operator ID						Dave Fada
Porthandler File						/usr/users/seed2/METROS3/files/gcms/WG89548-5.rp
Instrument ID						6890n.1
Prep Date						11-DEC-06

SURROGATE RECOVERY INFORMATION

Parameter	% Rec	Lab Limits
d14-Terphenyl	87	33-141
D6-Dimethyl Phthalate	28	0-150
D8-Acenaphthylene	38	0-150
D10-Fluorene	47	0-150
D10-Anthracene	55	0-150
D10-Pyrene	66	0-150
D12-Benzo(a)pyrene	68	0-150

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SEA421697

KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab Review Report - 01/17/07 10:29 - Data Source: ELD

Sample#: L41257-1	Matrix:	STORM WTR	List Type:	ORPHPAHSOURCE	
	Project:	423589-090-1	Run ID:	R118220	Col. Date: 05-DEC-06
	Locator:	BWR	Work Group:	WG89548	Rec. Date: 05-DEC-06
	Site:	METRO	QC Type:		Due Date: 04-JAN-07
	Method Code:	8270B			

Parameter	Value	Units	Valq	Mdl	Rdl	Textvalue
Naphthalene	.011	ug/L	<RDL	.0073	.0146	
Acenaphthylene	.00781	ug/L		.0037	.00731	
Dimethyl Phthalate	.0064	ug/L	<RDL	.0037	.00731	
Acenaphthene		ug/L	<MDL	.0037	.00731	
Fluorene	.0098	ug/L		.0037	.00731	
Diethyl Phthalate	.051	ug/L		.0055	.011	
Phenanthrene	.024	ug/L		.0037	.00731	
Anthracene		ug/L	<MDL	.0037	.00731	
Di-N-Butyl Phthalate	.0537	ug/L		.0037	.00731	
Fluoranthene	.016	ug/L		.0037	.00731	
Pyrene	.0135	ug/L		.0037	.00731	
Benzyl Butyl Phthalate	.0541	ug/L		.0037	.00731	
Benzo(a)anthracene		ug/L	<MDL	.0037	.00731	
Chrysene	.00754	ug/L		.0037	.00731	
Bis(2-Ethylhexyl)Phthalate	.323	ug/L		.0037	.00731	
Di-N-Octyl Phthalate		ug/L	<MDL	.0055	.011	
Benzo(b)fluoranthene	.0075	ug/L	<RDL	.0055	.011	
Benzo(k)fluoranthene		ug/L	<MDL	.0055	.011	
Benzo(a)pyrene		ug/L	<MDL	.0055	.011	
Indeno(1,2,3-Cd)Pyrene		ug/L	<MDL	.0055	.011	
Dibenzo(a,h)anthracene		ug/L	<MDL	.0055	.011	
Benzo(g,h,i)perylene	.0072	ug/L	<RDL	.0055	.011	
2-Methylnaphthalene	.0089	ug/L	<RDL	.0055	.011	
d14-Terphenyl	.196	ug/L		.0037	.00731	
D6-Dimethyl Phthalate	.0466	ug/L		.0037	.00731	
D8-Acenaphthylene	.0069	ug/L	<RDL	.0037	.00731	
D10-Fluorene	.0264	ug/L		.0037	.00731	
D10-Anthracene	.00944	ug/L		.0037	.00731	
D10-Pyrene	.0709	ug/L		.0037	.00731	
D12-Benzo(a)pyrene	.0711	ug/L		.0037	.00731	
Amount Analyzed	5470	ml				
Standard Amount	1000	ml				
Dilution Factor	1	none				
Date Analyzed						16-JAN-07
Operator ID						Dave Fada
Porthandler File						/usr/users/seed2/METROS3/files/gcms/L41257-1.rp
Instrument ID						6890n.i
Prep Date						11-DEC-06

SURROGATE RECOVERY INFORMATION

Parameter	% Rec	Lab Limits
d14-Terphenyl	86	33-141
D6-Dimethyl Phthalate	51	0-150
D8-Acenaphthylene	8 *	0-150
D10-Fluorene	29	0-150
D10-Anthracene	10	0-150
D10-Pyrene	78	0-150
D12-Benzo(a)pyrene	78	0-150

KCSlip4 55370

SEA421698

KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab Review Report - 01/17/07 10:29 - Data Source: ELD

Sample#: L41257-2	Matrix:	STORM WTR	List Type:	ORPHPAHSOURCE	
	Project:	423589-090-1	Run ID:	R118220	Col. Date: 05-DEC-06
	Locator:	CER	Work Group:	WG89548	Rec. Date: 05-DEC-06
	Site:	METRO	QC Type:		Due Date: 04-JAN-07
	Method Code:	8270B			

Parameter	Value	Units	Valq	Mdl	Rdl	Textvalue
Naphthalene	.0136	ug/L		.0063	.0126	
Acenaphthylene	.00696	ug/L		.0031	.00628	
Dimethyl Phthalate	.0052	ug/L	<RDL	.0031	.00628	
Acenaphthene	.0034	ug/L	<RDL	.0031	.00628	
Fluorene	.012	ug/L		.0031	.00628	
Diethyl Phthalate	.0387	ug/L		.0047	.00942	
Phenanthrene	.0529	ug/L		.0031	.00628	
Anthracene		ug/L	<MDL	.0031	.00628	
Di-N-Butyl Phthalate	.0891	ug/L		.0031	.00628	
Fluoranthene	.0374	ug/L		.0031	.00628	
Pyrene	.0339	ug/L		.0031	.00628	
Benzyl Butyl Phthalate	.0609	ug/L		.0031	.00628	
Benzo(a)anthracene	.004	ug/L	<RDL	.0031	.00628	
Chrysene	.0134	ug/L		.0031	.00628	
Bis(2-Ethylhexyl)Phthalate	.328	ug/L		.0031	.00628	
Di-N-Octyl Phthalate		ug/L	<MDL	.0047	.00942	
Benzo(b)fluoranthene	.00954	ug/L		.0047	.00942	
Benzo(k)fluoranthene	.0074	ug/L	<RDL	.0047	.00942	
Benzo(a)pyrene		ug/L	<MDL	.0047	.00942	
Indeno(1,2,3-Cd)Pyrene	.0058	ug/L	<RDL	.0047	.00942	
Dibenzo(a,h)anthracene		ug/L	<MDL	.0047	.00942	
Benzo(g,h,i)perylene	.009	ug/L	<RDL	.0047	.00942	
2-Methylnaphthalene	.0122	ug/L		.0047	.00942	
d14-Terphenyl	.203	ug/L		.0031	.00628	
D6-Dimethyl Phthalate	.0211	ug/L		.0031	.00628	
D8-Acenaphthylene		ug/L	<MDL	.0031	.00628	
D10-Fluorene	.00635	ug/L		.0031	.00628	
D10-Anthracene		ug/L	<MDL	.0031	.00628	
D10-Pyrene	.0489	ug/L		.0031	.00628	
D12-Benzo(a)pyrene	.0635	ug/L		.0031	.00628	
Amount Analyzed	6370	ml				
Standard Amount	1000	ml				
Dilution Factor	1	none				
Date Analyzed						16-JAN-07
Operator ID						Dave Fada
Porthandler File						/usr/users/seed2/METROS3/files/gcms/L41257-2.rp
Instrument ID						6890n.1
Prep Date						11-DEC-06

SURROGATE RECOVERY INFORMATION

Parameter	% Rec		Lab Limits
d14-Terphenyl	104		33-141
D6-Dimethyl Phthalate	27		0-150
D8-Acenaphthylene	0	*	0-150
D10-Fluorene	8	*	0-150
D10-Anthracene	0	*	0-150
D10-Pyrene	62		0-150
D12-Benzo(a)pyrene	81		0-150

KCSlip4 55371

SEA421699

KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab Review Report - 01/18/07 07:10 - Data Source: ELD

Sample#: L41257-3	Matrix: STORM WTR	List Type: ORPHPAHSOURCE			
	Project: 423589-090-1	Run ID: R118220	Col. Date:	05-DEC-06	
	Locator: DZ	Work Group: WG89548	Rec. Date:	05-DEC-06	
	Site: METRO	QC Type:	Due Date:	04-JAN-07	
	Method Code: 8270B				

Parameter	Value	Units	Valq	Mdl	Rdl	Textvalue
Naphthalene	.0152	ug/L		.0066	.0131	
Acenaphthylene	.00774	ug/L		.0033	.00656	
Dimethyl Phthalate	.0108	ug/L		.0033	.00656	
Acenaphthene		ug/L	<MDL	.0033	.00656	
Fluorene	.0114	ug/L		.0033	.00656	
Diethyl Phthalate	.0496	ug/L		.0049	.00984	
Phenanthrene	.0349	ug/L		.0033	.00656	
Anthracene		ug/L	<MDL	.0033	.00656	
Di-N-Butyl Phthalate	.0699	ug/L		.0033	.00656	
Fluoranthene	.0246	ug/L		.0033	.00656	
Pyrene	.0225	ug/L		.0033	.00656	
Benzyl Butyl Phthalate	.0481	ug/L		.0033	.00656	
Benzo(a)anthracene	.0041	ug/L	<RDL	.0033	.00656	
Chrysene	.0115	ug/L		.0033	.00656	
Bis(2-Ethylhexyl)Phthalate	.151	ug/L		.0033	.00656	
Di-N-Octyl Phthalate		ug/L	<MDL	.0049	.00984	
Benzo(b)fluoranthene	.009	ug/L	<RDL	.0049	.00984	
Benzo(k)fluoranthene	.0067	ug/L	<RDL	.0049	.00984	
Benzo(a)pyrene		ug/L	<MDL	.0049	.00984	
Indeno(1,2,3-Cd)Pyrene	.0061	ug/L	<RDL	.0049	.00984	
Dibenzo(a,h)anthracene		ug/L	<MDL	.0049	.00984	
Benzo(g,h,i)perylene	.0087	ug/L	<RDL	.0049	.00984	
2-Methylnaphthalene	.0121	ug/L		.0049	.00984	
d14-Terphenyl	.196	ug/L		.0033	.00656	
D6-Dimethyl Phthalate	.0338	ug/L		.0033	.00656	
D8-Acenaphthylene		ug/L	<MDL	.0033	.00656	
D10-Fluorene		ug/L	<MDL	.0033	.00656	
D10-Anthracene		ug/L	<MDL	.0033	.00656	
D10-Pyrene	.0177	ug/L		.0033	.00656	
D12-Benzo(a)pyrene	.0297	ug/L		.0033	.00656	
Amount Analyzed	6100	ml				
Standard Amount	1000	ml				
Dilution Factor	1	none				
Date Analyzed						16-JAN-07
Operator ID						Dave Fada
Porthandler File						/usr/users/seed2/METROS3/files/gcms/L41257-3.rp
Instrument ID						6890n.1
Prep Date						11-DEC-06

SURROGATE RECOVERY INFORMATION

Parameter	% Rec		Lab Limits
d14-Terphenyl	96		33-141
D6-Dimethyl Phthalate	41		0-150
D8-Acenaphthylene	0	*	0-150
D10-Fluorene	0	*	0-150
D10-Anthracene	0	*	0-150
D10-Pyrene	22		0-150
D12-Benzo(a)pyrene	36		0-150

KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab Review Report - 01/17/07 10:29 - Data Source: ELD

Sample#: L41257-4	Matrix: STORM WTR	List Type: ORPHPAHSOURCE			
	Project: 423589-090-1	Run ID: R118220	Col. Date:	05-DEC-06	
	Locator: KCIA	Work Group: WG89548	Rec. Date:	05-DEC-06	
	Site: METRO	QC Type:	Due Date:	04-JAN-07	
	Method Code: 8270B				

Parameter	Value	Units	Valq	Mdl	Rdl	Textvalue
Naphthalene	.019	ug/L		.0071	.0142	
Acenaphthylene	.0128	ug/L		.0036	.00712	
Dimethyl Phthalate	.00875	ug/L		.0036	.00712	
Acenaphthene	.00871	ug/L		.0036	.00712	
Fluorene	.0233	ug/L		.0036	.00712	
Diethyl Phthalate	.0811	ug/L		.0053	.0107	
Phenanthrene	.225	ug/L		.0036	.00712	
Anthracene	.0173	ug/L		.0036	.00712	
Di-N-Butyl Phthalate	.115	ug/L		.0036	.00712	
Fluoranthene	.386	ug/L		.0036	.00712	
Pyrene	.334	ug/L		.0036	.00712	
Benzyl Butyl Phthalate	.0432	ug/L		.0036	.00712	
Benzo(a)anthracene	.108	ug/L		.0036	.00712	
Chrysene	.201	ug/L		.0036	.00712	
Bis(2-Ethylhexyl)Phthalate	.137	ug/L		.0036	.00712	
Di-N-Octyl Phthalate		ug/L	<MDL	.0053	.0107	
Benzo(b)fluoranthene	.21	ug/L		.0053	.0107	
Benzo(k)fluoranthene	.143	ug/L		.0053	.0107	
Benzo(a)pyrene	.131	ug/L		.0053	.0107	
Indeno(1,2,3-Cd)Pyrene	.149	ug/L		.0053	.0107	
Dibenzo(a,h)anthracene	.0507	ug/L		.0053	.0107	
Benzo(g,h,i)perylene	.166	ug/L		.0053	.0107	
2-Methylnaphthalene	.0136	ug/L		.0053	.0107	
d14-Terphenyl	.216	ug/L		.0036	.00712	
D6-Dimethyl Phthalate	.0397	ug/L		.0036	.00712	
D8-Acenaphthylene		ug/L	<MDL	.0036	.00712	
D10-Fluorene	.0048	ug/L	<RDL	.0036	.00712	
D10-Anthracene		ug/L	<MDL	.0036	.00712	
D10-Pyrene	.0518	ug/L		.0036	.00712	
D12-Benzo(a)pyrene	.0327	ug/L		.0036	.00712	
Amount Analyzed	5620	ml				
Standard Amount	1000	ml				
Dilution Factor	1	none				
Date Analysed						16-JAN-07
Operator ID						Dave Fada
Porthandler File						/usr/users/seed2/METROS3/files/gcms/L41257-4.rp
Instrument ID						6890n.i
Prep Date						11-DEC-06

SURROGATE RECOVERY INFORMATION

Parameter	% Rec		Lab Limits
d14-Terphenyl	97		33-141
D6-Dimethyl Phthalate	45		0-150
D8-Acenaphthylene	0	*	0-150
D10-Fluorene	5	*	0-150
D10-Anthracene	0	*	0-150
D10-Pyrene	58		0-150
D12-Benzo(a)pyrene	37		0-150

KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab Review Report - 01/17/07 10:29 - Data Source: ELD

Sample#: L41257-5	Matrix:	STORM WTR	List Type:	ORPHPAHSOURCE	
	Project:	423589-090-1	Run ID:	R118220	Col. Date: 05-DEC-06
	Locator:	SPCC	Work Group:	WG89548	Rec. Date: 05-DEC-06
	Site:	METRO	QC Type:		Due Date: 04-JAN-07
	Method Code:	8270B			

Parameter	Value	Units	Valq	Mdl	Rdl	Textvalue
Naphthalene	.013	ug/L	<RDL	.0067	.0134	
Acenaphthylene	.00873	ug/L		.0033	.00669	
Dimethyl Phthalate	.00895	ug/L		.0033	.00669	
Acenaphthene		ug/L	<MDL	.0033	.00669	
Fluorene	.0147	ug/L		.0033	.00669	
Diethyl Phthalate	.0474	ug/L		.005	.01	
Phenanthrene	.0319	ug/L		.0033	.00669	
Anthracene		ug/L	<MDL	.0033	.00669	
Di-N-Butyl Phthalate	.0585	ug/L		.0033	.00669	
Fluoranthene	.0215	ug/L		.0033	.00669	
Pyrene	.0209	ug/L		.0033	.00669	
Benzyl Butyl Phthalate	.0557	ug/L		.0033	.00669	
Benzo(a)anthracene	.0045	ug/L	<RDL	.0033	.00669	
Chrysene	.0109	ug/L		.0033	.00669	
Bis(2-Ethylhexyl)Phthalate	.113	ug/L	B	.0033	.00669	
Di-N-Octyl Phthalate		ug/L	<MDL	.005	.01	
Benzo(b)fluoranthene	.0095	ug/L	<RDL	.005	.01	
Benzo(k)fluoranthene	.008	ug/L	<RDL	.005	.01	
Benzo(a)pyrene		ug/L	<MDL	.005	.01	
Indeno(1,2,3-Cd)Pyrene	.0064	ug/L	<RDL	.005	.01	
Dibenzo(a,h)anthracene		ug/L	<MDL	.005	.01	
Benzo(g,h,i)perylene	.0073	ug/L	<RDL	.005	.01	
2-Methylnaphthalene	.0087	ug/L	<RDL	.005	.01	
d14-Terphenyl	.209	ug/L		.0033	.00669	
D6-Dimethyl Phthalate	.0399	ug/L		.0033	.00669	
D8-Acenaphthylene		ug/L	<MDL	.0033	.00669	
D10-Fluorene	.00968	ug/L		.0033	.00669	
D10-Anthracene		ug/L	<MDL	.0033	.00669	
D10-Pyrene	.0596	ug/L		.0033	.00669	
D12-Benzo(a)pyrene	.0544	ug/L		.0033	.00669	
Amount Analyzed	5980	ml				
Standard Amount	1000	ml				
Dilution Factor	1	none				
Date Analyzed						15-JAN-07
Operator ID						Dave Fada
Porthandler File						/usr/users/seed2/METROS3/files/gcms/L41257-5.rp
Instrument ID						6890n.1
Prep Date						11-DEC-06

SURROGATE RECOVERY INFORMATION

Parameter	% Rec		Lab Limits
d14-Terphenyl	100		33-141
D6-Dimethyl Phthalate	48		0-150
D8-Acenaphthylene	0	*	0-150
D10-Fluorene	12		0-150
D10-Anthracene	0	*	0-150
D10-Pyrene	71		0-150
D12-Benzo(a)pyrene	65		0-150

KCSlip4 55374

SEA421702

KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab Review Report - 01/17/07 10:29 - Data Source: ELD

Sample#: L41258-1	Matrix: BLANK WTR	List Type: ORPHPAHSOURCE			
	Project: 423589-090-1	Run ID: R118220	Col. Date:	04-DEC-06	
	Locator: BWR	Work Group: WG89548	Rec. Date:	04-DEC-06	
	Site: METRO	QC Type:	Due Date:	03-JAN-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		ug/L	<MDL	.015	.03	
Phenanthrene		ug/L	<MDL	.01	.02	
Anthracene		ug/L	<MDL	.01	.02	
Di-N-Butyl Phthalate	.0396	ug/L	B	.01	.02	
Fluoranthene		ug/L	<MDL	.01	.02	
Pyrene		ug/L	<MDL	.01	.02	
Benzyl Butyl Phthalate	.023	ug/L	B	.01	.02	
Benzo(a)anthracene		ug/L	<MDL	.01	.02	
Chrysene		ug/L	<MDL	.01	.02	
Bis(2-Ethylhexyl)Phthalate	.0805	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	.595	ug/L		.01	.02	
D6-Dimethyl Phthalate	.174	ug/L		.01	.02	
D8-Acenaphthylene	.113	ug/L		.01	.02	
D10-Fluorene	.149	ug/L		.01	.02	
D10-Anthracene	.148	ug/L		.01	.02	
D10-Pyrene	.169	ug/L		.01	.02	
D12-Benzo(a)pyrene	.17	ug/L		.01	.02	
Amount Analyzed	2000	ml				
Standard Amount	1000	ml				
Dilution Factor	1	none				
Date Analyzed						16-JAN-07
Operator ID						Dave Fada
Porthandler File						/usr/users/seed2/METROS3/file s/gcms/L41258-1.rp
Instrument ID						6890n 1
Prep Date						11-DEC-06

SURROGATE RECOVERY INFORMATION

Parameter	% Rec	Lab Limits
d14-Terphenyl	95	33-141
D6-Dimethyl Phthalate	70	0-150
D8-Acenaphthylene	45	0-150
D10-Fluorene	60	0-150
D10-Anthracene	59	0-150
D10-Pyrene	67	0-150
D12-Benzo(a)pyrene	68	0-150

KCSlip4 55375

SEA421703

King County Environmental Laboratory

WORK GROUP REPORT (wk02)

Jan 18 2007, 01:39 pm

Work Group: WG89549 (BL#680 PCBLL) for Department: 7 - Organics, Trace

Created: 18-DEC-06 PrepDate: 11-DEC-06 Due: Operator: JG

Sample	Project Number	Project Description	PKey	C	Product	Matrix	Stat	UA	Workdate	Duedate
L41257-1	423589-090-1	Lower Duwamish Phthalate Studies	S		PCBLL	STORM WTR	PREP	U	12-DEC-06	04-JAN-07
L41257-2	423589-090-1	Lower Duwamish Phthalate Studies	S		PCBLL	STORM WTR	PREP	U	12-DEC-06	04-JAN-07
L41257-3	423589-090-1	Lower Duwamish Phthalate Studies	S		PCBLL	STORM WTR	PREP	U	12-DEC-06	04-JAN-07
L41257-4	423589-090-1	Lower Duwamish Phthalate Studies	S		PCBLL	STORM WTR	PREP	U	12-DEC-06	04-JAN-07
L41257-5	423589-090-1	Lower Duwamish Phthalate Studies	S		PCBLL	STORM WTR	PREP	U	12-DEC-06	04-JAN-07
WG89549-1	SB		S		PCBLL	BLANK WTR	PREP	U	18-DEC-06	
WG89549-2	MB		S		PCBLL	BLANK WTR	PREP	U	18-DEC-06	
WG89549-4	SBD		S		PCBLL	BLANK WTR	PREP	U	18-DEC-06	
WG89549-5	MB		S		PCBLL	BLANK WTR	PREP	U	18-DEC-06	

Comments:

L41257-1	carboys
L41257-2	carboys
L41257-3	carboys
L41257-4	carboys
L41257-5	carboys
WG89549-1	WG89549-2
WG89549-2	MB061211 6L
WG89549-4	WG89549-1 WG89549-5
WG89549-5	MB061212 6L

KCSlip4 55376

SEA421704

Trace Organics Data Anomaly Form

Date(s) Occurred: *01-19-07*

WG #(s): *WG89549*

☒ **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	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:
15 ☐ Insufficient sample amount.
16 ☐ Inappropriate storage, container or preservation.
17 ☒ Other

Anomaly Description: *17. Not all congeners for aroclor 1016 were confirmed in SBs (WG89549-1, 4).*

IV. Type of Project Anomaly

☐ SAP/Work Plan specified MDLs not met.

Rand 15 Samples
Rand 16 Rinse Blank

LIQUID SAMPLE EXTRACTION RECORD FOR BNA ANALYSIS
TRACE ORGANICS LABORATORY

Acetone Lot # 064335
MeCL2 Lot # CR332
QC BATCH NO.: BL # 680
EPA SW-846 EXTRACTION METHOD:
CONT. L-L EPA 3520 SEP. FUNNEL EPA 3510

PHPAHSOURCE/PCBLL via SPE

WORKGROUP NO.: {PHPAHSOURCE = WG89548 / PCBLL = WG89549}
BNA SURROGATE SPIKE: 1315 + 1205 (DMCs) or 1343 (DMCs)
BNA MATRIX SPIKE: 1246

1217 or
PCB FieldSurr = 1344
PCB HouseSurr = 1216
PCB MSLL = 1261

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 12/11/06	WG89548-1 WG89549-1	QC	SB		6	6000	1343-25µl 1315-100µl 1344-100µl 1216-100µl 1246-50 1261-100	1.0	JG JG	01/15/07 01/18/07	30ml MeOH	31.7
	WG89548-2 WG89549-2	QC	MB1		6	6000	1343-25µl 1315-100µl 1344-100µl 1216-100µl	1.0	JG JG	01/15/07 01/18/07	30ml MeOH	32.5
01/07	* ~~WG89548-3~~ ~~WG89549-3~~	QC	MB		6	2000	1343-25µl 1315-100µl 1344-100µl 1216-100µl	1.0	JG	01/15/07	10ml MeOH No beaker for transfer. *WG89549-3 deleted because Rand 16 contents overflowed so no Rinse Blank PCBLL needed.	9.6
1/15/07	L41258-1	423589-090-001	BLWR-BK-120406-120406 ~~BLWR-BK-112006-112006~~ Lower Duwamish Phthalate		6	2800	1343-25µl 1315-100µl 1344-100µl 1216-100µl	1.0	JG	01/15/07	10ml MeOH No beaker for transfer.	10.7
	L41257-4	423589-090-001	Lower Duwamish Phthalate KCJA-01-112106-120506		5	5620	1205-25µl 1315-100µl 1217-100µl 1216-100µl	1.0	JG JG	01/15/07 01/18/07	30ml MeOH * Std 1205 and 1217 spiked pre-deployment for L41257-4.	39.8
	L41257-5	423589-090-001	Lower Duwamish Phthalate SPCC-01-112106-120506		5	5980	1205-25µl 1315-100µl 1217-100µl 1216-100µl	1.0	JG JG	01/15/07 01/18/07	30ml MeOH * Std 1205 and 1217 spiked pre-deployment for L41257-5	31.2
JG 12/12/06	WG89548-4 WG89549-4	QC	SBD		6	6000	1343-25µl 1315-100µl 1344-100µl 1216-100µl 1246-50µl 1261-100µl	1.0	JG JG	01/15/07 01/18/07	30ml MeOH	30.8
	WG89548-5 WG89549-5	QC	MB2		6	6000	1343-25µl 1315-100µl 1344-100µl 1216-100µl	1.0	JG JG	01/15/07 01/18/07	30ml MeOH	34.3
	L41257-3	423589-090-001	Lower Duwamish Phthalate DZ-01-112106-120506		5	6100	1205-25µl 1315-100µl 1217-100µl 1216-100µl	1.0	JG JG	01/15/07 01/18/07	30ml MeOH * Std 1205 & 1217 spiked pre-deployment	34.6
	L41257-2	423589-090-001	Lower Duwamish Phthalate UER-01-112106-120506		6	6370	↓	1.0	JG	01/15/07	31ml MeOH * Std 1205 & 1217 spiked pre-deployment.	35.3
	L41257-1	423589-090-001	Lower Duwamish Phthalate BWR-01-112106-120506		5	5470	↓	1.0	JG JG	01/15/07 01/18/07	28ml MeOH * Std 1205 & 1217 spiked pre-deployment	38.7

All samples on 12/11/06 and 12/12/06 processed with SPE Lot # C03N14
All samples for PCBLL cleaned via alumina and H_2SO_4.

KCSlip4 55378
SEA421706

KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab QC Report - 01/22/07 10:52
Run ID: R118284 Workgroup: WG89549 (BL#680 PCBLL)

SBD:WG89549-4 SB:WG89549-1 MB:WG89549-2 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	LabLimit
Aroclor 1016	.0083	.0167	ug/L	<MDL	0.0500	.0407	81		65-129	0.0500	.0374	75		65-129	8		
Aroclor 1260	.0083	.0167	ug/L	<MDL	0.0500	.0363	73		72-128	0.0500	.0358	74		72-128	1		

MB:WG89549-2 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	.0083	.0167	ug/L	<MDL	
Aroclor 1221	.0083	.0167	ug/L	<MDL	
Aroclor 1232	.0083	.0167	ug/L	<MDL	
Aroclor 1242	.0083	.0167	ug/L	<MDL	
Aroclor 1248	.0083	.0167	ug/L	<MDL	
Aroclor 1254	.0083	.0167	ug/L	<MDL	
Aroclor 1260	.0083	.0167	ug/L	<MDL	

MB:WG89549-5 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	.0083	.0167	ug/L	<MDL	
Aroclor 1221	.0083	.0167	ug/L	<MDL	
Aroclor 1232	.0083	.0167	ug/L	<MDL	
Aroclor 1242	.0083	.0167	ug/L	<MDL	
Aroclor 1248	.0083	.0167	ug/L	<MDL	
Aroclor 1254	.0083	.0167	ug/L	<MDL	
Aroclor 1260	.0083	.0167	ug/L	<MDL	

KCSlip4 55379
SEA421707

Sample # (Lab Limits)	Decachlorobiph 12-158	2,4,5,6-Tetrachloro-m-xylene 10-118
L41257-1	84	61
L41257-2	83	48
L41257-3	82	51
L41257-4	81	51
L41257-5	83	48
WG89549-1	49	23
WG89549-2	60	26
WG89549-4	69	16
WG89549-5	82	20

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 55380
SEA421708

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	1/19/2007 10:20	1	0	1										S:\MSDCHEM\1\DATA\070119\
BLANK-01.D	blank	1/19/2007 10:57	2	0	1										S:\MSDCHEM\1\DATA\070119\
PCB-01.D	1218D 1016/1260 500/50	1/19/2007 11:33	3	0	1	12.601	538410550	19.632	956748271	16.720	80512360	26.578	83511338		S:\MSDCHEM\1\DATA\070119\
PCB-02.D	1209.2 1248 500/50	1/19/2007 12:10	4	0	1	12.603	546880262	19.634	864500789	16.721	83489732	26.578	88061146		S:\MSDCHEM\1\DATA\070119\
PCB-03.D	1210.1 1254 500/50	1/19/2007 12:46	5	0	1	12.604	702548311	19.621	1394410874	16.722	109164062	26.578	107629786		S:\MSDCHEM\1\DATA\070119\
PCB-04.D	1206.1 1221 500/50	1/19/2007 13:23	6	0	1	12.604	564948987	19.635	984783710	16.723	84149083	26.578	88482739		S:\MSDCHEM\1\DATA\070119\
PCB-05.D	1207.1 1232 500/50	1/19/2007 14:00	7	0	1	12.606	536730973	19.636	1039643470	16.722	96855386	26.579	99910211		S:\MSDCHEM\1\DATA\070119\
PCB-06.D	1208.1 1242 500/50	1/19/2007 14:36	8	0	1	12.607	530839329	19.637	1025534707	16.723	94349008	26.581	98227407		S:\MSDCHEM\1\DATA\070119\
WG89549-1.D	SB	1/19/2007 15:13	9	6000	1	12.607	537401298	19.639	888369440	16.723	77134561	26.577	85659615	BL680 PCBLL DUWAMISH PHTHALATES	S:\MSDCHEM\1\DATA\070119\
WG89549-2.D	MB	1/19/2007 15:49	10	6000	1	12.606	548155976	19.638	914978308	16.723	77957987	26.580	83230265	BL680 PCBLL DUWAMISH PHTHALATES	S:\MSDCHEM\1\DATA\070119\
WG89549-4.D	SBD	1/19/2007 16:26	11	6000	1	12.606	548459083	19.639	944182432	16.723	78651218	26.579	83131887	BL680 PCBLL DUWAMISH PHTHALATES	S:\MSDCHEM\1\DATA\070119\
WG89549-5.D	MB	1/19/2007 17:03	12	6000	1	12.607	539562834	[illegible]	913789151	16.723	7801[illegible]92	26.579	85046468	BL680 PCBLL DUWAMISH PHTHALATES	S:\MSDCHEM\1\DATA\070119\
L41257-1.D	L41257-1	1/19/2007 17:3[illegible]	13	5610	1	12.606	334410066	[illegible]	912265050	16.723	7529[illegible]36	26.[illegible]	87[illegible]1393	BL680 PCBLL DUWAMISH PHTHALATES	S:\MSDCHEM\1\DATA\070119\
L41257-2.D	L41257-2	1/19/2007 [illegible]	14	5610	1	12.607	[illegible]930073	[illegible]642	[illegible]05130	16.721	[illegible]	26.[illegible]	81[illegible]221	BL680 PCBLL DUWAMISH PHTHALATES	S:\MSDCHEM\1\DATA\070119\
L41257-3.D	L41257-3	1/19/2007 18:53	15	6100	1	12.607	506279998	19.640	865521329	16.724	72748798	26.560	84630228	BL680 PCBLL DUWAMISH PHTHALATES	S:\MSDCHEM\1\DATA\070119\
L41257-4.D	L41257-4	1/19/2007 19:29	16	5610	1	12.609	[illegible]870265	[illegible]644	840910348	16.722	7724[illegible]15	26.579	84125888	BL680 PCBLL DUWAMISH PHTHALATES	S:\MSDCHEM\1\DATA\070119\
L41257-5.D	L41257-5	1/19/2007 20:[illegible]	17	5610	1	12.609	488927771	19.643	820202139	16.725	7230[illegible]29	26.583	83787570	BL680 PCBLL DUWAMISH PHTHALATES	S:\MSDCHEM\1\DATA\070119\
BLANK-02.D	blank	1/19/2007 20:43	2	0	1										S:\MSDCHEM\1\DATA\070119\
PCB-07.D	1218D 1016/1260 500/50	1/19/2007 21:19	3	0	1	12.609	545576607	19.645	969510382	16.723	82016652	26.577	84900455		S:\MSDCHEM\1\DATA\070119\
PCB-08.D	1209.2 1248 500/50	1/19/2007 21:56	4	0	1	12.611	543577093	19.644	903407815	16.725	82797090	26.581	84161308		S:\MSDCHEM\1\DATA\070119\
					Ave.	12.606	554088735	19.638	947298309	16.723	82233050	26.579	86293479		
					Std. Dev.	0.002	54805525	0.008	129688574	0.001	9617790	0.002	6931869		
					%RSD		10%		14%		12%		8%		

KCSlip4 55381
SEA421709

KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab Review Report - 01/22/07 11:30 - Data Source; ELD

Sample#: WG89549-1	Matrix:	BLANK WTR	List Type:	ORPCBLL	
	Project:		Run ID:	R118284	Col. Date:
	Locator:	SB	Work Group:	WG89549	Rec. Date: 18-DEC-06
	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	.0407	ug/L		.0083	.0167	
Aroclor 1221		ug/L	<MDL	.0083	.0167	
Aroclor 1232		ug/L	<MDL	.0083	.0167	
Aroclor 1242		ug/L	<MDL	.0083	.0167	
Aroclor 1248		ug/L	<MDL	.0083	.0167	
Aroclor 1254		ug/L	<MDL	.0083	.0167	
Aroclor 1260	.0363	ug/L		.0083	.0167	
Decachlorobiphenyl	.00825	ug/L		.00083	.00167	
2,4,5,6-Tetrachloro-m-xylene	.00389	ug/L		.00083	.00167	
Amount Analyzed	6000	ml				
Standard Amount	1	ml				
Dilution Factor	1	none				
Date Analyzed						19-JAN-07
Operator ID						JSF
Porthandler File						/usr/users/seed2/METROS3/files/gc/wg89549.txt
Instrument ID						HP6890ECD-F
Prep Date						11-DEC-06

SURROGATE RECOVERY INFORMATION

Parameter	% Rec	Lab Limits
Decachlorobiphenyl	49	12-158
2,4,5,6-Tetrachloro-m-xylene	23	10-118

KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab Review Report - 01/22/07 11:30 - Data Source: ELD

Sample#: WG89549-2	Matrix:	BLANK WTR	List Type:	ORPCBLL	
	Project:		Run ID:	R118284	Col. Date:
	Locator:	MB	Work Group:	WG89549	Rec. Date: 18-DEC-06
	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	.0083	.0167	
Aroclor 1221		ug/L	<MDL	.0083	.0167	
Aroclor 1232		ug/L	<MDL	.0083	.0167	
Aroclor 1242		ug/L	<MDL	.0083	.0167	
Aroclor 1248		ug/L	<MDL	.0083	.0167	
Aroclor 1254		ug/L	<MDL	.0083	.0167	
Aroclor 1260		ug/L	<MDL	.0083	.0167	
Decachlorobiphenyl	.01	ug/L		.00083	.00167	
2,4,5,6-Tetrachloro-m-xylene	.00433	ug/L		.00083	.00167	
Amount Analyzed	6000	ml				
Standard Amount	1	ml				
Dilution Factor	1	none				
Date Analyzed						19-JAN-07
Operator ID						JSF
Porthandler File						/usr/users/seed2/METROS3/files/gc/wg89549.txt
Instrument ID						HP6890ECD-F
Prep Date						11-DEC-06

SURROGATE RECOVERY INFORMATION

Parameter	% Rec	Lab Limits
Decachlorobiphenyl	60	12-158
2,4,5,6-Tetrachloro-m-xylene	26	10-118

KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab Review Report - 01/22/07 11:30 - Data Source: ELD

Sample#: WG89549-4	Matrix:	BLANK WTR	List Type:	ORPCBLL	
	Project:		Run ID:	R118284	Col. Date:
	Locator:	SBD	Work Group:	WG89549	Rec. Date: 18-DEC-06
	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	.0374	ug/L		.0083	.0167	
Aroclor 1221		ug/L	<MDL	.0083	.0167	
Aroclor 1232		ug/L	<MDL	.0083	.0167	
Aroclor 1242		ug/L	<MDL	.0083	.0167	
Aroclor 1248		ug/L	<MDL	.0083	.0167	
Aroclor 1254		ug/L	<MDL	.0083	.0167	
Aroclor 1260	.0368	ug/L		.0083	.0167	
Decachlorobiphenyl	.0116	ug/L		.00083	.00167	
2,4,5,6-Tetrachloro-m-xylene	.0027	ug/L		.00083	.00167	
Amount Analyzed	6000	ml				
Standard Amount	1	ml				
Dilution Factor	1	none				
Date Analyzed						19-JAN-07
Operator ID						JSF
Porthandler File						/usr/users/seed2/METROS3/files/gc/wg89549.txt
Instrument ID						HP5890ECD-F
Prep Date						11-DEC-06

SURROGATE RECOVERY INFORMATION

Parameter	% Rec	Lab Limits
Decachlorobiphenyl	69	12-158
2,4,5,6-Tetrachloro-m-xylene	16	10-118

KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab Review Report - 01/22/07 11:30 - Data Source: ELD

Sample#: WG89549-5	Matrix:	BLANK WTR	List Type:	ORPCBLL	
	Project:		Run ID:	R118284	Col. Date:
	Locator:	MB	Work Group:	WG89549	Rec. Date: 18-DEC-06
	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	.0083	.0167	
Aroclor 1221		ug/L	<MDL	.0083	.0167	
Aroclor 1232		ug/L	<MDL	.0083	.0167	
Aroclor 1242		ug/L	<MDL	.0083	.0167	
Aroclor 1248		ug/L	<MDL	.0083	.0167	
Aroclor 1254		ug/L	<MDL	.0083	.0167	
Aroclor 1260		ug/L	<MDL	.0083	.0167	
Decachlorobiphenyl	.0136	ug/L		.00083	.00167	
2,4,5,6-Tetrachloro-m-xylene	.00342	ug/L		.00083	.00167	
Amount Analyzed	6000	ml				
Standard Amount	1	ml				
Dilution Factor	1	none				
Date Analyzed						19-JAN-07
Operator ID						JSP
Porthandler File						/usr/users/aeed2/METROS3/file s/gc/wg89549.txt
Instrument ID						HP6890ECD F
Prep Date						11-DEC-06

SURROGATE RECOVERY INFORMATION

Parameter	% Rec	Lab Limits
Decachlorobiphenyl	82	12-158
2,4,5,6-Tetrachloro-m-xylene	20	10-118

KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab Review Report - 01/22/07 11:30 - Data Source: ELD

Sample#: L41257-1	Matrix: STORM WTR	List Type: ORPCBLL			
	Project: 423589-090-1	Run ID: R118284		Col. Date:	05-DEC-06
	Locator: BWR	Work Group: WG89549		Rec. Date:	05-DEC-06
	Site: METRO	QC Type:		Due Date:	04-JAN-07
	Method Code: EPA 8081A/8082 (7-3-03-002)				

Parameter	Value	Units	Valq	Mdl	Rdl	Textvalue
Aroclor 1016		ug/L	<MDL	.0091	.0183	
Aroclor 1221		ug/L	<MDL	.0091	.0183	
Aroclor 1232		ug/L	<MDL	.0091	.0183	
Aroclor 1242		ug/L	<MDL	.0091	.0183	
Aroclor 1248		ug/L	<MDL	.0091	.0183	
Aroclor 1254		ug/L	<MDL	.0091	.0183	
Aroclor 1260		ug/L	<MDL	.0091	.0183	
Decachlorobiphenyl	.0154	ug/L		.00091	.00183	
2,4,5,6-Tetrachloro-m-xylene	.0112	ug/L		.00091	.00183	
Amount Analyzed	5470	ml				
Standard Amount	1	ml				
Dilution Factor	1	none				
Date Analyzed						19-JAN-07
Operator ID						JSF
Porthandler File						/usr/users/seed2/METROE3/files/gc/wg89549.txt
Instrument ID						HP6890ECD-F
Prep Date						11-DEC-06

SURROGATE RECOVERY INFORMATION

Parameter	% Rec	Lab Limits
Decachlorobiphenyl	84	12-158
2,4,5,6-Tetrachloro-m-xylene	61	10-118

KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab Review Report - 01/22/07 11:30 - Data Source: ELD

Sample#:	L41257-2	Matrix:	STORM WTR	List Type:	ORPCBLL		
		Project:	423589-090-1	Run ID:	R118284	Col. Date:	05-DEC-06
		Locator:	CER	Work Group:	WG89549	Rec. Date:	05-DEC-06
		Site:	METRO	QC Type:		Due Date:	04-JAN-07
		Method Code:	EPA 8081A/8082 (7-3-03-002)				

Parameter	Value	Units	Valq	Mdl	Rdl	Textvalue
Aroclor 1016		ug/L	<MDL	.0078	.0157	
Aroclor 1221		ug/L	<MDL	.0078	.0157	
Aroclor 1232		ug/L	<MDL	.0078	.0157	
Aroclor 1242		ug/L	<MDL	.0078	.0157	
Aroclor 1248		ug/L	<MDL	.0078	.0157	
Aroclor 1254		ug/L	<MDL	.0078	.0157	
Aroclor 1260		ug/L	<MDL	.0078	.0157	
Decachlorobiphenyl	.013	ug/L		.00078	.00157	
2,4,5,6-Tetrachloro-m-xylene	.00749	ug/L		.00078	.00157	
Amount Analyzed	6370	ml				
Standard Amount	1	ml				
Dilution Factor	1	none				
Date Analyzed						19-JAN-07
Operator ID						JSF
Porthandler File						/usr/users/seed2/METROS3/files/gc/wg89549.txt
Instrument ID						HP6890ECD-F
Prep Date						11-DEC-06

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 - 01/22/07 11:30 - Data Source: ELD

Sample#: L41257-3	Matrix: STORM WTR	List Type: ORPCBLL			
	Project: 423589-090-1	Run ID: R118284		Col. Date:	05-DEC-06
	Locator: DZ	Work Group: WG89549		Rec. Date:	05-DEC-06
	Site: METRO	QC Type:		Due Date:	04-JAN-07
	Method Code: EPA 8081A/8082 (7-3-03-002)				

Parameter	Value	Units	Valq	Mdl	Rdl	Textvalue
Aroclor 1016		ug/L	<MDL	.0082	.0164	
Aroclor 1221		ug/L	<MDL	.0082	.0164	
Aroclor 1232		ug/L	<MDL	.0082	.0164	
Aroclor 1242		ug/L	<MDL	.0082	.0164	
Aroclor 1248		ug/L	<MDL	.0082	.0164	
Aroclor 1254		ug/L	<MDL	.0082	.0164	
Aroclor 1260		ug/L	<MDL	.0082	.0164	
Decachlorobiphenyl	.0134	ug/L		.00082	.00164	
2,4,5,6-Tetrachloro-m-xylene	.00836	ug/L		.00082	.00164	
Amount Analyzed	6100	ml				
Standard Amount	1	ml				
Dilution Factor	1	none				
Date Analyzed						19-JAN-07
Operator ID						JSF
Porthandler File						/usr/users/seed2/METROS3/files/gc/wg89549.txt
Instrument ID						HP6890ECD-F
Prep Date						11-DEC-06

SURROGATE RECOVERY INFORMATION

Parameter	% Rec	Lab Limits
Decachlorobiphenyl	82	12-158
2,4,5,6-Tetrachloro-m-xylene	51	10-118

KCSlip4 55388

SEA421716

KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab Review Report - 01/22/07 11:30 - Data Source: ELD

Sample#: L41257-4	Matrix:	STORM WTR	List Type:	ORPCBLL	
	Project:	423589-090-1	Run ID:	R118284	Col. Date: 05-DEC-06
	Locator:	KCIA	Work Group:	WG89549	Rec. Date: 05-DEC-06
	Site:	METRO	QC Type:		Due Date: 04-JAN-07
	Method Code:	EPA 8081A/8082 (7-3-03-002)			

Parameter	Value	Units	Valq	Mdl	Rdl	Textvalue
Aroclor 1016		ug/L	<MDL	.0089	.0178	
Aroclor 1221		ug/L	<MDL	.0089	.0178	
Aroclor 1232		ug/L	<MDL	.0089	.0178	
Aroclor 1242		ug/L	<MDL	.0089	.0178	
Aroclor 1248		ug/L	<MDL	.0089	.0178	
Aroclor 1254		ug/L	<MDL	.0089	.0178	
Aroclor 1260		ug/L	<MDL	.0089	.0178	
Decachlorobiphenyl	.0145	ug/L		.00089	.00178	
2,4,5,6-Tetrachloro-m-xylene	.00909	ug/L		.00089	.00178	
Amount Analyzed	5620	ml				
Standard Amount	1	ml				
Dilution Factor	1	none				
Date Analyzed						19-JAN-07
Operator ID						JSF
Porthandler File						/usr/users/seed2/METROS3/files/gc/wg89549.txt
Instrument ID						HP6890ECD-F
Prep Date						11-DEC-06

SURROGATE RECOVERY INFORMATION

Parameter	% Rec	Lab Limits
Decachlorobiphenyl	81	12-158
2,4,5,6-Tetrachloro-m-xylene	51	10-118

KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab Review Report - 01/22/07 11:30 - Data Source: ELD

Sample#: L41257-5	Matrix:	STORM WTR	List Type:	ORPCBLL	
	Project:	423589-090-1	Run ID:	R118284	Col. Date: 05-DEC-06
	Locator:	SPCC	Work Group:	WG89549	Rec. Date: 05-DEC-06
	Site:	METRO	QC Type:		Due Date: 04-JAN-07
	Method Code:	EPA 8081A/8082 (7-3-03-002)			

Parameter	Value	Units	Valq	Mdl	Rdl	Textvalue
Aroclor 1016		ug/L	<MDL	.0084	.0167	
Aroclor 1221		ug/L	<MDL	.0084	.0167	
Aroclor 1232		ug/L	<MDL	.0084	.0167	
Aroclor 1242		ug/L	<MDL	.0084	.0167	
Aroclor 1248		ug/L	<MDL	.0084	.0167	
Aroclor 1254		ug/L	<MDL	.0084	.0167	
Aroclor 1260		ug/L	<MDL	.0084	.0167	
Decachlorobiphenyl	.0139	ug/L		.00084	.00167	
2,4,5,6-Tetrachloro-m-xylene	.00806	ug/L		.00084	.00167	
Amount Analyzed	5980	ml				
Standard Amount	1	ml				
Dilution Factor	1	none				
Date Analyzed						19-JAN-07
Operator ID						JSF
Porthandler File						/usr/users/seed2/METRO63/files/gc/wg89549.txt
Instrument ID						HP6890ECD-F
Prep Date						11-DEC-06

SURROGATE RECOVERY INFORMATION

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

KCSlip4 55390

SEA421718

A/M
1/19/07
MO

King County Environmental Laboratory

WORK GROUP REPORT (wk02)

Jan 11 2007, 09:24 am

Work Group: WG89837 (PAH-FUNNEL WIPES) for Department: 7 - Organics, Trace

Created: 11-JAN-07 PrepDate: 11-JAN-07 Due: Operator: MCD

Sample	Project Number	Project Description	PKey	C	Product	Matrix	Stat	UA	Workdate	Duedate
L41257-10	423589-090-1	Lower Duwamish Phthalate Studies	S		PHPAHWIPE	OTHR SOLID	WKGP	U	19-DEC-06	04-JAN-07
L41257-6	423589-090-1	Lower Duwamish Phthalate Studies	S		PHPAHWIPE	OTHR SOLID	WKGP	U	19-DEC-06	04-JAN-07
L41257-7	423589-090-1	Lower Duwamish Phthalate Studies	S		PHPAHWIPE	OTHR SOLID	WKGP	U	19-DEC-06	04-JAN-07
L41257-8	423589-090-1	Lower Duwamish Phthalate Studies	S		PHPAHWIPE	OTHR SOLID	WKGP	U	19-DEC-06	04-JAN-07
L41257-9	423589-090-1	Lower Duwamish Phthalate Studies	S		PHPAHWIPE	OTHR SOLID	WKGP	U	19-DEC-06	04-JAN-07
L41489-2	423589-090-1	Lower Duwamish Phthalate Studies	S		PHPAHWIPE	OTHR SOLID	WKGP	U	23-JAN-07	08-FEB-07
WG89837-1	MB		S		PHPAHWIPE	OTHR SOLID	WKGP	U	11-JAN-07	

Comments:

L41257-10	wipes
L41257-6	wipes
L41257-7	wipes
L41257-8	wipes
L41257-9	wipes
L41489-2	wipe blank
WG89837-1	FILTER PAPER BLANK 11-JAN-07

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SEA421719

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

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

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
11/6/07	WG858337-1		PAHAH BLANK			50 uL BNA	1 mL	AL	NO	11/12/07	Samples conc
WMS	WG858338-1		PCBC BLANK			25 uL PCB					to 1 mL. 0.5 mL
	L41489-2		FUNNEL BLANK								for BNA. 0.5 mL
	L41257-6		Funnel WIPES								AL cleaned for
	-7										PCB
	-8										
	-9										
	-10										

① Filter paper rinsed with MeCl2

② Funnels wiped x2 with MeCl2 soaked filter paper

③ BNA/PEST surrogate added, samples extracted x3 with 50mL ~~MeCl2 on sonic bath. Samples~~ conc to 1.0 mL

④ 0.5 mL BNA analyses / 0.5 mL exchanged to hexane, AL cleaned and conc to 0.5 mL for PCB analyses.

KCSlip4 55392

SEA421720

A/m
1/18/07
MO

KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab QC Report - 01/17/07 07:34
Run ID: R118215 Workgroup: WG89837 (PAH-FUNNEL WIPES)

MB:WG89837-1 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	.121	B
Phenanthrene	.01	.02	ug	<MDL	
Anthracene	.01	.02	ug	<MDL	
Di-N-Butyl Phthalate	.05	.1	ug	.154	B
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	.439	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 = 0.363
X3 = 0.462
X3 = 0.317

KCSlip4 55393
SEA421721

KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab QC Report - 01/17/07 07:34
Run ID: R118215 Workgroup: WG89837 (PAH-FUNNEL WIPES)

Sample # (Lab Limits)	2-Fluorobiphenyl 30-115	d14-Terphenyl 18-137
L41257-6	74	108
L41257-7	67	113
L41257-8	71	113
L41257-9	65	108
L41257-10	76	106
L41489-2	75	111
WG89837-1	74	106

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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SEA421722

```
Sequence Name: C:\MSDChem\1\sequence\070116.S
       Comment:
      Operator:
     Data Path: C:\MSDChem\1\data\070116\
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          WG89837-1
     Method            8270B1
 6)  Blank           7  L41489-2 8270B1    L41489-2 FUNNEL BLANK
 7)  Sample          8  L41257-6 8270B1    L41257-6 FUNNEL WIPE
 8)  Sample          9  L41257-7 8270B1    L41257-7 FUNNEL WIPE
 9)  Sample         10  L41257-8 8270B1    L41257-8 FUNNEL WIPE
10)  Sample         11  L41257-9 8270B1    L41257-9 FUNNEL WIPE
11) Sample          12
     Datafile          L41257-10
     Method            8270B1
```

Batch: \\orgizmo\EE\chem\6890j.i\070116.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	16-JAN-2007 09:12	SDGa0971	SDGa09		10 NG/UL DFTPP MIX	NONE	0.000	1.0	13.252	119608	DFTPP.m		M.Doubrava
2	CCALI-01	16-JAN-2007 10:33	SDGa0282	SDGa02		SS#1354 D 8.0 PPM BNA STD	WATER	0.000	1.0	8.448	369439	8270b1.m	05-JAN-2007	M.Doubrava
3	CCEDC-01	16-JAN-2007 11:08	SDGa0962	SDGa09		SS#1355 C 5.0 PPM EDC STD	WATER	0.000	1.0	8.430	439825	8270BEDC.m	06-JAN-2007	M.Doubrava
4	BLANK-01	16-JAN-2007 11:43	SDGa0282	SDGa02		MECL2 INSTRUMENT BLANK	WATER	0.000	1.0	0.000	0	8270B1.m	05-JAN-2007	M.Doubrava
5	WG89837-1	16-JAN-2007 12:29	WG89837	WIPES		WG89837-1 MB FILTER PAPER	SOIL	1.000	1.0	8.448	372582	8270b1.m	05-JAN-2007	M.Doubrava
6	L41489-2	16-JAN-2007 13:14	WG89837	WIPES		L41489-2 FUNNEL BLANK	SOIL	1.000	1.0	8.457	215407	8270b1.m	05-JAN-2007	M.Doubrava
7	L41257-6	16-JAN-2007 14:00	WG89837	WIPES		L41257-6 FUNNEL WIPE	SOIL	1.000	1.0	8.448	280638	8270b1.m	05-JAN-2007	M.Doubrava
8	L41257-7	16-JAN-2007 14:45	WG89837	WIPES		L41257-7 FUNNEL WIPE	SOIL	1.000	1.0	8.448	317100	8270b1.m	05-JAN-2007	M.Doubrava
9	L41257-8	16-JAN-2007 15:31	WG89837	WIPES		L41257-8 FUNNEL WIPE	SOIL	1.000	1.0	8.448	300768	8270b1.m	05-JAN-2007	M.Doubrava
10	L41257-9	16-JAN-2007 16:16	WG89837	WIPES		L41257-9 FUNNEL WIPE	SOIL	1.000	1.0	8.448	382499	8270b1.m	05-JAN-2007	M.Doubrava
11	L41257-10	16-JAN-2007 17:02	WG89837	WIPES		L41257-10 FUNNEL WIPE	SOIL	1.000	1.0	8.448	344761	8270b1.m	05-JAN-2007	M.Doubrava

Samples: 6 QC Samples + Misc.: 3 ContinuingCals: 1 Tunes: 1 Calibrations: 0

Trace Organics Data Anomaly Form

Date(s) Occurred: *07/01/16*

WG #(s): *WG89837*

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

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

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

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: *PAHWIPE*
☐ 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. WG89837-1 MB had detectable levels of Diethyl Phthalate, Di-N-Butyl Phthalate and Bis (2EH) Phthalate in the extraction filter blank. All samples that were less than X3 the blank levels were flagged "B" as per QA/QC project protocols.

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):
The "B" flagged target parameter values could be affected and bias slightly high.

	Signatures	Signature Dates
Reported By: *M. Doubrava*		1/19/07
Reviewer: *D. Walker*	Dana Walker	1/19/07
Supervisor: *Dana Walker*		
QA Officer: *Colin Elliott* (For QA1 only)		
cc: LPM: Fritz Grothkopp		

KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab Review Report - 01/19/07 09:35 - Data Source: ELD

Sample#: WG89837-1	Matrix:	OTHR SOLID	List Type:	ORPHPAHWIPE	
	Project:		Run ID:	R118215	Col. Date:
	Locator:	MB	Work Group:	WG89837	Rec. Date: 11-JAN-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	.121	ug	B	.05	.1	
Phenanthrene		ug	<MDL	.01	.02	
Anthracene		ug	<MDL	.01	.02	
Di-N-Butyl Phthalate	.154	ug	B	.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	.93	ug		.02	.04	
d14-Terphenyl	1.32	ug		.02	.04	
Amount Analyzed	1	g				
Standard Amount	1	g				
Dilution Factor	1	none				
Date Analyzed						16-JAN-07
Operator ID						M.Doubrava
Porthandler File						/usr/users/seed2/METROS3/files/gcms/WG89837-1.rp
Instrument ID						6890j.i
Prep Date						11-JAN-07

SURROGATE RECOVERY INFORMATION

Parameter	% Rec	Lab Limits
2-Fluorobiphenyl	74	30-115
d14-Terphenyl	106	18-137

KCSlip4 55399

SEA421727

KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab Review Report - 01/19/07 09:35 - Data Source: ELD

Sample#: L41489-2	Matrix:	OTHR SOLID	List Type:	ORPHPAHWIPE	
	Project:	423589-090-1	Run ID:	R118215	Col. Date: 09-JAN-07
	Locator:	BWR	Work Group:	WG89837	Rec. Date: 09-JAN-07
	Site:	METRO	QC Type:		Due Date: 08-FEB-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	.133	ug	B	.05	.1	
Phenanthrene		ug	<MDL	.01	.02	
Anthracene		ug	<MDL	.01	.02	
Di-N-Butyl Phthalate	.214	ug	B	.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	.513	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	.939	ug		.02	.04	
d14-Terphenyl	1.39	ug		.02	.04	
Amount Analyzed	1	g				
Standard Amount	1	g				
Dilution Factor	1	none				
Date Analyzed						16-JAN-07
Operator ID						M.Doubrava
Porthandler File						/usr/users/seed2/METROS3/files/gcms/L41489-2.rp
Instrument ID						6890j.i
Prep Date						11-JAN-07

SURROGATE RECOVERY INFORMATION

Parameter	% Rec	Lab Limits
2-Fluorobiphenyl	75	30-115
d14-Terphenyl	111	18-137

KCSlip4 55400

SEA421728

KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab Review Report - 01/19/07 09:35 - Data Source: ELD

Sample#: L41257-6	Matrix:	OTHR SOLID	List Type:	ORPHPAHWIPE	
	Project:	423589-090-1	Run ID:	R118215	Col. Date: 05-DEC-06
	Locator:	BWR	Work Group:	WG89837	Rec. Date: 05-DEC-06
	Site:	METRO	QC Type:		Due Date: 04-JAN-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	B	.05	.1	
Phenanthrene	.0264	ug		.01	.02	
Anthracene		ug	<MDL	.01	.02	
Di-N-Butyl Phthalate	.332	ug	B	.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	.637	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	.931	ug		.02	.04	
d14-Terphenyl	1.35	ug		.02	.04	
Amount Analyzed	1	g				
Standard Amount	1	g				
Dilution Factor	1	none				
Date Analyzed						16-JAN-07
Operator ID						M Doubrava
Porthandler File						/usr/users/seed2/METROS1/files/gcms/L41257-6.rp
Instrument ID						6890j.i
Prep Date						11-JAN-07

SURROGATE RECOVERY INFORMATION

Parameter	% Rec	Lab Limits
2-Fluorobiphenyl	74	30-115
d14-Terphenyl	108	18-137

KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab Review Report - 01/19/07 09:35 - Data Source: ELD

Sample#: L41257-7	Matrix: OTHR SOLID	List Type: ORPHPAHWIPE			
	Project: 423589-090-1	Run ID: R118215	Col. Date:	05-DEC-06	
	Locator: CER	Work Group: WG89837	Rec. Date:	05-DEC-06	
	Site: METRO	QC Type:	Due Date:	04-JAN-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	.121	ug	B	.05	.1	
Phenanthrene	.0508	ug		.01	.02	
Anthracene		ug	<MDL	.01	.02	
Di-N-Butyl Phthalate	.48	ug	B	.05	.1	
Fluoranthene	.028	ug		.01	.02	
Pyrene	.0232	ug		.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	.77	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	.024	ug	<RDL	.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	.837	ug		.02	.04	
d14-Terphenyl	1.41	ug		.02	.04	
Amount Analyzed	1	g				
Standard Amount	1	g				
Dilution Factor	1	none				
Date Analyzed						16-JAN-07
Operator ID						M.Doubrava
Porthandler File						/usr/users/seed2/METROS3/file s/gcms/L41257-7.rp
Instrument ID						6890j.i
Prep Date						11-JAN-07

SURROGATE RECOVERY INFORMATION

Parameter	% Rec	Lab Limits
2-Fluorobiphenyl	67	30-115
d14-Terphenyl	113	18-137

KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab Review Report - 01/19/07 09:35 - Data Source: ELD

Sample#: L41257-8	Matrix: OTHR SOLID	List Type: ORPHPAHWIPE			
	Project: 423589-090-1	Run ID: R118215	Col. Date:	05-DEC-06
	Locator: DZ	Work Group: WG89837	Rec. Date:	05-DEC-06
	Site: METRO	QC Type:	Due Date:	04-JAN-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	.16	ug	B	.05	.1	
Phenanthrene	.034	ug		.01	.02	
Anthracene		ug	<MDL	.01	.02	
Di-N-Butyl Phthalate	.332	ug	B	.05	.1	
Fluoranthene	.03	ug		.01	.02	
Pyrene	.0208	ug		.01	.02	
Benzyl Butyl Phthalate	.098	ug	<RDL	.05	.1	
Benzo(a)anthracene		ug	<MDL	.01	.02	
Chrysene		ug	<MDL	.01	.02	
Bis(2-Ethylhexyl)Phthalate	.638	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	.885	ug		.02	.04	
d14-Terphenyl	1.41	ug		.02	.04	
Amount Analyzed	1	g				
Standard Amount	1	g				
Dilution Factor	1	none				
Date Analyzed						16-JAN-07
Operator ID						M Doubrava
Porthandler File						/usr/users/seed2/METROS3/files/gcms/L41257-8.rp
Instrument ID						6890j.i
Prep Date						11-JAN-07

SURROGATE RECOVERY INFORMATION

Parameter	% Rec	Lab Limits
2-Fluorobiphenyl	71	30-115
d14-Terphenyl	113	18-137

KCSlip4 55403

SEA421731

KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab Review Report - 01/19/07 09:35 - Data Source: ELD

Sample#: L41257-9	Matrix: OTHR SOLID	List Type: ORPHPAHWIPE			
	Project: 423589-090-1	Run ID: R118215		Col. Date:	05-DEC-06
	Locator: KCIA	Work Group: WG89837		Rec. Date:	05-DEC-06
	Site: METRO	QC Type:		Due Date:	04-JAN-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	.142	ug	B	.05	.1	
Phenanthrene	.0926	ug		.01	.02	
Anthracene		ug	<MDL	.01	.02	
Di-N-Butyl Phthalate	.418	ug	B	.05	.1	
Fluoranthene	.262	ug		.01	.02	
Pyrene	.19	ug		.01	.02	
Benzyl Butyl Phthalate	.116	ug		.05	.1	
Benzo(a)anthracene	.074	ug		.01	.02	
Chrysene	.14	ug		.01	.02	
Bis(2-Ethylhexyl)Phthalate	.817	ug	B	.05	.1	
Di-N-Octyl Phthalate		ug	<MDL	.05	.1	
Benzo(b)fluoranthene	.158	ug		.02	.04	
Benzo(k)fluoranthene	.121	ug		.02	.04	
Benzo(a)pyrene	.196	ug		.02	.04	
Indeno(1,2,3-Cd)Pyrene	.103	ug		.02	.04	
Dibenzo(a,h)anthracene	.025	ug	<RDL	.02	.04	
Benzo(g,h,i)perylene	.112	ug		.02	.04	
2-Methylnaphthalene		ug	<MDL	.01	.02	
2-Fluorobiphenyl	.819	ug		.02	.04	
d14-Terphenyl	1.35	ug		.02	.04	
Amount Analyzed	1	g				
Standard Amount	1	g				
Dilution Factor	1	none				
Date Analyzed						16-JAN-07
Operator ID						M.Doubrava
Porthandler File						/usr/users/seed2/METROS3/files/gcms/L41257-9.rp
Instrument ID						6890j.i
Prep Date						11-JAN-07

SURROGATE RECOVERY INFORMATION

Parameter	% Rec	Lab Limits
2-Fluorobiphenyl	65	30-115
d14-Terphenyl	108	18-137

KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab Review Report - 01/19/07 09:35 - Data Source: ELD

Sample#: L41257-10	Matrix:	OTHR SOLID	List Type:	ORPHPAHWIPE	
	Project:	423589-090-1	Run ID:	R118215	Col. Date: 05-DEC-06
	Locator:	SPCC	Work Group:	WG89837	Rec. Date: 05-DEC-06
	Site:	METRO	QC Type:		Due Date: 04-JAN-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	.202	ug	B	.05	.1	
Phenanthrene	.0462	ug		.01	.02	
Anthracene		ug	<MDL	.01	.02	
Di-N-Butyl Phthalate	.657	ug	B	.05	.1	
Fluoranthene	.0399	ug		.01	.02	
Pyrene	.0219	ug		.01	.02	
Benzyl Butyl Phthalate	.166	ug		.05	.1	
Benzo(a)anthracene		ug	<MDL	.01	.02	
Chrysene		ug	<MDL	.01	.02	
Bis(2-Ethylhexyl)Phthalate	.964	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	.951	ug		.02	.04	
d14-Terphenyl	1.33	ug		.02	.04	
Amount Analyzed	1	g				
Standard Amount	1	g				
Dilution Factor	1	none				
Date Analyzed						16-JAN-07
Operator ID						M.Doubrava
Porthandler File						/usr/users/seed2/METROS3/files/gcms/L41257-10.rp
Instrument ID						6890j 1
Prep Date						11-JAN-07

SURROGATE RECOVERY INFORMATION

Parameter	% Rec	Lab Limits
2-Fluorobiphenyl	76	30-115
d14-Terphenyl	106	18-137

KCSlip4 55405

SEA421733

King County Environmental Laboratory

WORK GROUP REPORT (wk02)

Jan 11 2007, 09:26 am

Work Group: WG89838 (PCB-FUNNEL WIPES) for Department: 7 - Organics, Trace

Created: 11-JAN-07 PrepDate: 11-JAN-07 Due: Operator: MCD

Sample	Project Number	Project Description	Pkey	C	Product	Matrix		Stat	IA	Workdate	Duedate
L41257-10	423589-090-1	Lower Duwamish Phthalate Studies	S		PCBWIPE	OTHR	SOLID	WKGP	U	19-DEC-06	04-JAN-07
L41257-6	423589-090-1	Lower Duwamish Phthalate Studies	S		PCBWIPE	OTHR	SOLID	WKGP	U	19-DEC-06	04-JAN-07
L41257-7	423589-090-1	Lower Duwamish Phthalate Studies	S		PCBWIPE	OTHR	SOLID	WKGP	U	19-DEC-06	04-JAN-07
L41257-8	423589-090-1	Lower Duwamish Phthalate Studies	S		PCBWIPE	OTHR	SOLID	WKGP	U	19-DEC-06	04-JAN-07
L41257-9	423589-090-1	Lower Duwamish Phthalate Studies	S		PCBWIPE	OTHR	SOLID	WKGP	U	19-DEC-06	04-JAN-07
L41489-2	423589-090-1	Lower Duwamish Phthalate Studies	S		PCBWIPE	OTHR	SOLID	WKGP	U	23-JAN-07	08-FEB-07
WG89838-1	MB		S		PCBWIPE	OTHR	SOLID	WKGP	U	11-JAN-07	

Comments:

L41257-10	wipes
L41257-6	wipes
L41257-7	wipes
L41257-8	wipes
L41257-9	wipes
L41489-2	wipe blank
WG89838-1	FILTER PAPER EXTRACTION BLANK 11-JAN-07

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

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

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
11/1/07 MWS	WG895837-1		PAHAH 3 BLANK			50 uL BNA	1mL	AL	MS	11/12/07	Samples conc
	WG895838-1		PCBC			25 uL PCB					to 1mL. 0.5mL
	L41489-2		FUNNEL BLANK								for BNA. 0.5mL
	L41257-6		Funnel WIPES								AL cleaned for
	-7										PCB
	-8										
	-9										
	-10										

① Filter paper rinsed with MeCl2

② Funnels wiped x2 with MeCl2 soaked filter paper

③ BNA/PCST surrogate added, samples extracted x3 with 50mL MeCl2 on sonic bath. Samples conc to 1.0 mL

④ 0.5 mL BNA analyses / 0.5 mL exchanged to hexane, AL cleaned and conc to 0.5 mL for PCB analyses.

KCSlip4 55407

SEA421735

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	1/12/2007 10:01	1	0	1										S:\MSDCHEM\2\DATA\070112\
BLANK-01.D	blank	1/12/2007 10:38	2	0	1										S:\MSDCHEM\2\DATA\070112\
PCB-01.D	1218D 1016/1260 500/50	1/12/2007 11:14	3	0	1	14.239	121692668	22.448	236533257	12.938	269297559	19.336	443525673		S:\MSDCHEM\2\DATA\070112\
PCB-02.D	1209.2 1248 500/50	1/12/2007 11:51	4	0	1	14.239	123148525	22.449	241875391	12.937	284629937	19.333	453434513		S:\MSDCHEM\2\DATA\070112\
PCB-03.D	1210.2 1254 500/50	1/12/2007 12:27	5	0	1	14.238	128615687	22.447	248668717	12.938	293115258	19.335	479227654		S:\MSDCHEM\2\DATA\070112\
PCB-04.D	1206.2 1221 500/50	1/12/2007 13:04	6	0	1	14.238	109013617	22.448	203528640	12.938	250466698	19.335	398116393		S:\MSDCHEM\2\DATA\070112\
PCB-05.D	1207.2 1232 500/50	1/12/2007 13:41	7	0	1	14.238	118254977	22.447	225443872	12.939	269826357	19.336	425907066		S:\MSDCHEM\2\DATA\070112\
PCB-06.D	1208.2 1242 500/50	1/12/2007 14:17	8	0	1	14.238	113000083	22.450	216250606	12.938	272094600	19.336	430231039		S:\MSDCHEM\2\DATA\070112\
WG59838-1.D	MB	1/12/2007 14:54	9	0	1	14.238	131015415	22.448	265201437	12.939	274146519	19.335	440170858	PCBWIPE DUWAMISH	S:\MSDCHEM\2\DATA\070112\
L41257-6.D	L41257-6	1/12/2007 15:30	10	0	1	14.238	93234570	22.449	218554457	12.939	206446820	19.335	355869008	PCBWIPE DUWAMISH	S:\MSDCHEM\2\DATA\070112\
L41257-7.D	L41257-7	1/12/2007 16:07	11	0	1	14.238	88844152	22.448	193912964	12.940	189544472	19.336	318000285	PCBWIPE DUWAMISH	S:\MSDCHEM\2\DATA\070112\
L41257-8.D	L41257-8	1/12/2007 16:44	12	0	1	14.239	98677311	22.448	212056600	12.940	205108864	19.336	347376829	PCBWIPE DUWAMISH	S:\MSDCHEM\2\DATA\070112\
L41257-9.D	L41257-9	1/12/2007 17:20	13	0	1	14.240	94499848	22.449	214822921	12.940	202416925	19.335	335761113	PCBWIPE DUWAMISH	S:\MSDCHEM\2\DATA\070112\
L41257-10.D	L41257-10	1/12/2007 17:57	14	0	1	14.239	94030728	22.449	207751987	12.938	200965288	19.333	345276261	PCBWIPE DUWAMISH	S:\MSDCHEM\2\DATA\070112\
L41489-2.D	L41489-2	1/12/2007 18:33	15	0	1	14.240	91187654	22.449	192052093	12.938	199322010	19.334	314492870	PCBWIPE DUWAMISH	S:\MSDCHEM\2\DATA\070112\
PCB-07.D	1218D 1016/1260 500/50	1/12/2007 19:10	3	0	1	14.238	119734741	22.449	235480371	12.939	262825861	19.336	405391869		S:\MSDCHEM\2\DATA\070112\
PCB-08.D	1209.2 1248 500/50	1/12/2007 19:47	4	0	1	14.238	122556971	22.449	251365299	12.938	281861978	19.334	441409507		S:\MSDCHEM\2\DATA\070112\
					Ave.	14.239	109446996	22.448	224233214	12.939	244125677	19.335	395481413		
					Std. Dev.	0.001	15195108	0.001	21495051	0.001	38124809	0.001	54477420		
					%RSD		14%		10%		16%		14%		

KCSlip4 55408
SEA421736

KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab QC Report - 01/16/07 11:44
Run ID: R118208 Workgroup: WG89838 (PCB-FUNNEL WIPES)

MB:WG89838-1 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 55409
SEA421737

KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab QC Report - 01/16/07 11:44
Run ID: R118208 Workgroup: WG89838 (PCB-FUNNEL WIPES)

Sample # (Lab Limits)	Decachlorobiphenyl 25-150
L41257-6	93
L41257-7	74
L41257-8	84
L41257-9	91
L41257-10	86
L41489-2	72
WG89838-1	60

==========

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 55410
SEA421738

KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab Review Report - 01/16/07 11:45 - Data Source: ELD

S ple#: WG89838-1	Matrix:	OTHR SOLID	List Type:	ORPCBWIPE	
	Project:		Run ID:	R118208	Col. Date:
	Locator:	MB	Work Group:	WG89838	Rec. Date: 11-JAN-07
	Site:	NONE	QC Type:	MB	Due Date:
	Method Code:	8270D-WIPETEST			

rameter	Value	Units	Valq	Mdl	Rdl	Textvalue
roclor 1016		ug	<MDL	50	100	
oclor 1221		ug	<MDL	50	100	
oclor 1232		ug	<MDL	50	100	
oclor 1242		ug	<MDL	50	100	
oclor 1248		ug	<MDL	50	100	
oclor 1254		ug	<MDL	50	100	
oclor 1260		ug	<MDL	50	100	
cachlorobiphenyl	18.6	ug		5	10	
ount Analyzed	1	g				
andard Amount	1	g				
lution Factor	1	none				
te Analyzed						12-JAN-07
erator ID						JSF
rthandler File						/usr/users/seed2/METROS3/file 8/gc/wg89838.txt
strument ID						HP6890ECD-G
ep Date						11-JAN-07

ROGATE RECOVERY INFORMATION

rameter	% Rec	Lab Limits
cachlorobiphenyl	60	25-150

KCSlip4 55411

SEA421739

KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab Review Report - 01/16/07 11:45 - Data Source: ELD

Sample#: L41257-6	Matrix:	OTHR SOLID	List Type:	ORPCBWIPE	
	Project:	423589-090-1	Run ID:	R118208	Col. Date: 05-DEC-06
	Locator:	BWR	Work Group:	WG89838	Rec. Date: 05-DEC-06
	Site:	METRO	QC Type:		Due Date: 04-JAN-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	29.1	ug		5	10	
Amount Analyzed	1	g				
Standard Amount	1	g				
Dilution Factor	1	none				
Date Analyzed						12-JAN-07
Operator ID						JSF
Porthandler File						/usr/users/seed2/METROS3/files/gc/wg89838.txt
Instrument ID						HP6890ECD-G
Prep Date						11-JAN-07

SURROGATE RECOVERY INFORMATION

Parameter	% Rec	Lab Limits
Decachlorobiphenyl	93	25-150

KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab Review Report - 01/16/07 11:45 - Data Source: ELD

Sample#: L41257-7	Matrix:	OTHR SOLID	List Type:	ORPCBWIPE	
	Project:	423589-090-1	Run ID:	R118208	Col. Date: 05-DEC-06
	Locator:	CER	Work Group:	WG89838	Rec. Date: 05-DEC-06
	Site:	METRO	QC Type:		Due Date: 04-JAN-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	23.1	ug		5	10	
Amount Analyzed	1	g				
Standard Amount	1	g				
Dilution Factor	1	none				
Date Analyzed						12-JAN-07
Operator ID						JSF
Porthandler File						/usr/users/seed2/METROS3/files/gc/wg89838.txt
Instrument ID						HP6890ECD-G
Prep Date						11-JAN-07

SURROGATE RECOVERY INFORMATION

Parameter	% Rec	Lab Limits
Decachlorobiphenyl	74	25-150

KCSlip4 55413

SEA421741

KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab Review Report - 01/16/07 11:45 - Data Source: ELD

Sample#: L41257-8	Matrix:	OTHR SOLID	List Type:	ORPCBWIPE	
	Project:	423589-090-1	Run ID:	R118208	Col. Date: 05-DEC-06
	Locator:	DZ	Work Group:	WG89838	Rec. Date: 05-DEC-06
	Site:	METRO	QC Type:		Due Date: 04-JAN-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	26.1	ug		5	10	
Amount Analyzed	1	g				
Standard Amount	1	g				
Dilution Factor	1	none				
Date Analyzed						12-JAN-07
Operator ID						JSF
Orthandler File						/usr/users/seed2/METROS3/files/gc/wg89838.txt
Instrument ID						HP6890ECD-G
Prep Date						11-JAN-07

SURROGATE RECOVERY INFORMATION

Parameter	% Rec	Lab Limits
Decachlorobiphenyl	84	25-150

KCSlip4 55414

SEA421742

KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab Review Report - 01/16/07 11:45 - Data Source: ELD

Sample#: L41257-9	Matrix: OTHR SOLID	List Type: ORPCBWIPE			
	Project: 423589-090 1	Run ID: R118208		Col. Date:	05-DEC-06
	Locator: KCIA	Work Group: WG89838		Rec. Date:	05-DEC-06
	Site: METRO	QC Type:		Due Date:	04-JAN-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	28.5	ug		5	10	
Amount Analyzed	1	g				
Standard Amount	1	g				
Dilution Factor	1	none				
Date Analyzed						12-JAN-07
Operator ID						JSF
Orthandler File						/usr/users/seed2/METROS3/files/gc/wg89838.txt
Instrument ID						HP6890ECD-G
Prep Date						11-JAN-07

SURROGATE RECOVERY INFORMATION

Parameter	% Rec	Lab Limits
Decachlorobiphenyl	91	25-150

KCSlip4 55415

SEA421743

KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab Review Report - 01/16/07 11:45 - Data Source: ELD

Sample#: L41257-10	Matrix:	OTHR SOLID	List Type:	ORPCBWIPE	
	Project:	423589 090-1	Run ID:	R118208	Col. Date: 05-DEC-06
	Locator:	SPCC	Work Group:	WG89838	Rec. Date: 05-DEC-06
	Site:	METRO	QC Type:		Due Date: 04-JAN-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	27	ug		5	10	
Amount Analyzed	1	g				
Standard Amount	1	g				
Dilution Factor	1	none				
Date Analyzed						12-JAN-07
Operator ID						JSF
Porthandler File						/usr/users/seed2/METROS3/files/gc/wg89838.txt
Instrument ID						HP6890ECD-G
Prep Date						11-JAN-07

SURROGATE RECOVERY INFORMATION

Parameter	% Rec	Lab Limits
Decachlorobiphenyl	86	25-150

KCSlip4 55416

SEA421744

KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab Review Report - 01/16/07 11:45 - Data Source: ELD

S ple#: L41489-2	Matrix:	OTHR SOLID	List Type:	ORPCBWIPE	
	Project:	423589-090-1	Run ID:	R118208	Col. Date: 09-JAN-07
	Locator:	BWR	Work Group:	WG89838	Rec. Date: 09-JAN-07
	Site:	METRO	QC Type:		Due Date: 08-FEB-07
	Method Code:	8270D-WIPETEST			

rameter	Value	Units	Valq	Mdl	Rdl	Textvalue
roclor 1016		ug	<MDL	50	100	
roclor 1221		ug	<MDL	50	100	
roclor 1232		ug	<MDL	50	100	
roclor 1242		ug	<MDL	50	100	
oclor 1248		ug	<MDL	50	100	
oclor 1254		ug	<MDL	50	100	
oclor 1260		ug	<MDL	50	100	
-cachlorobiphenyl	22.6	ug		5	10	
ount Analyzed	1	g				
andard Amount	1	g				
lution Factor	1	none				
te Analyzed						12-JAN-07
erator ID						JSF
rthandler File						/usr/users/seed2/METROS3/file s/gc/wg89838.txt
strument ID						HP6890ECD-G
ep Date						11-JAN-07

RROGATE RECOVERY INFORMATION

rameter	% Rec	Lab Limits
-cachlorobiphenyl	72	25-150

KCSlip4 55417

SEA421745

Trace Organics Data Anomaly Form

Date(s) Occurred: *1-12-07*

WG #(s): *WG89838*

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

Project #(s): *423589*

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

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	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:
15 ☐ Insufficient sample amount.
16 ☐ Inappropriate storage, container or preservation.
17 ☐ Other

Anomaly Description: *12a. PCB-04 had a surrogate recoveries for DCB that was <85% on the front column. In addition, PCB-07 had recoveries for DCB on both columns that were <85% as well. 12b. Aroclor 1260 recovery was <85% in PCB-07 on the front column.*

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

Corrective Action Description: *12a. All surrogate recoveries are from the rear column. All sample surrogate recoveries are within range. 12b. All aroclor 1260 recoveries are from the back column. No sample had any aroclors to report, although they are difficult to analyze due to interferences associated with the BNA fraction. It appears that these samples have a detrimental effect on recoveries for late eluting congeners/peaks.*

VI. Potential Effects on Data Quality:

☒ None; corrective action entirely corrected anomaly (explanation optional):

☐ Potential effect explanation (explanation mandatory):

	Signatures	Signature Dates
Reported By: *JSF*		1-16-07
Reviewer: *Gretchen Nerlin*		1/17/07
Supervisor: *Dana Walker*		1/18/07
QA Officer: *Colin Elliott* (For QA1 only)		
cc: LPM:		