A/M
11/8/07
MS

King County Environmental Laboratory

WORK GROUP REPORT (wk02)

Nov 28 2006, 11:33 am

Work Group: WG89210 (PHPAH WIPE) for Department: 7 - Organics, Trace

Created: 28-NOV-06 PrepDate: 28-NOV-06 Due: Operator: MCD

Sample	Project Number	Project Description	PKey	C	Product	Matrix	Stat	UA	Workdate	Duedate
L40900-10	423589-090-1	Lower Duwamish Phthalate Studies		S	PHPAHWIPE	OTHR SOLID	WKGP	U	15-NOV-06	01-DEC-06
L40900-6	423589-090-1	Lower Duwamish Phthalate Studies		S	PHPAHWIPE	OTHR SOLID	WKGP	U	15-NOV-06	01-DEC-06
L40900-7	423589-090-1	Lower Duwamish Phthalate Studies		S	PHPAHWIPE	OTHR SOLID	WKGP	U	15-NOV-06	01-DEC-06
L40900-8	423589-090-1	Lower Duwamish Phthalate Studies		S	PHPAHWIPE	OTHR SOLID	WKGP	U	15-NOV-06	01-DEC-06
L40900-9	423589-090-1	Lower Duwamish Phthalate Studies		S	PHPAHWIPE	OTHR SOLID	WKGP	U	15-NOV-06	01-DEC-06
L41104-2	423589-090-1	Lower Duwamish Phthalate Studies		S	PHPAHWIPE	OTHR SOLID	WKGP	U	04-DEC-06	20-DEC-06
WG89210-1	MB			S	PHPAHWIPE	OTHR SOLID	WKGP	U	28-NOV-06	

Comments:

L40900-10	wipes
L40900-6	wipes
L40900-7	wipes
L40900-8	wipes
L40900-9	wipes
L41104-2	wipe blank
WG89210-1	FILTER PAPER BLANK

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
	WG89210-1		Extraction BLANK			50 BNA	1mL	AL	MO	11/28/04	samples conc
	WG89211-1					25 PCB					to 1mL split
Doubled Spiked ? →	41104-2		Funnel BLANK wipe								for BNA/PCB
	40900-6		Funnel wipes								0.5 BNA
	-7										0.5 PCB
	-8										
	-9										
	-10										

(1) Filter paper Rinsed with MeCl2

(2) Funnel wiped X 2 with MeCl2 soaked filter paper

(3) BNA/PCB surrogate added / samples extracted X 3 with 50 mls MeCl2 on Sonic bath and conc to 1.0 mL

(4) 0.5 BNA analysis / 0.5 exchanged to hex for AL clean up and conc to 0.5 mL for PCB analysis

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pm

KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab QC Report - 01/02/07 01:28
Run ID: R118046 Workgroup: WG89210 (PHPAH WIPE)

MB:WG89210-1 Matrix: OTHR SOLID Listtype: ORPHPAHWIPE Method: 8270D-WIPETEST Project: 423589-090-1 Pkey: STD
(Method Blank)

Parameter	Mdl	Rdl	Units	MB Value	Qual
Naphthalene	.02	.04	ug	<MDL	
Acenaphthylene	.01	.02	ug	<MDL	
Dimethyl Phthalate	.05	.1	ug	<MDL	
Acenaphthene	.01	.02	ug	<MDL	
Fluorene	.01	.02	ug	<MDL	
Diethyl Phthalate	.05	.1	ug	<MDL	
Phenanthrene	.01	.02	ug	<MDL	
Anthracene	.01	.02	ug	<MDL	
Di-N-Butyl Phthalate	.05	.1	ug	.259	B
Fluoranthene	.01	.02	ug	<MDL	
Pyrene	.01	.02	ug	<MDL	
Benzyl Butyl Phthalate	.05	.1	ug	.292	B
Benzo(a)anthracene	.01	.02	ug	<MDL	
Chrysene	.01	.02	ug	<MDL	
Bis(2-Ethylhexyl)Phthalate	.05	.1	ug	2.63	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	

X 3 = 0.777
X 3 = 0.876
X 3 = 7.890

BLANK X 3
Rule for phthalate
"B" flag

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KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab QC Report - 01/02/07 01:28
Run ID: R118046 Workgroup: WG89210 (PHPAH WIPE)

Sample #	2-Fluorobiphenyl	d14-Terphenyl
(Lab Limits)	30-115	18-137
L40900-6	24 *	24
L40900-7	90	118
L40900-8	60	74
L40900-9	107	122
L40900-10	87	101
L41104-2	87	97
WG89210-1	108	117

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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Trace Organics Data Anomaly Form

Date(s) Occurred: *06/11/29, 06/11/30*

WG #(s): *WG89210*

☒ **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: *PHPAHWIPE*
☐ Subcontracted:

II. Instrument

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

III. Type of Sample/Analytical Anomaly

☒ Values Outside of Control Limits:

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

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

Anomaly Description:

1. WG89210-1 Filter Blank had quantitatable levels of phthalates. The Bis(2EH)phthalate at 2.63 ug is slightly above "normal" lab background contamination. The source of the contamination is most likely from the extraction lab as the instrument blanks indicated no phthalates were detected. Past phthalate "spikes" have been documented with no real definative source identified. Samples with high

concetrations of phthalates have been extracted for sediment and IW projects and could have contributed to the lab contamination. All samples were flagged "B" in accordance with 3 times rule for the project.

7. L41104-2, L40900-6 and L40900-9 failed ISTD % differences compared to the daily standard on 06/11/29. The samples were re-analyzed on 06/11/30 and all ISTD % differences passed QA/QC limits.

8. L41104-2 Wipe Blanks was doubled spike with surrogates. The amount added was corrected in the samples header info and the sample was requantitated with all surrogates passing QA/QC.

IV. Type of Project Anomaly

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

Anomaly Description:

V. Corrective Action Taken

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

Corrective Action Description:

VI. Potential Effects on Data Quality:

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

	Signatures	Signature Dates
Reported By:		1/3/07
Reviewer:		
Supervisor: *Dana Walker*	Dana Walker	1/8/07
QA Officer: *Colin Elliott* (For QA1 only)		
cc: LPM:		

KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab Review Report - 01/09/07 07:12 - Data Source: ELD

Sample#: WG89210-1	Matrix:	OTHR SOLID	List Type:	ORPHPAHWIPE	
	Project:		Run ID:	R118046	Col. Date:
	Locator:	MB	Work Group:	WG89210	Rec. Date: 28-NOV-06
	Site:	NONE	QC Type:	MB	Due Date:
	Method Code:	8270D-WIPETEST			

Parameter	Value	Units	Valq	Mdl	Rdl	Textvalue
Naphthalene		ug	<MDL	.02	.04	
Acenaphthylene		ug	<MDL	.01	.02	
Dimethyl Phthalate		ug	<MDL	.05	.1	
Acenaphthene		ug	<MDL	.01	.02	
Fluorene		ug	<MDL	.01	.02	
Diethyl Phthalate		ug	<MDL	.05	.1	
Phenanthrene		ug	<MDL	.01	.02	
Anthracene		ug	<MDL	.01	.02	
Di-N-Butyl Phthalate	.259	ug	B	.05	.1	
Fluoranthene		ug	<MDL	.01	.02	
Pyrene		ug	<MDL	.01	.02	
Benzyl Butyl Phthalate	.292	ug	B	.05	.1	
Benzo(a)anthracene		ug	<MDL	.01	.02	
Chrysene		ug	<MDL	.01	.02	
Bis(2-Ethylhexyl)Phthalate	2.63	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	1.34	ug		.02	.04	
d14-Terphenyl	1.47	ug		.02	.04	
Amount Analyzed	1	g				
Standard Amount	1	g				
Dilution Factor	1	none				
Date Analyzed						29-NOV-06
Operator ID						M.Doubrava
Porthandler File						/usr/users/seed2/METROS3/files/gcms/WG89210-1.rp
Instrument ID						6890j.i
Prep Date						28-NOV-06

SURROGATE RECOVERY INFORMATION

Parameter	% Rec	Lab Limits
2-Fluorobiphenyl	108	30-115
d14 Terphenyl	117	18-137

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SEA425042

KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab Review Report - 01/09/07 07:12 - Data Source: ELD

Sample#: L41104-2	Matrix:	OTHR SOLID	List Type:	ORPHPAHWIPE	
	Project:	423589-090-1	Run ID:	R118046	Col. Date: 20-NOV-06
	Locator:	BWR	Work Group:	WG89210	Rec. Date: 20-NOV-06
	Site:	METRO	QC Type:		Due Date: 20-DEC-06
	Method Code:	8270D-WIPETEST			

Parameter	Value	Units	Valq	Mdl	Rdl	Textvalue
Naphthalene		ug	<MDL	.02	.04	
Acenaphthylene		ug	<MDL	.01	.02	
Dimethyl Phthalate		ug	<MDL	.05	.1	
Acenaphthene		ug	<MDL	.01	.02	
Fluorene		ug	<MDL	.01	.02	
Diethyl Phthalate		ug	<MDL	.05	.1	
Phenanthrene		ug	<MDL	.01	.02	
Anthracene		ug	<MDL	.01	.02	
Di-N-Butyl Phthalate		ug	<MDL	.05	.1	
Fluoranthene		ug	<MDL	.01	.02	
Pyrene		ug	<MDL	.01	.02	
Benzyl Butyl Phthalate		ug	<MDL	.05	.1	
Benzo(a)anthracene		ug	<MDL	.01	.02	
Chrysene		ug	<MDL	.01	.02	
Bis(2-Ethylhexyl)Phthalate	.233	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	2.18	ug		.02	.04	
d14-Terphenyl	2.42	ug		.02	.04	
Amount Analyzed	1	g				
Standard Amount	1	g				
Dilution Factor	1	none				
Date Analyzed						30-NOV-06
Operator ID						M.Doubrava
Porthandler File						/usr/users/seed2/METROS3/files/gcms/L41104-2.rp
Instrument ID						6890j.1
Prep Date						28-NOV-06

SURROGATE RECOVERY INFORMATION

Parameter	% Rec	Lab Limits
2-Fluorobiphenyl	87	30-115
d14-Terphenyl	97	18-137

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SEA425043

KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab Review Report - 01/09/07 07:11 - Data Source: ELD

Sample#: L40900-6	Matrix:	OTHR SOLID	List Type:	ORPHPAHWIPE	
	Project:	423589-090-1	Run ID:	R118046	Col. Date: 01-NOV-06
	Locator:	BWR	Work Group:	WG89210	Rec. Date: 01-NOV-06
	Site:	METRO	QC Type:		Due Date: 01-DEC-06
	Method Code:	8270D-WIPETEST			

Parameter	Value	Units	Valq	Mdl	Rdl	Textvalue
Naphthalene		ug	<MDL	.02	.04	
Acenaphthylene		ug	<MDL	.01	.02	
Dimethyl Phthalate		ug	<MDL	.05	.1	
Acenaphthene		ug	<MDL	.01	.02	
Fluorene		ug	<MDL	.01	.02	
Diethyl Phthalate		ug	<MDL	.05	.1	
Phenanthrene		ug	<MDL	.01	.02	
Anthracene		ug	<MDL	.01	.02	
Di-N-Butyl Phthalate		ug	<MDL	.05	.1	
Fluoranthene		ug	<MDL	.01	.02	
Pyrene		ug	<MDL	.01	.02	
Benzyl Butyl Phthalate		ug	<MDL	.05	.1	
Benzo(a)anthracene		ug	<MDL	.01	.02	
Chrysene		ug	<MDL	.01	.02	
Bis(2-Ethylhexyl)Phthalate	.339	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	.298	ug		.02	.04	
d14-Terphenyl	.302	ug		.02	.04	
Amount Analyzed	1	g				
Standard Amount	1	g				
Dilution Factor	1	none				
Date Analyzed						30-NOV-06
Operator ID						M.Doubrava
Porthandler File						/usr/users/seed2/METROS3/files/gcms/L40900-6.rp
Instrument ID						6890j.i
Prep Date						28-NOV-06

SURROGATE RECOVERY INFORMATION

Parameter	% Rec		Lab Limits
2-Fluorobiphenyl	24	*	30-115
d14-Terphenyl	24		18-137

KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab Review Report - 01/09/07 07:12 - Data Source: ELD

Sample#: L40900-7	Matrix: OTHR SOLID	List Type: ORPHPAHWIPE			
	Project: 423589-090-1	Run ID: R118046		Col. Date:	01-NOV-06
	Locator: CER	Work Group: WG89210		Rec. Date:	01-NOV-06
	Site: METRO	QC Type:		Due Date:	01-DEC-06
	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	.164	ug		.05	.1	
Phenanthrene	.0419	ug		.01	.02	
Anthracene		ug	<MDL	.01	.02	
Di-N-Butyl Phthalate	.417	ug	B	.05	.1	
Fluoranthene	.0278	ug		.01	.02	
Pyrene	.0212	ug		.01	.02	
Benzyl Butyl Phthalate	.4	ug	B	.05	.1	
Benzo(a)anthracene		ug	<MDL	.01	.02	
Chrysene		ug	<MDL	.01	.02	
Bis(2-Ethylhexyl)Phthalate	3.3	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	1.12	ug		.02	.04	
d14-Terphenyl	1.47	ug		.02	.04	
Amount Analyzed	1	g				
Standard Amount	1	g				
Dilution Factor	1	none				
Date Analyzed						29-NOV-06
Operator ID						M.Doubrava
Porthandler File						/usr/users/seed2/METROS3/file s/gcms/L40900-7.rp
Instrument ID						6890j i
Prep Date						28-NOV-06

SURROGATE RECOVERY INFORMATION

Parameter	% Rec	Lab Limits
2-Fluorobiphenyl	90	30-115
d14-Terphenyl	118	18-137

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SEA425045

KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab Review Report - 01/09/07 07:12 - Data Source: ELD

Sample#: L40900-8	Matrix:	OTHR SOLID	List Type:	ORPHPAHWIPE	
	Project:	423589-090-1	Run ID:	R118046	Col. Date: 01-NOV-06
	Locator:	DZ	Work Group:	WG89210	Rec. Date: 01-NOV-06
	Site:	METRO	QC Type:		Due Date: 01-DEC-06
	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	.192	ug		.05	.1	
Phenanthrene	.0478	ug		.01	.02	
Anthracene		ug	<MDL	.01	.02	
Di-N-Butyl Phthalate	.363	ug	B	.05	.1	
Fluoranthene	.0441	ug		.01	.02	
Pyrene	.0355	ug		.01	.02	
Benzyl Butyl Phthalate	.42	ug	B	.05	.1	
Benzo(a)anthracene		ug	<MDL	.01	.02	
Chrysene	.0284	ug		.01	.02	
Bis(2-Ethylhexyl)Phthalate	10.6	ug		.05	.1	
Di-N-Octyl Phthalate	.578	ug		.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	.034	ug	<RDL	.02	.04	
2-Methylnaphthalene		ug	<MDL	.01	.02	
2-Fluorobiphenyl	1.2	ug		.02	.04	
d14-Terphenyl	1.48	ug		.02	.04	
Amount Analyzed	1	g				
Standard Amount	1	g				
Dilution Factor	1	none				
Date Analyzed						29-NOV-06
Operator ID						M.Doubrava
Porthandler File						/usr/users/seed2/METRO93/files/gcms/L40900-8 rp
Instrument ID						6890j.i
Prep Date						28-NOV-06

SURROGATE RECOVERY INFORMATION

Parameter	% Rec	Lab Limits
2-Fluorobiphenyl	60	10-115
d14-Terphenyl	74	18-137

KCSlip4 58747

SEA425046

KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab Review Report - 01/09/07 07:12 - Data Source: ELD

Sample#: L40900 9	Matrix:	OTHR SOLID	List Type:	ORPHPAHWIPE	
	Project:	423589-090-1	Run ID:	R118046	Col. Date: 01-NOV-06
	Locator:	KCIA	Work Group:	WG89210	Rec. Date: 01-NOV-06
	Site:	METRO	QC Type:		Due Date: 01-DEC-06
	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	.126	ug		.05	.1	
Phenanthrene	.0814	ug		.01	.02	
Anthracene		ug	<MDL	.01	.02	
Di-N-Butyl Phthalate	.301	ug	B	.05	.1	
Fluoranthene	.18	ug		.01	.02	
Pyrene	.15	ug		.01	.02	
Benzyl Butyl Phthalate	.311	ug	B	.05	.1	
Benzo(a)anthracene	.0499	ug		.01	.02	
Chrysene	.113	ug		.01	.02	
Bis(2-Ethylhexyl)Phthalate	2.25	ug	B	.05	.1	
Di-N-Octyl Phthalate		ug	<MDL	.05	.1	
Benzo(b)fluoranthene	.154	ug		.02	.04	
Benzo(k)fluoranthene	.0993	ug		.02	.04	
Benzo(a)pyrene		ug	<MDL	.02	.04	
Indeno(1,2,3-Cd)Pyrene	.0854	ug		.02	.04	
Dibenzo(a,h)anthracene		ug	<MDL	.02	.04	
Benzo(g,h,i)perylene	.107	ug		.02	.04	
2-Methylnaphthalene		ug	<MDL	.01	.02	
2-Fluorobiphenyl	1.34	ug		.02	.04	
d14-Terphenyl	1.52	ug		.02	.04	
Amount Analyzed	1	g				
Standard Amount	1	g				
Dilution Factor	1	none				
Date Analyzed						30-NOV-06
Operator ID						M.Doubrava
Porthandler File						/usr/users/seed2/METROS3/files/gcms/L40900-9.rp
Instrument ID						6890j.i
Prep Date						28-NOV-06

SURROGATE RECOVERY INFORMATION

Parameter	% Rec	Lab Limits
2-Fluorobiphenyl	107	30-115
d14-Terphenyl	122	18-137

KCSlip4 58748

SEA425047

KING COUNTY METRO ENVIRONMENTAL LABORATORY
Lab Review Report - 01/09/07 07:11 - Data Source: ELD

Sample#: L40900-10	Matrix:	OTHR SOLID	List Type:	ORPHPAHWIPE	
	Project:	423589-090-1	Run ID:	R118046	Col. Date: 01-NOV-06
	Locator:	SPCC	Work Group:	WG89210	Rec. Date: 01-NOV-06
	Site:	METRO	QC Type:		Due Date: 01-DEC-06
	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	.191	ug		.05	.1	
Phenanthrene	.0539	ug		.01	.02	
Anthracene		ug	<MDL	.01	.02	
Di-N-Butyl Phthalate	.337	ug	B	.05	.1	
Fluoranthene	.0513	ug		.01	.02	
Pyrene	.0451	ug		.01	.02	
Benzyl Butyl Phthalate	.445	ug	B	.05	.1	
Benzo(a)anthracene	.016	ug	<RDL	.01	.02	
Chrysene	.0246	ug		.01	.02	
Bis(2-Ethylhexyl)Phthalate	4.6	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	1.36	ug		.02	.04	
d14-Terphenyl	1.58	ug		.02	.04	
Amount Analyzed	1	g				
Standard Amount	1	g				
Dilution Factor	1	none				
Date Analyzed						29-NOV-06
Operator ID						M.Doubrava
Porthandler File						/usr/users/seed2/METROS3/files/gcms/L40900-10.rp
Instrument ID						6890j.i
Prep Date						28-NOV-06

SURROGATE RECOVERY INFORMATION

Parameter	% Rec	Lab Limits
2-Fluorobiphenyl	87	30-115
d14-Terphenyl	101	18-137