

October 2, 2000

Service Request No: K2006704

John Strand Columbia Biological Assessments 1314 Cedar Richland, WA 99352

Re: Water/Sediment Quality Monitoring/00-101G

Dear John:

Enclosed are the results of the sample(s) submitted to our laboratory on August 30, 2000. For your reference, these analyses have been assigned our service request number K2006704.

All analyses were performed according to our laboratory's quality assurance program. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for use of less than the complete report. Results apply only to the samples analyzed.

Please call if you have any questions. My extension is 3316.

Respectfully submitted,

Columbia Analytical Services, Inc.

Jeff Christian

Laboratory Director

JC/gl

Page 1 of 45

Acronyms

ASTM American Society for Testing and Materials

A2LA American Association for Laboratory Accreditation

CARB California Air Resources Board

CAS Number Chemical Abstract Service registry Number

CFC Chlorofluorocarbon
CFU Colony-Forming Unit

DEC Department of Environmental Conservation

DEQ Department of Environmental Quality

DHS Department of Health Services

DOE Department of Ecology
DOH Department of Health

EPA U. S. Environmental Protection Agency

ELAP Environmental Laboratory Accreditation Program

GC Gas Chromatography

GC/MS Gas Chromatography/Mass Spectrometry

LUFT Leaking Underground Fuel Tank

M Modified

MCL Maximum Contaminant Level is the highest permissible concentration of a substance

allowed in drinking water as established by the USEPA.

MDL Method Detection Limit
MPN Most Probable Number
MRL Method Reporting Limit

NA Not Applicable
NC Not Calculated

NCASI National Council of the Paper Industry for Air and Stream Improvement

ND Not Detected

NIOSH National Institute for Occupational Safety and Health

PQL Practical Quantitation Limit

RCRA Resource Conservation and Recovery Act

SIM Selected Ion Monitoring

TPH Total Petroleum Hydrocarbons

tr Trace level is the concentration of an analyte that is less than the PQL but greater

than or equal to the MDL.

Inorganic Data Qualifiers

- The result is an outlier. See case narrative.
- # The control limit criteria is not applicable. See case narrative.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result.
- E The result is an estimate amount because the value exceeded the instrument calibration range.
- J The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
- U The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
- i The MRL/MDL has been elevated due to a matrix interference.
- X See case narrative.

Metals Data Qualifiers

- # The control limit criteria is not applicable. See case narrative.
- B The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
- E The reported value is estimated because of the presence of matrix interference.
- M The duplicate injection precision was not met.
- N The Matrix Spike sample recovery is not within control limits. See case narrative.
- S The reported value was determined by the Method of Standard Additions (MSA).
- U The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
- W The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
- i The MRL/MDL has been elevated due to a matrix interference.
- X See case narrative.
- * The duplicate analysis not within control limits. See case narrative.
- + The correlation coefficient for the MSA is less than 0.995.

Organic Data Qualifiers

- The result is an outlier. See case narrative.
- # The control limit criteria is not applicable. See case narrative.
- A A tentatively identified compound, a suspected aldol-condensation product.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result.
- C The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data.
- D The reported result is from a dilution.
- E The result is an estimate amount because the value exceeded the instrument calibration range.
- J The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
- N The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
- P The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results (25% for CLP Pesticides).
- U The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
- i The MRL/MDL has been elevated due to a matrix interference.
- X See case narrative.

Additional Petroleum Hydrocarbon Specific Qualifiers

- F The chromatographic fingerprint of the sample matches the clution pattern of the calibration standard.
- The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
- H The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
- O The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
- Y

 The chromatographic fingerprint of the sample resembles a petroleum product eluting in approximately the correct carbon range, but the elution pattern does not match the calibration standard.
- Z The chromatographic fingerprint does not resemble a petroleum product.

Client:

Airport Communities Coalition
Water/Sediment Quality Monitoring

Service Request No.:

K2006704

Project: Sample Matrix:

Water/Sediment/Tissue

Date Received:

8/30/00

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of Columbia Analytical Services, Inc. (CAS). This report contains analytical results for sample(s) designated for Tier II data deliverables. When appropriate to the method, method blank results have been reported with each analytical test. Surrogate recoveries have been reported for all applicable organic analyses. Additional quality control analyses reported herein include: Laboratory Duplicate (DUP), Matrix Spike (MS), Matrix/Duplicate Matrix Spike (MS/DMS), and Laboratory Control Sample (LCS).

Turbidity

No anomalies associated with the analysis of these samples were observed.

TSS

Due to an internal tracking error, samples IA_8, IIB-8, IIA-8, and IB-8 were analyzed three days past the EPA recommended hold time. Although the technical ramifications of the extended hold time are probably insignificant, the error is still in violation of the method. The oversight was reported to John Strand (Columbia Biological Assessments). No further corrective action was possible.

<u>Metals</u>

No anomalies associated with the analysis of these samples were observed.

PCB Aroclors

MS Percent Recovery Exceptions:

The control criteria for the Matrix/Duplicate Matrix Spike recovery of AR1016 and AR1260 for the "Batch QC" sample is not applicable. The sample contained an elevated Aroclor 1248 concentration. When Aroclor 1248 is present at significantly high concentration, complete resolution of Aroclors 1016 and 1260 is not possible. Thus, the concentrations listed on the MS/MSD summary page are not applicable. The associated LCS recoveries were within acceptance limits, indicating the analysis was in control.

Elevated MRLs:

Sample IA-6 had to be diluted. The sample was still very dark (i.e. indication of high organic extractables) after GPC clean-up, so the extract was brought to a 4mL final volume rather than the normal 2mL final volume. The reporting limits have been elevated accordingly.

Approved by

Date 10/2/00

Pesticides

Surrogate Exceptions:

The control criteria were exceeded for the following surrogate(s) in sample K2006693-012MS (i.e. "Batch QC") due to matrix interferences: DCB. The chromatogram showed background matrix components that could not be completely resolved from the surrogate peak. The contribution from the matrix is reflected in the elevated recovery. The quality of the data is not impacted by the surrogate recovery of 123%.

Elevated MRLs:

Sample IA-6 had to be diluted. The sample was still very dark (i.e. indication of high organic extractables) after GPC clean-up, so the extract was brought to a 4mL final volume rather than the normal 2mL final volume. The reporting limits have been elevated accordingly.

Fuel Identification and Quantification (FIQ)

No anomalies associated with the analysis of these samples were observed.

Approved by Date Co/2/00

Analytical Report

Client:

Airport Communities Coalition

Project:

Water/Sediment Quality Monitoring/00-101G

Sample Matrix:

Sediment

Service Request: K2006704 Date Collected: 8/29/00

Date Received: 8/30/00

Total Solids

Prep Method:

NONE

Units: Percent

Analysis Method: 160.3M

Basis: WET

Test Notes:

		Date		Result
Sample Name	Lab Code	Analyzed	Result	Notes
IA-4	K2006704-004	9/6/00	71.5	
IA-5	K2006704-005	9/6/00	68.9	
IA-6	K2006704-006	9/6/00	77.1	
IIB-4	K2006704-013	9/6/00	78 .7	
IIB-5	K2006704-014	9/6/00	65.7	
IIB-6	K2006704-015	9/6/00	78.9	
IIA-4	K2006704-022	9/6/00	19.8	
IIA-5	K2006704-023	9/6/00	53.1	
IIA-6	K2006704-024	9/6/00	40.7	
IB-4	K2006704-034	9/6/00	71.0	
IB-5	K2006704-035	9/6/00	75.1	
IB-6	K2006704-036	9/6/00	69.3	

Approved By:

Total Solids/042095

06704ICP.AB1 - Total Solids 9/8/00

0000E.

Analytical Report

Client:

Airport Communities Coalition

Project:

Water/Sediment Quality Monitoring

Sample Matrix:

Water

Service Request: K2006704

Date Collected: 8/28,29/00
Date Received: 8/30/00

Date Extracted: NA

Inorganic Parameters Units: mg/L (ppm)

. Metho	Analyte: EPA Method: od Reporting Limit: Date Analyzed:	Solids, Total Suspended 160.2 5 9/2,8/00	Turbidity (NTU) 180.1 0.1 9/5/00
Sample Name	Lab Code		
IA-8 FL518 IIB-8 5 200 WS IIA-8 CHA DA REMOVIN PLW IIIA-1 Tubes Hill PK-DM Min IIB-8 5157 W PI Method Blank	K2006704-008 K2006704-017 K2006704-025 K2006704-030 K2006704-038 K2006704-MB	ND ND ND 29 7 ND	1.5 0.8 1.3 8.6 1.6 ND

Analytical Report

Client:

Airport Communities Coalition

Project:

Water/Sediment Quality Monitoring/00-101G

Sample Matrix: W

06704ICP.BR1 - Sample 9/27/00

Water

Service Request: K2006704

Date Collected: 8/29/00
Date Received: 8/30/00

Date Extracted: 9/22/00

Total Metals Units: μg/L (ppb)

	Analyte: EPA Method: Method Reporting Limit: Date Analyzed:	Copper 200.8 0.1 9/24/00	Lead 200.8 0.02 9/24/00	Zinc 200.8 0.5 9/24/00
Sample Name	Lab Code			
IA-1 IA-2 IA-3 IIB-1 IIB-2 IIA-1 IIA-2 IIA-3 IVA-1 Daniels Cresk (Cold IIB-1 IIB-2 IIA-3 IVA-1 Daniels Cresk (Cold IIB-1 IIB-2 IIB-3 IIB-3 Method Blank	K2006704-001 K2006704-002 K2006704-010 K2006704-011 K2006704-019 K2006704-020 K2006704-021 K2006704-021 K2006704-021 K2006704-031 K2006704-033 K2006704-033 K2006704-MB	1.3 1.4 1.4 2.8 1.3 0.7 0.7 0.8 3.3 1.2 1.8 1.0 ND	0.66 0.61 0.67 2.06 0.18 0.15 0.04 0.04 0.22 0.63 2.46 0.52 ND	6.9 7.2 7.1 14.1 5.2 3.6 3.6 4.3 2.8 3.7 16.4 3.3

* Lower down on west branch of Des Morines Creek, yet above Type Good Li

Approved By:	J.	Date:	9/30/00	
AEPA/102694	/		• •	

AAAAA Per No

Analytical Report

Client:

Airport Communities Coalition

Project:

Water/Sediment Quality Monitoring/00-101G

Service Request: K2006704

Date Collected: 8/29/00

Sample Matrix:

Sediment

Date Received: 8/30/00 Date Extracted: 9/14/00

Total Metals
Units: mg/Kg (ppm)
Dry Weight Basis

	Analyte:	Copper	Lead	Zinc
	EPA Method:	200.8	200.8	200.8
	Method Reporting Limit:	0.1	0.05	0.5
	Date Analyzed:	9/15/00	9/15/00	9/15/00
Sample Name	Lab Code			
IA-47	K2006704-004	13.4	47.9	[91.1]
IA-5 SR 5 A	K2006704-005	11.9	44.3	85.1
IA-6J	K2006704-006	12.4	38.2	79.7
IB-45 200 th St Math	K2006704-013	7.3	7.08	39.2
IB-5 pt 4 South	K2006704-014	13.2	20.8	79.2
IIB-6. A & South	L K2006704-015	6.5	9.41	55.1
IIA-47 / / \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	K2006704-022	86.2	128	908
IIA-5 Cotta De Ligare	K2006704-023	23.3	43.1	120
IIA-6	K2006704-024	42.4	73.5	8 <u>70</u>)
IB-47	K2006704-034	21.57	19.4	81.8
IB-5 (8 15744 PL	K2006704-035	8.1 }	27.6	77.5
IB-6,	K2006704-036	7.9	19.6	95.3
Method Blank	K2006704-MB	ND	ND	ND

Analytical Report

Client:

Airport Communities Coalition

Water/Sediment Quality Monitoring/00-101G

Service Request: K2006704 Date Collected: 8/29/00

Project:

Tissue

Date Received: 8/30/00

Prep Method:

Sample Matrix:

NONE

Solids, Total

Analysis Method: Freeze Dry

Units: PERCENT Basis: Wet

Test Notes:

Result Date Notes Result Analyzed Lab Code Sample Name 20.1 9/14/00 K2006704-007 IA-7 25.0 9/14/00 K2006704-016 IIB-7 , IVA-3 Savids Colletter 26.6 9/14/00 K2006704-029 23.7 9/14/00 K2006704-037 IB-7

Approved By: 1A/052595

067049CP.JC1 - Sample 9/20/00

Analytical Report

Client:

Airport Communities Coalition

Project:

Sample Matrix:

Sample Name

Method Blank

06704ICP.BR3 - Semple 9/27/00

Water/Sediment Quality Monitoring/00-101G

K2006704-MB

Tissue

Service Request: K2006704 Date Collected: 8/29/00

Date Received: 8/30/00 Date Extracted: 9/22/00

ND

Total Metals

Units: mg/Kg (ppm) Dry Weight Basis

Zinc Copper Lead Analyte: 200.8 200.8 200.8 EPA Method: 0.02 0.5 0.1 Method Reporting Limit: 9/26/00 9/26/00 9/26/00 Date Analyzed: Lab Code IA-7 S157411 · enthroat
IIB-7 134402 · crayhoh
IVA-3 Dunels Cr. cutthout 145 0.31 6.5 K2006704-007 0.36 68.5 128 K2006704-016 0.04 71.3 K2006704-029 2.0 81.7 1.41 116 B-7 SBTKLAL CREYFER K2006704-037

ND

Approved By: 3AEPA/102694

00011

ND

Analytical Report

Client:

Airport Communities Coalition

Project:

Water/Sediment Quality Monitoring/00-101G

Service Request: K2006704 Date Collected: 8/8/99

Sample Matrix:

Sediment

Date Received: 9/1/00

Organochlorine Pesticides

Sample Name:

IA-6 38514

Lab Code:

K2006704-006

Test Notes:

Units: ug/Kg (ppb)

Basis: Dry

Analyte	Prep Method	Analysis Method	MRL	MDL	Dilution Factor	Date	Date	Damilé	Result
Analyte	Mctuod	Memon	MIKL	MUL	Factor	Extracted	Allalyzcu	Result	Notes
alpha-BHC	EPA 3540C	8081A	2	0.3	1	9/6/00	9/23/00	ND	
beta-BHC	EPA 3540C	8081A	2	0.3	1	9/6/00	9/23/00	ND	
gamma-BHC (Lindane)	EPA 3540C	8081A	2	0.5	1	9/6/00	9/23/00	ND	
delta-BHC	EPA 3540C	8081A	2	0.3	1	9/6/00	9/23/00	ND	
Heptachlor	EPA 3540C	8081A	2	0.4	1	9/6/00	9/23/00	ND	
Aldrin	EPA 3540C	8081A	2	0.5	1	9/6/00	9/23/00	ND	
Heptachlor Epoxide	EPA 3540C	8081A	2	0.6	1	9/6/00	9/23/00	ND	
gamma-Chlordane	EPA 3540C	8081A	2	0.4	1	9/6/00	9/23/00	ND	
Endosulfan I	EPA 3540C	8081A	2	0.2	1	9/6/00	9/23/00	ND	
alpha-Chiordane	EPA 3540C	8081A	2	0.3	1	9/6/00	9/23/00	ND	
Dieldrin	EPA 3540C	8081A	2	0.4	1	9/6/00	9/23/00	ND	
4,4'-DDE	EPA 3540C	8081A	2	0.3	1	9/6/00	9/23/00	ND	
Endrin	EPA 3540C	8081A	2	0.3	1	9/6/00	9/23/00	ND	
Endosulfan II	EPA 3540C	8081A	2	0.4	1	9/6/00	9/23/00	ND	
4,4'-DDD	EPA 3540C	8081A	2	0.5	1	9/6/00	9/23/00	ND	
Endrin Aldehyde	EPA 3540C	8081A	2	0.3	1	9/6/00	9/23/00	ND	
Endosulfan Sulfate	EPA 3540C	8081A	2	0.4	1	9/6/00	9/23/00	ND	
4,4'-DDT	EPA 3540C	8081A	2	0.2	1	9/6/00	9/23/00	ND	
Endrin Ketone	EPA 3540C	8081A	2	0.4	1	9/6/00	9/23/00	ND	
Methoxychlor	EPA 3540C	8081A	2	0.6	1	9/6/00	9/23/00	ND	
Toxaphene	EPA 3540C	8081A	100	10	1	9/6/00	9/23/00	ND	

Approved By:	Date:	9-27-00
1S22/020597p		

06704SVG_AY1 - 6 9/26/00

00012 age No.:

Analytical Report

Client:

Airport Communities Coalition

Project: Sample Matrix: Water/Sediment Quality Monitoring/00-101G

Sediment

Service Request: K2006704

Date Collected: NA

Date Received: NA

Units: ug/Kg (ppb)

Basis: Dry

Organochlorine Pesticides

Sample Name:

Method Blank

Lab Code:

KWG2003820-7

Test Notes:

Analyte	Prep Method	Analysis Method	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Result	Result Notes
							•		
alpha-BHC	EPA 3540C	8081A	1	0.3	1	9/6/00	9/21/00	ND	
beta-BHC	EPA 3540C	8081A	1	0.3	1	9/6/00	9/21/00	ND	
gamma-BHC (Lindane)	EPA 3540C	8081A	1	0.5	1	9/6/00	9/21/00	ND	
delta-BHC	EPA 3540C	8081A	1	0.3	1	9/6/00	9/21/00	ND	
Heptachlor	EPA 3540C	8081A	1	0.4	1	9/6/00	9/21/00	ND	
Aldrin	EPA 3540C	8081A	1	0.5	1	9/6/00	9/21/00	ND	
Heptachlor Epoxide	EPA 3540C	8081A	1	0.6	1	9/6/00	9/21/00	ND	
gamma-Chlordane	EPA 3540C	8081A	1	0.4	1	9/6/00	9/21/00	ND	
Endosulfan I	EPA 3540C	8081A	1	0.2	1	9/6/00	9/21/00	ND	
alpha-Chlordane	EPA 3540C	8081A	1	0.3	1	9/6/00	9/21/00	ND	
Dieldrin	EPA 3540C	8081A	1	0.4	1	9/6/00	9/21/00	ND	
4,4'-DDE	EPA 3540C	8081A	1	0.3	1	9/6/00	9/21/00	ND	
Endrin	EPA 3540C	8081A	1	0.3	. 1	9/6/00	9/21/00	ND	
Endosulfan II	EPA 3540C	8081A	1	0.4	1	9/6/00	9/21/00	ND	
4,4'-DDD	EPA 3540C	8081A	1	0.5	1	9/6/00	9/21/00	ND	
Endrin Aldehyde	EPA 3540C	8081A	1	0.3	1	9/6/00	9/21/00	ND	
Endosulfan Sulfate	EPA 3540C	8081A	1	0.4	1	9/6/00	9/21/00	ND	
4,4'-DDT	EPA 3540C	8081A	1	0.2	1	9/6/00	9/21/00	ND	
Endrin Ketone	EPA 3540C	8081A	1	0.4	1	9/6/00	9/21/00	ND	
Methoxychlor	EPA 3540C	8081A	1	0.6	1	9/6/00	9/21/00	ND	
Toxaphene	EPA 3540C	8081A	50	10	1	9/6/00	9/21/00	ND	

Approved By:	VN	Date:	9-27-00
1S22/020597p			

067045VG.AY1 - MB 9/26/00

Analytical Report

Client:

Airport Communities Coalition

Project:

Water/Sediment Quality Monitoring/00-101G

Service Request: K2006704

Date Collected: 8/29/00

Sample Matrix:

Sediment

Date Received: 8/30/00

Polychlorinated Biphenyls (PCBs)

Sample Name:

IA-6

X

Units: ug/Kg (ppb)

Lab Code:

K2006704-006

Basis: Dry

Test Notes:

Analyte	Prep Method	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	Result Notes
Arocior 1016	EPA 3540C	8082	20	1	9/6/00	9/20/00	ND	
Aroclor 1221	EPA 3540C	8082	40	1	9/6/00	9/20/00	ND	
Aroclor 1232	EPA 3540C	8082	20	1	9/6/00	9/20/00	ND	
Aroclor 1242	EPA 3540C	8082	20	1	9/6/00	9/20/00	ND	
Aroclor 1248	EPA 3540C	8082	20	1	9/6/00	9/20/00	ND	
Aroclor 1254	EPA 3540C	8082	20	1	9/6/00	9/20/00	ND	
Arocior 1260	EPA 3540C	8082	20	1	9/6/00	9/20/00	ND	

Approved By: Date: 9/22/00

067045VG.VN1 - 1 9/22/00

Analytical Report

Client:

Airport Communities Coalition

Project:

Water/Sediment Quality Monitoring/00-101G

Date Collected: NA

Sample Matrix:

Sediment

Date Received: NA

Service Request: K2006704

Polychlorinated Biphenyls (PCBs)

Sample Name:

Method Blank

Lab Code: Test Notes: KWG2003820-7

Units: ug/Kg (ppb)

Basis: Dry

Analyte	Prep Method	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	Result Notes
Aroclor 1016	EPA 3540C	8082	10	1	9/6/00	9/20/00	ND	
Aroclor 1221	EPA 3540C	8082	20	1	9/6/00	9/20/00	ND	
Aroclor 1232	EPA 3540C	8082	10	1	9/6/00	9/20/00	ND	
Aroclor 1242	EPA 3540C	8082	10	1	9/6/00	9/20/00	ND	
Aroclor 1248	EPA 3540C	8082	10	1	9/6/00	9/20/00	ND	
Aroclor 1254	EPA 3540C	8082	10	1	9/6/00	9/20/00	ND	
Aroclor 1260	EPA 3540C	8082	10	1	9/6/00	9/20/00	ND	

Approved By: Date: 9/12/10

06704SVG.VNI - MB 9/22/00

00015 Page No.:

Analytical Report

Client:

Airport Communities Coalition

Project:

Water/Sediment Quality Monitoring/00-101G

Service Request: K2006704 Date Collected: 8/29/00

Sample Matrix:

Date Received: 8/30/00

Semivolatile Petroleum Products Fuel Identification and Quantitation (FIQ) Hydrocarbon Scan

Sample Name:

IA-9 58518

K2006704-009

Units: ug/L (ppb)

Basis: NA

Lab Code: Test Notes:

Analyte	Prep Method	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	Result Notes
Gasoline	EPA 3510C	8015B	100	1	9/1/00	9/14/00	ND	•
Naphtha Distillate	EPA 3510C	8015B	100	1	9/1/00	9/14/00	ND	•
Jet Fuel as JP-4	EPA 3510C	8015B	100	1	9/1/00	9/14/00	ND	•
Mineral Spirits	EPA 3510C	8015B	100	1	9/1/00	9/14/00	ND	
Jet Fuel as Jet A	EPA 3510C	8015B	100	1	9/1/00	9/14/00	ND	
Kerosene	EPA 3510C	8015B	100	1	9/1/00	9/14/00	ND	
Diesel	EPA 3510C	801 <i>5</i> B	100	1	9/1/00	9/14/00	ND	
Heavy Fuel Oil	EPA 3510C	8015B	250	1	9/1/00	9/14/00	ND	
Lube Oil	EPA 3510C	801 <i>5</i> B	250	1	9/1/00	9/14/00	ND	
PHC as Diesel	EPA 3510C	8015B	250	1	9/1/00	9/14/00	ND	
Non-PHC as Diesel	EPA 3510C	8015B	500	1	9/1/00	9/14/00	ND	

PHC as Diesel Fuel: Non-PHC as Diesel:	Extractable Petroleum Hydrocarbon fingerprint not matching any of the target analytes. Non-Petroleum Hydrocarbon components eluting in the extractable range of n-C8 - n-C44.				
				•	
Approved By:	w	Date:	9/29/00		
1822/020597p					

06704PHCLL1 - 9 9/29/00

Analytical Report

Client:

Airport Communities Coalition

Service Request: K2006704

Project:

Water/Sediment Quality Monitoring/00-101G

Date Collected: 8/29/00

Sample Matrix:

Water

Date Received: 8/30/00

Semivolatile Petroleum Products Fuel Identification and Quantitation (FIQ) Hydrocarbon Scan

Sample Name:

IIB-9 5280 st

Units: ug/L (ppb)

Lab Code:

K2006704-018

Basis: NA

Test Notes:

Analyte	Prep Method	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	Result Notes
Gasoline	EPA 3510C	8015B	100	1	9/1/00	9/14/00	ND	•
Naphtha Distillate	EPA 3510C	8015B	100	1	9/1/00	9/14/00	ND	. •
Jet Fuel as JP-4	EPA 3510C	8015B	100	1	9/1/00	9/14/00	ND	•
Mineral Spirits	EPA 3510C	8015B	100	1	9/1/00	9/14/00	ND	
Jet Fuel as Jet A	EPA 3510C	8015B	100	1	9/1/00	9/14/00	ND	
Kerosene	EPA 3510C	8015B	100	1	9/1/00	9/14/00	ND	
Diesel	EPA 3510C	8015B	100	1	9/1/00	9/14/00	ND	
Heavy Fuel Oil	EPA 3510C	8015B	250	1	9/1/00	9/14/00	ND	
Lube Oil	EPA 3510C	8015B	250	1	9/1/00	9/14/00	ND	
PHC as Diesel	EPA 3510C	8015B	250	1	9/1/00	9/14/00	ND	
Non-PHC as Diesel	EPA 3510C	8015B	500	1	9/1/00	9/14/00	ND	

PHC as Diesel Fuel: Non-PHC as Diesel:	Extractable Petro	Semi-quantitative. Results are expected to exhibit a low bias due to the extraction procedure. Extractable Petroleum Hydrocarbon fingerprint not matching any of the target analytes. Non-Petroleum Hydrocarbon components eluting in the extractable range of n-C8 - n-C44.						
Approved By:		₩	Date:	1/21/00				
06704PHC.LL1 - 18 9/29/00					Page No.:			

Analytical Report

Client:

Airport Communities Coalition

Service Request: K2006704

Project:

Water/Sediment Quality Monitoring/00-101G

Date Collected: 8/29/00

Date Received: 8/30/00

Sample Matrix:

Water

Semivolatile Petroleum Products Fuel Identification and Quantitation (FIQ) Hydrocarbon Scan

Sample Name:

IIA-9 3157# AZ

Units: ug/L (ppb)

Lab Code:

K2006704-026

Basis: NA

Test Notes:

Analyte	Prep Method	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	Result Notes
a . "	EPA 3510C	8015B	100	1	9/1/00	9/15/00	ND	•
Gasoline	EPA 3510C	8015B	100	1	9/1/00	9/15/00	ND	•
Naphtha Distillate	EPA 3510C EPA 3510C	8015B	100	1	9/1/00	9/15/00	ND	•
Jet Fuel as JP-4	EPA 3510C	8015B	100	1	9/1/00	9/15/00	ND	
Mineral Spirits	EPA 3510C	8015B	100	1	9/1/00	9/15/00	ND	
Jet Fuel as Jet A	EPA 3510C EPA 3510C	8015B	100	1	9/1/00	9/15/00	ND	
Kerosene	EPA 3510C EPA 3510C	8015B	100	1	9/1/00	9/15/00	ND	
Diesel	EPA 3510C EPA 3510C	8015B	250	1	9/1/00	9/15/00	ND	
Heavy Fuel Oil	EPA 3510C	8015B	250	1	9/1/00	9/15/00	ND	
Lube Oil	EPA 3510C	8015B	250	1	9/1/00	9/15/00	ND	
PHC as Diesel Non-PHC as Diesel	EPA 3510C	8015B	500	1	9/1/00	9/15/00	ND	

PHC as Diesel Fuel: Non-PHC as Diesel:	Semi-quantitative. Results are expected to exhibit a low bias due to the extraction procedure. Extractable Petroleum Hydrocarbon fingerprint not matching any of the target analytes. Non-Petroleum Hydrocarbon components eluting in the extractable range of n-C8 - n-C44.					
Approved By:	W		Date:	9/24/10	-	

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Analytical Report

Client:

Airport Communities Coalition

Project:

Sample Matrix:

Water/Sediment Quality Monitoring/00-101G

Water

Service Request: K2006704

Date Collected: 8/28/00 Date Received: 8/30/00

Semivolatile Petroleum Products Fuel Identification and Quantitation (FIQ) Hydrocarbon Scan

Sample Name:

IVA-2 Dunils Cr (Cotap 1K)
K2006704-028

Units: ug/L (ppb)

Lab Code:

Basis: NA

1	esi	NOTES:	

Analyte	Prep Method	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	Result Notes
Gasoline	EPA 3510C	8015B	100	1	9/1/00	9/15/00	ND	•
Naphtha Distillate	EPA 3510C	8015B	100	1	9/1/00	9/15/00	ND	
Jet Fuel as JP-4	EPA 3510C	8015B	100	1	9/1/00	9/15/00	ND	
Mineral Spirits	EPA 3510C	8015B	100	1	9/1/00	9/15/00	ND	
Jet Fuel as Jet A	EPA 3510C	8015B	100	1	9/1/00	9/15/00	ND	
Kerosene	EPA 3510C	8015B	100	1	9/1/00	9/15/00	ND	
Diesel	EPA 3510C	8015B	100	1	9/1/00	9/15/00	ND	
Heavy Fuel Oil	EPA 3510C	8015B	250	1	9/1/00	9/15/00	ND	
Lube Oil	EPA 3510C	8015B	250	1	9/1/00	9/15/00	ND	
PHC as Diesel	EPA 3510C	8015B	250	1	9/1/00	9/15/00	ND	
Non-PHC as Diesel	EPA 3510C	8015B	500	1	9/1/00	9/15/00	ND	

PHC	as	Diesel	Fuel

Semi-quantitative. Results are expected to exhibit a low bias due to the extraction procedure.

Extractable Petroleum Hydrocarbon fingerprint not matching any of the target analytes.

Non-PHC as Diesel:

Non-Petroleum Hydrocarbon components eluting in the extractable range of n-C8 - n-C44.

Approved By:	14	Date:	gleglos	
1572/000607-				

06704PHCLL1 - 28 9/29/00

Page No.:

Analytical Report

Client:

Airport Communities Coalition

Service Request: K2006704

Project:

Water/Sediment Quality Monitoring/00-101G

Date Collected: 8/29/00

Sample Matrix:

Water

Date Received: 8/30/00

Semivolatile Petroleum Products Fuel Identification and Quantitation (FIQ) Hydrocarbon Scan

Sample Name:

B-9 5574 R

Units: ug/L (ppb)

Lab Code:

K2006704-039

Basis: NA

Test Notes:

Analyte	Prep Method	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	Result Notes
Gasoline	EPA 3510C	8015B	100	1	9/1/00	9/15/00	ND	•
Naphtha Distillate	EPA 3510C	8015B	100	1	9/1/00	9/15/00	ND	•
Jet Fuel as JP-4	EPA 3510C	8015B	100	1	9/1/00	9/15/00	ND	•
Mineral Spirits	EPA 3510C	8015B	100	1	9/1/00	9/15/00	ND	
Jet Fuel as Jet A	EPA 3510C	8015B	100	1	9/1/00	9/15/00	ND	
Kerosene	EPA 3510C	8015B	100	1	9/1/00	9/15/00	ND	
Diesel	EPA 3510C	8015B	100	1	9/1/00	9/15/00	ND	
Heavy Fuel Oil	EPA 3510C	8015B	250	1	9/1/00	9/15/00	ND	
Lube Oil	EPA 3510C	801 <i>5</i> B	250	1	9/1/00	9/15/00	ND	
PHC as Diesel	EPA 3510C	801 <i>5</i> B	250	1	9/1/00	9/15/00	ND	
Non-PHC as Diesel	EPA 3510C	8015B	500	1	9/1/00	9/15/00	ND	

* Semi-quantitative. Results are expected to exhibit a low bias due to the extraction produced by the						
Non-PHC as Diesel:		carbon components eluting in the		-	4 .	
Approved By:		#	Date: _	10/-100		
1 S22/020597p						
06704PHC.LLI - 39 10/2/00					• •	

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Analytical Report

Client:

Airport Communities Coalition

Service Request: K2006704

Project:

Water/Sediment Quality Monitoring/00-101G

Date Collected: NA

Sample Matrix:

Water

Date Received: NA

Semivolatile Petroleum Products
Fuel Identification and Quantitation (FIQ) Hydrocarbon Scan

Sample Name:

Method Blank

Units: ug/L (ppb)

Lab Code:

K000901-WB

Basis: NA

Test Notes:

	Prep	Analysis		Dilution	Date	Date	~ 14	Result
Analyte	Method	Method	MRL	Factor	Extracted	Analyzed	Result	Notes
Gasoline	EPA 3510C	8015B	100	1	9/1/00	9/14/00	ND	•
Naphtha Distillate	EPA 3510C	8015B	100	1	9/1/00	9/14/00	ND	*
Jet Fuel as JP-4	EPA 3510C	8015B	100	1	9/1/00	9/14/00	ND	•
Mineral Spirits	EPA 3510C	8015B	100	1	9/1/00	9/14/00	ND	
Jet Fuel as Jet A	EPA 3510C	8015B	100	1	9/1/00	9/14/00	ND	
Kerosene	EPA 3510C	8015B	100	1	9/1/00	9/14/00	ND	
Diesel	EPA 3510C	8015B	100	1	9/1/00	9/14/00	ND	
Heavy Fuel Oil	EPA 3510C	8015B	250	1	9/1/00	9/14/00	ND	
Lube Oil	EPA 3510C	8015B	250	1	9/1/00	9/14/00	ND	
PHC as Diesel	EPA 3510C	8015B	250	1	9/1/00	9/14/00	ND	
Non-PHC as Diesel	EPA 3510C	8015B	500	1	9/1/00	9/14/00	ND	

	Semi-quantitative. Results are expected to exhibit a low bias due to the extraction procedure.
NO sa Dissal Eval	Extractable Petroleum Hydrocarbon fingerprint not matching any of the target analytes.

PHC as Diesel Fuel: Non-PHC as Diesel:

Non-Petroleum Hydrocarbon components eluting in the extractable range of n-C8 - n-C44.

Approved By:	 Date:	10/2/00
1522/020397p		

06704PHC.LL1 - MB 9/29/00

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APPENDIX A QA/QC RESULTS

QA/QC Report

Client:

Airport Communities Coalition

Project:

Water/Sediment Quality Monitoring/00-101G

Date Collected: 8/29/00

Service Request: K2006704

Sample Matrix:

Sediment

Date Received: 8/30/00

Duplicate Summary

Total Solids

Prep Method:

NONE

Units: PERCENT

Basis: WET

Analysis Method: 160.3M

Sample Name

Relative Percent

Test Notes:

Lab Code

Analyzed

Result

73.0

Duplicate

Sample

Result

Average

Result Notes

IA-4

K2006704-004DUP

9/6/00

Date

71.5

Sample

72.3

2

Difference

Approved By:

067041CP.AB1 - TS DUP 9/8/00

Date: 9/13/00

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Page No.:

AR 021582

QA/QC Report

Client:

Airport Communities Coalition

Project:

Water/Sediment Quality Monitoring

Sample Matrix: Water

Service Request: K2006704

Date Collected: 8/28,29/00 Date Received: 8/30/00

Date Extracted: NA

Duplicate Summary Inorganic Parameters Units: mg/L (ppm)

Sample Name:

IIIA-1

Lab Code:

K2006704-030DUP

				Duplicate		Relative	
	EPA	MRL	Sample Result	Sample Result	Average	Percent Difference	
Analyte	Method						
Solids, Total Dissolved (TDS)	160.1	5	29	26	28	11	
Turbidity (NTU)	180.1	0.1	8.6	8.5	8.6	1	

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Approved By:		Date: 9 4 60
DUP1SEPA/102194 06704WET.PW1 - MixedDup 9/9/00		Page
	(00024

QA/QC Report

Client:

Airport Communities Coalition

Project:

Water/Sediment Quality Monitoring/00-101G

Sample Matrix: Water

Service Request: K2006704

Date Collected: 8/29/00

Date Received: 8/30/00 Date Extracted: 9/22/00

Date Analyzed: 9/24/00

Duplicate Summary
Total Metals
Units: µg/L (ppb)

Sample Name:

IIB-1

Lab Code:

K2006704-010DUP

				Duplicate		Relative
Analyte	EPA Method	MIRL	Sample Result	Sample Result	Average	Percent Difference
Copper	200.8	0.1	2.7	2.7	2.7	<1
Lead	200.8	0.02	2.06	2.09	2.08	1
Zinc	200.8	0.5	14.1	14.2	14.2	<1

Approved By:

DUP1SEPA/102194

06704ICP.BRI - DUP 9/27/00

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Date: <u>9/30/60</u>

Page No

QA/QC Report

Client: Project: Airport Communities Coalition

Service Request: K2006704

Water/Sediment Quality Monitoring/00-101G Sample Matrix: Water

Date Collected: 8/29/00 Date Received: 8/30/00 Date Extracted: 9/22/00 Date Analyzed: 9/24/00

Matrix Spike Summary Total Metals Units: µg/L (ppb)

Spike

Level

20

20

20

MRL

0.1

0.02

0.5

Sample Name:

Analyte

Copper

Lead

Zinc

IIB-1

Lab Code:

K2006704-010MS

			CAS
			Percent
	Spiked		Recovery
Sample	Sample	Percent	Acceptance
Result	Result	Recovery	Limits
2.7	21.4	94	75-125
2.06	21.2	96	75-125
14.1	32.4	92	75-125

Approved By: MS15/102194

067041CP.BR1 - Spike 9/27/00

QA/QC Report

Client:

Airport Communities Coalition

Project:

Sample Matrix: Sediment

Water/Sediment Quality Monitoring/00-101G

Date Collected: 8/29/00 Date Received: 8/30/00 Date Extracted: 9/14/00 Date Analyzed: 9/15/00

Service Request: K2006704

Duplicate Summary Total Metals Units: mg/Kg (ppm) Dry Weight Basis

Sample Name:

IA-4

Lab Code:

K2006704-004MS

				Duplicate		Relative
	EPA		Sample	Sample		Percent
Analyte	Method	MRL Result	Result	nult Result	Average	Difference
Copper	200.8	0.1	13.4	12.3	12.8	9
Lead	200.8	0.05	47.9	52.7	50.3	10
Zinc	200.8	0.5	91.1	95.9	93.5	5

Approved By: DUP1SEPA/102194

06704CP.BR2 - DUP 9/30/00

QA/QC Report

Client:

Airport Communities Coalition

Project:

Water/Sediment Quality Monitoring/00-101G

Service Request: K2006704 Date Collected: 8/29/00

Sample Matrix: Sediment

Date Received: 8/30/00 Date Extracted: 9/14/00

Date Analyzed: 9/15/00

Matrix Spike Summary Total Metals Units: mg/Kg (ppm) Dry Weight Basis

Sample Name:

IA-4

CAS

Lab Code:	K2006704-004MS		Spike Level	Sample Result	Spiked Sample Result	Percent Recovery	Recovery Acceptance Limits
Analyte		. MIRL					
Copper		0.1	43	13.4	64.6	119	70-130
Lead		0.05	120	47.9	161	94	70-130
Zinc		0.5	120	91.1	190	82	70-130

Approved By:

MS15/102194

06704ICP_BR2 - Spike 9/27/00

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QA/QC Report

Client:

Airport Communities Coalition

Project:

Water/Sediment Quality Monitoring/00-101G

Sample Matrix: Tissue

Service Request: K2006704

Date Collected: 8/29/00 Date Received: 8/30/00 Date Extracted: NA

Date Analyzed: 9/14/00

Duplicate Summary Total Metals

Sample Name:

IVA-3

Lab Code:

K2006704-029

Test Notes:

Units: PERCENT

Basis: Wet

Duplicate Relative Percent Result Sample Prep Analysis Sample Average Difference Notes Result Result Method Method **Analyte** 2 26.2 26.4 26.6 NA Freeze Dry Solids, Total

Approved By: DUP/052595 067041CPJC1 - DUP 9/20/00

OA/QC Report

Client:

Airport Communities Coalition

Project:

Water/Sediment Quality Monitoring/00-101G

Sample Matrix: Tissue

Service Request: K2006704 Date Collected: 8/29/00

Date Received: 8/30/00 Date Extracted: 9/22/00

Date Analyzed: 9/26/00

Duplicate Summary Total Metals Units: mg/Kg (ppm) Dry Weight Basis

Sample Name:

IVA-3

Lab Code:

K2006704-029DUP

DID C033.				Duplicate		Relative
Analyte	EPA Method MRI	MRL	Sample Result	Sample Result	Average	Percent Difference
Commer	200.8	0.1	2.0	1.8	1.9	10
Copper Lead	200.8	0.02	0.04	0.04	0.04	<1
Zinc	200.8	0.5	71.3	72.0	71.6	<1

Approved By: DUP1SEPA/102194

06704ICP.BR3 - DUP 9/27/00

QA/QC Report

Client:

Airport Communities Coalition

Project:

Water/Sediment Quality Monitoring/00-101G

Sample Matrix: Tissue

Service Request: K2006704

Date Collected: 8/29/00

Date Received: 8/30/00

Date Received: 8/30/00 Date Extracted: 9/22/00 Date Analyzed: 9/26/00

CAS

Matrix Spike Summary Total Metals Units: mg/Kg (ppm) Dry Weight Basis

Sample Name:

IVA-3

Lab Code: Analyte	K2006704-029DUP	MRL	Spike Level	Sample Result	Spiked Sample Result	Percent Recovery	Percent Recovery Acceptance Limits
Copper		0.1	25	2.0	24.8	91	70-130
Lead		0.02	50	0.04	50.0	100	70-130
Zinc		0.5	50	71.3	124	105	70-130

Approved By: _______ Date: 9/30/00_

067041CP.BR3 - Spike 9/27/00

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QA/QC Report

Client:

Airport Communities Coalition

Service Request: K2006704

Project:

Water/Sediment Quality Monitoring/00-101G

Date Collected: 8/8/99

Sample Matrix:

Sediment

Date Received: 9/1/00 Date Extracted: 9/6/00

Date Analyzed: 9/21 - 23/00

Surrogate Recovery Summary Organochlorine Pesticides

Prep Method:

EPA 3540C

Units: PERCENT

Basis: NA

Analysis Method: 8081A

		Test	Percent Recovery		
Sample Name	Lab Code	Notes	Tetrachloro-m-xylene	Decachlorobiphenyl	
IA-6	K2006704-006		96	92	
Batch OC	K2006693-012		93	117	
Batch OC	K2006693-012MS		88	123 *	
Batch OC	K2006693-012DMS		82	99	
Method Blank	KWG2003820-7		97	112	

CAS Acceptance Limits:

19-130

43-119

Approved By:	VN	Dat	te: _	9-27-00
SUR2/111397p				

06704SVG.AY1 - SUR2 9/26/00

Page No.:

QA/QC Report

Client:

Airport Communities Coalition

Project:

Water/Sediment Quality Monitoring/00-101G

Date Collected: NA

Date Received: NA Date Extracted: 9/6/00

Service Request: K2006704

Sample Matrix:

Sediment

Date Analyzed: 9/22/00

Matrix Spike/Duplicate Matrix Spike Summary Organochlorine Pesticides

Sample Name:

Batch QC

Units: ug/Kg (ppb)

Lab Code:

K2006693-012MS,

K2006693-012DMS

Basis: Dry

Test Notes:

X

Percent Recovery

											CAS	Relative	
	Prep	Analysis		Spik	Level	Sample	Spike	Result			Acceptance	Percent	Result
Analyte	Method	Method	MRL	IRL MS DMS		Result	MS	DMS	MS	DMS	Limits	Difference	Notes
alpha-BHC	EPA 3540C	8081A	2	20	20	ND	22	21	110	105	35-150	5	
beta-BHC	EPA 3540C	8081A	2	20	20	ND	15	14	75	70	35-150	7	
gamma-BHC (Lindane)	EPA 3540C	8081A	2	20	20	ND	21	18	105	90	49-132	15	
delta-BHC	EPA 3540C	8081A	2	20	20	ND	24	24	120	120	35-150	<1	
Heptachlor	EPA 3540C	8081A	2	20	20	ND	21	19	105	95	34-142	10	
Aldrin	EPA 3540C	8081A	2	20	20	ND	14	13	70	65	38-153	7	
Heptachlor Epoxide	EPA 3540C	8081A	2	20	20	ND	24	21	120	105	35-150	13	
gamma-Chlordane	EPA 3540C	8081A	2	20	20	10	27	26	85	8 0	35-150	4	
Endosulfan I	EPA 3540C	8081A	2	20	20	ND	23	22	115	110	35-150	4	
alpha-Chlordane	EPA 3540C	8081A	2	20	20	8.5	38	36	148	138	35-150	5	
Dieldrin	EPA 3540C	8081A	2	20	20	8.7	28	27	97	92	40-156	4	
4,4'-DDE	EPA 3540C	8081A	2	20	20	25	44	44	95	95	35-150	<1	
Endrin	EPA 3540C	8081A	2	20	20	2.5	20	17	88	72	46-151	16	
Endosulfan II	EPA 3540C	8081A	2	20	20	ND	24	23	120	115	35-150	4	
4,4'-DDD	EPA 3540C	8081A	2	20	20	29	55	52	130	115	35-150	6	
Endrin Aldehyde	EPA 3540C	8081A	2	20	20	ND	15	15	75	75	35-150	<1	
Endosulfan Sulfate	EPA 3540C	8081A	2	20	20	ND	18	20	90	100	35-150	11	
4,4'-DDT	EPA 3540C	8081A	2	20	20	10	25	25	75	75	37-161	<1	
Endrin Ketone	EPA 3540C	8081A	2	20	20	ND	23	24	115	120	35-150	4	
Methoxychlor	EPA 3540C	8081A	2	20	20	ND	24	23	120	115	35-150	4	

Approved By: V/V	Date:	9-27-00
DMS/020597p		
06704SVG.AY1 - DMS 9/26/00		

QA/QC Report

Client:

Airport Communities Coalition

Project:

Water/Sediment Quality Monitoring/00-101G

Service Request: K2006704 Date Collected: 8/29/00

Date Received: 8/30/00 Date Extracted: 9/6/00

Sample Matrix:

Sediment

Date Analyzed: 9/20/00

Surrogate Recovery Summary Polychlorinated Biphenyls (PCBs)

Prep Method:

EPA 3540C

Units: PERCENT

Analysis Method: 8082

Basis: NA

Sample Name	Lab Code	Test Notes	Percent Recovery Decachlorobiphenyl
IA-6	K2006704-006		90
Batch QC	K2006693-012		114
Batch QC	K2006693-012MS		96
Batch QC	K2006693-012DMS		96
Method Blank	KWG2003820-7		85

CAS Acceptance Limits:

72-137

Approved By:

SUR 1/110697p

06704SVG.VN1 - SUR 9/22/00

Date: 9/22/00

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QA/QC Report

Client:

Airport Communities Coalition

Project:

Water/Sediment Quality Monitoring/00-101G

Sample Matrix:

Sediment

Service Request: K2006704

Date Collected: NA

Date Received: NA

Date Extracted: 9/6/00
Date Analyzed: 9/20/00

Matrix Spike/Duplicate Matrix Spike Summary

Polychlorinated Biphenyls (PCBs)

Sample Name:

Batch QC

K2006693-012DMS

Units: ug/Kg (ppb)

Basis: Dry

Lab Code: Test Notes: K2006693-012MS,

ח

Percent Recovery

Analyte	Prep Method	Analysis Method	MRL	-		Sample Result	Spike MS	Result DMS	MS	DMS	CAS Acceptance Limits	Relative Percent Difference	Result Notes
Aroclor 1016	EPA 3540C	8082	100	190	190	ND	640	630	337	332	45-140	2	•
Aroclor 1260	EPA 3540C	8082	100	190	190	ND	460	440	242	232	50-148	4	

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QA/QC Report

Client:

Airport Communities Coalition

Project:

Water/Sediment Quality Monitoring/00-101G

LCS Matrix:

Sediment

Service Request: K2006704

Date Collected: NA

Date Received: NA Date Extracted: 9/6/00

Date Analyzed: 9/20/00

Laboratory Control Sample Summary

Polychlorinated Biphenyls (PCBs)

Sample Name: Lab Code:

Lab Control Sample KWG2003820-6

Units: ug/Kg (ppb)

Basis: Dry

Test Notes:

CAS Percent Recovery

Prep Analysis True Percent Acceptance Result Analyte Method Method Value Limits Notes Result Recovery Arocior 1016 EPA 3540C 8082 200 39-138 220 110 Aroclor 1260 EPA 3540C 8082 200 48-149 230 115

Date: 9/22/00 Approved By:

LCS/080797p 06704SVG.VN1 - LCS(NR) 9/22/00

QA/QC Report

Client:

Airport Communities Coalition

Service Request: K2006704

Project:

Water/Sediment Quality Monitoring/00-101G

Date Collected: 8/28-29/00

Sample Matrix:

Date Received: 8/30/00 Date Extracted: 9/1/00

Date Analyzed: 9/14-15/00

Surrogate Recovery Summary

Fuel Identification and Quantitation (FIQ) Hydrocarbon Scan

Prep Method:

EPA 3510C

Units: PERCENT

Analysis Method: 8015B

Basis: NA

		Test	Perc	ent Reco	v e r y
Sample Name	Lab Code	Notes	o-Terphenyl	4-Bromofluorobenzene	n-Triacontane
IA-9	K2006704-009		67	50	68
IIB-9	K2006704-018		67	51	69
IIA-9	K2006704-026		69	51	69
IVA-2	K2006704-028		69	50	69
IB-9	K2006704-039		70	48	71
Batch QC	K2006718-004		69	51	69
Batch QC	K2006718-004MS		69	63	70
Batch QC	K2006718-004DMS		67	58	69
Method Blank	K000901-WB		59	39	57

CAS Acceptance Limits:

50-150

D-141

50-150

Date: 10 12 100 Approved By:

SUR3/020597p 06704PHC.LL1 - SUR 10/2/00

QA/QC Report

Client:

Airport Communities Coalition

Project:

Water/Sediment Quality Monitoring/00-101G

Service Request: K2006704

Date Collected: 8/29/00

Sample Matrix:

Water

Date Received: 8/30/00

Date Extracted: 9/1/00
Date Analyzed: 9/14/00

Matrix Spike/Duplicate Matrix Spike Summary
Fuel Identification and Quantitation (FIQ) Hydrocarbon Scan

Sample Name:

Batch QC

Units: ug/L (ppb)

Lab Code:

K2006718-004MS,

K2006718-004DMS

Basis: NA

Test Notes:

Percent Recovery

	Prep	Analysis		Spike	Level	Sample	Spike :	Result			CAS Acceptance	Relative Percent	Result
Analyte	Method	Method	MRL	MS	DMS	Result	MS	DMS	MS	DMS	Limits	Difference	Notes
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Lube Oil	EPA 3510C	8015B	250	1600	1600	140	1300	1300	72	72	60-140	<1	

Approved By:	14	Date: _	10/4	صو

DMS/05229786704PHC.LL1 - DMS 10/2/00

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APPENDIX B CHAIN-OF-CUSTODY INFORMATION

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Columbia Analytical Services Inc. Cooler Receipt And Preservation Form Fed

Hate	MET ROP.	ASS	<u>es.</u>	_ Work Order K20		······································	
Cooler reco	eived on O Were custody seals on o	and opened on a		by	<u>s</u>		YES NO
	If yes, how many and w			MOND-			
2.	Were seals intact and sig	mature & date o	correct?	107 112	11/2	170	(TES NO
3.	COC#			26 147	142	54	420
	Temperature of cooler(s) upon receipt:	U	<u> 7.4</u>			
	Temperature Blank:		l	0.0			
4.	Were custody papers pro	_					YES NO
5 .	Type of packing materia	il present <u>C</u>	2, 10	apr Myert	<u> </u>		
6.	Did all bottles arrive in	good condition	(unbroken)?	•		,	YES'NO
7.	Were all bottle labels co	emplete (i.e. and	alysis, presea	rvation, etc.)?			(AER No
8.	Did all bottle labels and	tags agree with	custody paj	pers?			CYES NO
<i>9</i> .	Were the correct types of	f bottles used f	or the tests i	ndicated?		1 4	YES NO
10.	Were all of the preserve	d bottles receiv	ed at the lab	with the appropriate pH	?	6	YES NO
11.	Were VOA vials checke	d for absence o	of air bubble:	s, and if present, noted b	elow?		TES NO
12.	Did the bottles originate	from CAS/K	or a branch l	aboratory?		(YES NO
Explain ar	y discrepancies						
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