Columbia Analytical Services INC.
An Employee-Owned Company

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

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AR 021560

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 elution pattern of the calibration standard.
L	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.

COLUMBIA ANALYTICAL SERVICES, INC.

Client:	Airport Communities Coalition	**Service Request No.:**	K2006704
Project:	Water/Sediment Quality Monitoring	**Date Received:**	8/30/00
Sample Matrix:	Water/Sediment/Tissue		

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.

Metals

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

00004

AR 021563

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 10/2/00

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COLUMBIA ANALYTICAL SERVICES, INC.

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
Analysis Method: 160.3M
Test Notes:

Units: Percent
Basis: WET

Sample Name	Lab Code	Date Analyzed	Result	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: _____ Date: 9/13/00

AR 021565

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Airport Communities Coalition	**Service Request:**	K2006704
Project:	Water/Sediment Quality Monitoring	**Date Collected:**	8/28,29/00
Sample Matrix:	Water	**Date Received:**	8/30/00
		Date Extracted:	NA

Inorganic Parameters
Units: mg/L (ppm)

Analyte:	Solids, Total Suspended	Turbidity (NTU)
EPA Method:	160.2	180.1
Method Reporting Limit:	5	0.1
Date Analyzed:	9/2,8/00	9/5/00
Sample Name	**Lab Code**	
IA-8 SL518	K2006704-008	ND	1.5
IIB-8 S200 ~~S~~	K2006704-017	ND	0.8
IIA-8 Ditch D/M Memorial Pkwy	K2006704-025	ND	1.3
IIIA-1 Industrial Pk - D/M Main Ave	K2006704-030	29	8.6
IB-8 S157 ~~Pk~~ pl	K2006704-038	7	1.6
Method Blank	K2006704-MB	ND	ND

Approved By: _____ Date: 9/11/00

3ADW/061694
0670dWET.PW1 - 3_Tests 9/9/00

AR 021566

COLUMBIA ANALYTICAL SERVICES, INC.

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
		Date Extracted:	9/22/00

Total Metals
Units: µg/L (ppb)

Analyte:	Copper	Lead	Zinc
EPA Method:	200.8	200.8	200.8
Method Reporting Limit:	0.1	0.02	0.5
Date Analyzed:	9/24/00	9/24/00	9/24/00

Sample Name	Lab Code			
IA-1 } SR-518	K2006704-001	1.3	0.66	6.9
IA-2 } SR-518	K2006704-002	1.4	0.61	7.2
IA-3 } SR-518	K2006704-003	1.4	0.67	7.1
IIB-1 } S 200th St	K2006704-010	2.8	2.06	14.1
IIB-2 } S 200th St	K2006704-011	1.3	0.18	5.2
IIA-1 } Mouth of Des Moines Memorial Parkway	K2006704-019	0.7	0.15	3.6
IIA-2 } Mouth of Des Moines Memorial Parkway	K2006704-020	0.7	0.04	3.6
IIA-3 } Mouth of Des Moines Memorial Parkway	K2006704-021	0.8	0.04	4.3
IVA-1 ~~Daniels Creek~~ (cottage lk)	K2006704-027	3.3	0.22	2.8
IB-1 } S 157th Pl	K2006704-031	1.2	0.65	3.7
IB-2 } S 157th Pl	K2006704-032	1.8	2.46	16.4
IB-3 } S 157th Pl	K2006704-033	1.0	0.52	3.3
Method Blank	K2006704-MB	ND	ND	ND

* Lower down on west branch of Des Moines Creek, yet above Tyee Golf L

Approved By: _____ Date: 9/30/00

3AEPA/102694
06704ICP.BR1 - Sample 9/27/00

AR 021567

COLUMBIA ANALYTICAL SERVICES, INC.

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
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-4 } SR 518	K2006704-004	13.4	47.9	91.1
IA-5 } SR 518	K2006704-005	11.9	44.3	85.1
IA-6 } SR 518	K2006704-006	12.4	38.2	79.7
IIB-4 S 200th St North	K2006704-013	7.3	7.08	39.2
IIB-5 " " South 1	K2006704-014	13.2	20.8	79.2
IIB-6 " " South 2	K2006704-015	6.5	9.41	55.1
IIA-4 } Des Moines Memorial Parkway	K2006704-022	86.2	128	908
IIA-5 } Des Moines Memorial Parkway	K2006704-023	23.3	43.1	120
IIA-6 } Des Moines Memorial Parkway	K2006704-024	42.4	73.5	370
IB-4 } S 154th Pl	K2006704-034	21.5	19.4	81.8
IB-5 } S 154th Pl	K2006704-035	8.1	27.6	77.5
IB-6 } S 154th Pl	K2006704-036	7.9	19.6	95.3
Method Blank	K2006704-MB	ND	ND	ND

Approved By: _____ Date: 9/20/00

AR 021568

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Airport Communities Coalition	**Service Request:**	K2006704
Project:	Water/Sediment Quality Monitoring/00-101G	**Date Collected:**	8/29/00
Sample Matrix:	Tissue	**Date Received:**	8/30/00

Solids, Total

Prep Method:	NONE	Units:	PERCENT
Analysis Method:	Freeze Dry	Basis:	Wet
Test Notes:			

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

Approved By: _____ Date: 9/20/00

1A/052595

06704ICP.JC1 - Sample 9/20/00

AR 021569

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical 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

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	0.02	0.5
Date Analyzed:	9/26/00	9/26/00	9/26/00
Sample Name	**Lab Code**		
IA-7 S157 MR - cutthroat	K2006704-007	6.5	0.31	145
IIB-7 13 Mile - crayfish	K2006704-016	128	0.36	68.5
IVA-3 Daniels Cr. cutthroat	K2006704-029	2.0	0.04	71.3
IB-7 S157 MR - crayfish	K2006704-037	116	1.41	81.7
Method Blank	K2006704-MB	ND	ND	ND

Approved By: _____ Date: 9/30/00

3AEPA/102694
06704ICP.BR3 - Sample 9/27/00

AR 021570

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical 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

Organochlorine Pesticides

Sample Name:	IA-6 SE514	Units:	ug/Kg (ppb)
Lab Code:	K2006704-006	Basis:	Dry
Test Notes:	X		

Analyte	Prep Method	Analysis Method	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Result	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-Chlordane	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: VN Date: 9-27-00

1S22/020597p

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Airport Communities Coalition	**Service Request:**	K2006704
Project:	Water/Sediment Quality Monitoring/00-101G	**Date Collected:**	NA
Sample Matrix:	Sediment	**Date Received:**	NA

Organochlorine Pesticides

Sample Name:	Method Blank	Units:	ug/Kg (ppb)
Lab Code:	KWG2003820-7	Basis:	Dry
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

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Airport Communities Coalition	**Service Request:**	K2006704
Project:	Water/Sediment Quality Monitoring/00-101G	**Date Collected:**	8/29/00
Sample Matrix:	Sediment	**Date Received:**	8/30/00

Polychlorinated Biphenyls (PCBs)

Sample Name:	IA-6	Units:	ug/Kg (ppb)
Lab Code:	K2006704-006	Basis:	Dry
Test Notes:	X		

Analyte	Prep Method	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	Result Notes
Aroclor 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	
Aroclor 1260	EPA 3540C	8082	20	1	9/6/00	9/20/00	ND	

Approved By: _____ Date: 9/22/00

1S22/020597p

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Airport Communities Coalition	**Service Request:**	K2006704
Project:	Water/Sediment Quality Monitoring/00-101G	**Date Collected:**	NA
Sample Matrix:	Sediment	**Date Received:**	NA

Polychlorinated Biphenyls (PCBs)

Sample Name:	Method Blank	Units:	ug/Kg (ppb)
Lab Code:	KWG2003820-7	Basis:	Dry
Test Notes:			

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: 9/22/00

1S22/020597p

COLUMBIA ANALYTICAL SERVICES, INC.

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:	IA-9 SR578	Units:	ug/L (ppb)
Lab Code:	K2006704-009	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	

*	Semi-quantitative. Results are expected to exhibit a low bias due to the extraction procedure.
PHC as Diesel Fuel:	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: _____ Date: 9/14/00

1S22/020597p

AR 021575

COLUMBIA ANALYTICAL SERVICES, INC.

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 5200sf	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	

*	Semi-quantitative. Results are expected to exhibit a low bias due to the extraction procedure.
PHC as Diesel Fuel:	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: _____ Date: 9/29/00

1S22/020597p

AR 021576

COLUMBIA ANALYTICAL SERVICES, INC.

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:	IIA-9 3157# PL	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
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	

*	Semi-quantitative. Results are expected to exhibit a low bias due to the extraction procedure.
PHC as Diesel Fuel:	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: _____ Date: 9/29/00

1S22/020597p

AR 021577

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Airport Communities Coalition	**Service Request:**	K2006704
Project:	Water/Sediment Quality Monitoring/00-101G	**Date Collected:**	8/28/00
Sample Matrix:	Water	**Date Received:**	8/30/00

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

Sample Name: IVA-2 Duwamish Cr (Cottage Lk)
Lab Code: K2006704-028
Test Notes:

Units: ug/L (ppb)
Basis: NA

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	

* Semi-quantitative. Results are expected to exhibit a low bias due to the extraction procedure.
PHC as Diesel Fuel: 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: _____ Date: 9/29/00

1S22/020597p

AR 021578

COLUMBIA ANALYTICAL SERVICES, INC.

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:	IB-9 SIST AL	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	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	

*	Semi-quantitative. Results are expected to exhibit a low bias due to the extraction procedure.
PHC as Diesel Fuel:	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: _____ Date: 10/2/00

1S22/020597p

COLUMBIA ANALYTICAL SERVICES, INC.

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:			

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	

*	Semi-quantitative. Results are expected to exhibit a low bias due to the extraction procedure.
PHC as Diesel Fuel:	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: _____ Date: 10/2/00

1S22/020597p

APPENDIX A
QA/QC RESULTS

AR 021581

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC 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

Duplicate Summary
Total Solids

Prep Method: NONE
Analysis Method: 160.3M
Test Notes:

Units: PERCENT
Basis: WET

Sample Name	Lab Code	Date Analyzed	Sample Result	Duplicate Sample Result	Average	Relative Percent Difference	Result Notes
IA-4	K2006704-004DUP	9/6/00	71.5	73.0	72.3	2	

Approved By: _____ Date: 9/13/00

Total Solids/060595
06704ICP.AB1 - TS DUP 9/8/00

COLUMBIA ANALYTICAL SERVICES, INC.

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

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

Approved By: _____ Date: 9/11/00

DUP1SEPA/102194
06704WET.PW1 - MixedDup 9/9/00

AR 021583

COLUMBIA ANALYTICAL SERVICES, INC.

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

Analyte	EPA Method	MRL	Sample Result	Duplicate Sample Result	Average	Relative 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: _____ Date: 9/30/00

COLUMBIA ANALYTICAL SERVICES, INC.

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

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

Sample Name: IIB-1
Lab Code: K2006704-010MS

Analyte	MRL	Spike Level	Sample Result	Spiked Sample Result	Percent Recovery	CAS Percent Recovery Acceptance Limits
Copper	0.1	20	2.7	21.4	94	75-125
Lead	0.02	20	2.06	21.2	96	75-125
Zinc	0.5	20	14.1	32.4	92	75-125

Approved By: _____ Date: 9/30/00

MS15/102194
06704ICP.BR1 - Spike 9/27/00

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC 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
Date Extracted: 9/14/00
Date Analyzed: 9/15/00

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

Sample Name: IA-4
Lab Code: K2006704-004MS

Analyte	EPA Method	MRL	Sample Result	Duplicate Sample Result	Average	Relative Percent 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: _____ Date: 9/30/00

AR 021586

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC 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
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
Lab Code: K2006704-004MS

Analyte	MRL	Spike Level	Sample Result	Spiked Sample Result	Percent Recovery	CAS Percent Recovery Acceptance Limits
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: _____ Date: 9/30/00

MS1S/102194
06704ICP.BR2 - Spike 9/27/00

AR 021587

COLUMBIA ANALYTICAL SERVICES, INC.

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

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

Approved By: _____ Date: 9/25/00

DUP/052595
067041CP.JC1 - DUP 9/20/00

AR 021588

COLUMBIA ANALYTICAL SERVICES, INC.

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: 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

Analyte	EPA Method	MRL	Sample Result	Duplicate Sample Result	Average	Relative Percent Difference
Copper	200.8	0.1	2.0	1.8	1.9	10
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: _____ Date: 9/30/00

DUP1SEPA/102194
06704ICP.BR3 - DUP 9/27/00

AR 021589

COLUMBIA ANALYTICAL SERVICES, INC.

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: 9/22/00
Date Analyzed: 9/26/00

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

Sample Name: IVA-3
Lab Code: K2006704-029DUP

Analyte	MRL	Spike Level	Sample Result	Spiked Sample Result	Percent Recovery	CAS 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

MS1S/102194
067041CP.BR3 - Spike 9/27/00

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Airport Communities Coalition
Project: Water/Sediment Quality Monitoring/00-101G
Sample Matrix: Sediment

Service Request: K2006704
Date Collected: 8/8/99
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
Analysis Method: 8081A

Units: PERCENT
Basis: NA

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

CAS Acceptance Limits: 19-130 43-119

Approved By: VN Date: 9-27-00

SUR2/111397p

06704SVG.AY1 - SUR2 9/26/00

AR 021591

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client:	Airport Communities Coalition	**Service Request:**	K2006704
Project:	Water/Sediment Quality Monitoring/00-101G	**Date Collected:**	NA
Sample Matrix:	Sediment	**Date Received:**	NA
		Date Extracted:	9/6/00
		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		

Analyte	Prep Method	Analysis Method	MRL	Spike Level MS	Spike Level DMS	Sample Result	Spike Result MS	Spike Result DMS	Percent Recovery MS	Percent Recovery DMS	CAS Acceptance Limits	Relative Percent Difference	Result 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	80	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: VN Date: 9-27-00

DMS/020597p

06704SVG.AY1 - DMS 9/26/00

AR 021592

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client:	Airport Communities Coalition	**Service Request:**	K2006704
Project:	Water/Sediment Quality Monitoring/00-101G	**Date Collected:**	8/29/00
Sample Matrix:	Sediment	**Date Received:**	8/30/00
		Date Extracted:	9/6/00
		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: _____ Date: 9/22/00

SUR1/110697p
06704SVG.VN1 - SUR 9/22/00

AR 021593

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client:	Airport Communities Coalition	**Service Request:**	K2006704
Project:	Water/Sediment Quality Monitoring/00-101G	**Date Collected:**	NA
Sample Matrix:	Sediment	**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	Units:	ug/Kg (ppb)
Lab Code:	K2006693-012MS, K2006693-012DMS	Basis:	Dry
Test Notes:	D		

Analyte	Prep Method	Analysis Method	MRL	Spike Level MS	Spike Level DMS	Sample Result	Spike Result MS	Spike Result DMS	Percent Recovery MS	Percent Recovery 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	*

Approved By: _____ Date: 9/22/00

DMS/020597p
06704SVG.VN1 - DMS 9/22/00

AR 021594

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client:	Airport Communities Coalition	**Service Request:**	K2006704
Project:	Water/Sediment Quality Monitoring/00-101G	**Date Collected:**	NA
LCS Matrix:	Sediment	**Date Received:**	NA
		Date Extracted:	9/6/00
		Date Analyzed:	9/20/00

Laboratory Control Sample Summary
Polychlorinated Biphenyls (PCBs)

Sample Name:	Lab Control Sample	Units:	ug/Kg (ppb)
Lab Code:	KWG2003820-6	Basis:	Dry
Test Notes:			

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

Approved By: TQ Date: 9/22/00

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

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Airport Communities Coalition
Project: Water/Sediment Quality Monitoring/00-101G
Sample Matrix: Water

Service Request: K2006704
Date Collected: 8/28-29/00
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
Analysis Method: 8015B

Units: PERCENT
Basis: NA

Sample Name	Lab Code	Test Notes	Percent Recovery		
			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

Approved By: _____ Date: 10/2/00

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC 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
		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:			

				Spike Level		Sample	Spike Result		Percent Recovery		CAS Acceptance	Relative Percent	
Analyte	**Prep Method**	**Analysis Method**	**MRL**	**MS**	**DMS**	**Result**	**MS**	**DMS**	**MS**	**DMS**	**Limits**	**Difference**	**Result Notes**
Diesel	EPA 3510C	8015B	100	1600	1600	100	1600	1500	94	88	60-140	6	
Lube Oil	EPA 3510C	8015B	250	1600	1600	140	1300	1300	72	72	60-140	<1	

Approved By: _____ Date: 10/2/00

APPENDIX B
CHAIN-OF-CUSTODY INFORMATION

Columbia Analytical Services, Inc.
An Employee-Owned Company

CHAIN OF CUSTODY

1317 South 13th Ave. • Kelso, WA 98626 • (360) 577-7222 • (800) 695-7222 • FAX (360) 636-1068

SR#: K2006709

PAGE _____ OF _____ COC # _____

PROJECT NAME: Lower Duwamish Waterway
PROJECT NUMBER: 00-101
PROJECT MANAGER: Paul Strand
COMPANY/ADDRESS: Airport Communities Coalition, 21630 11th Ave S., Des Moines, WA 98198
PHONE #: 206 243-4347 FAX #: 206 946-1407
SAMPLER'S SIGNATURE: [signature]

SAMPLE I.D.	DATE	TIME	LAB I.D.	MATRIX	NUMBER OF CONTAINERS	REMARKS
IA-1	8/29	1015	1	W	1	
IA-2	8/29	"	2	W	1	
IA-3	8/29	"	3	W	1	
IA-4	8/29	"	4	S	1	
IA-5	8/29	"	5	S	1	
IA-6	8/29	"	6	S	1	
IA-7	8/29	"	7	T	1	
IA-8	8/29	"	8	W	1	
IA-9	8/29	"	9	W	1	
			10			

Semivolatile Organics by GC/MS 625 ☐ 8270 ☐
Volatile Organics 624 ☐ 8260 ☐ 8021 ☐ BTEX ☐
Hydrocarbons (* see below) Gas ☐ Diesel ☐ Oil ☐
☐ Fuel Fingerprint (FIQ) ☐ NW-HCID Screen
Oil & Grease/TRPH 413.1 ☐ 418.1 ☐ 1664 SGT ☐ 1664 HEM ☐
PCB's Aroclors ☑ Congeners ☐ 8082 ☐
Pesticides/Herbicides 608 ☑ 8081A ☑ 8081-C ☐
Chlorophenolics - 8141A ☐ 8151A ☐
Tri ☐ Tetra ☐ PCP ☐
PAHs 8310 ☐ SIM ☐
GC/MS-SIM PAH ☑
Phenols ☑ Phthalates ☑
Metals, Total or Dissolved (See list below)
Cyanide ☐
pH, Cond., Cl, SO_4, P, F, NO_2, NO_3, BOD, TSS, TDS (circle)
NH_3-N, COD, Total-P, TKN, TOC
DOC (circle)
Hex-Chrom ☐
TOC 9020 ☐ AOX 1650 ☐ 508 ☐
TPH (fuel scan)
TSS
Turbidity
Solids (2 water)

REPORT REQUIREMENTS

___ I. Routine Report: Method Blank, Surrogate, as required
___ II. Report Dup., MS, MSD as required
___ III. Data Validation Report (includes all raw data)
___ IV. CLP Deliverable Report
___ V. EDD

INVOICE INFORMATION

P.O. # _____
Bill To: _____

TURNAROUND REQUIREMENTS

____ 24 hr. ____ 48 hr.
____ 5 Day
____ Standard (10-15 working days)
____ Provide FAX Results
_____ Requested Report Date

Circle which metals are to be analyzed:

Total Metals: Al As Sb Ba Be B Ca Cd Co Cr (Cu) Fe (Pb) Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V (Zn) Hg

Dissolved Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

*INDICATE STATE HYDROCARBON PROCEDURE: AK CA WI NORHTWEST OTHER: _____ (CIRCLE ONE)

SPECIAL INSTRUCTIONS/COMMENTS:

W = water
S = sediment
T = tissue

IA-7 (tissue - fish)

TF18 EA

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Signature: [signature]	Signature: [signature]	Signature:	Signature:
Date/Time: 8/29/00 1500	Date/Time: 8/30/00	Date/Time:	Date/Time:
Printed Name:	Printed Name: Tom Bonner	Printed Name:	Printed Name:
Firm:	Firm: Parsons	Firm:	Firm:

00040

AR 021599

Columbia Analytical Services, Inc.
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CHAIN OF CUSTODY

SR#: K2006701

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PAGE _____ OF _____ COC # _____

PROJECT NAME: Waterbed. Quality Monitoring
PROJECT NUMBER: 00-1016
PROJECT MANAGER: John Sterrod, Airport Comm. Coalition
COMPANY/ADDRESS: 21630 11th Ave S, Des Moines, Wa 98198
Send rept: 1314 Cedar Ave, Ridgefield, Wa 98642
PHONE #: (360) 943-4347 FAX #: (206) 946-1467
SAMPLER'S SIGNATURE: [signature]

SAMPLE I.D.	DATE	TIME	LAB I.D.	MATRIX	NUMBER OF CONTAINERS	Semivolatile Organics by GC/MS 625☐ 8270☐	Volatile Organics 624☐ 8260☐	Hydrocarbons (*see below) Gas☐ Diesel☐ Oil☐ ☐Fuel Fingerprint ☐NW-HCID	Oil & Grease/TRPH 413.1☐ 418.1☐ 1664 SGT☐ 1664 HEM☐	PCB's Aroclors☐ Congeners☐	Pesticides/Herbicides 608☐ 8081A☐ 8141A☐ 8151A☐	Chlorophenolics 8151M Tri☐ Tetra☐ PCP☐	PAHs 8310☐ GC/MS-SIM PAH☐ SIM☐	Phenol☐ Phthalates☐ Metals, Total or Dissolved (See list below)	Cyanide☐ Hex-Chrom☐	pH, Cond, Cl, SO_4, PO_4, F, NO_2, NO_3, BOD, TSS, TDS (circle) NH_3-N, COD, Total-P, TKN, TOC, DOC (circle)	TOC 9020☐ AOX 1650☐ 506☐	TPH (fuels scan)	TSS	Turbidity	Solids (% water)	REMARKS
IIB-1	0915	8/29	10	W										✓								
IIB-2	8/29	0915	11	W										✓								
~~IIB-3~~	~~"~~	~~"~~	~~12~~	~~W~~										✓								~~10/2/00~~ (As per standard)
IIB-4	"	"	13	S										✓								
IIB-5	"	"	14	S										✓								
IIB-6	"	"	15	S										✓								
IIB-7	"	"	16	T										✓							✓	
IIB-8	"	"	17	W														✓	✓			
IIB-9	"	"	18	W													✓					

REPORT REQUIREMENTS

___ I. Routine Report: Method Blank, Surrogate, as required
___ II. Report Dup., MS, MSD as required
___ III. Data Validation Report (includes all raw data)
___ IV. CLP Deliverable Report
___ V. EDD

INVOICE INFORMATION

P.O. # _____
Bill To: _____

TURNAROUND REQUIREMENTS

____ 24 hr. ____ 48 hr.
____ 5 Day
____ Standard (10-15 working days)
____ Provide FAX Results
_____ Requested Report Date

Circle which metals are to be analyzed:

Total Metals: Al As Sb Ba Be B Ca Cd Co Cr (Cu) Fe (Pb) Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V (Zn) Hg

Dissolved Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

*INDICATE STATE HYDROCARBON PROCEDURE: AK CA WI NORHTWEST OTHER: _____ (CIRCLE ONE)

SPECIAL INSTRUCTIONS/COMMENTS:

W = water
S = sediment
T = tissue

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Signature: [signature]	Signature: [signature]	Signature:	Signature:
Date/Time: 8/29 1500	Date/Time: 8/30/00	Date/Time:	Date/Time:
Printed Name:	Printed Name: Lowell	Printed Name:	Printed Name:
Firm:	Firm: CAS	Firm:	Firm:

00041

AR 021600

Columbia Analytical Services, Inc.
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CHAIN OF CUSTODY

SR#: K2006704

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PAGE _____ OF _____ COC # _____

PROJECT NAME: Water/Sediment Quality Monitoring
PROJECT NUMBER: 20-106
PROJECT MANAGER: Dan Striplin
COMPANY/ADDRESS: Airport Communities Coalition
21635 11th Ave S, Des Moines, WA 98198
Send rept. 1314 Cedar Ave, Richland, Wa
PHONE #: 509-943-4347 FAX #: 509-946-1407
SAMPLER'S SIGNATURE: [signature]

SAMPLE I.D.	DATE	TIME	LAB I.D.	MATRIX	NUMBER OF CONTAINERS	Semivolatile Organics by GC/MS 625 ☐ 8270 ☐	Volatile Organics 624 ☐ 8260 ☐ 8021 ☐ BTEX ☐	Hydrocarbons (*see below) Gas ☐ Diesel ☐ Oil ☐	☐ Fuel Fingerprint (FIQ) ☐ NW-HCID Screen	Oil & Grease/TRPH 413.1 ☐ 418.1 ☐ 1664 SGT ☐ 1664 HEM ☐	PCB's Aroclors ☐ Congeners ☐	Pesticides/Herbicides 608 ☐ 8081A ☐ 8141A ☐ 8151A ☐	Chlorophenolics - 8151M Tri ☐ Tetra ☐ PCP ☐	PAHS 8310 ☐ SIM ☐	GC/MS-SIM PAH ☐ Phenol ☐ Phthalates ☐	Metals, Total or Dissolved (See list below)	Cyanide ☐ Hex-Chrom ☐	pH, Cond., Cl, SO_4, PO_4, F, NO_2, NO_3, BOD, TSS, TDS (circle)	NH_3-N, COD, Total-P, TKN, TOC, DOC (circle)	TOC 9020 ☐ AOX 1650 ☐ 508 ☐	TPH (Full Scan)	TSS	Turbidity	REMARKS
IIA-1	8/29	0830	19	W	1										✓									
IIA-2	"	"	20	W	1										✓									
IIA-3	"	"	21	W	1										✓									
IIA-4	"	"	22	S	1										✓									
IIA-5	"	"	23	S	1										✓									
IIA-6	"	"	24	S	1										✓									
~~IIA-7~~	~~"~~	~~"~~																						
IIA-8	"	"	25	W	1																✓	✓		
IIA-9	"	"	26	W	1																✓			

REPORT REQUIREMENTS

___ I. Routine Report: Method Blank, Surrogate, as required
___ II. Report Dup., MS, MSD as required
___ III. Data Validation Report (includes all raw data)
___ IV. CLP Deliverable Report
___ V. EDD

INVOICE INFORMATION

P.O. # _____
Bill To: _____

TURNAROUND REQUIREMENTS

____ 24 hr. ____ 48 hr.
____ 5 Day
____ Standard (10-15 working days)
____ Provide FAX Results

Requested Report Date _____

Circle which metals are to be analyzed:

Total Metals: Al As Sb Ba Be B Ca Cd Co Cr (Cu) Fe (Pb) Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V (Zn) Hg

Dissolved Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

*INDICATE STATE HYDROCARBON PROCEDURE: AK CA WI NORHTWEST OTHER: _____ (CIRCLE ONE)

SPECIAL INSTRUCTIONS/COMMENTS:

T = Tissue
W = water
S = Sediment

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Signature: [signature]	Signature: [signature]	Signature:	Signature:
Date/Time: 8/29/00 1500	Date/Time: 8/31/00	Date/Time:	Date/Time:
Printed Name:	Printed Name: [signature]	Printed Name:	Printed Name:
Firm:	Firm:	Firm:	Firm:

00042

AR 021601

Fed

Columbia Analytical Services Inc.
Cooler Receipt And Preservation Form

SHORT HOLD TIME ASSES.

Project/Client [illegible] Work Order K20

Cooler received on 8.30.00 and opened on 8.30.00 by LS

1.	Were custody seals on outside of cooler? If yes, how many and where? 1 FRONT						YES NO
2.	Were seals intact and signature & date correct?						YES NO
3.	COC #	522	143	142	529	730	
	Temperature of cooler(s) upon receipt:	6.9	7.4	—	—	—	
	Temperature Blank:	1.0	6.0	—	—	—	
4.	Were custody papers properly filled out (ink, signed, etc.)?						YES NO
5.	Type of packing material present 1 Q, foam insert						
6.	Did all bottles arrive in good condition (unbroken)?						YES NO
7.	Were all bottle labels complete (*i.e.* analysis, preservation, etc.)?						YES NO
8.	Did all bottle labels and tags agree with custody papers?						YES NO
9.	*Were the correct types of bottles used for the tests indicated?*						YES NO
10.	Were all of the preserved bottles received at the lab with the appropriate pH?						LS YES NO
11.	Were VOA vials checked for absence of air bubbles, and if present, noted below?						YES NO
12.	Did the bottles originate from CAS/K or a branch laboratory? _____						YES NO

Explain any discrepancies

Sample # [illegible] 3 MISSING (DID NOT REC.)

Samples that required preservation or received out of temperature:

Sample ID	Reagent	Volume	Lot Number	Bottle Type	Rec'd out of Temperature	Initials

00045

CRFREV.DOC8/7/00

AR 021602

Columbia Analytical Services, Inc.
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CHAIN OF CUSTODY

SR#: K2006704

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PAGE _____ OF _____ COC # _____

00043

PROJECT NAME: Water/Sediment Quality Monitoring
PROJECT NUMBER: 00-706
PROJECT MANAGER: John Strand Airport Communities Coalition
COMPANY/ADDRESS: 31630 71st ave S, Des Moines, WA 98198
(report to 1314 Cedar Ave, Richland, WA 99352)
PHONE: (509) 943-4347 FAX: (509) 946-1467
SAMPLER'S SIGNATURE: John a Strand

SAMPLE I.D.	DATE	TIME	LAB I.D.	MATRIX	NUMBER OF CONTAINERS	Semivolatile Organics by GC/MS 625☐ 8270☐	Volatile Organics 624☐	Hydrocarbons 8260☐ 8021☐ BTEX☐ Gas☐ Diesel☐ (see below) Oil☐ Fuel Fingerprint☐ NW-HCID☐ Screen	Oil & Grease/TRPH 413.1☐ 418.1☐ 1664 SGT☐ 1664 HEM☐	PCB's Aroclors☐ Congeners☐	Pesticides/Herbicides 608☐ 8081A☐ 8141A☐ 8151A☐	Chlorophenolics: 8151M Tri☐ Tetra☐ PCP☐	PAHs 8310☐ SIM☐	GC/MS-SIM PAH☐ Phenol☐ Phthalates☐	Metals, Total or Dissolved (See list below)	Cyanide☐ Hex-Chrom☐	pH; Cond; Cl; SO_4; PO_4; F; NO_2; NO_3; BOD; TSS; TDS (circle) NH_3-N; COD; Total-P; TKN; TOC; DOC (circle)	TOC 9020☐ AOX 1650☐ 506☐	TPH (Fuel Scan)	TSS	Turbidity	REMARKS
IV A-1	8/28	2000	27	W	1										✓									
IV A-2	8/28	2000	28	W	1																✓			
IV A-3	8/28	2000	29	T	1										✓									
III A-1	8/28	0700	30	W	1																	✓	✓	

REPORT REQUIREMENTS

___ I. Routine Report: Method Blank, Surrogate, as required
___ II. Report Dup., MS, MSD as required
___ III. Data Validation Report (includes all raw data)
___ IV. CLP Deliverable Report
___ V. EDD

INVOICE INFORMATION

P.O. # _____
Bill To: _____

TURNAROUND REQUIREMENTS

____ 24 hr. ____ 48 hr.
____ 5 Day
____ Standard (10-15 working days)
____ Provide FAX Results
_____ Requested Report Date

Circle which metals are to be analyzed:

Total Metals: Al As Sb Ba Be B Ca Cd Co Cr (Cu) Fe (Pb) Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V (Zn) Hg

Dissolved Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

*INDICATE STATE HYDROCARBON PROCEDURE: AK CA WI NORHTWEST OTHER: _____ (CIRCLE ONE)

SPECIAL INSTRUCTIONS/COMMENTS:

W = water
T = tissue

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Signature: [signature]	Signature: [signature]	Signature	Signature
Date/Time: 8/29 1500	Date/Time: 8/30/00	Date/Time	Date/Time
Printed Name	Printed Name: Edward	Printed Name	Printed Name
Firm	Firm: ORS	Firm	Firm

AR 021603

CHAIN OF CUSTODY

SR#: K1006704

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PAGE _____ OF _____ COC # _____

PROJECT NAME: Sediment Water/Body Monitoring
PROJECT NUMBER: 00-1073
PROJECT MANAGER: Brian Strong
COMPANY/ADDRESS: Harbor Commanders Coalition
21630 11th Ave S, Des Moines, WA 98198
PHONE #: 309 943-4345 FAX #: 309 946-1467
SAMPLER'S SIGNATURE: Brian Strong

SAMPLE I.D.	DATE	TIME	LAB I.D.	MATRIX	NUMBER OF CONTAINERS	TPH (Fuels)	TSS	Turbidity	Solids (S/O water)	REMARKS
IB-1	8/25	11:15	31	W	1					
IB-2	"	"	32	W	1					
IB-3	"	"	33	W	1					
IB-4	"	"	34	S	1					
IB-5	"	"	35	S	1					
IB-6	"	"	36	S	1					
IB-7	"	"	37	T	1					
IB-8	"	"	38	W	1		✓	✓	✓	
IB-9	"	"	39	W	1	✓				

Semivolatile Organics by GC/MS 625☐ 8270☐
Volatile Organics 624☐ 8260☐ 8021☐ BTEX☐
Hydrocarbons (*see below) Gas☐ Diesel☐ Oil☐
☐ Fuel Fingerprint (FIQ)
☐ NW-HCID Screen
Oil & Grease/TRPH 413.1☐ 418.1☐ 1664 SGT☐ 1664 HEM☐
PCB's Aroclors☐ Congeners☐
Pesticides/Herbicides 608☐ 8081A☐ 8141A☐ 8151A☐
Chlorophenolics: 8151M Tri☐ Tetra☐ PCP☐
PAHS 8310☐ SIM☐
GC/MS-SIM PAH☐ Phenol☐ Phthalates☐
Metals, Total or Dissolved (See list below)
Cyanide☐ Hex-Chrom☐
pH, Cond., Cl, SO_4, PO_4, F, NO_2, NO_3, BOD, TSS, TDS (circle)
NH_3-N, COD, Total-P, TKN, TOC.
DOC (circle)
TOC 9020☐ AOX 1650☐ 506☐

REPORT REQUIREMENTS

___ I. Routine Report: Method Blank, Surrogate, as required
___ II. Report Dup., MS, MSD as required
___ III. Data Validation Report (includes all raw data)
___ IV. CLP Deliverable Report
___ V. EDD

INVOICE INFORMATION

P.O. # _____
Bill To: _____

TURNAROUND REQUIREMENTS

____ 24 hr. ____ 48 hr.
____ 5 Day
____ Standard (10-15 working days)
____ Provide FAX Results
_____ Requested Report Date

Circle which metals are to be analyzed:

Total Metals: Al As Sb Ba Be B Ca Cd Co Cr (Cu) Fe (Pb) Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V (Zn) Hg

Dissolved Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

*INDICATE STATE HYDROCARBON PROCEDURE: AK CA WI NORHTWEST OTHER: _____ (CIRCLE ONE)

SPECIAL INSTRUCTIONS/COMMENTS:
W = water
S = sediment
T = tissue

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Signature: Brian Strong	Signature: Shawn Bonner	Signature:	Signature:
Date/Time: 8/29/97 1500	Date/Time: 8/29/97	Date/Time:	Date/Time:
Printed Name:	Printed Name: Shawn Bonner	Printed Name:	Printed Name:
Firm:	Firm: OMC	Firm:	Firm:

AR 021604