

APPENDIX F: CHAIN OF CUSTODY FORMS

ATTACHMENT F-1: BENTHIC INVERTEBRATE AND SEDIMENT COC
ATTACHMENT F-2: CLAM AND SEDIMENT COC

Attachment F-1: Benthic Invertebrate and Sediment COC

Lower Duwamish Waterway Group

Port of Seattle / City of Seattle / King County / The Boeing Company

CHAIN-OF-CUSTODY/TEST REQUEST FORM

1401 ✓

Project/Client Name: LDW Bendic Mventehro Survey
 Windward Project No: 04-08-06-21
 Contact Name: Wille Anderson
 Sampled By: HA

Ship to: Columbia Analytical Service, Inc.
 Attn: Greg Salata
 Shipping address: 1377 13th Ave.
KEESAU, IA 98626

Shipping Date: 8/17/04
 Airbill Number: 8468 7264 7948

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)	Comments / Instructions (Jar tag number(s))
8/15/04	15:45	LDW-B1a-T	1 jar			
8/14/04	17:25	LDW-B1a-T	1 jar			
8/14/04	18:35	LDW-B2a-T	1 jar			
8/14/04	19:05	LDW-B9b-T	1 jar			
8/15/04	16:40	LDW-B6a-T	1 jar			
8/13/04	09:00	LDW-B1a-TFB-1	1 jar			
8/16/04	17:00	LDW-B5a-T	1 jar			
<p>Matrix: Tissue EPA 8270-SIM - SVOCs + Alkylated PAHs EPA 7471 - Mercury EPA 1632 - Arsenic EPA 6010 - Chromium EPA 7742 - Selenium EPA 6020 - Other metals: Antimony, cadmium, cobalt, copper, lead, molybdenum, nickel, silver, thallium, vanadium, and zinc EPA 8082Ab - PCBs (as Aroclors) Stallard et al. (1988) - TBT, DBT, MBT (as ions) PSEP - Moisture Content EPA 8081A - Organochlorine Pesticides NOAA (1993) - Lipids EPA 1668 - PCB Congeners (archived frozen) EPA 1613B - Dioxin/Furan analysis (archived frozen)</p>						
Total Number of Containers				7		

Purchase Order / Statement of Work #

1) Released by: Brigitte Gibbons
 Print name:
 Signature:
 Company: Windward Env.
 Date/Time: 8/17/04 12:20

1) Rec'd by:
 Company:
 Date/Time:

2) Released by:
 Print name:
 Signature:
 Company:
 Date/Time:

1) Rec'd by:
 Company:
 Date/Time:

* Distribution: White and yellow copies accompany shipment; pink-consignor's copy; white-consignee return with results; yellow-consignee's copy.

* Instructions for completion of Chain-of-Custody/Test Request Form on back.

- 200 West Mercer Street
 Suite 401
 Seattle, WA 98119
 Tel: 206.378.1364
 Fax: 206.217.0089



To be completed by Laboratory upon sample receipt:

Date of receipt:
 Condition upon receipt:
 Cooler temperature:

Laboratory W.O. #
 Time of receipt:
 Received by:

CHAIN-OF-CUSTODY/TEST REQUEST FORM

1402

V

Project/Client Name: LOW Benthic Invert. Survey
 Windward Project No.: _____
 Contact Name: Helle Andersen
 Sampled By: HA

Ship to: Columbia Analytical Services, Inc.
 Attn: Greg Salata
 Shipping address: 1377 13th Ave.
Kelso, WA 98626

Shipping Date: 8/18/04
 Airbill Number: 8168 726A 7926

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)	Comments / Instructions (Jar tag number(s))
<u>8/18/04</u>	<u>18:55</u>	<u>LOW-B3b-T</u>	<u>1 jar</u>			
<u>8/18/04</u>	<u>17:00</u>	<u>LOW-B7b-T</u>	<u>1 jar</u>			
Matrix: Tissue EPA 8270-SIM - SVOCs + Alkylated PAHs EPA 7471 - Mercury EPA 1632 - Arsenic EPA 6010 - Chromium EPA 7742 - Selenium EPA 6020 - Other metals: Antimony, cadmium, cobalt, copper, lead, molybdenum, nickel, silver, thallium, vanadium, and zinc EPA 8082Ab - PCBs (as Aroclors) Stallard et al. (1988) - TBT, DBT, MBT (as ions) PSEP - Moisture Content EPA 8081A - Organochlorine Pesticides NOAA (1993) - Lipids EPA 1668 - PCB Congeners (archived frozen) EPA 1613B - Dioxin/Furan analysis (archived frozen)						
Total Number of Containers: _____ Purchase Order / Statement of Work #: _____						
1) Released by: Print name: <u>Derrick Gibbons</u> Signature: <u>[Signature]</u> Company: <u>Windward Envi.</u> Date/Time: <u>8/18/04 10:58</u>		2) Released by: Print name: _____ Signature: _____ Company: _____ Date/Time: _____		1) Rec'd by: Print name: _____ Signature: _____ Company: _____ Date/Time: _____		

Test(s) Requested (check test(s) required)

To be completed by Laboratory upon sample receipt:

Date of receipt: _____	Laboratory W.O. #: _____
Condition upon receipt: _____	Time of receipt: _____
Cooler temperature: _____	Received by: _____

* Distribution: White and yellow copies accompany shipment; pink-consignor's copy; white-consignee return with results; yellow-consignee's copy.
 * Instructions for completion of Chain-of-Custody/Test Request Form on back.

200 West Mercer Street
 Suite 401
 Seattle, WA 98119
 Tel: 206.378.1364
 Fax: 206.217.0089

CHAIN-OF-CUSTODY/TEST REQUEST FORM

Project/Client Name: LOW Benthic Invertebrate Survey
 Windward Project No: 04-08-06-21
 Contact Name: Helle Andersen
 Sampled By: HA
 Ship to: Columbia Analytical Services, Inc.
 Attn: Greg Salata
 Shipping address: 1317 13th Ave.
KELSO, WA 98626
 Shipping Date: 8/19/04
 Airbill Number: 81168-7244-7904

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)	Comments / Instructions [Jar tag number(s)]
8/17/04	17:00	LOW-B4b-T	1 jar	Matrix: Tissue EPA 8270-SIM - SVOCs + Alkylated PAHs EPA 7471 - Mercury EPA 1632 - Arsenic EPA 6010 - Chromium EPA 7742 - Selenium EPA 6020 - Other metals: Antimony, cadmium, cobalt, copper, lead, molybdenum, nickel, silver, thallium, vanadium, and zinc EPA 8082Ab - PCBs (as Aroclors) Stallard et al. (1988) - TBT, DBT, MBT (as ions) PSEP - Moisture Content EPA 8081A - Organochlorine Pesticides NOAA (1993) - Lipids EPA 1668 - PCB Congeners (archived frozen) EPA 1613B - Dioxin/Furan analysis (archived frozen)	Please archive frozen until contacted by PM.	
8/17/04	12:15	LOW-B8a-T	1 jar			
8/18/04	12:20	LOW-B5b-T	1 jar			

1) Released by: Print name: <u>S.M. Goodbody</u> Signature: <u>[Signature]</u> Company: <u>Windward Environmental</u> Date/Time: <u>8/19/04 1:30 pm</u>	2) Released by: Print name: _____ Signature: _____ Company: _____ Date/Time: _____	1) Rec'd by: Print name: _____ Signature: _____ Company: _____ Date/Time: _____
Total Number of Containers: _____ Purchase Order / Statement of Work #: _____		

* Distribution: White and yellow copies accompany shipment; pink-consignor's copy; white-consignee return with results; yellow-consignee's copy.
 * Instructions for completion of Chain-of-Custody/Test Request Form on back.

Windward Environmental LLC
 • 200 West Mercer Street
 Suite 401
 Seattle, WA 98119
 Tel: 206.378.1364
 Fax: 206.217.0089

3 of 19

CHAIN-OF-CUSTODY/TEST REQUEST FORM

Project/Client Name: LDWB Ship to: Columbia Analytical Services 141

Windward Project No: 04-08-0621 Airbill Number: 8/27/04

Contact Name: Susan McBroddy Shipping address: 1319 S. 13th Avenue

Sampled By: Helle Andersen Kebo, WA 98126

Matrix: Tissue 3 / Instructions g number(s)

- EPA 8270-SIM - SVOCs + Alkylated PAHs
- EPA 7471 - Mercury
- EPA 1632 - Arsenic
- EPA 6010 - Chromium
- EPA 7742 - Selenium
- EPA 6020 - Other metals: Antimony, cadmium, cobalt, copper, lead, molybdenum, nickel, silver, thallium, vanadium, and zinc
- EPA 8082Ab - PCBs (as Aroclors)
- Stallard et al. (1988) - TBT, DBT, MBT (as ions)
- PSEP - Moisture Content
- EPA 8081A - Organochlorine Pesticides
- NOAA (1993) - Lipids
- EPA 1638 - PCB Congeners (archived frozen)
- EPA 1613B - Dioxin/Furan analysis (archived frozen)

ARCHIVE PROZEN calls to stock

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix
8/26/04	11:15	LDW-B3a-T	1 Jar	Tissue
8/27/04	8:00	LDW-B9a-T	1 Jar	"
8/27/04	9:30	LDW-B8a-T	1 Jar	"
8/25/04	7:25	LDW-010a-T	1 Jar	"
8/27/04	10:45	LDW-B5a-T	1 Jar	"
Total Number of Containers				

Purchase Order / Statement of Work #

1) Released by: Print name: Signature: Company: Date/Time:	2) Released by: Print name: Signature: Company: Date/Time:	1) Rec'd by: Print name: Signature: Company: Date/Time:
--	--	---

Distribution: White and yellow copies accompany shipment; pink-consignor's copy; white-consignee return with results; yellow-consignee's copy.

Instructions for completion of Chain-of-Custody/TEST Request Form on back.

To be completed by Laboratory upon sample receipt:

Date of receipt:	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

200 West Mercer Street
Suite 401
Seattle, WA 98119
Tel: 206.378.1364
Fax: 206.217.0089



CHAIN-OF-CUSTODY/TEST REQUEST FORM

Project/Client Name: LDWdb Ship to: Columbia Analytical Services 1418
 Windward Project No: 04-08-06r21 Attn: Greg Sclata Shipping Date: 8/27/04
 Contact Name: Susan McFadden Shipping address: 1317 S. 13th Avenue Airbill Number: 1
 Sampled By: Helle Andersen Keto, WA 98126

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Notes
8/26/04	11:35	LDW-83a-T	1 Jar	tissue	
8/27/04	8:00	LDW-83a-T	1 Jar	"	
8/27/04	9:30	LDW-83a-T	1 Jar	"	
8/25/04	7:25	LDW-B10a-T	1 Jar	"	
8/27/04	10:45	LDW-83a-T	1 Jar	"	

Matrix: Tissue
 EPA 8270-SIM - SVOCs + Alkylated PAHs
 EPA 7471 - Mercury
EPA 1632 - Arsenic ND
 EPA 6010 - Chromium
 EPA 7742 - Selenium
 EPA 6020 - Other metals: Antimony, cadmium, cobalt, copper, lead, molybdenum, nickel, silver, thallium, vanadium, and zinc
 EPA 8082Ab - PCBs (as Aroclors)
 Stallard et al. (1988) - TBT, DBT, MBT (as ions)
 PSEP - Moisture Content
 EPA 8081A - Organochlorine Pesticides
 NOAA (1993) - Lipids
 EPA 1668 - PCB Congeners (archived frozen)
 EPA 1613B - Dioxin/Furan analysis (archived frozen)

* ~~ARCHIVE~~ FREEZE NO CALLS TO STAFF

Purchase Order / Statement of Work #

1) Released by: Print name: Signature: Company: Date/Time:	1) Rec'd by: Print name: Signature: Company: Date/Time:
2) Released by: Print name: Signature: Company: Date/Time:	2) Rec'd by: Print name: Signature: Company: Date/Time:

* Distribution: White and yellow copies accompany shipment; pink-consignor's copy; white-consignee return with results; yellow-consignee's copy.

* Instructions for completion of Chain-of-Custody/Test Request Form on back.

• 200 West Mercer Street
 Suite 401
 Seattle, WA 98119
 Tel: 206.378.1364
 Fax: 206.217.0089



To be completed by Laboratory upon sample receipt:

Date of receipt:	Laboratory W.O. #
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

CHAIN-OF-CUSTODY/TEST REQUEST FORM

1421

Project/Client Name: LDWB
 Windward Project No: 04-OR-06-21
 Contact Name: SUSAN McGRADY
 Sampled By: HELE ANDERSON

Ship to: COLUMBIA ANACARDIUM SEEDS
 Attn: GRACE SALATA
 Shipping address: 1314 S 13th AVE
KANSAS, WA 98046
 Shipping Date: 8/31/04
 Airbill Number: _____

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Instructions number(s)]
8/30/04	1200	LDWB-P7a-T	1 jar	TISSUE	Matrix: Tissue EPA 8270-SIM - SVOCs + Alkylated PAHs EPA 7471 - Mercury EPA 1632 - Arsenic EPA 6010 - Chromium EPA 7742 - Selenium EPA 6020 - Other metals: Antimony, cadmium, cobalt, copper, lead, molybdenum, nickel, silver, thallium, vanadium, and zinc EPA 8082Ab - PCBs (as Aroclors) Stallard et al. (1988) - TBT, DBT, MBT (as ions) PSEP - Moisture Content EPA 8081A - Organochlorine Pesticides NOAA (1993) - Lipids EPA 1668 - PCB Congeners (archived frozen) EPA 1613B - Dioxin/Furan analysis (archived frozen)
8/30/04	1200	LDWB-P7b-T	1 jar	TISSUE	

Total Number of Containers _____

Purchase Order / Statement of Work # _____

1) Released by:
 Print name: HELE ANDERSON
 Signature: [Signature]
 Company: WINDWARD
 Date/Time: 8/31/04 1215

2) Released by:
 Print name: _____
 Signature: _____
 Company: _____
 Date/Time: _____

1) Rec'd by:
 Rec'd by: _____
 Company: _____
 Date/Time: _____

Distribution: White and yellow copies accompany shipment; pink-consignor's copy; white-consignee return with results; yellow-consignee's copy.
 * Instructions for completion of Chain-of-Custody/Test Request Form on back.

To be completed by Laboratory upon sample receipt:

Date of receipt:	Laboratory W.O. #
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

• 200 West Mercer Street
 Suite 401
 Seattle, WA 98119
 Tel: 206.378.1364
 Fax: 206.217.0089

CHAIN-OF-CUSTODY/TEST REQUEST FORM

No 2038 ✓

Project/Client Name: LDW BENTONIC INDUSTRIAL WASTE SERVICE Ship to: COLUMBIA ANALYTICAL SERVICES
 Project Number: 04-AR-06-21 Attn: ALICE SALATA Shipping Date: 9/29/04
 Contact Name: HELEN ANDERSON Shipper: UA Airbill Number:
 Sampled By: UA Form filled out by: UA Turnaround requested:

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)				Comments / Instructions [Jar tag number(s)]
9/27/04	1250	LDW-B16-T	1	TISSUE					Matrix: Tissue EPA 8270-SIM - SVOCs + Alkylated PAHs EPA 7471 - Mercury EPA 1632 - Arsenic EPA 6010 - Chromium EPA 7742 - Selenium EPA 6020 - Other metals: Antimony, cadmium, cobalt, copper, lead, molybdenum, nickel, silver, thallium, vanadium, and zinc EPA 8082Ab - PCBs (as Aroclors) Stallard et al. (1988) - TBT, DBT, MBT (as ions) PSEP - Moisture Content EPA 8081A - Organochlorine Pesticides NOAA (1993) - Lipids EPA 1668 - PCB Congeners (archived frozen) EPA 1613B - Dioxin/Furan analysis (archived frozen)
9/27/04	1600	LDW B26-T	1	TISSUE					
1) Released by: <u>HELEN ANDERSON</u>			Total Number of Containers	Purchase Order / S					
Print name: <u>HELEN ANDERSON</u>				2) F					
Signature: <u>HELEN ANDERSON</u>			F						
Company: <u>WINDWARD</u>					Signature: _____ Company: _____ Date/Time: _____				
Date/Time: <u>9/29/04</u>					Date/Time: _____				


* Distribution: White copies accompany shipment; yellow retained by consignee.

To be completed by Laboratory upon sample receipt:

Date of receipt: _____ Laboratory W/O #: _____

Condition upon receipt: _____ Time of receipt: _____

Cooler temperature: _____ Received by: _____



 200 West Mercer Street
 Suite 401
 Seattle, WA 98119
 Tel: (206) 378-1364
 Fax: (206) 217-9343

CHAIN-OF-CUSTODY/TEST REQUEST FORM

of

No 2145 ✓

Project/Client Name: LDW BENNY MIL WOODBRIDGE SURVEY Ship to: COLUMBIA ANALYTICAL SERVICE
 Project Number: 04-08-06-21 Attn: GRETA SAEATA Shipping Date: 9/29/04
 Contact Name: HELLE ANDERSEN Shipper: MA Airbill Number:
 Sampled By: MA Form filled out by: MA Turnaround requested:

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)				Comments / Instructions (jar tag number(s))
9/22/04	1200	LDW-B46-T	1	TISSUE					Matrix: Tissue EPA 8270-SIM - SVOCs + Alkylated PAHs EPA 7471 - Mercury EPA 1632 - Arsenic EPA 6010 - Chromium EPA 7742 - Selenium EPA 6020 - Other metals: Antimony, cadmium, cobalt, copper, lead, molybdenum, nickel, silver, thallium, vanadium, and zinc EPA 8082Ab - PCBs (as Aroclors) Stallard et al. (1988) - TBT, DBT, MBT (as ions) PSEP - Moisture Content EPA 8081A - Organochlorine Pesticides NOAA (1993) - Lipids
9/22/04	1440	LDW-B56-T	1	TISSUE					


1) Released by: HELLE ANDERSEN Date/Time: 9/29/04
 Print name: HELLE ANDERSEN Company: WINDWARD
 Signature: Helle Andersen Date/Time: 9/29/04
 Total Number of Containers: 2 Purchase Order / S: 21
 Rec'd by: HELLE ANDERSEN Date/Time: 9/29/04
 Signature: Helle Andersen Company: WINDWARD
 Date/Time: 9/29/04

9 of 19

To be completed by Laboratory upon sample receipt:

Date of receipt:	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

* Distribution: White copies accompany shipment; yellow retained by consignee.



Windward
environmental LLC

200 West Mercer Street
 Suite 401
 Seattle, WA 98119
 Tel: (206) 378-1364
 Fax: (206) 217-9343

9 of 19

CHAIN-OF-CUSTODY/TEST REQUEST FORM

1400

Project/Client Name: LDW Pentac Invertebrate Survey
 Ship to: Columbia Analytical Service, Inc.
 Windward Project No: 04-08-66-21
 Attn: Greg Salata
 Contact Name: Helle Andersen
 Shipping address: 1377 13th Ave
 Shipping Date: 2/17/04
 Sampled By: HA
 Airbill Number: 52768 3364 7137
 Airbill Number: KELG IUA 98626

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)	Comments / Instructions [Jar tag number(s)]
<u>2/13/04</u>	<u>11:00</u>	<u>LDW-B22-S</u>	<u>4 jars</u>	Matrix: Sediment		
<u>2/15/04</u>	<u>13:00</u>	<u>LDW-B6a-S</u>	<u>4 jars</u>	EPA 8270-SIM - SVOCs + Alkylated PAHs		
<u>2/14/04</u>	<u>12:50</u>	<u>LDW-B42-S</u>	<u>4 jars</u>	EPA 7471 - Mercury		<u>Please archive 102201</u>
<u>2/12/04</u>	<u>10:45</u>	<u>LDW-B1a-S</u>	<u>4 jars</u>	EPA 6020 - Other metals - Arsenic, antimony, cadmium, chromium, cobalt, copper, lead, molybdenum, nickel, selenium, silver, thallium, vanadium, and zinc		<u>IMBI CONTACTED</u>
<u>2/11/04</u>	<u>15:30</u>	<u>LDW-B9b-S</u>	<u>4 jars</u>	EPA 8082Ab - PCBs (as Aroclors)		<u>NJ PM-1</u>
<u>2/16/04</u>	<u>10:30</u>	<u>LDW-B5a-S</u>	<u>4 jars</u>	Stallard et al. (1988) - TBT, DBT, MBT (as ions)		
				PSEP - Moisture Content		
				EPA 8081A - Organochlorine Pesticide		
				TOC		
				Grain Size		
				EPA 1668 - PCB Congeners (archived frozen)		
				EPA 1613B - Dioxin/Furan Analysis (archived frozen)		
Total Number of Containers			<u>24</u>	Purchase Order / Statement of Work #		

1) Released by: Patricia Gibbons
 Print name:
 Signature:
 Company: Windward Env
 Date/Time: 2/17/04 12:22

2) Released by:
 Print name:
 Signature:
 Company:
 Date/Time:

1) Rec'd by:
 Company:
 Date/Time:

* Distribution: White and yellow copies accompany shipment; pink-consignor's copy, white-consignee return with results; yellow-consignee's copy.
 * Instructions for completion of Chain-of-Custody/Test Request Form on back.

• 200 West Mercer Street
 Suite 401
 Seattle, WA 98119
 Tel: 206.378.1364
 Fax: 206.217.0089

Windward
environmental LLC

Date of receipt:	Laboratory W.O. #
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

CHAIN-OF-CUSTODY/TEST REQUEST FORM

1403

Project/Client Name: LOW Benthic Invertebrate Survey
 Windward Project No: 0
 Contact Name: Helle Andersen
 Sampled By: HA

Ship to: Columbia Analytical Service, Inc.
 Attn: Greg Salata
 Shipping address: 187 13th Ave.
Kelso WA 98626

Shipping Date: 8/18/04
 Airbill Number: 846872647926

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)	Comments / Instructions [Jar tag number(s)]
8/18/04	11:00	LDW-B7b-S	4 jars			Please archive frozen with 1 container by PM.
8/18/04	15:40	LDW-B3b-S	4 jars			

Matrix: Sediment
 EPA 8270-SIM - SVOCs + Alkylated PAHs
 EPA 7471 - Mercury
 EPA 6020 - Other metals - Arsenic, antimony, cadmium, chromium, cobalt, copper, lead, molybdenum, nickel, selenium, silver, thallium, vanadium, and zinc
 EPA 8082Ab - PCBs (as Aroclors)
 Stallard et al. (1988) - TBT, DBT, MBT (as ions)
 PSEP - Moisture Content
 EPA 8081A - Organochlorine Pesticide
 TOC
 Grain Size
 EPA 1668 - PCB Congeners (archived frozen)
 EPA 1613B - Dioxin/Furan Analysis (archived frozen)

Purchase Order / Statement of Work #

1) Released by: Print name: <u>Patrick Gibbons</u> Signature: <u>[Signature]</u> Company: <u>Windward Env.</u> Date/Time: <u>8/18/04 10:55</u>	2) Released by: Print name: Signature: Company: Date/Time:	1) Rec'd by: Company: Date/Time:
--	--	--

Distribution: White and yellow copies accompany shipment; pink-consignor's copy; white-consignee return with results; yellow-consignee's copy.
 * Instructions for completion of Chain-of-Custody/Test Request Form on back.

To be completed by Laboratory upon sample receipt:

Date of receipt: _____ Laboratory W.O. # _____
 Condition upon receipt: _____ Time of receipt: _____
 Cooler temperature: _____ Received by: _____



200 West Mercer Street
 Suite 401
 Seattle, WA 98119
 Tel: 206.378.1364
 Fax: 206.217.0089

CHAIN-OF-CUSTODY/TEST REQUEST FORM

1404

Project/Client Name: LOW Benthic Invertebrate Survey
 Windward Project No: 04-08-06-21
 Contact Name: Helle Anderson
 Sampled By: HA
 Ship to: Columbia Analytical Services, Inc.
 Attn: Gra Salata
 Shipping address: 1317 12th Ave
Kelso, WA 98626
 Shipping Date: 8/19/04
 Airbill Number: 8428-7764-9904

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)	Comments / Instructions [Jar tag number(s)]
8/17/04	16:36	LOW-B4b-S	4 jars	Matrix: Sediment EPA 8270-SIM - SVOCs + Alkylated PAHs EPA 7471 - Mercury EPA 6020 - Other metals - Arsenic, antimony, cadmium, chromium, cobalt, copper, lead, molybdenum, nickel, selenium, silver, thallium, vanadium, and zinc EPA 8082Ab - PCBs (as Aroclors) Stallard et al. (1988) - TBT, DBT, MBT (as ions) PSEP - Moisture Content EPA 8081A - Organochlorine Pesticide TOC Grain Size EPA 1668 - PCB Congeners (archived frozen) EPA 1613B - Dioxin/Furan Analysis (archived frozen)	Please archive frozen until contacted by PM.	
8/17/04	12:15	LOW-B6a-S	4 jars			
8/18/04	12:05	LOW-B5b-S1	4 jars			
8/18/04	12:05	LOW-B5b-S2	4 jars			

Total Number of Containers		Purchase Order / Statement of Work #	
1) Released by: <u>S. W. Gredler</u> Print name: Signature: <u>[Signature]</u> Company: <u>Windward</u> Date/Time: <u>8/19/04 1:30pm</u>	2) Released by: Print name: Signature: Company: Date/Time:	1) Rec'd by: Company: Date/Time:	1) Rec'd by: Company: Date/Time:

* Distribution: White and yellow copies accompany shipment; pink-consignor's copy; white-consignee return with results; yellow-consignee's copy.
 * Instructions for completion of Chain-of-Custody/Test Request Form on back.

• 200 West Mercer Street
 Suite 401
 Seattle, WA 98119
 Tel: 206.378.1364
 Fax: 206.217.0089



Date of receipt:	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

CHAIN-OF-CUSTODY/TEST REQUEST FORM

1420

Project/Client Name: LDW26 Ship to: Columbia Analytical Services
 Windward Project No: 04-08-06-21 Attn: Greg Salazar Shipping Date: 9/27/04
 Contact Name: Susan McGoldrick Shipping address: 1317 S. 13th Ave Airbill Number: 1734-AS-2704
 Sampled By: Helle Lindstrom Kelso WA 98626

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)	Comments / Instructions
8/27/04	9:00	LDW-B0A-S	4 Jars	Sediment	Matrix: Sediment EPA 8270-SIM - SVOCs + Alkylated PAHs EPA 7471 - Mercury EPA 6020 - Other metals - Arsenic, antimony, cadmium, chromium, cobalt, copper, lead, molybdenum, nickel, selenium, silver, thallium, vanadium, and zinc EPA 8082Ab - PCBs (as Aroclors) Stallard et al. (1988) - TBT, DBT, MBT (as ions) PSEP - Moisture Content EPA 8081A - Organochlorine Pesticide TOC Grain Size EPA 1668 - PCB Congeners (archived frozen) EPA 1613B - Dioxin/Furan Analysis (archived frozen)	STORE FROZEN (except grain size)
8/25/04	7:25	LDW-B10A-S	4 Jars	"		
8/27/04	9:30	LDW-B5A-S	4 Jars	"		
8/27/04	10:45	LDW-B2A-S	4 Jars	"		
8/26/04	7:50	LDW-B3A-S	4 Jars	"		
Total Number of Containers			20 Jars		Purchase Order / Statement of Work #	

1) Released by: Susan McGoldrick 1) Rec'd by: _____
 Print name: _____ Company: _____
 Signature: Susan McGoldrick Date/Time: _____
 Company: _____
 Date/Time: _____

* Distribution: White and yellow copies accompany shipment; pink-consignor's copy; white-consignee return with results; yellow-consignee's copy.
 * Instructions for completion of Chain-of-Custody/Test Request Form on back.

To be completed by Laboratory upon sample receipt:

Date of receipt:	Laboratory W.O. #
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

200 West Mercer Street
 Suite 401
 Seattle, WA 98119
 Tel: 206.378.1364
 Fax: 206.217.0089

Windward
 environmental LLC

CHAIN-OF-CUSTODY/TEST REQUEST FORM

1422

Project/Client Name: LDW/
 Windward Project No: 04-W-06-21
 Contact Name: SUSAN MCGOODY
 Sampled By: Kelli Anderson

Ship to: Columbia Acoustical Services
 Attn: SARAH SALATA
 Shipping address: 1917 S. 134th Ave
WILSON WA 98126
 Shipping Date: 8/31/04
 Airbill Number:

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	actions per (s)
8/30/04	1200	LDW-R7A-S	4 VIALS	Sediment	<p>Matrix: Sediment EPA 8270-SIM - SVOCs + Alkylated PAHs EPA 7471 - Mercury EPA 6020 - Other metals - Arsenic, antimony, cadmium, chromium, cobalt, copper, lead, molybdenum, nickel, selenium, silver, thallium, vanadium, and zinc EPA 8082Ab - PCBs (as Aroclors) Stallard et al. (1988) - TBT, DBT, MBT (as ions) PSEP - Moisture Content EPA 8081A - Organochlorine Pesticide TOC Grain Size EPA 1668 - PCB Congeners (archived frozen) EPA 1613B - Dioxin/Furan Analysis (archived frozen)</p>
8/30/04	1200	LDW-R7B-S	4 VIALS	Sediment	

Total Number of Containers

Purchase Order / Statement of Work #

1) Released by:
 Print name: Kelli Anderson
 Signature: [Signature]
 Company: Windward
 Date/Time: 8/31/04 1215

2) Released by:
 Print name:
 Signature:
 Company:
 Date/Time:

1) Rec'd by:
 Company:
 Date/Time:

To be completed by Laboratory upon sample receipt:

Date of receipt: _____ Laboratory W.O. # _____
 Condition upon receipt: _____ Time of receipt: _____
 Cooler temperature: _____ Received by: _____

* Distribution: White and yellow copies accompany shipment; pink-consignor's copy; white-consignee return with results; yellow-consignee's copy.
 * Instructions for completion of Chain-of-Custody/Test Request Form on back.

Windward environmental LLC

- 200 West Mercer Street
 Suite 401
 Seattle, WA 98119
 Tel: 206.378.1364
 Fax: 206.217.0089

12407473

CHAIN-OF-CUSTODY/TEST REQUEST FORM

of

No 2041 ✓

Project/Client Name: LDW Ship to: COLUMBIA ANATOMICAL SERVICES
 Project Number: 04-08-06-21 Attn: GRACE SHERMAN Shipping Date: 9/29/04
 Contact Name: SUSIE MCGRADY Shipper: _____ Airbill Number: _____
 Sampled By: LDW Form filled out by: LDW Turnaround requested: _____

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)		Comments / Instructions (Jar tag number(s))
9/24/04	1120	LDW-35a-3	4	Sediment			PERMITS RESIDUALS PAHs CHLORIDES AROMATIC OTHER
							Matrix: Sediment
							EPA 8270-SIM - SVOCs + Alkylated PAHs
							EPA 7471 - Mercury
							EPA 6020 - Other metals - Arsenic, antimony, cadmium, chromium, cobalt, copper, lead, molybdenum, nickel, selenium, silver, thallium, vanadium, and zinc
							EPA 8082Ab - PCBs (as Aroclors)
							Stallard et al. (1988) - TBT, DBT, MBT (as ions)
							PSEP - Moisture Content
							EPA 8081A -Organochlorine Pesticide
							TOC
							Grain Size
							EPA 1668 - PCB Congeners (archived frozen)
							EPA 1613B - Dioxin/Furan Analysis (archived frozen)
1) Released by: _____		Total Number of Containers: <u>4</u>		Purchase Order / 5			
Print name: <u>HELE AMUNDSON</u>		1) Rec'd by: <u>[Signature]</u>		2) 1			
Signature: <u>[Signature]</u>		Company: <u>APARIZ CAS</u>		Company: _____			
Date/Time: <u>9/29/04</u>		Date/Time: <u>9/29/04 1800</u>		Date/Time: _____			

* Distribution: White copies accompany shipment; yellow retained by consignee.

To be completed by Laboratory upon sample receipt:

Date of receipt:	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature: <u>0°C.3</u>	Received by:

200 West Mercer Street
 Suite 401
 Seattle, WA 98119
 Tel: (206) 378-1364
 Fax: (206) 217-9343



CHAIN-OF-CUSTODY/TEST REQUEST FORM

No 2042

Project/Client Name: LDW Benthic Invertebrate Survey Ship to: COLUMBIA Analytical Services
 Project Number: 04-08-06-27 Attn: ARLE SACADA Shipping Date: 9/29/04
 Contact Name: KEZEE ANDERSON Shipper: _____ Airbill Number: _____
 Sampled By: KA Form filled out by: KA Turnaround requested: _____

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)					Comments / Instructions (jar tag number(s))
					<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
9/27/04	1350	LDW-B1b-S	8.4	SEDIMENT						Matrix: Sediment EPA 8270-SIM - SVOCs + Alkylated PAHs EPA 7471 - Mercury EPA 6020 - Other metals - Arsenic, antimony, cadmium, chromium, cobalt, copper, lead, molybdenum, nickel, selenium, silver, thallium, vanadium, and zinc EPA 8082Ab - PCBs (as Aroclors) Stallard et al. (1988) - TBT, DBT, MBT (as ions) PSEP - Moisture Content EPA 8081A - Organochlorine Pesticide TOC Grain Size EPA 1668 - PCB Congeners (archived frozen) EPA 1613B - Dioxin/Furan Analysis (archived frozen)
9/27/04	1600	LDW-B2b-S	4	SEDIMENT						
9/27/04										
Total Number of Containers										

1) Released by: _____ 2) Rec'd by: _____

Print name: KEZEE ANDERSON Company: _____

Signature: KEZEE ANDERSON Date/Time: _____

Company: WINDWARD Date/Time: 9/29/04

To be completed by Laboratory upon sample receipt:

Date of receipt:	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

200 West Mercer Street
 Suite 401
 Seattle, WA 98119
 Tel: (206) 378-1364
 Fax: (206) 217-9343

* Distribution: White copies accompany shipment; yellow retained by consignee.

of

CHAIN-OF-CUSTODY/TEST REQUEST FORM

Nº 2146 ✓

Project/Client Name: LDW Benthic Invertebrate Survey Ship to: COLUMBIA Anacostia Sewer

Contact Name: HELC Anderson Attn: HELC ANDERSON Shipping Date: 9/29/04

Sampled By: HA Shipper: HELC ANDERSON Airbill Number: _____

Form filled out by: HA Turnaround requested: _____

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)				Comments / Instructions (Jar tag number(s))
9/28/04	1200	LDW-B4b-S	4	SEDIMENT					Matrix: Sediment EPA 8270-SIM - SVOCs + Alkylated PAHs EPA 7471 - Mercury EPA 6020 - Other metals - Arsenic, antimony, cadmium, chromium, cobalt, copper, lead, molybdenum, nickel, selenium, silver, thallium, vanadium, and zinc EPA 8082Ab - PCBs (as Aroclors) Stallard et al. (1988) - TBT, DBT, MBT (as ions) PSEP - Moisture Content EPA 8081A -Organochlorine Pesticide TOC Grain Size EPA 1668 - PCB Congeners (archived frozen) EPA 1613B - Dioxin/Furan Analysis (archived frozen)
9/28/04	1440	LDW-R5b-S	4	SEDIMENT					
Total Number of Containers									Purchase Order
1) Released by: _____					Signature: _____ Company: _____				
Print name: <u>HELC Anderson</u>					Date/Time: <u>9/29/04</u>				
Signature: <u>HELC Anderson</u>					Company: <u>WINDWARD</u>				
Date/Time: _____					Signature: _____ Company: _____				
Date/Time: <u>9/29/04</u>					Date/Time: _____				

* Distribution: White copies accompany shipment; yellow retained by consignee.

To be completed by Laboratory upon sample receipt:

Date of receipt:	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

200 West Mercer Street
 Suite 401
 Seattle, WA 98119
 Tel: (206) 378-1364
 Fax: (206) 217-9343



2 of 2

Windward Environmental

K2udb297
1408

CHAIN-OF-CUSTODY/TEST REQUEST FORM

Invertebrate

Project/Client Name: LDW Benthic Survey
 Windward Project No: 04-08-06-21
 Contact Name: Helle Andersen
 Sampled By: HA
 Ship to: Columbia Analytical Services, Inc.
 Attn: Greg Sakata
 Shipping address: 1317 13th Ave
Kelso, WA 98626
 Shipping Date: 8/20/04
 Airbill Number: 1234 8-20-04

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)	Comments / Instructions (Jar tag number(s))
8/18/04	17:00	LOW-B6b-T	1 jar			Please archive
8/19/04	16:30	LOW-B8b-T	1 jar			As soon as possible
8/19/04	12:00	LOW-B10b-T	1 jar			Contacted by PM.

Total Number of Containers _____

Purchase Order / Statement of Work # _____

1) Released by: *S. McGoldrick*
 Print name: *S. McGoldrick*
 Signature: *S. McGoldrick*
 Company: *Windward*
 Date/Time: *8/20/04 2:00pm*

2) Released by: *Frank Blain*
 Print name: *Frank Blain*
 Signature: *Frank Blain*
 Company: *CAS*
 Date/Time: *8/21/04 1240*

1) Rec'd by:
 Print name:
 Signature:
 Company:
 Date/Time:

To be completed by Laboratory upon sample receipt:

Date of receipt: _____ Laboratory W.G. # _____
 Condition upon receipt: _____ Time of receipt: _____
 Cooler temperature: _____ Received by: _____

* Distribution: White and yellow copies accompany shipment; pink-consignor's copy; white-consignee return with results; yellow-consignee's copy.
 * Instructions for completion of Chain-of-Custody/Test Request Form on back.

200 West Mercer Street
 Suite 401
 Seattle, WA 98119
 Tel: 206.378.1364
 Fax: 206.217.0089

Windward
 environmental LLC

1 of 2

Windward Environmental

12406296

CHAIN-OF-CUSTODY/TEST REQUEST FORM

1406

Project/Client Name: LDW Benthic Invertebrate Survey Ship to: Columbia Analytical Services, Inc.
 Windward Project No: 04-08-06-21 Attn: Greg Salata Shipping Date: 8/20/04
 Contact Name: Helle Andersen Shipping address: 1317 13th Ave Airbill Number: 1234 8-20-04
 Sampled By: HA Kelso, WA 98626

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)	Comments / Instructions (Jar tag number(s))
8/18/04	16:45	LDW-866-S	4 jars			
8/19/04	16:08	LDW-886-S	4 jars			
8/19/04	11:50	LDW-8106-S	4 jars			
				Matrix: Sediment		
				EPA 8270-SIM - SVOCs + Alkylated PAHs		
				EPA 7471 - Mercury		please archive
				EPA 6020 - Other metals - Arsenic, antimony, cadmium, chromium, cobalt, copper, lead, molybdenum, nickel, selenium, silver, thallium, vanadium, and zinc		frozen until
				EPA 8082Ab - PCBs (as Aroclors)		contacted by PM.
				Stallard et al. (1988) - TBT, DBT, MBT (as ions)		
				PSEP - Moisture Content		
				EPA 8081A - Organochlorine Pesticide		
				TOC		
				Grain Size		
				EPA 1668 - PCB Congeners (archived frozen)		
				EPA 1613B - Dioxin/Furan Analysis (archived frozen)		

1) Released by: Print name: <u>S. McGee</u> Signature: <u>Susan McGee</u> Company: <u>Windward Environmental</u> Date/Time: <u>8/20/04 2:00pm</u>		2) Released by: Print name: <u>Greg Salata</u> Signature: <u>Greg Salata</u> Company: <u>Columbia Analytical Services</u> Date/Time: <u>8/21/04 1240</u>		1) Rec'd by: Company: Date/Time:
Total Number of Containers		Purchase Order / Statement of Work #		

* Distribution: White and yellow copies accompany shipment; pink-consignor's copy; white-consignee return with results; yellow-consignee's copy.
 * Instructions for completion of Chain-of-Custody/Test Request Form on back.

To be completed by Laboratory upon sample receipt:

Date of receipt:	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

Windward environmental LLC
 • 200 West Mercer Street
 Suite 401
 Seattle, WA 98119
 Tel: 206.378.1364
 Fax: 206.217.0089

Attachment F-2: Clam and sediment COC

Lower Duwamish Waterway Group

Port of Seattle / City of Seattle / King County / The Boeing Company

CHAIN-OF-CUSTODY/TEST REQUEST FORM

1410 ✓

Project/Client Name: Lower Duwamish Working Group Ship to: Columbia Analytical Services Shipping Date: 8/27/04
 Windward Project No: 04-08-D6-21 Attn: Avea Salatas Airbill Number: 1230-1082704
 Contact Name: Susan H. Broddy Shipping address: 137 S. 13th Avenue
 Sampled By: Helle Andersen Kello, LOA Kello

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)	Comments / Instructions (Jar tag number(s))
8/26/04	9:45	LDW-68-T	2 jars	whole	Clam Samples EPA 8270-SIM - SVOCs + low-level PAHs" EPA 7471 - Mercury EPA 1632 - Arsenic (Inorganic) EPA 6010 - Chromium EPA 7742 - Selenium "EPA 6020 - Other metals: Antimony, cadmium, cobalt, copper, lead, molybdenum, nickel, silver, thallium, vanadium, and zinc" EPA 8082Ab - PCBs (as Aroclors) Stallard et al. (1988) - TBT, DBT, MBT (as ions) PSEP - Moisture Content EPA 8081A - Organochlorine Pesticides NOAA (1993) - Lipids EPA 1668 - PCB Congeners (archived frozen) EPA 1613B - Dioxin/Furan Analysis (archived frozen)	re-refined
"	7:45	LDW-C7-T2	2 jars	clam		re-refined
8/26/04	7:25	LDW-C7-T1	2 jars			re-refined
8/26/04	9:10:15	LDW-C1-T	2 jars			re-refined
						re-refined
Total Number of Containers			8 jars	Purchase Order / Statement of Work #		

1) Released by: Susan H. Broddy 1) Rec'd by: _____
 Print name: Susan H. Broddy Print name: _____
 Signature: [Signature] Signature: _____
 Company: Windward Company: _____
 Date/Time: 8/27/04 5:00pm Date/Time: _____

2) Released by: _____ 2) Rec'd by: _____
 Print name: _____ Print name: _____
 Signature: _____ Signature: _____
 Company: _____ Company: _____
 Date/Time: _____ Date/Time: _____

To be completed by Laboratory upon sample receipt:

Date of receipt: _____	Laboratory W.O. # _____
Condition upon receipt: _____	Time of receipt: _____
Cooler temperature: _____	Received by: _____

CHAIN-OF-CUSTODY/TEST REQUEST FORM

1411

Project/Client Name: Lower Duwamish Working Group Ship to: Columbia Analytical Services Shipping Date: 8/27/04
 Windward Project No: 04-09-06-21 Attn: Breg Salatas Airbill Number: 1274 A08 2704
 Contact Name: Susan P. Fiedler Shipping address: 317 S. 13th Avenue
 Sampled By: Helle Andersen Helix, WA 98120

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)	Comments / Instructions [Jar tag number(s)]
8/27/04	6:15 AM	LDW-C2-T1	2 jars	Water		
8/27/04	7:05 AM	LDW-C2-T2	6 jars	Water		
8/27/04	7:45 AM	LDW-C10-T2	2 jars	Water		
8/27/04	8:15 AM	LDW-C10-T1	2 jars	Water		
<p>Clam Samples EPA 8270-SIM - SVOCs + low-level PAHs" EPA 7471 - Mercury EPA 1632 - Arsenic (Inorganic) EPA 6010 - Chromium EPA 7742 - Selenium "EPA 6020 - Other metals: Antimony, cadmium, cobalt, copper, lead, molybdenum, nickel, silver, thallium, vanadium, and zinc" EPA 8082Ab - PCBs (as Aroclors) Stallard et al. (1988) - TBT, DBT, MBT (as ions) PSEP - Moisture Content EPA 8081A - Organochlorine Pesticides NOAA (1993) - Lipids EPA 1668 - PCB Congeners (archived frozen) EPA 1613B - Dioxin/Furan Analysis (archived frozen)</p>						
Total Number of Containers					12 JARS	Purchase Order

1) Released by: Print name: Signature: Company: Date/Time:	1) Recd by: Company: Date/Time:
2) Released by: Print name: Signature: Company: Date/Time:	2) Recd by: Company: Date/Time:

* Distribution: White and yellow copies accompany shipment; pink-consignor's copy; white-consignee return with results; yellow-consignee's copy.
 * Instructions for completion of Chain-of-Custody/Test Request Form on back.

● 200 West Mercer Street
 Suite 401
 Seattle, WA 98119
 Tel: 206.378.1364
 Fax: 206.217.0089

Windward
 environmental LLC

To be completed by Laboratory upon sample receipt:

Date of receipt:	Laboratory W.O. #
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

Windward Environmental

CHAIN-OF-CUSTODY/TEST REQUEST FORM

1412 ✓

Project/Client Name: Lower Duwamish Working Group Ship to: Columbia Analytical Services

Windward Project No: 04-08-06-21 Attn: Greg Galatco Shipping Date: 18/27/04

Contact Name: SIGMUND H. FROELICH Shipping address: 1374 S. 13th Avenue Airbill Number: 1281 Dec 27 04

Sampled By: Helle Anderson Helix, WA 98106

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)	Comments / Instructions (Laboratory number(s))
8/25/04	7:40	LDW-C9-T	3 jars	Whole chain		Clam Samples EPA 8270-SIM - SVOCs + low-level PAHs" EPA 7471 - Mercury EPA 1632 - Arsenic (Inorganic) EPA 6010 - Chromium EPA 7742 - Selenium "EPA 6020 - Other metals: Antimony, cadmium, cobalt, copper, lead, molybdenum, nickel, silver, thallium, vanadium, and zinc" EPA 8082Ab - PCBs (as Aroclors) Stallard et al. (1988) - TBT, DBT, MBT (as ions) PSEP - Moisture Content EPA 8081A - Organochlorine Pesticides NOAA (1993) - Lipids EPA 1668 - PCB Congeners (archived frozen) EPA 1613B - Dioxin/Furan Analysis (archived frozen)
8/25/04	7:35	LDW-C6-T	3 jars			
8/27/04	7:45-8	LDW-C11-T	3 jars			
Total Number of Containers					<u>9 Jars</u>	Purchase Order / Statement of Work #

1) Released by:
 Print name: Sigmond H. Froelich
 Signature: [Signature]
 Company: Windward
 Date/Time: 8/27/04

1) Rec'd by:

Company: _____ Date/Time: _____

2) Released by:
 Print name: _____
 Signature: _____
 Company: _____
 Date/Time: _____

1) Rec'd by:
 Company: _____ Date/Time: _____

To be completed by Laboratory upon sample receipt:

Date of receipt: _____	Laboratory W.O. # _____
Condition upon receipt: _____	Time of receipt: _____
Cooler temperature: _____	Received by: _____

* Distribution: White and yellow copies accompany shipment; pink-consignor's copy; white-consignee return with results; yellow-consignee's copy.
 * Instructions for completion of Chain-of-Custody/Test Request Form on back.

Windward environmental LLC

200 West Mercer Street
 Suite 401
 Seattle, WA 98119
 Tel: 206.378.1364
 Fax: 206.217.0089

CHAIN-OF-CUSTODY/TEST REQUEST FORM

1413

Project/Client Name: Lower Duwamish Working Group
 Windward Project No: 04-08-00-21
 Contact Name: SUSAN HANCOCK
 Sampled By: Helle Andersen

Ship to: Columbia Analytical Services
 Attn: Free Solvent
 Shipping address: 1317 S. 13th Avenue
 Bellevue WA 98126

Shipping Date: 8/27/04
 Airbill Number: 1231-AUG 2701

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)	Comments / Instructions (Jar tag number(s))
8/27/04	8:30 A	CDW-C5-T	3 JARS	Water	Clam Samples EPA 8270-SIM - SVOCs + low-level PAHs EPA 7471 - Mercury EPA 1632 - Arsenic (Inorganic) EPA 6010 - Chromium EPA 7742 - Selenium	
8/27/04	10:45	CDW-C3-T2	3 JARS		"EPA 6020 - Other metals: Antimony, cadmium, cobalt, copper, lead, molybdenum, nickel, silver, thallium, vanadium, and zinc"	
8/27/04	10:00	CDW-C3-T1	2 JARS		EPA 8082Ab - PCBs (as Aroclors) Stallard et al. (1988) - TBT, DBT, MBT (as ions) PSEP - Moisture Content EPA 8081A - Organochlorine Pesticides NOAA (1993) - Lipids EPA 1668 - PCB Congeners (archived frozen) EPA 1613B - Dioxin/Furan Analysis (archived frozen)	

Total Number of Containers 8 Jars

Purchase Order / Statement of Work #

1) Released by: Print name: Susan Hancock Signature: Susan Hancock Company: Windward Date/Time: 8/27/04 5:00	2) Released by: Print name: Signature: Company: Date/Time:	1) Rec'd by: Company: Date/Time:
--	--	--

* Distribution: White and yellow copies accompany shipment; pink-consignor's copy; white-consignee return with results; yellow-consignee's copy.
 * Instructions for completion of Chain-of-Custody/Test Request Form on back.

To be completed by Laboratory upon sample receipt:

Date of receipt:	Laboratory W.O. #
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

200 West Mercer Street
 Suite 401
 Seattle, WA 98119
 Tel: 206.378.1364
 Fax: 206.217.0089




CHAIN-OF-CUSTODY/TEST REQUEST FORM

Project/Client Name: Lower Duwamish Working Group Ship to: Columbia Analytical Services 1414
 Windward Project No: 04-08-06-21 Attn: Greg Salatero Shipping Date: 8/27/04
 Contact Name: Susan H. Buckley Shipping address: 1317 S. 130 Avenue Airbill Number: 1
 Sampled By: Helle Andersen keby, WA 98146

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)	Comments / Instructions [Jar tag number(s)]
8/27/04	10:00	LDW-ES-51	4 jars	sed	<input checked="" type="checkbox"/> Clam Co-located Sediment <input checked="" type="checkbox"/> EPA 8270-SIM - SVOCs <input checked="" type="checkbox"/> EPA 7471 - Mercury <input checked="" type="checkbox"/> EPA 6020 - Other metals: Arsenic, antimony, cadmium, chromium, cobalt, copper, lead, molybdenum, nickel, selenium, silver, thallium, vanadium, and zinc <input checked="" type="checkbox"/> EPA 8082Ab - PCBs (as Aroclors) <input checked="" type="checkbox"/> Stallard et al. (1988) - TBT, DBT, MBT (as ions) <input checked="" type="checkbox"/> PSEP - Moisture Content <input checked="" type="checkbox"/> EPA 8081A - Organochlorine Pesticides <input checked="" type="checkbox"/> TOC <input checked="" type="checkbox"/> Grain Size <input checked="" type="checkbox"/> EPA 1668 - PCB Congeners (archived frozen) <input checked="" type="checkbox"/> EPA 1613B - Dioxin/Furan Analysis (archived frozen)	
Total Number of Containers					4	Purchase Order / Statement of Work #

1) Released by: Print name: <u>Susan M Buckley</u> Signature: <u>[Signature]</u> Company: <u>Windward Environmental LLC</u> Date/Time: <u>8/27/04 5:00</u>	2) Released by: Print name: Signature: Company: Date/Time:	1) Rec'd by: Company: Date/Time:
--	--	--

Distribution: White and yellow copies accompany shipment; pink-consignor's copy; white-consignee return with results; yellow-consignee's copy.
 * Instructions for completion of Chain-of-Custody/Test Request Form on back.



• 200 West Mercer Street
 Suite 401
 Seattle, WA 98119
 Tel: 206.378.1364
 Fax: 206.217.0089

To be completed by Laboratory upon sample receipt:
 Date of receipt:
 Condition upon receipt:
 Cooler temperature:
 Laboratory W.O. #:
 Time of receipt:
 Received by:

CHAIN-OF-CUSTODY/TEST REQUEST FORM

Project/Client Name: Lower Duwamish Ship to: Adulmic Analytical Services 1415
 Windward Project No: 04-CR-06-21 Attn: Barry Salata Shipping Date: 8/27/04
 Contact Name: Susan Fitzhuddy Shipping address: 1317 S. 13th Avenue
 Sampled By: Helle Andersen Kelsey Van Kleeze Airbill Number: _____

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)	Comments / Instructions (number(s))	
8/26/04	7:25	LDW-C7-S1	4 Jars	Sediment	Clam Co-located Sediment EPA 8270-SIM - SVOCs EPA 7471 - Mercury EPA 6020 - Other metals: Arsenic, antimony, cadmium, chromium, cobalt, copper, lead, molybdenum, nickel, selenium, silver, thallium, vanadium, and zinc EPA 8082Ab - PCBs (as Aroclors) Stallard et al. (1988) - TBT, DBT, MBT (as ions) PSEP - Moisture Content EPA 8081A - Organochlorine Pesticides TOC Grain Size EPA 1668 - PCB Congeners (archived frozen) EPA 1613B - Dioxin/Furan Analysis (archived frozen)		
8/27/04	7:45	LDW-C8-S2	4 Jars				
8/27/04	7:45	LDW-C8-S2	4 Jars				
8/27/04	7:45	LDW-C8-S3	4 Jars				
8/27/04	8:50-9	LDW-C8-S3	4 Jars				
Total Number of Containers							
Purchase Order / Statement of Work #							

1) Released by: Print name: <u>Susan Fitzhuddy</u> Signature: <u>[Signature]</u> Company: <u>Windward</u> Date/Time: <u>8/26/04 5:00</u>	2) Released by: Print name: Signature: Company: Date/Time:	1) Rec'd by: Company: Date/Time:
--	--	--

* Distribution: White and yellow copies accompany shipment; pink-consignor's copy; white-consignee return with results; yellow-consignee's copy.
 * Instructions for completion of Chain-of-Custody/Test Request Form on back.

To be completed by Laboratory upon sample receipt:

Date of receipt:	Laboratory W.O. #
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

200 West Mercer Street
 Suite 401
 Seattle, WA 98119
 Tel: 206.378.1364
 Fax: 206.217.0089

Windward
 environmental LLC

CHAIN-OF-CUSTODY/TEST REQUEST FORM

of

Project/Client Name: Lower Duwamish Working Group Ship to: Columbia Analytical 1416
 Windward Project No: 04-08-06-21 Attn: Breg Salstad 8/27/04
 Contact Name: Susan McCordy Shipping address: 137 S. 13th Avenue Airbill Number: 1734-A081704
 Sampled By: Helle Andersen Heka WA 98120

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)	Comments / Instructions (Jar tag number(s))
8/23/04	7:15 AM	LDW-C4-S	4 Jars	Sed		Clam Co-located Sediment EPA 8270-SIM - SVOCs EPA 7471 - Mercury EPA 6020 - Other metals: Arsenic, antimony, cadmium, chromium, cobalt, copper, lead, molybdenum, nickel, selenium, silver, thallium, vanadium, and zinc EPA 8082Ab - PCBs (as Aroclors) Stallard et al. (1988) - TBT, DBT, MBT (as ions) PSEP - Moisture Content EPA 8081A - Organochlorine Pesticides TOC Grain Size EPA 1668 - PCB Congeners (archived frozen) EPA 1613B - Dioxin/Furan Analysis (archived frozen)
8/25/04	5:15-PM	LDW-C10-S2	4 Jars			
8/25/04	5:45-PM	LDW-C10-S1	4 Jars			
8/25/04	7:35	LDW-C6-S	4 Jars			
8/25/04	8:40	LDW-C9-S	4 Jars			

1) Released by: Print name: <u>Susan McCordy</u> Signature: <u>[Signature]</u> Company: Date/Time: <u>8/27/04 5:00</u>	2) Released by: Print name: Signature: Company: Date/Time:	1) Rec'd by: Company: Date/Time:
Total Number of Containers: <u>20 Jars</u>		Purchase Order / Statement of Work #

* Distribution: White and yellow copies accompany shipment; pink-consignor's copy; white-consignee return with results; yellow-consignee's copy.
 * Instructions for completion of Chain-of-Custody/Test Request Form on back.

• 200 West Mercer Street
 Suite 401
 Seattle, WA 98119
 Tel: 206.378.1364
 Fax: 206.217.0089

Windward environmental LLC

To be completed by Laboratory upon sample receipt:

Date of receipt:	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

CHAIN-OF-CUSTODY/TEST REQUEST FORM

Project/Client Name: DDWdb Ship to: Columbia Analytical Services Shipping Date: 8/27/04 Laboratory Number(s): 1417
 Windward Project No: 04-08-01021 Attn: Greg Salata
 Contact Name: Susan McBroddy Shipping address: 1317 S. 13B Avenue Airbill Number: 1284-A082704
 Sampled By: Helle Andersen

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) requested)	Instructions number(s)	
8/26/04	7:15-8:00	LDW-C7-S1	4 jars	Sediment	Ciam Co-located Sediment EPA 8270-SIM - SVOCs EPA 7471 - Mercury EPA 6020 - Other metals: Arsenic, antimony, cadmium, chromium, cobalt, copper, lead, molybdenum, nickel, selenium, silver, thallium, vanadium, and zinc EPA 8082Ab - PCBs (as Aroclors) Stallard et al. (1988) - TBT, DBT, MBT (as ions) PSEP - Moisture Content EPA 8081A - Organochlorine Pesticides TOC Grain Size EPA 1668 - PCB Congeners (archived frozen) EPA 1613B - Dioxin/Furan Analysis (archived frozen)		
8/26/04	7:15-8:00	LDW-C2-S2	4 jars	Sediment			
8/26/04	7:10-8:00	LDW-C1-S	4 jars	Sediment			

Total Number of Containers 12 Jars **Purchase Order / Statement of Work #** _____

1) Released by: Print name: <u>Susan McBroddy</u> Signature: <u>[Handwritten Signature]</u> Company: <u>Windward</u> Date/Time: <u>8/27/04</u>	2) Released by: Print name: _____ Signature: _____ Company: _____ Date/Time: _____	1) Rec'd by: Company: _____ Date/Time: _____
--	--	--

* Distribution: White and yellow copies accompany shipment; pink-consignor's copy; white-consignee return with results; yellow-consignee's copy.

* Instructions for completion of Chain-of-Custody/Test Request Form on back.

To be completed by Laboratory upon sample receipt:
 Date of receipt: _____ Laboratory W.O. # _____
 Condition upon receipt: _____ Time of receipt: _____
 Cooler temperature: _____ Received by: _____



• 200 West Mercer Street
 Suite 401
 Seattle, WA 98119
 Tel: 206.378.1364
 Fax: 206.217.0089

CHAIN-OF-CUSTODY/TEST REQUEST FORM

No. **2143**

Project/Client Name: LDW
 Project Number: 04-08-16-22
 Contact Name: Susie McGoldy
 Sampled By: MW, SP

Ship to: Columbia Analytical Services, 1317 S. 13th Ave, Kelso, WA 98624
 Attn: Greg Salata 360.579.7222 Shipping Date: 9/24/04
 Shipper: TDR Airbill Number: _____
 Form filled out by: SP Turnaround requested: _____

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)				Comments / Instructions (jar tag number(s))
					Total As	Lipid	% Moisture		
9/23/04	700	B1-C-T1	2 jars	clam tissue	X	X	X		Asidue 4oz
9/23-9/24	700-800	B1-C-T2	3 jars	clam tissue	X	X	X		five inorganic AS
9/23-9/24	700-800	B1-C-T3	5 jars/bags	clam tissue	X	X	X		analysis following homogenization
Total Number of Containers									

1) Released by: MW
 Print name: Maryann Wolsch
 Signature: _____
 Company: Windward Env.
 Date/Time: 9/24/04 1600

2) Released by: _____
 Print name: _____
 Signature: _____
 Company: _____
 Date/Time: _____

To be completed by Laboratory upon sample receipt:

Date of receipt:	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

* Distribution: White copies accompany shipment; yellow retained by consignee.

Windward
 environmental LLC
 200 West Mercer Street
 Suite 401
 Seattle, WA 98119
 Tel: (206) 378-1364
 Fax: (206) 217-9343

CHAIN-OF-CUSTODY/TEST REQUEST FORM

No 2142

Project/Client Name: LDW
 Project Number: 01-08-06-22
 Contact Name: Susie McBraddy
 Sampled By: SP, MW

Ship to: Columbia Analytical Services
 Attn: Gray Salata
 Shipper: 1317 S 13th Ave
 Form filled out by: Kotso, WA 98076
 Shipping Date: 7/29/04
 Airbill Number:
 Turnaround requested:

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)				Comments / Instructions (lar tag number(s))
					Tk00As	lipid	90.moss/m		
9/23-9/24/04	700-800	B1-C-74	5 jars/bags clam tissue		X	X			-subsample 4oz jar jar Inorganic AS following Homogenization
Total Number of Containers					Purchase Order / Statement of Work #				
5 jars									

1) Released by: Shannon Peru
 Print name: Shannon Peru
 Signature: Shannon Peru
 Company: Windward Env.
 Date/Time: 9/21/04 1600

2) Rec'd by:
 Print name:
 Signature:
 Company:
 Date/Time:

* Distribution: White copies accompany shipment; yellow retained by consignee.

200 West Mercer Street
 Suite 401
 Seattle, WA 98119
 Tel: (206) 378-1364
 Fax: (206) 217-9343

Windward
 environmental LLC

To be completed by Laboratory upon sample receipt:

Date of receipt:	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

CHAIN-OF-CUSTODY/TEST REQUEST FORM

No. 2141 ✓

Project/Client Name: LDW

Ship to: Columbia Analytical Services, 1317 S 13th Ave, Kelso, WA 98626

Project Number: 04-06-22

Attn: Greg Salata 300.577.7772 Shipping Date: 9/24/04

Contact Name: Susie McGraddy

Shipper: Airbill Number:

Sampled By: MW, SP

Form filled out by: SUM Turnaround requested:

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)			Comments / Instructions (Jar tag number(s))
					Total AS	lipid	% moisture	
9/23-9/24/04	700-800	B1-C-75	6 jars	clam tissue	X	+		
9/23/04	700	B1-C-76	5 jars/bags	↓	X	X		- subsample 4oz jar dcs inorganic AS analysis following homogenization
Total Number of Containers					11 jars	Purchase Order / Statement of Work #		

1) Released by: MW
 Print name: Manjann Welsch
 Signature: Manjann Welsch
 Company: Windward Env.
 Date/Time: 9/24/04 16:00

2) Released by: _____
 Print name: _____
 Signature: _____
 Company: _____
 Date/Time: _____

* Distribution: White copies accompany shipment; yellow retained by consignar.

200 West Mercer Street
 Suite 401
 Seattle, WA 98119
 Tel: (206) 378-1364
 Fax: (206) 217-9343

Windward environmental LLC

To be completed by Laboratory upon sample receipt:

Date of receipt: _____ Laboratory W.O. # _____
 Condition upon receipt: _____ Time of receipt: _____
 Cooler temperature: _____ Received by: _____

CHAIN-OF-CUSTODY/TEST REQUEST FORM

No 2137 ✓

1 of 2

Project/Client Name: LDW
 Project Number: 04-00-06-22
 Contact Name: Susie McGroddy
 Sampled By: MW, SP
 Ship to: Columbia Analytical Services
 Attn: Arac Salata
 Shipping Date: 7/24/07
 Shipper: 1317 S 13th Ave
 Airbill Number:
 Form filled out by: Kolso, WA 98262
 Turnaround requested:

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)				Comments / Instructions (Jar tag number(s))
					1	2	3	4	
800	9/23/07	SP-C-51	1 jar	sediment	X				1 jar
800		SP-C-52			X				
800		SP-C-53			X				
800		SP-C-54			X				
700		SP-C-55			X				
700		SP-C-56			X				
700	9/23/07	BI-C-51			X				
800	9/24/07	BI-C-52			X				
800	9/24/07	BI-C-53			X				
800	9/24/07	BI-C-54			X				
800	9/24/07	BI-C-55			X				
700	9/23/07	BI-C-56			X				
Total Number of Containers									17 jars

1) Released by: Shannon Morse
 Print name: Shannon Morse
 Signature: [Signature]
 Company: Windward Env.
 Date/Time: 9/21/07 1600

2) Rec'd by:
 Print name:
 Signature:
 Company:
 Date/Time:

Purchase Order / Statement of Work #

2) Released by:
 Print name:
 Signature:
 Company:
 Date/Time:

2) Rec'd by:
 Print name:
 Signature:
 Company:
 Date/Time:

To be completed by Laboratory upon sample receipt:

Date of receipt:	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

200 West Mercer Street
 Suite 401
 Seattle, WA 98119
 Tel: (206) 378-1364
 Fax: (206) 217-9343

Windward
 environmental LLC

* Distribution: White copies accompany shipment; yellow retained by consignee.

CHAIN-OF-CUSTODY/TEST REQUEST FORM

No 2136

Project/Client Name: _____
 Project Number: 04-08-06-22
 Contact Name: _____
 Sampled By: WANDA BC, TD, ST, LM, DMP

Ship to: Columbia

Attn: Greg Salazar Shipping Date: 9/24/04

Shipper: Indy Airbill Number: _____

Form filled out by: SP Turnaround requested: _____

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)			Comments / Instructions [Jar tag number(s)]
					AS (602)	Lipid	Mastix	
I. 9/23/04	800	SP-C-T1	1 jar	clam tissue	✓	✓		ANALYSE 402
II. 9/23/04	700	SP-C-T2	2 jars		✓	✓		JAR FOR
II. 9/23/04	800	SP-C-T3	2 jars		✓	✓		INORGANIC AS
II. 9/23/04	800	SP-C-T4	2 jars		✓	✓		ANALYSIS FOLLOWING
II. 9/23/04	800	SP-C-T5	2 jars		✓	✓		INDOGENIZATION
I. 9/23/04	800	SP-C-T6	1 jar		✓	✓		
Total Number of Containers					Purchase Order / Statement of Work #			

1) Released by: _____ Print name: <u>Shannon Pierce</u> Signature: <u>Shannon Pierce</u> Company: <u>Windward Env.</u> Date/Time: <u>9/24/04 1800</u>	2) Rec'd by: _____ Print name: _____ Signature: _____ Company: _____ Date/Time: _____
---	---

* Distribution: White copies accompany shipment; yellow retained by consignor.

200 West Mercer Street
 Suite 401
 Seattle, WA 98119
 Tel: (206) 378-1364
 Fax: (206) 217-9343



To be completed by Laboratory upon sample receipt:

Date of receipt: _____	Laboratory W.O. #: _____
Condition upon receipt: _____	Time of receipt: _____
Cooler temperature: _____	Received by: _____