

# APPENDIX E. ARI AND BROOKS RAND TISSUE PREPARATION NOTES

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ARI Job No.: LT29

Client ID: Winward ENV LLC

Parameter: PCB / % Lipids

Client Project: LSWF Fish/Crab 2007

SOP Number(s): 3435

No Anomalies:

10/20/07 List problems, concerns, corrective actions and any other pertinent information

Equipment Prep - ALL spatulas, knives, picks, crab crackers  
ALL stainless steel Rinsed with ACETONE and methylene  
chloride between EVERY 5th PKg. of CRABS. Wood board  
covered with two layers of inside out foil.  
Blender (WARING) stainless steel and glass, washed in  
Alconox, Acid bath and DI H<sub>2</sub>O between blendings of  
five CRAB composites. also Rinsed thoroughly with  
Acetone and methylene chloride. ALL utensils washed  
after ea composite Alconox bath, Acid bath and DI water

Prep time - 10/20/07 = (3) lab techs 8 hrs, 10/21/07 (2) lab techs 9 hrs

Sample "N" extract clear at Vialing, "Nms" Yellow color, "Nmsd" very light Yellow - ww 11/16/07

J.H.  
10/20/07  
3  
Times  
10/21/07

Analyst Initials: J.H.

Date: 10/20/07 J.H.



ARI Job No.: \_\_\_\_\_

Client ID: \_\_\_\_\_

Parameter: \_\_\_\_\_

Client Project: \_\_\_\_\_

SOP Number(s):

No Anomalies:

List problems, concerns, corrective actions and any other pertinent information

LDW-07-T3-AC-TR082-ES-34 whole-97.14 fillet-26.56 tare-6.88\*

LDW-07-T3-AC-TR082-ES-31 whole-148.14 fillet-51.98 tare-12.16\*

LDW-07-T3-AC-TR086-ES-40 whole-103.90 fillet-34.58 tare-14.76\*

LDW-07-T3-A-TR042-ES-19 whole-107.46 fillet-25.74 tare-11.26\*

LDW-07-T3-BD-TR084-ES-38 whole-251.40 fillet-89.76 tare-13.94\*

\* tare weight already taken off of calculations for whole & fillet weights! <sup>its</sup> just for reference!!

LDW-07-T2-AC-TR096-SC11 whole-136.00 panc-18.58 meat-22.7

LDW-07-T2-AC-TR096-SC15 whole-119.26 panc-15.26 meat-18.24

LDW-07-T2-C-TR005-SC-07 whole-161.06 panc-21.12 meat-37.36

LDW-07-T2-F-TR008-SC-09 whole-131.56 panc-21.56 meat-26.86

LDW-07-T2-B-TR003-SC-04 whole-221.76 panc-35.82 meat-42.58

JH 11/24/07

Analyst Initials:

Date:

COMPOSITE SAMPLE FORM

Project Name: LDW RI - Fish and crab chemistry

Project #: 04-08-06-22

Date Composited: 10/10/2007

Composited By: ML *J.H. / 10/16/07*

Meat  
Weight  
87.76  
36.70  
23.32  
PANCREAS

Whole  
Weight

COMPOSITE SAMPLE ID #	SPECIMEN ID #	COLLECTION DATE	COLLECTION TIME	WEIGHT (g ww)
meat LDW-07-T1-M-DC-EM-comp1	LDW-07-T1-B-TR062-DC-02	9/7/2007	14:01	307.1
	LDW-07-T1-D-TR058-DC-01	9/7/2007	12:47	164.8
	LDW-07-T1-E-TR066-DC-03	9/7/2007	15:15	165.6
	LDW-07-T1-F-TR076-DC-04	9/10/2007	11:04	107
PANCREAS LDW-07-T1-M-DC-HP-comp1	LDW-07-T1-B-TR062-DC-02	9/7/2007	14:01	307.1
	LDW-07-T1-D-TR058-DC-01	9/7/2007	12:47	164.8
	LDW-07-T1-E-TR066-DC-03	9/7/2007	15:15	165.6
	LDW-07-T1-F-TR076-DC-04	9/10/2007	11:04	107

299.38  
162.04  
163.96  
104.84  
399.38  
162.04  
163.96  
104.84

*LDW-07-T1-B-TR062-DC-02  
HAD VERY hollow body, NOT much meat.  
leg meat WAS SHRUNK AND SPARSE. J.H. 10/20/07*

*LDW-07-T1-M-DC-EM-comp1 = 179.28g  
LDW-07-T1-M-DC-HP-comp1 = 125.54g*

*JH 10/20/07*

Comments:

COMPOSITE SAMPLE FORM

Project Name: LDW RI - Fish and crab chemistry

Project #: 04-08-06-22

Date Compositod: 10/10/2007

Compositod By: ML J.H.

NET WT	COMPOSITE SAMPLE ID #	SPECIMEN ID #	COLLECTION DATE	COLLECTION TIME	WEIGHT (g ww)	Body WT.
28.46g	MEAT LDW-07-T3-M-DC-EM-comp1	LDW-07-T3-B-TR032-DC-10 ✓	9/5/2007	16:26	302	301.24g
26.66g		LDW-07-T3-C-TR033-DC-11 ✓	9/6/2007	09:15	183	182.74g
55.86g		LDW-07-T3-C-TR033-DC-13 ✓	9/6/2007	09:15	192	191.10g
49.48g		LDW-07-T3-B-TR020-DC-03 ✓	9/5/2007	11:07	243	240.72g
64.94g		LDW-07-T3-C-TR033-DC-14 ✓	9/6/2007	09:15	292	289.30g
55.86g	PANCREAS LDW-07-T3-M-DC-HP-comp1	LDW-07-T3-B-TR032-DC-10	9/5/2007	16:26	302	301.24g
31.28g		LDW-07-T3-C-TR033-DC-11	9/6/2007	09:15	183	182.44g
13.80g		LDW-07-T3-C-TR033-DC-13	9/6/2007	09:15	192	191.10g
31.28g		LDW-07-T3-B-TR020-DC-03	9/5/2007	11:07	243	240.72g
30.72g		LDW-07-T3-C-TR033-DC-14	9/6/2007	09:15	292	289.30g
52.32g						

LDW-07-T3-C-TR033-DC-14 Pancreas had more liquid than pancreas especially behind gills. J.H.

LDW-07-T3-C-TR033-DC-14 had some hollow legs, 10/21/07 only meat SKIN. SPARSE meat on body also.

LDW-07-T3-C-TR033-DC-13 some empty body cavities again, some legs no meat skin only.

LDW-07-T3-M-DC-EM-comp1 = 265.40g

LDW-07-T3-M-DC-HP-comp1 = 159.40g 10/21/07

Comments:

COMPOSITE SAMPLE FORM

Project Name: LDW RI - Fish and crab chemistry

Project #: 04-08-06-22

Date Compositing: 10/10/2007

Compositing By: ML *R.H.*

net wt.	COMPOSITE SAMPLE ID #	SPECIMEN ID #	COLLECTION DATE	COLLECTION TIME	WEIGHT (g ww)	Body wt.
42.38 g meat	LDW-07-T3-M-DC-EM-comp2	LDW-07-T3-A-TR031-DC-09	9/5/2007	16:13	179	176.80 g
42.94 g		LDW-07-T3-D-TR034-DC-16	9/6/2007	09:33	187	184.14 g
26.98 g		LDW-07-T3-A-TR031-DC-06	9/5/2007	16:13	225	225.02 g
<del>30.98 g</del>		LDW-07-T3-A-TR031-DC-07	9/5/2007	16:13	184	<del>183.40 g</del>
17.82 g		LDW-07-T3-D-TR034-DC-15	9/6/2007	09:33	289	287.46 g
29.52 g pancreas		LDW-07-T3-A-TR031-DC-09	9/5/2007	16:13	179	176.80 g
24.68 g	LDW-07-T3-M-DC-HP-comp2	LDW-07-T3-D-TR034-DC-16	9/6/2007	09:33	187	184.14 g
24.20 g <i>11.10%</i>		LDW-07-T3-A-TR031-DC-06	9/5/2007	16:13	225	225.02 g
16.96 g		LDW-07-T3-A-TR031-DC-07	9/5/2007	16:13	184	183.40 g
46.86 g		LDW-07-T3-D-TR034-DC-15	9/6/2007	09:33	289	287.46 g

LDW-07-T3-A-TR031-DC-09 some legs hollow of meat. Body meat sparse, some cavities hollow, no crab. *R.H. 10/21/07*

LDW-07-T3-A-TR031-DC-06 very limited crab meat. ALOT OF EMPTY legs - SKIN ONLY.

LDW-07-T3-TR034-DC-15 some legs and body cavities with sparse meat.

LDW-07-T3-M-DC-EM-comp 2 = 211.10 g

LDW-07-T3-M-DC-HP-comp 2 = 142.22 g

*10/21/07*

Comments:

COMPOSITE SAMPLE FORM

Project Name: LDW RI - Fish and crab chemistry

Project #: 04-08-06-22

Date Compositod: 10/10/2007

Compositod By: ML *JH.*

*net wt*  
72.60g  
39.26g  
58.28g  
73.74g  
31.92g  
38.54g  
24.84g  
52.38g  
46.76g  
27.44g

*Body wt*  
276.20g  
248.44g  
276.74g  
285.28g  
167.64g  
276.20g  
248.44g  
276.74g  
285.28g  
167.64g

COMPOSITE SAMPLE ID #	SPECIMEN ID #	COLLECTION DATE	COLLECTION TIME	WEIGHT (g ww)
LDW-07-T3-M-DC-EM-comp3	LDW-07-T3-A-TR018-DC-02 ✓	9/5/2007	10:40	278
	LDW-07-T3-C-TR033-DC-12 ✓	9/6/2007	09:15	209
	LDW-07-T3-A-TR031-DC-08 ✓	9/5/2007	16:13	281
	LDW-07-T3-A-TR018-DC-01 ✓	9/5/2007	10:40	288
	LDW-07-T3-F-TR028-DC-04 ✓	9/5/2007	15:09	168
LDW-07-T3-M-DC-HP-comp3	LDW-07-T3-A-TR018-DC-02	9/5/2007	10:40	278
	LDW-07-T3-C-TR033-DC-12	9/6/2007	09:15	209
	LDW-07-T3-A-TR031-DC-08	9/5/2007	16:13	281
	LDW-07-T3-A-TR018-DC-01	9/5/2007	10:40	288
	LDW-07-T3-F-TR028-DC-04	9/5/2007	15:09	168

*LDW-07-T3-A-TR018-DC-02*  
 SHELL WAS LIKE THREE LAYERS OF RUBBER. MEAT SHRUNK AND SPARSE. SOME LEGS HOLLOW. SKIN ONLY. *JH. 10/21/07*  
*LDW-07-T3-F-TR028-DC-04* NO MEAT IN SOME LEGS, RUBBERY BODY AND MEAT SHRUNK. SPARSE QUANTITY OF MEAT.  
*LDW-07-T3-A-TR018-DC-01* VERY LITTLE LEG AND BODY MEAT, SOME HOLLOW.  
*LDW-07-T3-A-TR031-DC-08* PANCREAS COMP. HAS RED EGGS OR SOMETHING RED IN COLOR. PUT IN COMP. JAR *10/21/07*  
 Comments: could not separate.  
*JH. 10/21/07*

LDW-07-T3-M-DC-EM-comp 3 = 275.84g  
 LDW-07-T3-M-DC-HP-comp 3 = 189.96g

COMPOSITE SAMPLE FORM

Project Name: LDW RI - Fish and crab chemistry

Project #: 04-08-06-22

Date Compositod: 10/10/2007

Compositod By: ML *J.H. / ML*

net wt.  
38.94  
38.52  
29.52  
41.32  
32.48  
14.74  
19.78  
23.28  
19.92  
28.12

Whole Body  
159.50g  
131.46g  
181.5g  
166.72g  
165.82g  
159.50g  
131.46g  
181.50g  
166.72g  
165.82g

COMPOSITE SAMPLE ID #	SPECIMEN ID #	COLLECTION DATE	COLLECTION TIME	WEIGHT (g ww)
meat LDW-07-T1-M-SC-EM-comp1	LDW-07-T1-A-TR013-SC-01	9/4/2007	16:25	160.7
	LDW-07-T1-E-TR038-SC-06	9/6/2007	11:15	133
	LDW-07-T1-E-TR038-SC-07	9/6/2007	11:15	182
	LDW-07-T1-E-TR038-SC-11	9/6/2007	11:15	170.2
	LDW-07-T1-F-TR040-SC-13	9/6/2007	12:45	168.3
PANCREAS LDW-07-T1-M-SC-HP-comp1	LDW-07-T1-A-TR013-SC-01	9/4/2007	16:25	160.7
	LDW-07-T1-E-TR038-SC-06	9/6/2007	11:15	133
	LDW-07-T1-E-TR038-SC-07	9/6/2007	11:15	182
	LDW-07-T1-E-TR038-SC-11	9/6/2007	11:15	170.2
	LDW-07-T1-F-TR040-SC-13	9/6/2007	12:45	168.3

SC-06 } ALL limited meat due to shrinkage.  
SC-11 } SPARSE ON leg & body meat. FA 10/20/07  
SC-01 }

LDW-07-T1-M-SC-EM-comp1 = 172.82g  
LDW-07-T1-M-SC-HP-comp1 = 145.84g  
*10/20/07*

Comments:



**COMPOSITE SAMPLE FORM**

Project Name: LDW RI - Fish and crab chemistry

Project #: 04-08-06-22

Date Composited: 10/10/2007

Composited By: ML

*J.H. [signature] / 68*

*net*  
*27.*  
*25.07*  
*49.98*  
*35.62*  
*38.94*  
*42.42*  
*12.64*  
*13.5*  
*14.10*  
*19.72*  
*17.88*  
*20.3*  
*17.60*

*Whole Body*  
*155.12*  
*179.60*  
*144.60*  
*161.10*  
*184.46*  
*135.12*  
*179.60*  
*144.60*  
*161.10*  
*184.46*

COMPOSITE SAMPLE ID #	SPECIMEN ID #	COLLECTION DATE	COLLECTION TIME	WEIGHT (g ww)
LDW-07-T1-M-SC-EM-comp2	LDW-07-T1-E-TR038-SC-03	9/6/2007	11:15	135.4
	LDW-07-T1-E-TR038-SC-04	9/6/2007	11:15	180.5
	LDW-07-T1-E-TR038-SC-05	9/6/2007	11:15	145.1
	LDW-07-T1-E-TR038-SC-09	9/6/2007	11:15	162.4
	LDW-07-T1-F-TR039-SC-12	9/6/2007	11:40	185.8
LDW-07-T1-M-SC-HP-comp2	LDW-07-T1-E-TR038-SC-03	9/6/2007	11:15	135.4
	LDW-07-T1-E-TR038-SC-04	9/6/2007	11:15	180.5
	LDW-07-T1-E-TR038-SC-05	9/6/2007	11:15	145.1
	LDW-07-T1-E-TR038-SC-09	9/6/2007	11:15	162.4
	LDW-07-T1-F-TR039-SC-12	9/6/2007	11:40	185.8

*LDW-07-T1-M-SC-EM- Comp 2 = 192.66 g*

*LDW-07-T1-M-SC-HP- Comp 2 = 82.94 g*

*10/20/07*

Comments:

COMPOSITE SAMPLE FORM

Project Name: LDW RI - Fish and crab chemistry

Project #: 04-08-06-22

Date Compositod: 10/10/2007

Composited By: ML J.H.

ret wt.

Whole Body wt.

38.94 g  
45.44 g  
21.76 g  
23.88 g  
38.66 g  
22.18 g  
28.20 g  
18.18 g  
23.80 g  
13.84 g

178.34 g  
181.10 g  
143.58 g  
135.42 g  
165.66 g  
178.34 g  
181.10 g  
143.58 g  
135.42 g  
165.66 g

COMPOSITE SAMPLE ID #	SPECIMEN ID #	COLLECTION DATE	COLLECTION TIME	WEIGHT (g ww)
LDW-07-T1-M-SC-EM-comp3	LDW-07-T1-A-TR014-SC-02	9/4/2007	16:41	179.7
	LDW-07-T1-C-TR072-SC-15	9/10/2007	09:47	182.7
	LDW-07-T1-E-TR038-SC-08	9/6/2007	11:15	144.4
	LDW-07-T1-E-TR038-SC-10	9/6/2007	11:15	137.3
	LDW-07-T1-F-TR040-SC-14	9/6/2007	12:45	166.9
LDW-07-T1-M-SC-HP-comp3	LDW-07-T1-A-TR014-SC-02	9/4/2007	16:41	179.7
	LDW-07-T1-C-TR072-SC-15	9/10/2007	09:47	182.7
	LDW-07-T1-E-TR038-SC-08	9/6/2007	11:15	144.4
	LDW-07-T1-E-TR038-SC-10	9/6/2007	11:15	137.3
	LDW-07-T1-F-TR040-SC-14	9/6/2007	12:45	166.9

LDW-07-T1-M-SC-EM-Comp 3 = 166.64 g  
LDW-07-T1-M-SC-HP-Comp 3 = 143.46 g

SA 10/20/07

Comments:

COMPOSITE SAMPLE FORM

Project Name: LDW RI - Fish and crab chemistry

Project #: 04-08-06-22

Date Composited: 10/10/2007

Composited By: ML *GA, J.H.*

Net Weight	COMPOSITE SAMPLE ID #	SPECIMEN ID #	COLLECTION DATE	COLLECTION TIME	WEIGHT (g ww)	Whole Weight
<i>2.64</i>	<i>10/20/07</i> <i>22.34</i> <i>meat</i>	LDW-07-T2-AC-TR096-SC-12	9/11/2007	12:57	124	<i>123.20</i>
<i>8.32</i>	<i>46.36</i>	LDW-07-T2-AC-TR096-SC-14	9/11/2007	12:57	184	<i>184.76</i>
<i>40.94</i>	LDW-07-T2-M-SC-EM-comp1	LDW-07-T2-B-TR002-SC-02	9/4/2007	11:18	178	<i>180.20</i>
<i>35.70</i>		LDW-07-T2-B-TR002-SC-03	9/4/2007	11:18	136	<i>138.21</i>
<i>30.68</i>		LDW-07-T2-B-TR003-SC-05	9/4/2007	11:50	130	<i>132.2</i>
<i>1.64</i>	PANCREAS	LDW-07-T2-AC-TR096-SC-12	9/11/2007	12:57	124	<i>123.20</i>
<i>8.32</i>		LDW-07-T2-AC-TR096-SC-14	9/11/2007	12:57	184	<i>184.76</i>
<i>6.44</i>	LDW-07-T2-M-SC-HP-comp1	LDW-07-T2-B-TR002-SC-02	9/4/2007	11:18	178	<i>180.20</i>
<i>3.94</i>		LDW-07-T2-B-TR002-SC-03	9/4/2007	11:18	136	<i>138.26</i>
<i>3.38</i>		LDW-07-T2-B-TR003-SC-05	9/4/2007	11:50	130	<i>132.2</i>

*LDW-07-T2-M-SC-EM-Comp 1 = 172.02 g*

*LDW-07-T2-M-SC-HP-Comp 1 = 59.72 g*

*JH 10/20/07*

Comments:



**COMPOSITE SAMPLE FORM**

Project Name: LDW RI – Fish and crab chemistry

Project #: 04-08-06-22

Date Composited: 10/10/2007

Composited By: ML

COMPOSITE SAMPLE ID #	SPECIMEN ID #	COLLECTION DATE	COLLECTION TIME	WEIGHT (g ww)	whole weight
22.7g	LDW-07-T2-AC-TR096-SC-11	9/11/2007	12:57	136	136g
18.34g	LDW-07-T2-AC-TR096-SC-15	9/11/2007	12:57	119	119.26g
LDW-07-T2-M-SC-EM-comp2 37.36g	LDW-07-T2-C-TR005-SC-07	9/4/2007	13:04	151	161.46g
26.86g	LDW-07-T2-F-TR008-SC-09	9/4/2007	14:16	137	131.36g
42.58g	LDW-07-T2-B-TR003-SC-04	9/4/2007	11:50	222	231.76g
18.58g	LDW-07-T2-AC-TR096-SC-11	9/11/2007	12:57	136	
15.26g	LDW-07-T2-AC-TR096-SC-15	9/11/2007	12:57	119	
LDW-07-T2-M-SC-HP-comp2 21.12g	LDW-07-T2-C-TR005-SC-07	9/4/2007	13:04	151	
21.56g	LDW-07-T2-F-TR008-SC-09	9/4/2007	14:16	137	
35.82g	LDW-07-T2-B-TR003-SC-04	9/4/2007	11:50	222	

LDW-07-M-SC-EM-comp 2 = 147.74g

LDW-07-T2-M-SC-HP comp 2 = 112.34g

Comments:



COMPOSITE SAMPLE FORM

Project Name: LDW RI - Fish and crab chemistry Project #: 04-08-06-22  
 Date Compositod: 10/10/2007 Compositod By: ML J.H./GP

*wt.*

*whole Body*

51.08  
34.20  
29.20  
25.92  
30.84  
14.12  
~~14.12~~  
16.25  
10.28  
12.08  
16.04

COMPOSITE SAMPLE ID #	SPECIMEN ID #	COLLECTION DATE	COLLECTION TIME	WEIGHT (g ww)
<i>meat</i> LDW-07-T2-M-SC-EM-comp3	LDW-07-T2-AC-TR096-SC-13	9/11/2007	12:57	193
	LDW-07-T2-B-TR002-SC-01	9/4/2007	11:18	138
	LDW-07-T2-C-TR005-SC-06	9/4/2007	13:04	132
	LDW-07-T2-C-TR012-SC-10	9/4/2007	15:52	115
	LDW-07-T2-F-TR008-SC-08	9/4/2007	14:16	169
<i>PANCREAS</i> LDW-07-T2-M-SC-HP-comp3	LDW-07-T2-AC-TR096-SC-13	9/11/2007	12:57	193
	LDW-07-T2-B-TR002-SC-01	9/4/2007	11:18	138
	LDW-07-T2-C-TR005-SC-06	9/4/2007	13:04	132
	LDW-07-T2-C-TR012-SC-10	9/4/2007	15:52	115
	LDW-07-T2-F-TR008-SC-08	9/4/2007	14:16	169

191.80  
~~137.62~~  
~~134.88~~  
~~142.07~~  
131.78  
114.38  
167.26  
191.80  
137.62  
131.78  
114.38  
167.28

LDW-07-T2-M-SC-EM-Comp 3 = 171.24 g  
 LDW-07-T2-M-SC-HP-Comp 3 = 68.77 g

*ML 10/20/07*

Comments:



ARI Job No.: LT3φ

Client ID: Windward Environmental, LLC

Parameter: PCB / Lipids

Client Project: LDWE Fish/Crab 2007

SOP Number(s): 303 S

No Anomalies:

11/3/07 List problems, concerns, corrective actions and any other pertinent information

Equipment Prep - ALL spatulas, knives, picks, ALL RAZOR blades rinsed with acetone and methylene chloride between EVERY comp. of five fish. TRAYS and boards covered with two layers of inside out foil. All utensils washed thoroughly with Dalcinox bath, ACID rinsed bath AND DI H<sub>2</sub>O Rinse Three Times AFTER EA. composite. TRAYS scales cleaned between ea. comp. J.H. 11/3/07 fish fillets TAKE longer prep TIME due to chopping and cutting with tiny sharp scissors and RAZOR blades to 1 cm tedious cutting. Tried Blending five TIMES, not enough difference because of lack of liquids. Not worth the effort, CAN stir fillets with spatula almost same outcome. J.H. 11/3/07 ALL fish homogenized well with stainless steel spatula.

Analyst Initials:

J.H.

Date:

11/03/07

LT34 A



COMPOSITE SAMPLE FORM

Project Name: LDW RI - Fish and crab chemistry

Project #: 04-08-06-22

Date Compositied: 10/10/2007

Compositied By: ML

J.H. and HQ

Net  
Pallet  
weight

whole weight

53.46g  
47.48g  
38.00g  
42.50g  
28.80g  
260.24

COMPOSITE SAMPLE ID #	SPECIMEN ID #	COLLECTION DATE	COLLECTION TIME	WEIGHT (g ww)
LDW-07-T1-M-ES-FL-comp1	LDW-07-T1-A-TR014-ES-12	9/4/2007	16:41	184.3
	LDW-07-T1-E-TR037-ES-22	9/6/2007	10:55	137.7
	LDW-07-T1-E-TR038-ES-27	9/6/2007	11:15	243.9
	LDW-07-T1-E-TR038-ES-34	9/6/2007	11:15	98.4
	LDW-07-T1-F-TR039-ES-37	9/6/2007	11:40	73.9

183.34g  
135.88g  
240.64g  
95.36g  
72.74g

J.H. HQ

11/3/07

Comments:

COMPOSITE SAMPLE FORM

Project Name: LDW RI - Fish and crab chemistry

Project #: 04-08-06-22

Date Composited: 10/10/2007

Composited By: ML *J.H. HQ*

*net  
rillet  
weight*

*whole  
weight*

*12.62*

*62.34g*

*16.14g*

*33.38g*

*49.12g*

*203.6*

COMPOSITE SAMPLE ID #	SPECIMEN ID #	COLLECTION DATE	COLLECTION TIME	WEIGHT (g ww)
LDW-07-T1-M-ES-FL-comp2	LDW-07-T1-A-TR013-ES-01	9/4/2007	16:25	70.7
	LDW-07-T1-A-TR014-ES-21	9/4/2007	16:41	197.6
	LDW-07-T1-E-TR037-ES-23	9/6/2007	10:55	137.7
	LDW-07-T1-E-TR038-ES-28	9/6/2007	11:15	98.4
	LDW-07-T1-F-TR040-ES-38	9/6/2007	12:45	155

*69.22g*

*195.38g*

*135.08g*

*96.68g*

*151.92g*

*J.H. HQ 11/3/07*

Comments:



LT30C

COMPOSITE SAMPLE FORM

Project Name: LDW RI - Fish and crab chemistry

Project #: 04-08-06-22

Date Compositod: 10/10/2007

Compositod By: ML

HQ 11/3/07

filet weight

whole weight

28.98g

75.58g

56.26g

55.10g

21.32g

237.24 \*

COMPOSITE SAMPLE ID #	SPECIMEN ID #	COLLECTION DATE	COLLECTION TIME	WEIGHT (g ww)
LDW-07-T1-M-ES-FL-comp3	LDW-07-T1-A-TR014-ES-07	9/4/2007	16:41	87.6
	LDW-07-T1-A-TR014-ES-14	9/4/2007	16:41	231
	LDW-07-T1-A-TR014-ES-20	9/4/2007	16:41	136.5
	LDW-07-T1-B-TR050-ES-44	9/7/2007	08:56	164.1
	LDW-07-T1-E-TR037-ES-24	9/6/2007	10:55	77.3

85.82g

228.16g

161.70g

161.48g

75.90g

LDW-07-T1-A-TR014-ES-20: my weight for whole body was 161.70g. windward whole body weight was 136.5g.  
 HQ 11/3/07

HQ 11/3/07

Comments:

COMPOSITE SAMPLE FORM

Project Name: LDW RI - Fish and crab chemistry

Project #: 04-08-06-22

Date Compositod: 10/10/2007

Compositod By: ML

HQ 11/3/07 JH.

net  
fillet  
weight  
37.16g  
38  
17.66g  
33.28g  
42.16g  
21.90g  
201.88

whole  
weight  
100.30g  
155.50g  
89.60g  
390.06g  
71.76g

COMPOSITE SAMPLE ID #	SPECIMEN ID #	COLLECTION DATE	COLLECTION TIME	WEIGHT (g ww)
LDW-07-T2-A-ES-FL-comp1	LDW-07-T2-A-TR001-ES-07	9/4/2007	10:45	103
	LDW-07-T2-A-TR001-ES-09	9/4/2007	10:45	159.1
	LDW-07-T2-A-TR001-ES-12	9/4/2007	10:45	91.8
	LDW-07-T2-A-TR001-ES-31	9/4/2007	10:45	402
	LDW-07-T2-A-TR001-ES-41	9/4/2007	10:45	73.7

ALL fish fillets cut up, and diced with <sup>1cm.</sup> small sharp scissors. Better results than blender. (STAINLESS SURGICAL) JH. 11/3/07

Jim,  
We did ALL  
but "H" took  
longer cutting up  
I "Big fish" full  
jar. will do Mon.  
First

11/3/07

Comments:

COMPOSITE SAMPLE FORM

Project Name: LDW RI - Fish and crab chemistry

Project #: 04-08-06-22

Date Compositied: 10/10/2007

Compositied By: ML HQ 11/3/07 J.H.

Fillet weight  
25.42g  
18.60g  
17.60g  
29.92g  
33.30g  
18484

whole weight  
69.20g  
158.60g  
121.42g  
84.48g  
93.54g

COMPOSITE SAMPLE ID #	SPECIMEN ID #	COLLECTION DATE	COLLECTION TIME	WEIGHT (g ww)
LDW-07-T2-A-ES-FL-comp2	LDW-07-T2-A-TR001-ES-13	9/4/2007	10:45	70.9
	LDW-07-T2-A-TR001-ES-18	9/4/2007	10:45	161.1
	LDW-07-T2-A-TR001-ES-21	9/4/2007	10:45	123.3
	LDW-07-T2-A-TR001-ES-34	9/4/2007	10:45	86.4
	LDW-07-T2-A-TR001-ES-44	9/4/2007	10:45	95.4

ALL fish filleted and cut up into 1cm. with small sharp scissors (stainless surgical) J.H. 11/3/07

J.H. of HQ 11/3/07

Comments:

COMPOSITE SAMPLE FORM

Project Name: LDW RI - Fish and crab chemistry

Project #: 04-08-06-22

Date Composited: 10/10/2007

Composited By: ML

J.H. HQ

11/3/07  
whole weight

Fillet weight  
26.76g  
24.66g  
7.20g  
8.84g  
35.48g

COMPOSITE SAMPLE ID #	SPECIMEN ID #	COLLECTION DATE	COLLECTION TIME	WEIGHT (g ww)
LDW-07-T2-A-ES-FL-comp3	LDW-07-T2-A-TR001-ES-06	9/4/2007	10:45	116.6
	LDW-07-T2-A-TR001-ES-24	9/4/2007	10:45	75.3
	LDW-07-T2-A-TR001-ES-28	9/4/2007	10:45	228.4
	LDW-07-T2-A-TR001-ES-39	9/4/2007	10:45	104.6
	LDW-07-T2-A-TR001-ES-42	9/4/2007	10:45	87.4

114.48g  
72.46g  
226.70g  
103.12g  
86.08g

202.94

These fish had a lot of blood worms or parasites. In with composite. g.H. 11/3/07  
ALL filleted and cut up to 1cm. with small sharp scissors. (stainless surgical.) g.H.

11/3/07  
J.H. HQ

Comments:

COMPOSITE SAMPLE FORM

Project Name: LDW RI - Fish and crab chemistry

Project #: 04-08-06-22

Date Compositied: 10/10/2007

Compositied By: ML

J.H. HQ 11/3/07

fillet weight  
33.14g  
52.20g  
38.62g  
41.14g  
67.10g  
36.22

whole weight  
80.48g  
145.76g  
106.96g  
180.40g  
496.54g

COMPOSITE SAMPLE ID #	SPECIMEN ID #	COLLECTION DATE	COLLECTION TIME	WEIGHT (g ww)
LDW-07-T3-M-ES-FL-comp3	LDW-07-T3-AC-TR082-ES-32	9/10/2007	13:33	90.2
	LDW-07-T3-A-TR018-ES-04	9/5/2007	10:40	147.9
	LDW-07-T3-A-TR018-ES-05	9/5/2007	10:40	109.2
	LDW-07-T3-A-TR041-ES-18	9/6/2007	13:10	495.4
	LDW-07-T3-E-TR045-ES-21	9/6/2007	14:32	498

ALL fish filleted and cut up with small scissors (stainless surgical) to 1 cm. J.H.  
Some blood worms or parasites in comp. 11/3/07

J.H. HQ 11/3/07

Comments:

COMPOSITE SAMPLE FORM

Project Name: LDW RI - Fish and crab chemistry

Project #: 04-08-06-22

Date Compositied: 10/10/2007

Compositied By: ML *J.H.*

NET  
Filet  
weight

200.90g  
95.20g  
33.48g  
54.16g  
28.18g

whole  
weight

497.16g  
~~244.22g~~  
~~241.60g~~  
103.22g  
132.42g  
92.38g

COMPOSITE SAMPLE ID #	SPECIMEN ID #	COLLECTION DATE	COLLECTION TIME	WEIGHT (g ww)
LDW-07-T3-M-ES-FL-comp2	LDW-07-T3-AC-TR048-ES-24	9/6/2007	15:27	499
	LDW-07-T3-AC-TR092-ES-42	9/11/2007	10:47	245.1
	LDW-07-T3-A-TR017-ES-01	9/5/2007	10:26	105.3
	LDW-07-T3-A-TR035-ES-17	9/6/2007	09:47	132.5
	LDW-07-T3-F-TR029-ES-09	9/5/2007	15:29	92.3

411.92

*LDW-07-T3-AC-TR048-ES-24 had blood worms and PARASITES also a reddish brown vein of meat in back filet. cut up ALL to composite. J.H. 11/8/07*

*LDW-07-T3-A-TR017-ES-01 had blood worms ALSO.*

*ALL Fish filets skins and filets cut up with knife and surgical steel scissors.*

*J.H. 11/8/07*

Comments:



ARI Job No.: LT31

Client ID: Windward Environmental

Parameter: PCB / % Lipids

Client Project: LDWG Fish/CRAB 2007

SOP Number(s): 3435

No Anomalies:

List problems, concerns, corrective actions and any other pertinent information

Prep of TISSUE = Used meat GRINDER TO THOROUGHLY GRIND WHOLE FISH  
AND COMPOSITE INTO INDIVIDUAL SAMPLES. CLEANED GRINDER BETWEEN  
COMPOSITES BY USING ORGANIC CLEANING DETERGENT - FOLLOWED BY ACIDIC  
DI WATER AND FOLLOWED BY DI WATER ONLY RINSE FOR EACH DISASSEMBLED  
PART. Acetone RINSED EACH PART AND RE-ASSEMBLED FOR NEXT COMPOSITE.  
Prep TIME = 13 hours 11/12/07 T.H.

Analyst Initials:

Date:



LT31 A

### COMPOSITE SAMPLE FORM

Project Name: LDW RI – Fish and crab chemistry

Project #: 04-08-06-22

Date Composited: 10/10/2007

Composited By: ML

COMPOSITE SAMPLE ID #	SPECIMEN ID #	COLLECTION DATE	COLLECTION TIME	WEIGHT (g ww)
LDW-07-T1-M-ES-WB-comp1	LDW-07-T1-A-TR014-ES-09	9/4/2007	16:41	71.7
	LDW-07-T1-A-TR014-ES-15	9/4/2007	16:41	157.6
	LDW-07-T1-A-TR014-ES-17	9/4/2007	16:41	107.5
	LDW-07-T1-E-TR038-ES-30	9/6/2007	11:15	386
	LDW-07-T1-E-TR038-ES-33	9/6/2007	11:15	143.5

70.22g  
 156.05g  
 106.05g  
 382.85g  
 140.98g

Composite weight = 854.15g

Comments:





LT31 B

### COMPOSITE SAMPLE FORM

Project Name: LDW RI – Fish and crab chemistry

Project #: 04-08-06-22

Date Composited: 10/10/2007

Composited By: ML

COMPOSITE SAMPLE ID #	SPECIMEN ID #	COLLECTION DATE	COLLECTION TIME	WEIGHT (g ww)
LDW-07-T1-M-ES-WB-comp2	LDW-07-T1-A-TR014-ES-11	9/4/2007	16:41	195.3
	LDW-07-T1-A-TR014-ES-16	9/4/2007	16:41	87.9
	LDW-07-T1-A-TR014-ES-18	9/4/2007	16:41	86.6
	LDW-07-T1-E-TR037-ES-25	9/6/2007	10:55	201.1
	LDW-07-T1-F-TR040-ES-41	9/6/2007	12:45	144.5

191.18g

86.64g

196.14g  
86.41g

196.94

140.89

Composite weight = 699.16g

Comments:

**Lower Duwamish Waterway Group**

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

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### COMPOSITE SAMPLE FORM

Project Name: LDW RI – Fish and crab chemistry

Project #: 04-08-06-22

Date Composited: 10/10/2007

Composited By: ML

COMPOSITE SAMPLE ID #	SPECIMEN ID #	COLLECTION DATE	COLLECTION TIME	WEIGHT (g ww)
LDW-07-T1-M-ES-WB-comp3	LDW-07-T1-A-TR013-ES-06	9/4/2007	16:25	170.4
	LDW-07-T1-A-TR014-ES-08	9/4/2007	16:41	94.3
	LDW-07-T1-A-TR014-ES-10	9/4/2007	16:41	301
	LDW-07-T1-B-TR050-ES-43	9/7/2007	08:56	136.9
	LDW-07-T1-E-TR038-ES-32	9/6/2007	11:15	81.4

164.80g  
 93.07g  
 296.02g  
 135.81g  
 78.49g

Composite weight = 761.19g

Comments:

## Lower Duwamish Waterway Group

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

Fish, Crab, and Clam Addendum  
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COMPOSITE SAMPLE FORM

Project Name: LDW RI – Fish and crab chemistry

Project #: 04-08-06-22

Date Composited: 10/10/2007

Composited By: ML

COMPOSITE SAMPLE ID #	SPECIMEN ID #	COLLECTION DATE	COLLECTION TIME	WEIGHT (g ww)
LDW-07-T1-M-ES-WB-comp4	LDW-07-T1-B-TR050-ES-45	9/7/2007	08:56	172.5
	LDW-07-T1-E-TR038-ES-29	9/6/2007	11:15	83
	LDW-07-T1-E-TR038-ES-31	9/6/2007	11:15	87
	LDW-07-T1-F-TR039-ES-36	9/6/2007	11:40	142.7
	LDW-07-T1-F-TR040-ES-40	9/6/2007	12:45	312

169.66g  
80.93g  
84.56g  
140.44g  
308.71g

Composite weight = 784.24g

Comments:

COMPOSITE SAMPLE FORM

Project Name: LDW RI – Fish and crab chemistry

Project #: 04-08-06-22

Date Compositied: 10/10/2007

Compositied By: ML

COMPOSITE SAMPLE ID #	SPECIMEN ID #	COLLECTION DATE	COLLECTION TIME	WEIGHT (g ww)
LDW-07-T1-M-ES-WB-comp5	LDW-07-T1-A-TR013-ES-03	9/4/2007	16:25	86.6
	LDW-07-T1-A-TR013-ES-05	9/4/2007	16:25	203.6
	LDW-07-T1-B-TR050-ES-46	9/7/2007	08:56	106.4
	LDW-07-T1-F-TR040-ES-39	9/6/2007	12:45	174.3
	LDW-07-T1-F-TR040-ES-42	9/6/2007	12:45	120.6

86.67g  
200.45g  
103.88g  
169.32g  
118.13g

Composite weight = 672.54g

Comments:

COMPOSITE SAMPLE FORM

Project Name: LDW RI – Fish and crab chemistry

Project #: 04-08-06-22

Date Composited: 10/10/2007

Composited By: ML

COMPOSITE SAMPLE ID #	SPECIMEN ID #	COLLECTION DATE	COLLECTION TIME	WEIGHT (g ww)
LDW-07-T1-M-ES-WB-comp6	LDW-07-T1-A-TR013-ES-02	9/4/2007	16:25	79.2
	LDW-07-T1-A-TR013-ES-04	9/4/2007	16:25	96.2
	LDW-07-T1-A-TR014-ES-13	9/4/2007	16:41	220.6
	LDW-07-T1-E-TR038-ES-26	9/6/2007	11:15	181.8
	LDW-07-T1-F-TR039-ES-35	9/6/2007	11:40	111.8

77.49g  
94.70g  
217.09g  
179.16g  
109.90g

Composite weight = 672.34g

Comments:



LT31 ←

### COMPOSITE SAMPLE FORM

Project Name: LDW RI – Fish and crab chemistry

Project #: 04-08-06-22

Date Composited: 10/10/2007

Composited By: ML

COMPOSITE SAMPLE ID #	SPECIMEN ID #	COLLECTION DATE	COLLECTION TIME	WEIGHT (g ww)
LDW-07-T2-A-ES-WB-comp1	LDW-07-T2-A-TR001-ES-19	9/4/2007	10:45	165.3
	LDW-07-T2-A-TR001-ES-25	9/4/2007	10:45	86.8
	LDW-07-T2-A-TR001-ES-38	9/4/2007	10:45	102
	LDW-07-T2-A-TR001-ES-40	9/4/2007	10:45	73.7
	LDW-07-T2-A-TR001-ES-45	9/4/2007	10:45	109.4

159.92g  
83.75g  
98.63g  
72.23g  
105.30g

Composite weight - 514.82g

Comments:



LT31 H

### COMPOSITE SAMPLE FORM

Project Name: LDW RI – Fish and crab chemistry

Project #: 04-08-06-22

Date Compositied: 10/10/2007

Compositied By: ML

COMPOSITE SAMPLE ID #	SPECIMEN ID #	COLLECTION DATE	COLLECTION TIME	WEIGHT (g ww)
LDW-07-T2-A-ES-WB-comp2	LDW-07-T2-A-TR001-ES-01	9/4/2007	10:45	131.6
	LDW-07-T2-A-TR001-ES-15	9/4/2007	10:45	95.2
	LDW-07-T2-A-TR001-ES-17	9/4/2007	10:45	60.5
	LDW-07-T2-A-TR001-ES-26	9/4/2007	10:45	598
	LDW-07-T2-A-TR001-ES-30	9/4/2007	10:45	87.8

128.85g  
 93.00g  
 57.93g  
 590.70g  
 84.73g

Composite weights = 954.61g

Comments:



LT31 F

### COMPOSITE SAMPLE FORM

Project Name: LDW RI – Fish and crab chemistry

Project #: 04-08-06-22

Date Composited: 10/10/2007

Composited By: ML

COMPOSITE SAMPLE ID #	SPECIMEN ID #	COLLECTION DATE	COLLECTION TIME	WEIGHT (g ww)
LDW-07-T2-A-ES-WB-comp3	LDW-07-T2-A-TR001-ES-08	9/4/2007	10:45	184.4
	LDW-07-T2-A-TR001-ES-11	9/4/2007	10:45	81.4
	LDW-07-T2-A-TR001-ES-20	9/4/2007	10:45	115.4
	LDW-07-T2-A-TR001-ES-22	9/4/2007	10:45	86.8
	LDW-07-T2-A-TR001-ES-37	9/4/2007	10:45	106.3

179.24g  
80.21g  
113.02g  
84.15g  
103.14g

Composite weight = 551.76g

Comments:



COMPOSITE SAMPLE FORM

Project Name: LDW RI – Fish and crab chemistry

Project #: 04-08-06-22

Date Compositied: 10/10/2007

Compositied By: ML

COMPOSITE SAMPLE ID #	SPECIMEN ID #	COLLECTION DATE	COLLECTION TIME	WEIGHT (g ww)
LDW-07-T2-A-ES-WB-comp4	LDW-07-T2-A-TR001-ES-03	9/4/2007	10:45	148
	LDW-07-T2-A-TR001-ES-05	9/4/2007	10:45	97.1
	LDW-07-T2-A-TR001-ES-10	9/4/2007	10:45	209
	LDW-07-T2-A-TR001-ES-16	9/4/2007	10:45	71.1
	LDW-07-T2-A-TR001-ES-32	9/4/2007	10:45	89.8

144.44g  
94.55g  
205.60g  
66.35g  
86.92g

Composite weight = 596.86g

Comments:



LT31 K

### COMPOSITE SAMPLE FORM

Project Name: LDW RI – Fish and crab chemistry

Project #: 04-08-06-22

Date Compositod: 10/10/2007

Compositod By: ML

COMPOSITE SAMPLE ID #	SPECIMEN ID #	COLLECTION DATE	COLLECTION TIME	WEIGHT (g ww)
LDW-07-T2-A-ES-WB-comp5	LDW-07-T2-A-TR001-ES-02	9/4/2007	10:45	129.2
	LDW-07-T2-A-TR001-ES-14	9/4/2007	10:45	74.5
	LDW-07-T2-A-TR001-ES-23	9/4/2007	10:45	87.4
	LDW-07-T2-A-TR001-ES-29	9/4/2007	10:45	198.4
	LDW-07-T2-A-TR001-ES-36	9/4/2007	10:45	96.1

125.63g

72.34g

85.03g

193.83g

93.44g

Composite weight = 567.24g

Comments:

COMPOSITE SAMPLE FORM

Project Name: LDW RI – Fish and crab chemistry

Project #: 04-08-06-22

Date Compositied: 10/10/2007

Compositied By: ML

COMPOSITE SAMPLE ID #	SPECIMEN ID #	COLLECTION DATE	COLLECTION TIME	WEIGHT (g ww)
LDW-07-T2-A-ES-WB-comp6	LDW-07-T2-A-TR001-ES-04	9/4/2007	10:45	79
	LDW-07-T2-A-TR001-ES-27	9/4/2007	10:45	217.7
	LDW-07-T2-A-TR001-ES-33	9/4/2007	10:45	87.6
	LDW-07-T2-A-TR001-ES-35	9/4/2007	10:45	108.1
	LDW-07-T2-A-TR001-ES-43	9/4/2007	10:45	121.4

77.57g  
212.07g  
84.10g  
104.80g  
116.10g

Composite weight = 589.75g

Comments:



ARI Job No.: LT32

Client ID: Windward Environmental, LLC

Parameter: PCB / % Lipids

Client Project: LDWG / Fish / crab 2007

SOP Number(s): 3635

No Anomalies:

List problems, concerns, corrective actions and any other pertinent information

Tissue grinder was washed w/ detergent, acidified D.I. H<sub>2</sub>O and Neutral D.I. H<sub>2</sub>O, then rinsed with Acetone between each sample composite. Job prep time was 11 hours. ~~11/26/07~~

Analyst Initials:

Date:



LT32 A

### COMPOSITE SAMPLE FORM

Project Name: LDW RI – Fish and crab chemistry

Project #: 04-08-06-22

Date Composited: 10/10/2007

Composited By: ML

COMPOSITE SAMPLE ID #	SPECIMEN ID #	COLLECTION DATE	COLLECTION TIME	WEIGHT (g ww)
LDW-07-T3-M-ES-WB-comp1	LDW-07-T3-AC-TR048-ES-25	9/6/2007	15:27	91.4
	LDW-07-T3-AC-TR081-ES-29	9/10/2007	13:17	201.3
	LDW-07-T3-AC-TR092-ES-41	9/11/2007	10:47	167.5
	LDW-07-T3-A-TR018-ES-02	9/5/2007	10:40	360
	LDW-07-T3-A-TR031-ES-12	9/5/2007	16:13	94.3

89.33g  
 199.92g  
 165.78g  
 356.65g  
 92.94g

Composite weight - 944.54g

Comments:

COMPOSITE SAMPLE FORM

Project Name: LDW RI – Fish and crab chemistry

Project #: 04-08-06-22

COMPOSITE SAMPLE ID #	SPECIMEN ID #	COLLECTION DATE	COLLECTION TIME	WEIGHT (g ww)
LDW-07-T3-M-ES-WB-comp2	LDW-07-T3-AC-TR080-ES-26	9/10/2007	13:01	302
	LDW-07-T3-AC-TR081-ES-30	9/10/2007	13:17	89.4
	LDW-07-T3-AC-TR093-ES-44	9/11/2007	11:06	124.5
	LDW-07-T3-AC-TR093-ES-45	9/11/2007	11:06	155.5
	LDW-07-T3-A-TR031-ES-14	9/5/2007	16:13	188.5

297.86g  
87.84g  
122.43g  
153.29g  
184.07g

Composite weight - 841.67g

Comments:

COMPOSITE SAMPLE FORM

Project Name: LDW RI – Fish and crab chemistry

Project #: 04-08-06-22

COMPOSITE SAMPLE ID #	SPECIMEN ID #	COLLECTION DATE	COLLECTION TIME	WEIGHT (g ww)
LDW-07-T3-M-ES-WB-comp3	LDW-07-T3-AC-TR080-ES-28	9/10/2007	13:01	105
	LDW-07-T3-AC-TR082-ES-33	9/10/2007	13:33	206.9
	LDW-07-T3-AC-TR093-ES-43	9/11/2007	11:06	532
	LDW-07-T3-E-TR030-ES-10	9/5/2007	15:52	153.5
	LDW-07-T3-F-TR029-ES-08	9/5/2007	15:29	83

102.40g  
203.21g  
611.35g  
151.40g  
81.56g

Composite weight - 1,144.53g

Comments:



COMPOSITE SAMPLE FORM

LT32 D

Project Name: LDW RI – Fish and crab chemistry

Project #: 04-08-06-22

Date Composited: 10/10/2007

Composited By: ML

COMPOSITE SAMPLE ID #	SPECIMEN ID #	COLLECTION DATE	COLLECTION TIME	WEIGHT (g ww)
LDW-07-T3-M-ES-WB-comp4	LDW-07-T3-AC-TR047-ES-23	9/6/2007	15:05	114.4
	<del>LDW-07-T3-AC-TR082-ES-34</del> LDW-07-T3-F-TR044-ES-20	<del>9/10/2007</del> 9/6/2007	<del>13:33</del> 14:10	<del>94</del>
	LDW-07-T3-AC-TR082-ES-35	9/10/2007	13:33	418.3
	LDW-07-T3-AC-TR093-ES-46	9/11/2007	11:06	179.6
	LDW-07-T3-F-TR029-ES-07	9/5/2007	15:29	133.4

113.51g  
48.05g  
413.11g  
176.80g  
131.53g

Composite weight 888g

Comments:



**COMPOSITE SAMPLE FORM**

Project Name: LDW RI – Fish and crab chemistry

Project #: 04-08-06-22

Date Composited: 10/10/2007

Composited By: ML

COMPOSITE SAMPLE ID #	SPECIMEN ID #	COLLECTION DATE	COLLECTION TIME	WEIGHT (g ww)
LDW-07-T3-M-ES-WB-comp5	LDW-07-T3-AC-TR047-ES-22	9/6/2007	15:05	92.7
	LDW-07-T3-AC-TR085-ES-39	9/10/2007	14:33	195
	LDW-07-T3-A-TR018-ES-03	9/5/2007	10:40	174.9
	LDW-07-T3-B-TR032-ES-15	9/5/2007	16:26	446
	LDW-07-T3-D-TR034-ES-16	9/6/2007	09:33	101.3

91.42g  
192.73g  
172.25g  
443.90g  
99.44g

Composite weight - 994.73g

Comments:

**COMPOSITE SAMPLE FORM**

Project Name: LDW RI – Fish and crab chemistry

Project #: 04-08-06-22

Date Composited: 10/10/2007

Composited By: ML

COMPOSITE SAMPLE ID #	SPECIMEN ID #	COLLECTION DATE	COLLECTION TIME	WEIGHT (g ww)
LDW-07-T3-M-ES-WB-comp6	LDW-07-T3-AC-TR080-ES-27	9/10/2007	13:01	210.9
	LDW-07-T3-AC-TR082-ES-36	9/10/2007	13:33	516
	LDW-07-T3-A-TR031-ES-13	9/5/2007	16:13	61.2
	LDW-07-T3-E-TR030-ES-11	9/5/2007	15:52	94.4
	LDW-07-T3-F-TR029-ES-06	9/5/2007	15:29	136.1

208.53g  
504.96g  
60.49g  
92.88g  
134.49

Composite weight - 998.37g

Comments:

COMPOSITE SAMPLE FORM

Project Name: LDW RI – Fish and crab chemistry

Project #: 04-08-06-22

Date Composited: 10/10/2007

Composited By: ML

COMPOSITE SAMPLE ID #	SPECIMEN ID #	COLLECTION DATE	COLLECTION TIME	WEIGHT (g ww)
LDW-07-T4-M-ES-WB-comp1	LDW-07-T4-ABD-TR109-ES-05	9/12/2007	15:28	208.5
	LDW-07-T4-A-TR105-ES-04	9/12/2007	14:22	126.4
	LDW-07-T4-B-TR103-ES-01	9/12/2007	13:57	206.5
	LDW-07-T4-B-TR103-ES-02	9/12/2007	13:57	261.6
	LDW-07-T4-B-TR103-ES-03	9/12/2007	13:57	97.7

206.73g  
124.95g  
200.68g  
258.36g  
96.42g

Composite weight - 884.83g

Comments:

COMPOSITE SAMPLE FORM

Project Name: LDW RI – Fish and crab chemistry

Project #: 04-08-06-22

Date Composited: 10/10/2007

Composited By: ML

COMPOSITE SAMPLE ID #	SPECIMEN ID #	COLLECTION DATE	COLLECTION TIME	WEIGHT (g ww)
LDW-07-T4-M-SF-FL-comp1	LDW-07-T4-ABD-TR109-SF-14	9/12/2007	15:28	242.2
	LDW-07-T4-AB-TR104-SF-05	9/12/2007	14:10	92.7
	LDW-07-T4-AB-TR104-SF-06	9/12/2007	14:10	122.9
	LDW-07-T4-AB-TR104-SF-07	9/12/2007	14:10	340
	LDW-07-T4-B-TR103-SF-03	9/12/2007	13:57	171.1

240.36g  
91.48g  
121.50g  
321.90g  
169.10g

Composite weight - 946.34g

Comments:

COMPOSITE SAMPLE FORM

Project Name: LDW RI – Fish and crab chemistry

Project #: 04-08-06-22

Date Composited: 10/10/2007

Composited By: ML

COMPOSITE SAMPLE ID #	SPECIMEN ID #	COLLECTION DATE	COLLECTION TIME	WEIGHT (g ww)
LDW-07-T4-M-SF-WB-comp1	LDW-07-T4-ABD-TR109-SF-15	9/12/2007	15:28	135.5
	LDW-07-T4-ABD-TR109-SF-19	9/12/2007	15:28	222.8
	LDW-07-T4-ABD-TR109-SF-20	9/12/2007	15:28	106.8
	LDW-07-T4-AB-TR108-SF-11	9/12/2007	15:12	314
	LDW-07-T4-B-TR106-SF-09	9/12/2007	14:39	98.7

133.89g  
220.79g  
105.63g  
309.96g  
97.57g

Composite weight 863.58g

Comments:

COMPOSITE SAMPLE FORM

Project Name: LDW RI – Fish and crab chemistry

Project #: 04-08-06-22

Date Composited: 10/10/2007

Composited By: ML

COMPOSITE SAMPLE ID #	SPECIMEN ID #	COLLECTION DATE	COLLECTION TIME	WEIGHT (g ww)
LDW-07-T4-M-SF-WB-comp2	LDW-07-T4-ABD-TR109-SF-13	9/12/2007	15:28	139.7
	LDW-07-T4-ABD-TR109-SF-16	9/12/2007	15:28	95.6
	LDW-07-T4-ABD-TR109-SF-17	9/12/2007	15:28	238.7
	LDW-07-T4-ABD-TR109-SF-18	9/12/2007	15:28	101.9
	LDW-07-T4-A-TR105-SF-08	9/12/2007	14:22	82.5

138.40g  
94.60g  
202.64g  
98.38g  
81.12g

Composite weight - 612.19g

Comments:

COMPOSITE SAMPLE FORM

Project Name: LDW RI – Fish and crab chemistry

Project #: 04-08-06-22

Date Compositied: 10/10/2007

Compositied By: ML

COMPOSITE SAMPLE ID #	SPECIMEN ID #	COLLECTION DATE	COLLECTION TIME	WEIGHT (g ww)
LDW-07-T4-M-SF-WB-comp3	LDW-07-T4-ABCD-TR100-SF-02	9/11/2007	15:39	320
	LDW-07-T4-AB-TR104-SF-04	9/12/2007	14:10	253.2
	LDW-07-T4-AB-TR108-SF-10	9/12/2007	15:12	148.9
	LDW-07-T4-AB-TR108-SF-12	9/12/2007	15:12	110.4
	LDW-07-T4-AC-TR098-SF-01	9/11/2007	15:08	96.5

304.00g  
250.18g  
147.02g  
109.42g  
94.98g

Composite weight 941.74g

Comments:



ARI Job No.: LT33

Client ID: Windward Environmental, LLC

Parameter: PCB/ % Lipids

Client Project: LDWG Fish/crab 2007

SOP Number(s): 3035

No Anomalies:

List problems, concerns, corrective actions and any other pertinent information

Between each composite samples, tissue grinder was washed in detergent, acidified D.I. H<sub>2</sub>O and Neutral D.I. H<sub>2</sub>O then rinsed with Acetone. Tissue prep time was 12 hours. TH 11/14/07

Analyst Initials:

Date:



**COMPOSITE SAMPLE FORM**

Project Name: LDW RI – Fish and crab chemistry

Project #: 04-08-06-22

Date Composited: 10/10/2007

Composited By: ML

COMPOSITE SAMPLE ID #	SPECIMEN ID #	COLLECTION DATE	COLLECTION TIME	WEIGHT (g ww)	
LDW-07-T1-A-SS-WB-comp1	LDW-07-T1-A-TR014-SS-01	9/4/2007	16:41	21.4	21.04g
	LDW-07-T1-A-TR014-SS-02	9/4/2007	16:41	17.8	17.38g
	LDW-07-T1-A-TR014-SS-03	9/4/2007	16:41	13.1	12.82g
	LDW-07-T1-A-TR014-SS-04	9/4/2007	16:41	12.3	12.06g
	LDW-07-T1-A-TR014-SS-05	9/4/2007	16:41	11.1	10.94g
	LDW-07-T1-A-TR051-SS-06	9/7/2007	09:29	19.6	19.26g
	LDW-07-T1-A-TR051-SS-07	9/7/2007	09:29	23.6	23.34g
	LDW-07-T1-A-TR051-SS-08	9/7/2007	09:29	15.5	15.48g
	LDW-07-T1-A-TR051-SS-09	9/7/2007	09:29	17.9	17.82g
	LDW-07-T1-A-TR051-SS-10	9/7/2007	09:29	10.7	10.42g

Composite weight = 155.54g

Comments:

COMPOSITE SAMPLE FORM

Project Name: LDW RI – Fish and crab chemistry

Project #: 04-08-06-22

Date Composited: 10/10/2007

Composited By: ML

COMPOSITE SAMPLE ID #	SPECIMEN ID #	COLLECTION DATE	COLLECTION TIME	WEIGHT (g ww)	
LDW-07-T1-B-SS-WB-comp1	LDW-07-T1-B-TR050-SS-01	9/7/2007	08:56	25.7	25.48g
	LDW-07-T1-B-TR050-SS-02	9/7/2007	08:56	22.3	21.76g
	LDW-07-T1-B-TR050-SS-03	9/7/2007	08:56	10.8	10.54g
	LDW-07-T1-B-TR050-SS-04	9/7/2007	08:56	13.1	12.70g
	LDW-07-T1-B-TR050-SS-05	9/7/2007	08:56	17.9	17.64g
	LDW-07-T1-B-TR062-SS-06	9/7/2007	14:01	27.7	27.30g
	LDW-07-T1-B-TR068-SS-07	9/10/2007	08:35	11.4	11.16g
	LDW-07-T1-B-TR078-SS-08	9/10/2007	11:34	26.4	25.68g
	LDW-07-T1-B-TR101-SS-10	9/12/2007	12:24	22.7	22.22g
	LDW-07-T1-B-TR091-SS-09	9/11/2007	09:18	24.9	24.58g

composite weight = 196.73 g

Comments:

COMPOSITE SAMPLE FORM

Project Name: LDW RI – Fish and crab chemistry

Project #: 04-08-06-22

Date Composited: 10/10/2007

Composited By: ML

COMPOSITE SAMPLE ID #	SPECIMEN ID #	COLLECTION DATE	COLLECTION TIME	WEIGHT (g ww)	
LDW-07-T1-C-SS-WB-comp1	LDW-07-T1-C-TR053-SS-01	9/7/2007	10:36	18	17.70g
	LDW-07-T1-C-TR053-SS-02	9/7/2007	10:36	19.8	19.68g
	LDW-07-T1-C-TR071-SS-03	9/10/2007	09:28	11.9	11.68g
	LDW-07-T1-C-TR071-SS-04	9/10/2007	09:28	11.5	10.94g
	LDW-07-T1-C-TR071-SS-05	9/10/2007	09:28	12.1	11.24g
	LDW-07-T1-C-TR071-SS-06	9/10/2007	09:28	18.3	17.14g
	LDW-07-T1-C-TR071-SS-07	9/10/2007	09:28	19.1	17.26g
	LDW-07-T1-C-TR071-SS-08	9/10/2007	09:28	11.3	10.92g
	LDW-07-T1-C-TR072-SS-09	9/10/2007	09:47	16.2	15.80g
	LDW-07-T1-C-TR072-SS-10	9/10/2007	09:47	17.8	17.60g

composite weight = 144.95g

Comments:

COMPOSITE SAMPLE FORM

Project Name: LDW RI – Fish and crab chemistry

Project #: 04-08-06-22

Date Composited: 10/10/2007

Composited By: ML

COMPOSITE SAMPLE ID #	SPECIMEN ID #	COLLECTION DATE	COLLECTION TIME	WEIGHT (g ww)	
LDW-07-T1-D-SS-WB-comp1	LDW-07-T1-D-TR058-SS-01	9/7/2007	12:47	23	22.46g
	LDW-07-T1-D-TR059-SS-02	9/7/2007	13:10	19.3	19.00g
	LDW-07-T1-D-TR059-SS-03	9/7/2007	13:10	13.9	13.64g
	LDW-07-T1-D-TR079-SS-04	9/10/2007	11:59	15	14.90g
	LDW-07-T1-D-TR079-SS-05	9/10/2007	11:59	17.2	17.62g
	LDW-07-T1-D-TR079-SS-06	9/10/2007	11:59	17	16.90g
	LDW-07-T1-D-TR079-SS-07	9/10/2007	11:59	10.3	10.16g
	LDW-07-T1-D-TR079-SS-08	9/10/2007	11:59	23.4	23.10g
	LDW-07-T1-D-TR079-SS-09	9/10/2007	11:59	9.4	9.00g
	LDW-07-T1-D-TR079-SS-10	9/10/2007	11:59	11.2	11.12g

composite weight = 154.61g

Comments:

**Lower Duwamish Waterway Group**

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

Fish, Crab, and Clam Addendum  
Appendix B

August 23, 2007

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COMPOSITE SAMPLE FORM

Project Name: LDW RI – Fish and crab chemistry

Project #: 04-08-06-22

Date Composited: 10/10/2007

Composited By: ML

COMPOSITE SAMPLE ID #	SPECIMEN ID #	COLLECTION DATE	COLLECTION TIME	WEIGHT (g ww)	
LDW-07-T1-E-SS-WB-comp1	LDW-07-T1-E-TR037-SS-01	9/6/2007	10:55	28.7	28.74g
	LDW-07-T1-E-TR037-SS-02	9/6/2007	10:55	16.2	16.06g
	LDW-07-T1-E-TR038-SS-04	9/6/2007	11:15	10.7	10.68g
	LDW-07-T1-E-TR038-SS-05	9/6/2007	11:15	17.1	16.60g
	LDW-07-T1-E-TR038-SS-06	9/6/2007	11:15	18	17.64g
	LDW-07-T1-E-TR038-SS-07	9/6/2007	11:15	22.1	21.44g
	LDW-07-T1-E-TR038-SS-08	9/6/2007	11:15	30	29.34g
	LDW-07-T1-E-TR065-SS-09	9/7/2007	14:55	22.2	21.82g
	LDW-07-T1-E-TR066-SS-10	9/7/2007	15:15	23.8	23.56g
	LDW-07-T1-E-TR066-SS-11	9/7/2007	15:15	20.6	20.30g
↓ TR038-SS-03 - Re-froze Per client					39.76g
<p>composite weight = 242.14g</p>					

Comments:

**COMPOSITE SAMPLE FORM**

Project Name: LDW RI – Fish and crab chemistry

Project #: 04-08-06-22

Date Composited: 10/10/2007

Composited By: ML

COMPOSITE SAMPLE ID #	SPECIMEN ID #	COLLECTION DATE	COLLECTION TIME	WEIGHT (g ww)	
LDW-07-T1-F-SS-WB-comp1	LDW-07-T1-F-TR039-SS-01	9/6/2007	11:40	16.4	16.48g
	LDW-07-T1-F-TR039-SS-02	9/6/2007	11:40	26.2	26.16g
	LDW-07-T1-F-TR039-SS-03	9/6/2007	11:40	17.7	17.48g
	LDW-07-T1-F-TR070-SS-04	9/10/2007	09:10	24.3	23.76g
	LDW-07-T1-F-TR075-SS-05	9/10/2007	10:36	11.2	11.06g
	LDW-07-T1-F-TR076-SS-06	9/10/2007	11:04	25.5	24.74g
	LDW-07-T1-F-TR076-SS-07	9/10/2007	11:04	9.8	9.64g
	LDW-07-T1-F-TR076-SS-08	9/10/2007	11:04	27.3	26.84g
	LDW-07-T1-F-TR076-SS-09	9/10/2007	11:04	17.5	17.28g
	LDW-07-T1-F-TR076-SS-10	9/10/2007	11:04	15.8	15.46g

composite weight = 184.92g

Comments:



LT33 ←

### COMPOSITE SAMPLE FORM

Project Name: LDW RI – Fish and crab chemistry

Project #: 04-08-06-22

Date Composited: 10/10/2007

Composited By: ML

COMPOSITE SAMPLE ID #	SPECIMEN ID #	COLLECTION DATE	COLLECTION TIME	WEIGHT (g ww)	
LDW-07-T2-A-SS-WB-comp1	LDW-07-T2-A-TR001-SS-01	9/4/2007	10:45	36.7	35.76
	LDW-07-T2-A-TR001-SS-02	9/4/2007	10:45	21.2	20.50g
	LDW-07-T2-A-TR001-SS-03	9/4/2007	10:45	12.7	11.82g
	LDW-07-T2-A-TR001-SS-04	9/4/2007	10:45	21.5	20.90g
	LDW-07-T2-A-TR001-SS-05	9/4/2007	10:45	20.9	20.20g
	LDW-07-T2-A-TR001-SS-06	9/4/2007	10:45	23.5	22.70g
	LDW-07-T2-A-TR001-SS-07	9/4/2007	10:45	23.2	22.98g
	LDW-07-T2-A-TR001-SS-08	9/4/2007	10:45	23.5	22.56g
	LDW-07-T2-A-TR001-SS-09	9/4/2007	10:45	23.9	23.46g
	LDW-07-T2-A-TR001-SS-10	9/4/2007	10:45	19.2	18.66g

composite weight = 215.74g

Comments:

COMPOSITE SAMPLE FORM

Project Name: LDW RI – Fish and crab chemistry

Project #: 04-08-06-22

Date Composited: 10/10/2007

Composited By: ML

COMPOSITE SAMPLE ID #	SPECIMEN ID #	COLLECTION DATE	COLLECTION TIME	WEIGHT (g ww)	
LDW-07-T2-B-SS-WB-comp1	LDW-07-T2-B-TR002-SS-01	9/4/2007	11:18	30.7	30.38g
	LDW-07-T2-B-TR002-SS-02	9/4/2007	11:18	18.6	18.28g
	LDW-07-T2-B-TR002-SS-03	9/4/2007	11:18	11.9	11.70g
	LDW-07-T2-B-TR002-SS-04	9/4/2007	11:18	13.4	12.58g
	LDW-07-T2-B-TR002-SS-05	9/4/2007	11:18	17.6	17.34g
	LDW-07-T2-B-TR002-SS-06	9/4/2007	11:18	16	15.68g
	LDW-07-T2-B-TR002-SS-07	9/4/2007	11:18	18.6	18.22g
	LDW-07-T2-B-TR002-SS-08	9/4/2007	11:18	11	10.84g
	LDW-07-T2-B-TR002-SS-09	9/4/2007	11:18	15.9	15.40g
	LDW-07-T2-B-TR002-SS-10	9/4/2007	11:18	13	12.44g

Composite weight = 159.76g

Comments:



COMPOSITE SAMPLE FORM

Project Name: LDW RI – Fish and crab chemistry

Project #: 04-08-06-22

Date Composited: 10/10/2007

Composited By: ML

COMPOSITE SAMPLE ID #	SPECIMEN ID #	COLLECTION DATE	COLLECTION TIME	WEIGHT (g ww)	
LDW-07-T2-C-SS-WB-comp1	LDW-07-T2-C-TR004-SS-01	9/4/2007	12:47	24.6	24.46g
	LDW-07-T2-C-TR004-SS-02	9/4/2007	12:47	20.5	20.30g
	LDW-07-T2-C-TR004-SS-03	9/4/2007	12:47	20	19.90g
	LDW-07-T2-C-TR004-SS-04	9/4/2007	12:47	18.5	18.56g
	LDW-07-T2-C-TR004-SS-05	9/4/2007	12:47	16.4	16.32g
	LDW-07-T2-C-TR004-SS-06	9/4/2007	12:47	11.3	11.30g
	LDW-07-T2-C-TR004-SS-07	9/4/2007	12:47	13.5	12.80g
	LDW-07-T2-C-TR005-SS-08	9/4/2007	13:04	22.9	22.44g
	LDW-07-T2-C-TR005-SS-09	9/4/2007	13:04	15.7	15.56g
	LDW-07-T2-C-TR005-SS-10	9/4/2007	13:04	18	17.72g

Composite weight = 176.25g

Comments:

COMPOSITE SAMPLE FORM

Project Name: LDW RI – Fish and crab chemistry

Project #: 04-08-06-22

Date Compositod: 10/10/2007

Composited By: ML

COMPOSITE SAMPLE ID #	SPECIMEN ID #	COLLECTION DATE	COLLECTION TIME	WEIGHT (g ww)	
LDW-07-T2-D-SS-WB-comp1	LDW-07-T2-D-TR006-SS-01	9/4/2007	13:29	18.7	18.46g
	LDW-07-T2-D-TR006-SS-02	9/4/2007	13:29	31.3	30.82g
	LDW-07-T2-D-TR006-SS-03	9/4/2007	13:29	19	18.66g
	LDW-07-T2-D-TR006-SS-04	9/4/2007	13:29	32.7	32.42g
	LDW-07-T2-D-TR006-SS-05	9/4/2007	13:29	25.9	25.52g
	LDW-07-T2-D-TR006-SS-06	9/4/2007	13:29	19.2	19.06g
	LDW-07-T2-D-TR006-SS-07	9/4/2007	13:29	31.7	31.36g
	LDW-07-T2-D-TR006-SS-08	9/4/2007	13:29	10.7	10.56g
	LDW-07-T2-D-TR006-SS-09	9/4/2007	13:29	25.3	25.06g
	LDW-07-T2-D-TR006-SS-10	9/4/2007	13:29	10.9	10.66g

composite weight = 219.55g

Comments:

COMPOSITE SAMPLE FORM

Project Name: LDW RI – Fish and crab chemistry

Project #: 04-08-06-22

Date Composited: 10/10/2007

Composited By: ML

COMPOSITE SAMPLE ID #	SPECIMEN ID #	COLLECTION DATE	COLLECTION TIME	WEIGHT (g ww)	
LDW-07-T2-E-SS-WB-comp1	LDW-07-T2-E-TR007-SS-01	9/4/2007	13:54	23.8	23.54g
	LDW-07-T2-E-TR007-SS-02	9/4/2007	13:54	20	19.68g
	LDW-07-T2-E-TR007-SS-03	9/4/2007	13:54	19.2	19.00g
	LDW-07-T2-E-TR007-SS-04	9/4/2007	13:54	18.4	17.10g
	LDW-07-T2-E-TR007-SS-05	9/4/2007	13:54	13.3	13.16g
	LDW-07-T2-E-TR007-SS-06	9/4/2007	13:54	20.9	20.62g
	LDW-07-T2-E-TR007-SS-07	9/4/2007	13:54	17	16.64g
	LDW-07-T2-E-TR007-SS-08	9/4/2007	13:54	15.8	15.48g
	LDW-07-T2-E-TR007-SS-09	9/4/2007	13:54	14	13.58g
	LDW-07-T2-E-TR007-SS-10	9/4/2007	13:54	10.7	10.22g

Composite weight = 165.77g

Comments:

COMPOSITE SAMPLE FORM

Project Name: LDW RI – Fish and crab chemistry

Project #: 04-08-06-22

Date Composited: 10/10/2007

Composited By: ML

COMPOSITE SAMPLE ID #	SPECIMEN ID #	COLLECTION DATE	COLLECTION TIME	WEIGHT (g ww)
LDW-07-T2-F-SS-WB-comp1	LDW-07-T2-F-TR008-SS-01	9/4/2007	14:16	34.6
	LDW-07-T2-F-TR008-SS-02	9/4/2007	14:16	33.6
	LDW-07-T2-F-TR008-SS-03	9/4/2007	14:16	24.9
	LDW-07-T2-F-TR008-SS-04	9/4/2007	14:16	23.8
	LDW-07-T2-F-TR008-SS-05	9/4/2007	14:16	10.7
	LDW-07-T2-F-TR008-SS-06	9/4/2007	14:16	11.9
	LDW-07-T2-F-TR010-SS-07	9/4/2007	15:04	20.5
	LDW-07-T2-F-TR010-SS-08	9/4/2007	15:04	28.1
	LDW-07-T2-F-TR010-SS-09	9/4/2007	15:04	23.3
	LDW-07-T2-F-TR010-SS-10	9/4/2007	15:04	17.6

34.2g  
32.84g  
24.14g  
23.62g  
10.20g  
11.62g  
20.06g  
27.38g  
22.82g  
17.04g

Composite weight = 219.84g

Comments:

COMPOSITE SAMPLE FORM

Project Name: LDW RI – Fish and crab chemistry

Project #: 04-08-06-22

Date Composited: 10/10/2007

Composited By: ML

COMPOSITE SAMPLE ID #	SPECIMEN ID #	COLLECTION DATE	COLLECTION TIME	WEIGHT (g ww)	
LDW-07-T3-A-SS-WB-comp1	LDW-07-T3-A-TR017-SS-01	9/5/2007	10:26	23.3	23.04g
	LDW-07-T3-A-TR017-SS-02	9/5/2007	10:26	14.4	13.90g
	LDW-07-T3-A-TR018-SS-03	9/5/2007	10:40	17.2	17.06g
	LDW-07-T3-A-TR018-SS-04	9/5/2007	10:40	18.4	18.36g
	LDW-07-T3-A-TR018-SS-05	9/5/2007	10:40	17.7	17.68g
	LDW-07-T3-A-TR018-SS-06	9/5/2007	10:40	12.3	12.14g
	LDW-07-T3-A-TR018-SS-07	9/5/2007	10:40	19.5	19.36g
	LDW-07-T3-A-TR018-SS-08	9/5/2007	10:40	12.9	12.76g
	LDW-07-T3-A-TR018-SS-09	9/5/2007	10:40	19.8	18.90g
	LDW-07-T3-A-TR018-SS-10	9/5/2007	10:40	17.1	16.76g

Composite weight - 165.84g

Comments:

COMPOSITE SAMPLE FORM

Project Name: LDW RI – Fish and crab chemistry

Project #: 04-08-06-22

Date Composited: 10/10/2007

Composited By: ML

COMPOSITE SAMPLE ID #	SPECIMEN ID #	COLLECTION DATE	COLLECTION TIME	WEIGHT (g ww)	
LDW-07-T3-B-SS-WB-comp1	LDW-07-T3-B-TR019-SS-01	9/5/2007	10:55	28.9	28.50g
	LDW-07-T3-B-TR019-SS-02	9/5/2007	10:55	16.5	16.32g
	LDW-07-T3-B-TR019-SS-03	9/5/2007	10:55	13.9	13.66g
	LDW-07-T3-B-TR019-SS-04	9/5/2007	10:55	14.3	14.02g
	LDW-07-T3-B-TR019-SS-05	9/5/2007	10:55	19.3	18.38g
	LDW-07-T3-B-TR020-SS-06	9/5/2007	11:07	21.6	21.22g
	LDW-07-T3-B-TR020-SS-07	9/5/2007	11:07	17.1	16.98g
	LDW-07-T3-B-TR020-SS-08	9/5/2007	11:07	13.3	13.22g
	LDW-07-T3-B-TR020-SS-09	9/5/2007	11:07	23.9	23.80g
	LDW-07-T3-B-TR020-SS-10	9/5/2007	11:07	14.2	14.08g

Composite weight = 175.14g

Comments:

COMPOSITE SAMPLE FORM

Project Name: LDW RI – Fish and crab chemistry

Project #: 04-08-06-22

Date Composited: 10/10/2007

Composited By: ML

COMPOSITE SAMPLE ID #	SPECIMEN ID #	COLLECTION DATE	COLLECTION TIME	WEIGHT (g ww)	
LDW-07-T3-C-SS-WB-comp1	LDW-07-T3-C-TR033-SS-01	9/6/2007	09:15	13.5	13.22g
	LDW-07-T3-C-TR033-SS-02	9/6/2007	09:15	25	24.44g
	LDW-07-T3-C-TR033-SS-03	9/6/2007	09:15	15.1	14.90g
	LDW-07-T3-C-TR033-SS-04	9/6/2007	09:15	35.7	35.40g
	LDW-07-T3-C-TR033-SS-05	9/6/2007	09:15	21.5	21.14g
	LDW-07-T3-C-TR033-SS-06	9/6/2007	09:15	19.1	18.76g
	LDW-07-T3-C-TR033-SS-07	9/6/2007	09:15	10.8	10.48g
	LDW-07-T3-C-TR033-SS-08	9/6/2007	09:15	10.8	10.56g
	LDW-07-T3-C-TR033-SS-09	9/6/2007	09:15	21	20.54g
	LDW-07-T3-C-TR033-SS-10	9/6/2007	09:15	12.1	11.64g

Composite weight = 177.84g

Comments:

COMPOSITE SAMPLE FORM

Project Name: LDW RI – Fish and crab chemistry

Project #: 04-08-06-22

Date Composited: 10/10/2007

Composited By: ML

COMPOSITE SAMPLE ID #	SPECIMEN ID #	COLLECTION DATE	COLLECTION TIME	WEIGHT (g ww)	
LDW-07-T3-D-SS-WB-comp1	LDW-07-T3-D-TR034-SS-01	9/6/2007	09:33	24.6	24.50g
	LDW-07-T3-D-TR034-SS-02	9/6/2007	09:33	24.8	24.56g
	LDW-07-T3-D-TR034-SS-03	9/6/2007	09:33	19.9	19.60g
	LDW-07-T3-D-TR034-SS-04	9/6/2007	09:33	16.2	16.00g
	LDW-07-T3-D-TR034-SS-05	9/6/2007	09:33	39.4	38.86g
	LDW-07-T3-D-TR034-SS-06	9/6/2007	09:33	35.6	35.28g
	LDW-07-T3-D-TR034-SS-07	9/6/2007	09:33	27.8	27.30g
	LDW-07-T3-D-TR034-SS-08	9/6/2007	09:33	15.9	15.56g
	LDW-07-T3-D-TR034-SS-09	9/6/2007	09:33	22.4	21.96g
	LDW-07-T3-D-TR034-SS-10	9/6/2007	09:33	28.7	28.10g

Composite weight = 247.71g

Comments:



COMPOSITE SAMPLE FORM

Project Name: LDW RI – Fish and crab chemistry

Project #: 04-08-06-22

Date Composited: 10/10/2007

Composited By: ML

COMPOSITE SAMPLE ID #	SPECIMEN ID #	COLLECTION DATE	COLLECTION TIME	WEIGHT (g ww)	
LDW-07-T3-E-SS-WB-comp1	LDW-07-T3-E-TR027-SS-01	9/5/2007	14:48	32.8	31.40g
	LDW-07-T3-E-TR027-SS-02	9/5/2007	14:48	20.5	20.32g
	LDW-07-T3-E-TR027-SS-03	9/5/2007	14:48	16.8	16.48g
	LDW-07-T3-E-TR027-SS-04	9/5/2007	14:48	17.9	17.85g
	LDW-07-T3-E-TR027-SS-05	9/5/2007	14:48	33	32.40g
	LDW-07-T3-E-TR027-SS-06	9/5/2007	14:48	22.8	22.70g
	LDW-07-T3-E-TR027-SS-07	9/5/2007	14:48	22.6	22.42g
	LDW-07-T3-E-TR027-SS-08	9/5/2007	14:48	29.9	28.39g
	LDW-07-T3-E-TR027-SS-09	9/5/2007	14:48	31.3	30.77g
	LDW-07-T3-E-TR027-SS-10	9/5/2007	14:48	24.4	24.13g

Composite weight = 242.78g

Comments:

COMPOSITE SAMPLE FORM

Project Name: LDW RI – Fish and crab chemistry

Project #: 04-08-06-22

Date Composited: 10/10/2007

Composited By: ML

COMPOSITE SAMPLE ID #	SPECIMEN ID #	COLLECTION DATE	COLLECTION TIME	WEIGHT (g ww)	
LDW-07-T3-F-SS-WB-comp1	LDW-07-T3-F-TR028-SS-01	9/5/2007	15:09	13.2	12.90g
	LDW-07-T3-F-TR028-SS-02	9/5/2007	15:09	13.2	12.89g
	LDW-07-T3-F-TR028-SS-03	9/5/2007	15:09	17.4	17.10g
	LDW-07-T3-F-TR028-SS-04	9/5/2007	15:09	17.3	17.04g
	LDW-07-T3-F-TR028-SS-05	9/5/2007	15:09	15.8	15.60g
	LDW-07-T3-F-TR028-SS-06	9/5/2007	15:09	12.1	11.82g
	LDW-07-T3-F-TR028-SS-07	9/5/2007	15:09	16.7	16.19g
	LDW-07-T3-F-TR028-SS-08	9/5/2007	15:09	18.5	17.82g
	LDW-07-T3-F-TR028-SS-09	9/5/2007	15:09	13.2	12.76g
	LDW-07-T3-F-TR028-SS-10	9/5/2007	15:09	9.8	8.64g

Composite weight = 138.76g

Comments:



Analytical Resources, Incorporated  
Analytical Chemists and Consultants

# Organic Extractions Laboratory Analyst Notes

ARI Job No.: LT34

Client ID: Windward Environmental, LLC

Parameter: 8082 PCB

Client Project: LDWG Fish/Creb

SOP Number(s): 3035

No Anomalies:

List problems, concerns, corrective actions and any other pertinent information

Between each composite sample, grinder was cleaned in detergent bath, acidic D.I. H<sub>2</sub>O and Neutral D.I. H<sub>2</sub>O. Then rinsed with acetone. Sample prep time was 3 hours. ~~TA~~ 11/24/07

Analyst Initials:

Date:

COMPOSITE SAMPLE FORM

Project Name: LDW RI – Fish and crab chemistry

Project #: 04-08-06-22

Date Composited: 10/10/2007

Composited By: ML

COMPOSITE SAMPLE ID #	SPECIMEN ID #	COLLECTION DATE	COLLECTION TIME	WEIGHT (g ww)	
LDW-07-T4-A-SS-WB-comp1	LDW-07-T4-A-TR015-SS-01	9/5/2007	09:44	24.7	24.61g
	LDW-07-T4-A-TR015-SS-02	9/5/2007	09:44	30.8	30.58g
	LDW-07-T4-A-TR015-SS-03	9/5/2007	09:44	8.8	8.10g
	LDW-07-T4-A-TR015-SS-04	9/5/2007	09:44	23.5	23.50g
	LDW-07-T4-A-TR015-SS-05	9/5/2007	09:44	19.3	19.30g
	LDW-07-T4-A-TR015-SS-06	9/5/2007	09:44	10.1	10.10g
	LDW-07-T4-A-TR015-SS-07	9/5/2007	09:44	25.2	25.20g
	LDW-07-T4-A-TR015-SS-08	9/5/2007	09:44	19.5	18.90g
	LDW-07-T4-A-TR015-SS-09	9/5/2007	09:44	17.2	17.09g
	LDW-07-T4-A-TR015-SS-10	9/5/2007	09:44	14	13.80g

Composite weight = 186.11g

Comments:

COMPOSITE SAMPLE FORM

Project Name: LDW RI – Fish and crab chemistry

Project #: 04-08-06-22

Date Compositod: 10/10/2007

Compositod By: ML

COMPOSITE SAMPLE ID #	SPECIMEN ID #	COLLECTION DATE	COLLECTION TIME	WEIGHT (g ww)	
LDW-07-T4-B-SS-WB-comp1	LDW-07-T4-B-TR016-SS-01	9/5/2007	10:00	20.5	20.37g
	LDW-07-T4-B-TR016-SS-02	9/5/2007	10:00	32.3	31.96g
	LDW-07-T4-B-TR016-SS-03	9/5/2007	10:00	18.4	18.27g
	LDW-07-T4-B-TR016-SS-04	9/5/2007	10:00	24.9	24.63g
	LDW-07-T4-B-TR016-SS-05	9/5/2007	10:00	15.1	14.76g
	LDW-07-T4-B-TR016-SS-06	9/5/2007	10:00	35.5	34.95g
	LDW-07-T4-B-TR016-SS-07	9/5/2007	10:00	18.3	17.83g
	LDW-07-T4-B-TR016-SS-08	9/5/2007	10:00	14	13.90g
	LDW-07-T4-B-TR016-SS-09	9/5/2007	10:00	17.9	17.67g
	LDW-07-T4-B-TR016-SS-10	9/5/2007	10:00	15.3	15.10g

composite weight = 209.44

Comments:

COMPOSITE SAMPLE FORM

Project Name: LDW RI – Fish and crab chemistry

Project #: 04-08-06-22

Date Compositod: 10/10/2007

Compositod By: ML

COMPOSITE SAMPLE ID #	SPECIMEN ID #	COLLECTION DATE	COLLECTION TIME	WEIGHT (g ww)	
LDW-07-T4-C-SS-WB-comp1	LDW-07-T4-C-TR021-SS-01	9/5/2007	12:23	24.6	24.45g
	LDW-07-T4-C-TR021-SS-02	9/5/2007	12:23	14.7	14.57g
	LDW-07-T4-C-TR021-SS-03	9/5/2007	12:23	17.1	16.97g
	LDW-07-T4-C-TR021-SS-04	9/5/2007	12:23	11	10.97g
	LDW-07-T4-C-TR022-SS-05	9/5/2007	12:35	10.9	10.86g
	LDW-07-T4-C-TR022-SS-06	9/5/2007	12:35	19	18.71g
	LDW-07-T4-C-TR022-SS-07	9/5/2007	12:35	18.7	18.48g
	LDW-07-T4-C-TR022-SS-08	9/5/2007	12:35	14.1	13.92g
	LDW-07-T4-C-TR022-SS-09	9/5/2007	12:35	16.1	15.94g
	LDW-07-T4-C-TR022-SS-10	9/5/2007	12:35	9.5	9.18g

Composite weight = 154.05g

Comments:

COMPOSITE SAMPLE FORM

Project Name: LDW RI – Fish and crab chemistry

Project #: 04-08-06-22

Date Compositod: 10/10/2007

Compositod By: ML

COMPOSITE SAMPLE ID #	SPECIMEN ID #	COLLECTION DATE	COLLECTION TIME	WEIGHT (g ww)	
LDW-07-T4-D-SS-WB-comp1	LDW-07-T4-D-TR023-SS-01	9/5/2007	12:55	11.8	11.53g
	LDW-07-T4-D-TR023-SS-02	9/5/2007	12:55	16.8	16.51g
	LDW-07-T4-D-TR023-SS-03	9/5/2007	12:55	17.3	17.00g
	LDW-07-T4-D-TR023-SS-04	9/5/2007	12:55	10.7	10.42g
	LDW-07-T4-D-TR023-SS-05	9/5/2007	12:55	27.1	26.68g
	LDW-07-T4-D-TR023-SS-06	9/5/2007	12:55	23.9	23.60g
	LDW-07-T4-D-TR023-SS-07	9/5/2007	12:55	24.8	24.56g
	LDW-07-T4-D-TR023-SS-08	9/5/2007	12:55	16.2	15.95g
	LDW-07-T4-D-TR023-SS-09	9/5/2007	12:55	16.4	16.02g
	LDW-07-T4-D-TR023-SS-10	9/5/2007	12:55	16.5	16.50g
composite weight = 178.77g					

Comments:







WIN004 Clam weights

BRL Sample ID  
Pre-weight

88
66
81
64
93
51
58
39
31
37
49
47
51
52
85
56
52
42
28
21
21

07BR1246-17  
Post-weight

28
23
25
22
39
22
19
13
13
18
17
19
15
20
29
21
18
16
11
8
8

LOW-07-C9-Comp

BRL Sample ID  
Pre-weight

52
42
47
59
36
77
53
74
57
42
42
45
46
34
34
30
26
24
29
25
18

07BR1246-02  
Post-weight

11
12
13
16
9
24
16
21
13
12
13
14
16
12
10
10
8
8
10
8
5

LOW-07-C1-Comp-dep

Sample Physical Characteristics Log

Prep Technician: Jason Barrett

Date: 08/28/07

Client ID(s): WIN004

Sample ID	Matrix/Submatrix	Physical Characteristics
07BR1246-04	Biota/clam	20 clams
-09	Biota/clam	21 clams
-18	Biota/clam	20 clams
-16	Biota/clam	21 clams
-10	Biota/clam	20 clams
-11	Biota/clam	20 clams
-15	Biota/clam	20 clams
-12	Biota/clam	20 clams

Additional Notes: I took a process blank after the first biota (-04) at 10:00am 8/28/07  
07BR1246-43

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WIN004 Clam weights

BRL Sample ID Pre-weight	07BR1246-04 Post-weight
89	33
74	26
53	21
42	15
45	16
39	14
35	12
64	22
30	10
60	19
41	16
29	10
35	14
22	7
39	15
19	5
14	7
25	10
18	7
19	6

LOW -07-C2-1-Comp-dep

BRL Sample ID Pre-weight	07BR1246-09 Post-weight
47	17
60	20
65	19
62	21
49	19
55	21
37	13
42	14
50	14
38	15
32	10
34	16
29	10
29	10
27	10
26	7
25	9
22	7
22	7
20	8
23	5

LOW -07-C3-2-Comp

WIN004 Clam weights

BRL Sample ID  
Pre-weight

07BR1246-10  
Post-weight

LOW-07-C3-2-Comp-dup

50	15
57	20
47	12
48	16
41	14
34	13
41	10
46	12
43	17
51	16
36	14
41	11
27	9
25	7
25	4
24	7
20	6
20	7
19	5
20	5

BRL Sample ID  
Pre-weight

07BR1246-11  
Post-weight

LOW-07-C4-Comp

72	19
74	25
50	20
43	15
35	12
41	12
41	16
41	13
36	11
32	10
32	7
34	13
31	12
29	10
25	8
22	6
24	7
23	8
15	5
17	6
19	6

WIN004 Clam weights

BRL Sample ID Pre-weight	07BR1246-15 Post-weight
100	35
78	33
83	32
52	19
62	24
63	22
63	21
52	22
63	19
61	19
38	12
59	19
39	13
49	16
35	12
51	17
52	19
39	13
30	12
32	13
24	8

LDW-07-C6-Comp-dep

BRL Sample ID Pre-weight	07BR1246-12 Post-weight
<del>400</del> 75	26
78	20
69	19
38	15
45	14
63	17
39	11
37	12
45	16
38	13
31	11
44	15
29	10
37	12
32	9
35	12
32	9
23	7
22	8
27	8

LDW-07-C4-Comp-dep

WIN004 Clam weights

BRL Sample ID Pre-weight	07BR1246-18 Post-weight
122	41
89	29
74	28
70	27
30	4
27	13
62	24
59	21
80	34
71	27
61	19
53	20
67	19
52	18
57	16
41	13
40	16
44	13
41	13
25	8

LOW-07-C9-Comp-dep

BRL Sample ID Pre-weight	07BR1246-16 Post-weight
77	25
71	24
57	22
51	20
60	20
75	20
45	18
59	14
48	16
45	14
45	14
34	12
43	11
40	14
37	12
40	13
26	8
28	10
28	9
27	8
24	7

LOW-07-C7-Comp

Sample Physical Characteristics Log

Prep Technician: Jason Barrett

Date: 08/29/07

Client ID(s): WIN004

Sample ID	Matrix/Submatrix	Physical Characteristics
07BR1246-13	Blots/clean	21 clean
-14	Blots/clean	22 clean
-05	Blots/clean	21 clean
-03	Blots/clean	21 clean
-19	Blots/clean	20 clean
-06	Blots/clean	20 clean
-08	Blots/clean	20 clean
-41	Blots/clean	22 clean, 427g
↓ -42	Blots/clean	23 clean, 398g

Additional Notes: Made blank at 9:15, stored in  
170 HNO<sub>3</sub> 07BR1246-44



WIN004 Clam weights

BRL Sample ID Pre-weight	07BR1246-05 Post-weight
97	34
80	27
57	24
78	27
72	26
67	24
63	26
62	18
36	21
54	21
57	22
53	18
58	21
46	15
39	15
34	11
45	17
38	11
25	9
18	6
16	7

LOW-07-C2-2-Comp

BRL Sample ID Pre-weight	07BR1246-03 Post-weight
62	26
63	21
58	24
55	19
64	22
57	22
52	19
66	24
69	26
62	24
44	17
43	15
50	18
45	17
24	9
37	14
31	10
22	8
19	7
12	5
31	16

LOW-07-C2-1-Comp



WIN004 Clam weights

BRL Sample ID	07BR1246-13
Pre-weight	Post-weight
109	43
90	37
69	23
58	18
74	30
73	24
60	24
60	22
65	21
66	24
57	18
48	19
55	21
53	20
43	17
37	14
43	15
47	18
47	14
37	16
37	12

LOW-07-C5-Comp

BRL Sample ID	07BR1246-14
Pre-weight	Post-weight
83	35
73	25
83	33
68	28
62	27
64	27
63	27
57	25
76	30
52	21
54	19
58	20
54	22
54	22
59	22
43	15
50	19
35	14
32	12
28	12
32	11
25	10

LOW-07-C6-Comp

WIN004 Clam weights

BRL Sample ID Pre-weight	07BR1246-19 Post-weight
83	28
75	23
76	24
65	27
58	19
73	24
58	21
57	20
45	18
51	24
48	16
39	15
40	16
35	18
36	13
36	12
19	10
30	11
19	10
35	13

LOW-07-C10-~~1~~-2-Comp

BRL Sample ID Pre-weight	07BR1246-06 Post-weight
147	56
66	21
93	31
90	30
77	25
71	28
74	24
63	23
59	19
61	19
51	19
51	16
43	17
39	15
34	11
28	10
29	10
22	7
32	13
25	10

LOW-07-C2-2-Comp-dep

Sample Physical Characteristics Log

Prep Technician: Jessie Barrett

Date: 08/30/07

Client ID(s): WIN004

Sample ID	Matrix/Submatrix	Physical Characteristics
07BR1246-39	Biota/clsm	20 clams
-36	Biota/clsm	20 clams
-40	Biota/clsm	22 <del>clams</del> clams
-37	Biota/clsm	21 clams
-38	Biota/clsm	20 clams
-46	Biota/clsm	22 clams 375g
-45	Biota/clsm	23 clams 355g
-48	Biota/clsm	22 clams 303g
-47	Biota/clsm	22 clams 320g

Additional Notes: I made a blank at 7:00pm 07BR1246-50

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WIN004 Clam weights

BRL Sample ID	Pre-weight
68	
65	
60	
43	
45	
49	
45	
44	
44	
31	
35	
31	
26	
41	
32	
24	
22	
25	
16	
17	
42	

07BR 1246-37	Post-weight
	21
	19
	15
	14
	15
	14
	13
	16
	13
	10
	10
	8
	8
	19
	11
	7
	7
	6
	6
	5
	19

LOW-07-C7-Comp-dep

BRL Sample ID	Pre-weight
63	
57	
54	
59	
52	
53	
33	
37	
33	
32	
30	
35	
24	
21	
21	
15	
33	
13	
12	
21	

07BR 1246-38	Post-weight
	25
	19
	15
	17
	18
	18
	8
	14
	11
	11
	11
	11
	9
	7
	7
	5
	16
	6
	5
	8

LOW-07-C8-Comp-dep

WIN004 Clam weights

BRL Sample ID Pre-weight	07BR1246-39 Post-weight
67	17
55	14
52	17
60	17
52	19
62	27
53	17
58	18
47	19
47	15
50	17
43	17
36	11
33	11
47	12
34	11
31	11
38	14
33	14
23	8

LOW-07-C10-2-comp-dep

BRL Sample ID Pre-weight	07BR1246-36 Post-weight
73	26
86	25
70	21
61	18
81	28
52	19
65	19
56	18
58	21
61	21
55	20
48	16
46	12
47	13
43	14
<del>34</del> 34	12
30	12
30	8
41	18
53	19

LOW-07-C5-comp-dep





### Sample Physical Characteristics Log

Prep Technician: DP

Date: 9/6/07

Client ID(s): WIN004

Sample ID	Matrix/Submatrix	Physical Characteristics
07BR1246-20	Sediment	Gray-brown, sandy
-21		↓ fine-grain
-22		dark brown, sandy
-23		black, sandy
-24		↓ w/bits o' shell
-25		black, sandy w/a few rocks, wet
-26		↓
-27		↓ mixed
-28		black, coarse-grained w/pebbles
-29		dark brown, sandy
-30		dark grey, sandy w/rocks, wet
-31		brown, sandy w/rocks
-33		black, fine-grain w/rocks
-34		dark grey-brown, sandy w/a few rocks
-35		brown, sandy w/a couple sticks
-49	↓	fine grain brown, wet

Additional Notes: \_\_\_\_\_  
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