

APPENDIX C. COMPOSITING PLAN AND TISSUE PREPARATION NOTES FROM AXYS

MEMORANDUM

To: Elly Hale, EPA
 From: Windward on behalf of LDWG
 Subject: LDW pre-design studies: fish and crab compositing plan
 Date: October 13, 2017

Fish and crab were collected throughout the Lower Duwamish Waterway (LDW) from August 29 to September 5, 2017, as described in the approved quality assurance project plan (QAPP). This memorandum presents the compositing plan for the collected fish and crab for approval by the US Environmental Protection Agency (EPA). The available field data for all of the individual fish and crab, as well as maps of the fish trawls and crab traps, are provided in Attachment A.

The target and actual numbers of fish and crab collected in each reach of the LDW are summarized in Table 1. Target numbers of all species were collected, with the exception of Dungeness crab. In the QAPP, graceful crab was identified as a surrogate species for Dungeness crab. As there were very few Dungeness crabs collected, it was determined in consultation with EPA that the analysis of graceful crab composites would be necessary. Sufficient graceful crabs were collected in both reaches (Table 1).

Table 1. Target and actual numbers of target species by reach

Species ^a	Size (cm)	Reach 1		Reach 2	
		Target	Actual	Target	Actual
English sole	≥ 20 ^b	60	60 ^c	60	70
Shiner surfperch	≥ 8	90 ^d	120 ^e	90 ^d	120 ^e
Dungeness crab	≥ 9	30	1	30	8
Graceful crab (alternate species)	≥ 9	42	56 ^e	42	56 ^e

^a In addition to the target species listed, starry flounders were collected as a potential surrogate species for English sole, and sand soles were collected for archiving by King County.

^b English sole from 17 to 20 cm in length were also collected for potential inclusion if insufficient English soles ≥ 20 cm in length were collected.

^c Two English soles from the 17–20-cm group (one 19.4 and one 19.9 cm) were included, total, for Reach 1.

^d Shiner surfperch was collected within four subreaches. Each reach contains two subreaches, each with a target of 45 individuals.

^e Additional shiner surfperch and graceful crab were collected for archival.

With respect to English sole in Reach 1, the total number of individuals in the ≥ 20 -cm size class was 58. Two English soles from the 17–20-cm size class (one 19.4 and one 19.9 cm) were included in the composite samples to meet the target number of 60. The inclusion of these fish was discussed with EPA and did not affect the composite characteristics (see following section).

ENGLISH SOLE AND SHINER SURFPERCH COMPOSITES

The composites for English sole and shiner surfperch are summarized in this section. The English sole composites represent two reaches, and the shiner surfperch composites represent four subreaches, per the QAPP. The composites have been created to have comparable fish sizes (English sole and shiner surfperch) and gender compositions (English sole only). In order to represent the spatial extent of the reach or subreach, each composite contains individuals collected from different trawls distributed throughout the reach or subreach.

Six composites of 10 English sole each have been selected for both Reach 1 and Reach 2, for a total of 12 English sole composites (Table 2). The same 10 fish for each composite will be used to create both a fillet composite and a remainder composite, the latter of which will be used with the fillet composite to calculate whole-body concentrations. The average lengths and masses and gender compositions of all the composites are similar within each reach.

The English sole collected in Reach 2 were generally heavier than those collected in Reach 1. This difference is reflected in the average masses of the Reach 2 composites, which are greater than the average masses of the Reach 1 composites. Also, more male fish were collected in Reach 1, as reflected in the composite samples (Table 2).

Table 2. English sole composites

Sample ID	Individuals per Composite	Mass (g)			Length (cm)			No. of Males	No. of Females
		Min.	Max.	Average	Min.	Max.	Average		
Reach 1									
LDW17-R1-ESFL-comp01 LDW17-R1-ESRM-comp01	10	74	272	163	20.1	29.1	24.7	8	2
LDW17-R1-ESFL-comp02 LDW17-R1-ESRM-comp02	10	100	208	160	20.4	27.0	24.2	8	2
LDW17-R1-ESFL-comp03 LDW17-R1-ESRM-comp03	10	80	248	173	19.4	28.4	25.0	7	3
LDW17-R1-ESFL-comp04 LDW17-R1-ESRM-comp04	10	73	440	171	20.0	34.9	25.0	8	2
LDW17-R1-ESFL-comp05 LDW17-R1-ESRM-comp05	10	90	340	175	20.1	29.9	25.0	6	4
LDW17-R1-ESFL-comp06 LDW17-R1-ESRM-comp06	10	78	616	185	19.9	35.3	24.2	7	3
Reach 2									
LDW17-R2-ESFL-comp01 LDW17-R2-ESRM-comp01	10	108	450	224	20.9	36.8	26.6	5	5
LDW17-R2-ESFL-comp02 LDW17-R2-ESRM-comp02	10	82	456	192	20.3	33.4	25.5	6	4
LDW17-R2-ESFL-comp03 LDW17-R2-ESRM-comp03	10	103	382	220	21.4	32.0	26.8	5	5
LDW17-R2-ESFL-comp04 LDW17-R2-ESRM-comp04	10	92	536	269	20.8	36.8	27.9	4	6
LDW17-R2-ESFL-comp05 LDW17-R2-ESRM-comp05	10	80	448	227	20.4	36.0	25.7	6	4
LDW17-R2-ESFL-comp06 LDW17-R2-ESRM-comp06	10	81	749	208	20.0	40.6	25.9	5	5

Sample ID key: ESFL – English sole fillet, ESRM – English sole remainder
 ID - identification

Three composites of 15 shiner surfperch each have been selected for each of the four subreaches sampled (Table 3). The shiner surfperch composites will be homogenized to create whole-body composites for analysis. The composites for each of the subreaches are very similar in average mass and length. The shiner surfperch collected were generally similar in size among subreaches; the largest surfperch was collected in Subreach 2A and the smallest surfperch was collected in Subreach 1A.

Table 3. Shiner surfperch tissue composites

Sample ID	Individuals per Composite	Mass (g)			Length (cm)		
		Min.	Max.	Average	Min.	Max.	Average
Subreach 1A							
LDW17-1A-SSWB-comp01	15	10	26	17	9.4	12.0	10.9
LDW17-1A-SSWB-comp02	15	8	30	16	9.2	13.0	10.6
LDW17-1A-SSWB-comp03	15	8	22	15	9.6	12.0	10.5
Subreach 1B							
LDW17-1B-SSWB-comp01	15	12	34	20	9.6	13.5	11.3
LDW17-1B-SSWB-comp02	15	12	28	17	9.3	12.7	10.7
LDW17-1B-SSWB-comp03	15	8	29	17	9.3	11.8	10.7
Subreach 2A							
LDW17-2A-SSWB-comp01	15	16	48	26	11.0	15.3	12.3
LDW17-2A-SSWB-comp02	15	16	32	23	10.3	14.2	12.1
LDW17-2A-SSWB-comp03	15	10	34	22	11.2	12.8	12.0
Subreach 2B							
LDW17-2B-SSWB-comp01	15	10	26	19	10.0	12.5	11.3
LDW17-2B-SSWB-comp02	15	12	24	17	10.5	11.9	11.1
LDW17-2B-SSWB-comp03	15	14	30	19	9.8	12.8	11.1

Sample ID key: SSWB – shiner surfperch whole body
 ID – identification

CRAB COMPOSITES

Dungeness crab was the target crab species, and graceful crab was the surrogate species to be collected if there were insufficient numbers of Dungeness crab. Very few Dungeness crabs were collected, so graceful crab was used as the surrogate species.

Graceful crab are expected to be a good surrogate for Dungeness crab, based on their foraging behavior and range, and as supported by Washington Fish and Wildlife crab experts. The life expectancy for graceful crab is much shorter than for Dungeness crab (3 to 6 years as compared to 6 to 8 years) and they may differ in other ways due to physical characteristics. The degree of trophic similarity between graceful and

Dungeness crabs will be evaluated through nitrogen and carbon stable isotope analysis of the crab edible meat composite samples of both species. Stable nitrogen isotopic signatures supply information about the trophic position and diet of consumers (Peterson and Fry 1987; Fry 1988; Peterson et al. 1985), while stable carbon isotopic signatures help distinguish among food webs based on different types of primary producers, or the location where consumers feed along a salinity gradient (e.g., Stewart et al. 2004; France 1995). Stable isotope plots will be used to assess the trophic similarity between the Dungeness and graceful crabs collected in the LDW. These data will be used as a line of evidence in determining the comparability of the data from these two species.

For chemical analysis, there are two types of composites for crab: edible meat and hepatopancreas. From each of the two reaches, six graceful crab edible meat composite samples and three hepatopancreas composite samples have been selected for analysis of the analytes specified in the QAPP. The edible meat composites will each contain seven graceful crabs. The hepatopancreas composites each contain 14 graceful crabs. The results from the edible meat and hepatopancreas composite samples will be used to calculate graceful crab whole-body concentrations.

In addition to the graceful crab composites, three site-wide composites of edible meat and three site-wide composites of hepatopancreas with three Dungeness crabs each will be analyzed for PCB congeners and dioxins and furans. While not required by the QAPP, these samples are being analyzed because Dungeness crab are preferred relative to graceful crab for human consumption.

PCB congeners and dioxins and furans are the only chemicals of concern (COCs) with crab tissue target tissue levels (TTLs) for human health. Three Dungeness crabs will provide sufficient tissue mass for these analyses in both edible meat and hepatopancreas samples; the same three crabs will create an edible meat and a corresponding hepatopancreas composite sample. The eight Dungeness crabs collected from Reach 2 and the one Dungeness crab collected from Reach 1 will be combined in the composites because the crab home range is believed to be greater than a single reach based on existing data.

Crab edible meat composites are summarized in Table 4 and hepatopancreas composites are summarized in Table 5. The compositing scheme results in a balanced set of composites with respect to crab masses and lengths, and includes input from EPA regarding spatial coverage.

Table 4. Crab edible meat composites

Sample ID	Individuals per Composite	Mass (g)			Length (cm)		
		Min.	Max.	Average	Min.	Max.	Average
Graceful crabs							
Reach 1							
LDW17-R1-GCEM-comp01	7	180	265	210	95	111	101
LDW17-R1-GCEM-comp02	7	175	271	203	96	106	99
LDW17-R1-GCEM-comp03	7	169	227	195	92	103	98
LDW17-R1-GCEM-comp04	7	173	258	201	90	105	99
LDW17-R1-GCEM-comp05	7	173	238	202	94	103	98
LDW17-R1-GCEM-comp06	7	141	267	205	90	109	100
Reach 2							
LDW17-R2-GCEM-comp01	7	157	212	183	93	103	96
LDW17-R2-GCEM-comp02	7	164	220	182	92	108	97
LDW17-R2-GCEM-comp03	7	137	244	188	93	107	100
LDW17-R2-GCEM-comp04	7	139	252	184	93	108	99
LDW17-R2-GCEM-comp05	7	146	290	184	93	100	96
LDW17-R2-GCEM-comp06	7	149	222	185	91	105	99
Dungeness crabs							
LDW17-DCEM-comp01	3	296	832	636	125	184	162
LDW17-DCEM-comp02	3	538	728	640	156	175	168
LDW17-DCEM-comp03	3	580	893	689	161	184	170

Sample ID key: GCEM – graceful crab edible meat, DCEM – Dungeness crab edible meat
 ID – identification

Table 5. Crab hepatopancreas composites

Sample ID	Count	Mass (g)			Length (cm)		
		Min.	Max.	Average	Min.	Max.	Average
Graceful crabs							
Reach 1							
LDW17-R1-GCHP-comp01	14	175	271	207	9.5	11.1	9.9
LDW17-R1-GCHP-comp02	14	169	258	198	9.2	10.5	9.8
LDW17-R1-GCHP-comp03	14	141	267	203	9.0	10.9	9.9
Reach 2							
LDW17-R2-GCHP-comp01	14	157	220	182	9.2	10.8	9.7
LDW17-R2-GCHP-comp02	14	137	252	186	9.3	10.8	9.9
LDW17-R2-GCHP-comp03	14	146	222	184	9.1	10.5	9.7
Dungeness crabs							
LDW17-DCHP-comp01	3	296	832	636	125	184	162
LDW17-DCHP-comp02	3	538	728	640	156	175	168
LDW17-DCHP-comp03	3	580	893	689	161	184	170

Bold indicates Dungeness crab samples.

Sample ID key: GCHP – graceful crab hepatopancreas, DCHP – Dungeness crab hepatopancreas
ID – identification

Lower Duwamish Waterway Fish and Crab Tissue Homogenization.

Revised 18-Jan-2018 to include a page of the original chain of custody that was inadvertently omitted from the data package.

Revised 07-Dec-2017 to correct the client sample IDs for SGS-AXYS samples L28215-34 through L28215-38. These corrections were made to the table below, the SGS-AXYS sample login report and in the LIMS system so that all data reported will reflect the corrected sample IDs documented here.

Revised 05-Dec-2017 to include the documentation for the Shiner surf perch (L28215-28 to L28215-39). These were inadvertently omitted from the original submission.

All samples were received frozen and maintained frozen prior to and after homogenization. See sample receiving documents for details.

Samples were processed (composited and homogenized) following SGS-AXYS' SOPs, and the Lower Duwamish Waterway Group Baseline Fish and Crab Tissue Collection and Chemical Analyses - Quality Assurance Project Plan. Key to this was the requirement to prepare the fillet composites, carcass remainder composites and whole fish composites by taking equal portions of each of the individual specimens. Crab and hepatopancreas composites did not require equal portions of the individuals. All weights, dates of processing, equipment used and subsamples prepared are documented in the records in this package.

Samples were received as whole specimens. Fillet and remainder samples and crab edible meat and hepatopancreas samples were created during homogenization. Each composite was logged into the laboratory system as follows:

Client ID	SGS-Axys ID	Sample Type
LDW17-R1-ESFL-comp01	L28215-1	English sole fillet
LDW17-R1-ESFL-comp02	L28215-2	English sole fillet
LDW17-R1-ESFL-comp03	L28215-3	English sole fillet
LDW17-R1-ESFL-comp04	L28215-4	English sole fillet
LDW17-R1-ESFL-comp05	L28215-5	English sole fillet
LDW17-R1-ESFL-comp06	L28215-6	English sole fillet
LDW17-R2-ESFL-comp01	L28215-7	English sole fillet
LDW17-R2-ESFL-comp02	L28215-8	English sole fillet
LDW17-R2-ESFL-comp03	L28215-9	English sole fillet
LDW17-R2-ESFL-comp04	L28215-10	English sole fillet
LDW17-R2-ESFL-comp05	L28215-11	English sole fillet
LDW17-R2-ESFL-comp06	L28215-12	English sole fillet
LDW17-R1-GCEM-comp01	L28215-13	Graceful crab edible meat
LDW17-R1-GCEM-comp02	L28215-14	Graceful crab edible meat
LDW17-R1-GCEM-comp03	L28215-15	Graceful crab edible meat
LDW17-R1-GCEM-comp04	L28215-16	Graceful crab edible meat
LDW17-R1-GCEM-comp05	L28215-17	Graceful crab edible meat
LDW17-R1-GCEM-comp06	L28215-18	Graceful crab edible meat
LDW17-R2-GCEM-comp01	L28215-19	Graceful crab edible meat

LDW17-R2-GCEM-comp02	L28215-20	Graceful crab edible meat
LDW17-R2-GCEM-comp03	L28215-21	Graceful crab edible meat
LDW17-R2-GCEM-comp04	L28215-22	Graceful crab edible meat
LDW17-R2-GCEM-comp05	L28215-23	Graceful crab edible meat
LDW17-R2-GCEM-comp06	L28215-24	Graceful crab edible meat
LDW17-DCEM-comp01	L28215-25	Dungeness crab edible meat
LDW17-DCEM-comp02	L28215-26	Dungeness crab edible meat
LDW17-DCEM-comp03	L28215-27	Dungeness crab edible meat
LDW17-R1a-SS-comp01	L28215-28	Shiner surf perch whole body
LDW17-R1a-SS-comp02	L28215-29	Shiner surf perch whole body
LDW17-R1a-SS-comp03	L28215-30	Shiner surf perch whole body
LDW17-R1b-SS-comp01	L28215-31	Shiner surf perch whole body
LDW17-R1b-SS-comp02	L28215-32	Shiner surf perch whole body
LDW17-R1b-SS-comp03	L28215-33	Shiner surf perch whole body
LDW17-R2b-SS-comp01	L28215-34	Shiner surf perch whole body
LDW17-R2b-SS-comp02	L28215-35	Shiner surf perch whole body
LDW17-R2a-SS-comp01	L28215-36	Shiner surf perch whole body
LDW17-R2a-SS-comp02	L28215-37	Shiner surf perch whole body
LDW17-R2a-SS-comp03	L28215-38	Shiner surf perch whole body
LDW17-R2b-SS-comp03	L28215-39	Shiner surf perch whole body
R2-GC-bag1	L28215-40	unused
R2-GC-bag2	L28215-41	unused
R2-GC-bag3	L28215-42	unused
R2-GC-bag4	L28215-43	unused
LDW17-R1-ESRM-comp01	L28258-1	English sole remainder
LDW17-R1-ESRM-comp02	L28258-2	English sole remainder
LDW17-R1-ESRM-comp03	L28258-3	English sole remainder
LDW17-R1-ESRM-comp04	L28258-4	English sole remainder
LDW17-R1-ESRM-comp05	L28258-5	English sole remainder
LDW17-R1-ESRM-comp06	L28258-6	English sole remainder
LDW17-R2-ESRM-comp01	L28258-7	English sole remainder
LDW17-R2-ESRM-comp02	L28258-8	English sole remainder
LDW17-R2-ESRM-comp03	L28258-9	English sole remainder
LDW17-R2-ESRM-comp04	L28258-10	English sole remainder
LDW17-R2-ESRM-comp05	L28258-11	English sole remainder
LDW17-R2-ESRM-comp06	L28258-12	English sole remainder
LDW17-R1-GCHP-comp01	L28417-1	Graceful crab hepatopancreas
LDW17-R1-GCHP-comp02	L28417-2	Graceful crab hepatopancreas
LDW17-R1-GCHP-comp03	L28417-3	Graceful crab hepatopancreas
LDW17-R2-GCHP-comp01	L28417-4	Graceful crab hepatopancreas
LDW17-R2-GCHP-comp02	L28417-5	Graceful crab hepatopancreas
LDW17-R2-GCHP-comp03	L28417-6	Graceful crab hepatopancreas
LDW17-DCHP-comp01	L28417-7	Dungeness crab hepatopancreas
LDW17-DCHP-comp02	L28417-8	Dungeness crab hepatopancreas
LDW17-DCHP-comp03	L28417-9	Dungeness crab hepatopancreas

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CHAIN-OF-CUSTODY/TEST REQUEST FORM

4033

Project/Client Name: AOC3 Fish/Crab Tissue
 Project Number: Task 4
 Contact Name: Amara Vandervort
 Sampled By: TD, KM, NM, JR, and MY

Ship to: Axys No. AOC3 2017-0020
 Attn: Georgina Brooks Shipping Date: 9/25/17
 Shipper: Courier Airbill Number: N/A
 Form filled out by: A. Vandervort Turnaround requested: Standard

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)						Comments / Instructions [Composite/Bag ID]
					Dissection and Homogenization						
8/31/2017	8:45	LDW17-R1-ES090 ✓	1	Tissue	x						1-ES-comp1 L28215-1
9/1/2017	8:34	LDW17-R1-ES130 ✓	1	Tissue	x						1-ES-comp1 -1
8/31/2017	12:51	LDW17-R1-ES103 ✓	1	Tissue	x						1-ES-comp1 -1
8/31/2017	8:45	LDW17-R1-ES084 ✓	1	Tissue	x						1-ES-comp1 -1
8/31/2017	13:26	LDW17-R1-ES110 ✓	1	Tissue	x						1-ES-comp1 -1
8/31/2017	8:45	LDW17-R1-ES095 ✓	1	Tissue	x						1-ES-comp1 -1
9/1/2017	11:55	LDW17-R1-ES142 ✓	1	Tissue	x						1-ES-comp1 -1
8/31/2017	13:47	LDW17-R1-ES122 ✓	1	Tissue	x						1-ES-comp1 -1
8/31/2017	9:49	LDW17-R1-ES098 ✓	1	Tissue	x						1-ES-comp1 -1
8/31/2017	8:45	LDW17-R1-ES087 ✓	1	Tissue	x						1-ES-comp1 -1
Total Number of Containers			10	Purchase Order / Statement of Work # PO 2017-0020							
1) Released by: <u>Amara Vandervort</u> Print name: <u>Amara Vandervort</u> Signature: <u>[Signature]</u> Company: <u>Windward</u> Date/Time: <u>9/25/17</u>			1) Rec'd by: <u>[Signature]</u> Company: <u>SGS AXYS</u> Date/Time: <u>26-Sep-2017 11:05</u>			2) Released by:			2) Rec'd by:		
						Print name:			Company:		
						Signature:			Date/Time:		
						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:

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CHAIN-OF-CUSTODY/TEST REQUEST FORM

4033

Project/Client Name: AOC3 Fish/Crab Tissue Ship to: Axys No. AOC3 2017-0020
 Project Number: Task 4 Attn: Georgina Brooks Shipping Date: 9/25/17
 Contact Name: Amara Vandervort Shipper: Courier Airbill Number: N/A
 Sampled By: TD, KM, NM, JR, and MY Form filled out by: A. Vandervort Turnaround requested: Standard

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)						Comments / Instructions [Composite/Bag ID]
					Dissection and Homogenization						
8/31/2017	13:47	LDW17-R1-ES121 ✓	1	Tissue	x						1-ES-comp2 L28215-2
8/31/2017	13:26	LDW17-R1-ES111 ✓	1	Tissue	x						1-ES-comp2 -2
8/30/2017	14:00	LDW17-R1-ES071 ✓	1	Tissue	x						1-ES-comp2 -2
8/31/2017	8:45	LDW17-R1-ES096 ✓	1	Tissue	x						1-ES-comp2 -2
8/31/2017	8:45	LDW17-R1-ES094 ✓	1	Tissue	x						1-ES-comp2 -2
9/1/2017	8:34	LDW17-R1-ES132 ✓	1	Tissue	x						1-ES-comp2 -2
9/1/2017	10:37	LDW17-R1-ES139 ✓	1	Tissue	x						1-ES-comp2 -2
9/1/2017	8:34	LDW17-R1-ES131 ✓	1	Tissue	x						1-ES-comp2 -2
8/31/2017	10:42	LDW17-R1-ES100 ✓	1	Tissue	x						1-ES-comp2 -2
8/31/2017	12:51	LDW17-R1-ES102 ✓	1	Tissue	x						1-ES-comp2 -2
Total Number of Containers			10	Purchase Order / Statement of Work # PO 2017-0020							
1) Released by: <u>Amara Vandervort</u> Print name: <u>Amara Vandervort</u> Signature: <u>[Signature]</u> Company: <u>Woodward</u> Date/Time: <u>9/26/17</u>			1) Rec'd by: <u>[Signature]</u> Company: <u>SGS AXYS</u> Date/Time: <u>26-Sep-2017</u>			2) Released by:			2) Rec'd by:		
						Print name:			Company:		
						Signature:			Date/Time:		
						Company:			Date/Time:		

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



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 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:

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4033

Project/Client Name: AOC3 Fish/Crab Tissue
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Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)						Comments / Instructions [Composite/Bag ID]
					Dissection and Homogenization						
8/31/2017	8:45	LDW17-R1-ES088 /	1	Tissue	x						1-ES-comp3 L28215-3
9/1/2017	8:34	LDW17-R1-ES129 /	1	Tissue	x						1-ES-comp3 -3
8/31/2017	13:47	LDW17-R1-ES118 /	1	Tissue	x						1-ES-comp3 -3
8/31/2017	13:47	LDW17-R1-ES116 /	1	Tissue	x						1-ES-comp3 -3
9/1/2017	8:34	LDW17-R1-ES125 /	1	Tissue	x						1-ES-comp3 -3
8/30/2017	14:00	LDW17-R1-ES073 /	1	Tissue	x						1-ES-comp3 -3
8/31/2017	8:45	LDW17-R1-ES092 /	1	Tissue	x						1-ES-comp3 -3
8/31/2017	8:45	LDW17-R1-ES091 /	1	Tissue	x						1-ES-comp3 -3
8/31/2017	13:47	LDW17-R1-ES113 /	1	Tissue	x						1-ES-comp3 -3
9/1/2017	10:37	LDW17-R1-ES138 /	1	Tissue	x						1-ES-comp3 -3
			1	Tissue	x						
			1	Tissue	x						
Total Number of Containers			10	Purchase Order / Statement of Work # PO 2017-0020							

1) Released by: Print name: <u>A. Vandervort</u> Signature: <u>[Signature]</u> Company: <u>Windward</u> Date/Time: <u>9/26/17</u>	1) Rec'd by: [Signature] Company: <u>SGS AXYS</u> Date/Time: <u>26-Sep-2017 11:05</u>	2) Released by: Print name: Signature: Company: Date/Time:	2) Rec'd by: Company: Date/Time:
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Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

4 of 43

CHAIN-OF-CUSTODY/TEST REQUEST FORM

4033

Project/Client Name: AOC3 Fish/Crab Tissue
 Project Number: Task 4
 Contact Name: Amara Vandervort
 Sampled By: TD, KM, NM, JR, and MY

Ship to: Axys No. AOC3 2017-0020
 Attn: Georgina Brooks Shipping Date: 9/25/17
 Shipper: Courier Airbill Number: N/A
 Form filled out by: A. Vandervort Turnaround requested: Standard

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)						Comments / Instructions [Composite/Bag ID]
					Dissection and Homogenization						
8/31/2017	8:45	LDW17-R1-ES080 ✓	1	Tissue	x						1-ES-comp4 L28215-4
9/1/2017	10:37	LDW17-R1-ES141 ✓	1	Tissue	x						1-ES-comp4 -4
9/1/2017	8:34	LDW17-R1-ES128 ✓	1	Tissue	x						1-ES-comp4 -4
8/31/2017	8:45	LDW17-R1-ES093 ✓	1	Tissue	x						1-ES-comp4 -4
8/31/2017	8:45	LDW17-R1-ES086 ✓	1	Tissue	x						1-ES-comp4 -4
8/31/2017	13:26	LDW17-R1-ES108 ✓	1	Tissue	x						1-ES-comp4 -4
8/31/2017	13:47	LDW17-R1-ES124 ✓	1	Tissue	x						1-ES-comp4 -4
8/31/2017	10:42	LDW17-R1-ES101 ✓	1	Tissue	x						1-ES-comp4 -4
8/31/2017	9:49	LDW17-R1-ES099 ✓	1	Tissue	x						1-ES-comp4 -4
8/31/2017	13:47	LDW17-R1-ES117 ✓	1	Tissue	x						1-ES-comp4 -4
Total Number of Containers			10	Purchase Order / Statement of Work # PO 2017-0020							
1) Released by: Print name: <u>A. Vandervort</u> Signature: <u>[Signature]</u> Company: <u>Windward</u> Date/Time: <u>9/26/17</u>			1) Rec'd by: <u>[Signature]</u> Company: <u>SGS AXYS</u> Date/Time: <u>26-Sep-2017 11:05</u>			2) Released by: Print name: Signature: Company: Date/Time:			2) Rec'd by: Company: Date/Time:		

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CHAIN-OF-CUSTODY/TEST REQUEST FORM

4033

Project/Client Name: AOC3 Fish/Crab Tissue
 Project Number: Task 4
 Contact Name: Amara Vandervort
 Sampled By: TD, KM, NM, JR, and MY

Ship to: Axys No. AOC3 2017-0020
 Attn: Georgina Brooks Shipping Date: 9/25/17
 Shipper: Courier Airbill Number: N/A
 Form filled out by: A. Vandervort Turnaround requested: Standard

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)						Comments / Instructions [Composite/Bag ID]
					Dissection and Homogenization						
8/31/2017	8:45	LDW17-R1-ES081 /	1	Tissue	x						1-ES-comp5 L28215-5
8/30/2017	14:00	LDW17-R1-ES072 /	1	Tissue	x						1-ES-comp5 -5
8/31/2017	8:45	LDW17-R1-ES097 /	1	Tissue	x						1-ES-comp5 -5
8/31/2017	13:47	LDW17-R1-ES119 /	1	Tissue	x						1-ES-comp5 -5
8/31/2017	8:45	LDW17-R1-ES082 /	1	Tissue	x						1-ES-comp5 -5
9/1/2017	8:34	LDW17-R1-ES127 /	1	Tissue	x						1-ES-comp5 -5
8/31/2017	13:26	LDW17-R1-ES109 /	1	Tissue	x						1-ES-comp5 -5
8/31/2017	8:45	LDW17-R1-ES085 /	1	Tissue	x						1-ES-comp5 -5
9/1/2017	10:37	LDW17-R1-ES140 /	1	Tissue	x						1-ES-comp5 -5
8/31/2017	8:45	LDW17-R1-ES089 /	1	Tissue	x						1-ES-comp5 -5

Total Number of Containers 10 Purchase Order / Statement of Work # PO 2017-0020

1) Released by: Print name: <u>A Vandervort</u> Signature: <u>[Signature]</u> Company: <u>Windward</u> Date/Time: <u>9/26/17</u>	1) Rec'd by: [Signature] Company: <u>SGS-AXYS</u> Date/Time: <u>26-Sep-2017 11:05</u>	2) Released by: Print name: Signature: Company: Date/Time:	2) Rec'd by: Company: Date/Time:
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CHAIN-OF-CUSTODY/TEST REQUEST FORM

4033

Project/Client Name: AOC3 Fish/Crab Tissue
 Project Number: Task 4
 Contact Name: Amara Vandervort
 Sampled By: TD, KM, NM, JR, and MY

Ship to: Axys No. AOC3 2017-0020
 Attn: Georgina Brooks Shipping Date: 9/25/17
 Shipper: Courier Airbill Number: N/A
 Form filled out by: A. Vandervort Turnaround requested: Standard

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)						Comments / Instructions [Composite/Bag ID]
					Dissection and Homogenization						
9/1/2017	11:55	LDW17-R1-ES144 ✓	1	Tissue	x						1-ES-comp6 L28215-6
9/1/2017	10:37	LDW17-R1-ES136 ✓	1	Tissue	x						1-ES-comp6 -6
8/31/2017	13:47	LDW17-R1-ES120 ✓	1	Tissue	x						1-ES-comp6 -6
9/1/2017	8:34	LDW17-R1-ES133 ✓	1	Tissue	x						1-ES-comp6 -6
9/1/2017	8:34	LDW17-R1-ES134 ✓	1	Tissue	x						1-ES-comp6 -6
8/31/2017	13:47	LDW17-R1-ES123 ✓	1	Tissue	x						1-ES-comp6 -6
9/1/2017	9:48	LDW17-R1-ES135 ✓	1	Tissue	x						1-ES-comp6 -6
9/1/2017	11:55	LDW17-R1-ES143 ✓	1	Tissue	x						1-ES-comp6 -6
9/1/2017	10:37	LDW17-R1-ES137 ✓	1	Tissue	x						1-ES-comp6 -6
9/1/2017	8:34	LDW17-R1-ES126 ✓	1	Tissue	x						1-ES-comp6 -6
Total Number of Containers			10	Purchase Order / Statement of Work # PO 2017-0020							

1) Released by: Print name: <u>A Vandervort</u> Signature: <u>[Signature]</u> Company: <u>Windward</u> Date/Time: <u>9/26/17</u>	1) Rec'd by: <u>[Signature]</u> Company: <u>SGS-AXYS</u> Date/Time: <u>26-Sep-2017 11:05</u>	2) Released by: Print name: Signature: Company: Date/Time:	2) Rec'd by: Company: Date/Time:
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CHAIN-OF-CUSTODY/TEST REQUEST FORM

4033

Project/Client Name: AOC3 Fish/Crab Tissue
 Project Number: Task 4
 Contact Name: Amara Vandervort
 Sampled By: TD, KM, NM, JR, and MY

Ship to: Axys No. AOC3 2017-0020
 Attn: Georgina Brooks Shipping Date: 9/25/17
 Shipper: Courier Airbill Number: N/A
 Form filled out by: A. Vandervort Turnaround requested: Standard

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)						Comments / Instructions [Composite/Bag ID]
					Dissection and Homogenization						
8/29/2017	10:15	LDW17-R2-ES007 ✓	1	Tissue	x						2-ES-comp1 (Bag 1) <u>L28215-7</u>
8/30/2017	11:47	LDW17-R2-ES067 ✓	1	Tissue	x						2-ES-comp1 (Bag 2) <u>-7</u>
9/1/2017	13:31	LDW17-R2-ES152 ✓	1	Tissue	x						2-ES-comp1 (Bag 1) <u>-7</u>
8/30/2017	9:25	LDW17-R2-ES048 ✓	1	Tissue	x						2-ES-comp1 (Bag 2) <u>-7</u>
8/30/2017	8:50	LDW17-R2-ES041 ✓	1	Tissue	x						2-ES-comp1 (Bag 2) <u>-7</u>
8/30/2017	11:19	LDW17-R2-ES058 ✓	1	Tissue	x						2-ES-comp1 (Bag 2) <u>-7</u>
8/30/2017	9:25	LDW17-R2-ES052 ✓	1	Tissue	x						2-ES-comp1 (Bag 2) <u>-7</u>
8/29/2017	10:15	LDW17-R2-ES014 ✓	1	Tissue	x						2-ES-comp1 (Bag 1) <u>-7</u>
8/30/2017	12:56	LDW17-R2-ES068 ✓	1	Tissue	x						2-ES-comp1 (Bag 2) <u>-7</u>
8/29/2017	13:54	LDW17-R2-ES030 ✓	1	Tissue	x						2-ES-comp1 (Bag 1) <u>-7</u>

Total Number of Containers 10 Purchase Order / Statement of Work # PO 2017-0020

1) Released by: Print name: <u>A. Vandervort</u> Signature: <u>[Signature]</u> Company: <u>Windward</u> Date/Time: <u>9/26/17</u>	1) Rec'd by: <u>[Signature]</u> Company: <u>SGS AXYS</u> Date/Time: <u>26-Sep-2017 11:05</u>	2) Released by: Print name: Signature: Company: Date/Time:	2) Rec'd by: Company: Date/Time:
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CHAIN-OF-CUSTODY/TEST REQUEST FORM

4033

Project/Client Name: AOC3 Fish/Crab Tissue
 Project Number: Task 4
 Contact Name: Amara Vandervort
 Sampled By: TD, KM, NM, JR, and MY

Ship to: Axys No. AOC3 2017-0020
 Attn: Georgina Brooks Shipping Date: 9/25/17
 Shipper: Courier Airbill Number: N/A
 Form filled out by: A. Vandervort Turnaround requested: Standard

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)						Comments / Instructions [Composite/Bag ID]
					Dissection and Homogenization						
8/29/2017	13:54	LDW17-R2-ES026 ✓	1	Tissue	x						2-ES-comp2 (Bag 1) 28215-8
9/1/2017	13:31	LDW17-R2-ES148 ✓	1	Tissue	x						2-ES-comp2 (Bag 1) -8
8/29/2017	10:15	LDW17-R2-ES016 ✓	1	Tissue	x						2-ES-comp2 (Bag 1) -8
8/29/2017	9:14	LDW17-R2-ES005 ✓	1	Tissue	x						2-ES-comp2 (Bag 1) -8
8/29/2017	13:54	LDW17-R2-ES032 ✓	1	Tissue	x						2-ES-comp2 (Bag 1) -8
8/30/2017	10:03	LDW17-R2-ES055 ✓	1	Tissue	x						2-ES-comp2 (Bag 2) -8
8/29/2017	9:14	LDW17-R2-ES002 ✓	1	Tissue	x						2-ES-comp2 (Bag 1) -8
8/30/2017	11:19	LDW17-R2-ES061 ✓	1	Tissue	x						2-ES-comp2 (Bag 2) -8
8/30/2017	11:19	LDW17-R2-ES060 ✓	1	Tissue	x						2-ES-comp2 (Bag 2) -8
8/30/2017	10:03	LDW17-R2-ES056 ✓	1	Tissue	x						2-ES-comp2 (Bag 2) -8

Total Number of Containers 10 Purchase Order / Statement of Work # PO 2017-0020

1) Released by: Print name: <u>A. Vandervort</u> Signature: <u>[Signature]</u> Company: <u>Windward</u> Date/Time: <u>9/26/17</u>	1) Rec'd by: [Signature] Company: <u>SGS AXYS</u> Date/Time: <u>26-Sep-2017 11:05</u>	2) Released by: Print name: Signature: Company: Date/Time:	2) Rec'd by: Print name: Signature: Company: Date/Time:
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CHAIN-OF-CUSTODY/TEST REQUEST FORM

4033

Project/Client Name: AOC3 Fish/Crab Tissue
 Project Number: Task 4
 Contact Name: Amara Vandervort
 Sampled By: TD, KM, NM, JR, and MY

Ship to: Axys No. AOC3 2017-0020
 Attn: Georgina Brooks Shipping Date: 9/25/17
 Shipper: Courier Airbill Number: N/A
 Form filled out by: A. Vandervort Turnaround requested: Standard

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)						Comments / Instructions [Composite/Bag ID]
					Dissection and Homogenization						
9/1/2017	13:31	LDW17-R2-ES147 /	1	Tissue	x						2-ES-comp3 (Bag 2) <i>L28215-9</i>
8/29/2017	14:21	LDW17-R2-ES035 /	1	Tissue	x						2-ES-comp3 (Bag 1) <i>-9</i>
8/30/2017	8:50	LDW17-R2-ES039 /	1	Tissue	x						2-ES-comp3 (Bag 2) <i>-9</i>
8/30/2017	10:03	LDW17-R2-ES057 /	1	Tissue	x						2-ES-comp3 (Bag 2) <i>-9</i>
8/29/2017	11:50	LDW17-R2-ES018 /	1	Tissue	x						2-ES-comp3 (Bag 1) <i>-9</i>
8/29/2017	13:18	LDW17-R2-ES022 /	1	Tissue	x						2-ES-comp3 (Bag 1) <i>-9</i>
8/30/2017	11:47	LDW17-R2-ES064 /	1	Tissue	x						2-ES-comp3 (Bag 2) <i>-9</i>
8/29/2017	12:32	LDW17-R2-ES019 /	1	Tissue	x						2-ES-comp3 (Bag 1) <i>-9</i>
8/30/2017	9:25	LDW17-R2-ES047 /	1	Tissue	x						2-ES-comp3 (Bag 2) <i>-9</i>
8/29/2017	14:21	LDW17-R2-ES034 /	1	Tissue	x						2-ES-comp3 (Bag 1) <i>-9</i>

Total Number of Containers 10 Purchase Order / Statement of Work # PO 2017-0020

1) Released by: Print name: <i>A. Vandervort</i> Signature: <i>[Signature]</i> Company: <i>Windward</i> Date/Time: <i>9/26/17</i>	1) Rec'd by: <i>[Signature]</i> Company: <i>SGS AXYS</i> Date/Time: <i>26-Sep-2017 11:05</i>	2) Released by: Print name: Signature: Company: Date/Time:	2) Rec'd by: Company: Date/Time:
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CHAIN-OF-CUSTODY/TEST REQUEST FORM

4033

Project/Client Name: AOC3 Fish/Crab Tissue
 Project Number: Task 4
 Contact Name: Amara Vandervort
 Sampled By: TD, KM, NM, JR, and MY

Ship to: Axys No. AOC3 2017-0020
 Attn: Georgina Brooks Shipping Date: 9/25/17
 Shipper: Courier Airbill Number: N/A
 Form filled out by: A. Vandervort Turnaround requested: Standard

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)						Comments / Instructions [Bag ID]
					Dissection and Homogenization						
8/29/2017	13:54	LDW17-R2-ES027 ✓	1	Tissue	x						2-ES-comp4 (Bag 1) <u>L28215-10</u>
8/30/2017	9:25	LDW17-R2-ES054 ✓	1	Tissue	x						2-ES-comp4 (Bag 1) <u>-10</u>
8/29/2017	10:15	LDW17-R2-ES011 ✓	1	Tissue	x						2-ES-comp4 (Bag 1) <u>-10</u>
8/29/2017	12:58	LDW17-R2-ES021 ✓	1	Tissue	x						2-ES-comp4 (Bag 1) <u>-10</u>
9/1/2017	13:05	LDW17-R2-ES145 ✓	1	Tissue	x						2-ES-comp4 (Bag 2) <u>-10</u>
8/30/2017	11:19	LDW17-R2-ES059 ✓	1	Tissue	x						2-ES-comp4 (Bag 1) <u>-10</u>
9/1/2017	13:31	LDW17-R2-ES154 ✓	1	Tissue	x						2-ES-comp4 (Bag 2) <u>-10</u>
8/30/2017	8:50	LDW17-R2-ES042 ✓	1	Tissue	x						2-ES-comp4 (Bag 2) <u>-10</u>
8/30/2017	12:56	LDW17-R2-ES069 ✓	1	Tissue	x						2-ES-comp4 (Bag 2) <u>-10</u>
9/1/2017	13:31	LDW17-R2-ES146 ✓	1	Tissue	x						2-ES-comp4 (Bag 2) <u>-10</u>

Total Number of Containers 10 **Purchase Order / Statement of Work #** PO 2017-0020

1) Released by: Print name: <u>A. Vandervort</u> Signature: <u>[Signature]</u> Company: <u>Windward</u> Date/Time: <u>9/26/17</u>	1) Rec'd by: [Signature] Company: <u>SGS AXYS</u> Date/Time: <u>26-Sep-2017 11:05</u>	2) Released by: Print name: Signature: Company: Date/Time:	2) Rec'd by: Company: Date/Time:
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Cooler temperature:	Received by:

CHAIN-OF-CUSTODY/TEST REQUEST FORM

4033

Project/Client Name: AOC3 Fish/Crab Tissue
 Project Number: Task 4
 Contact Name: Amara Vandervort
 Sampled By: TD, KM, NM, JR, and MY

Ship to: Axys No. AOC3 2017-0020
 Attn: Georgina Brooks Shipping Date: 9/25/17
 Shipper: Courier Airbill Number: N/A
 Form filled out by: A. Vandervort Turnaround requested: Standard

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)						Comments / Instructions [Composite/Bag ID]
					Dissection and Homogenization						
8/30/2017	8:50	LDW17-R2-ES038 ✓	1	Tissue	x						2-ES-comp5 (Bag 1) / 28215-11
8/30/2017	11:19	LDW17-R2-ES062 ✓	1	Tissue	x						2-ES-comp5 (Bag 1) -11
8/29/2017	9:14	LDW17-R2-ES006 ✓	1	Tissue	x						2-ES-comp5 (Bag 1) -11
8/30/2017	8:50	LDW17-R2-ES037 ✓	1	Tissue	x						2-ES-comp5 (Bag 1) -11
9/1/2017	13:31	LDW17-R2-ES153 ✓	1	Tissue	x						2-ES-comp5 (Bag 2) -11
8/30/2017	11:47	LDW17-R2-ES066 ✓	1	Tissue	x						2-ES-comp5 (Bag 2) -11
8/29/2017	9:14	LDW17-R2-ES001 ✓	1	Tissue	x						2-ES-comp5 (Bag 1) -11
8/30/2017	9:25	LDW17-R2-ES053 ✓	1	Tissue	x						2-ES-comp5 (Bag 2) -11
9/1/2017	13:31	LDW17-R2-ES150 ✓	1	Tissue	x						2-ES-comp5 (Bag 2) -11
8/29/2017	13:54	LDW17-R2-ES031 ✓	1	Tissue	x						2-ES-comp5 (Bag 1) -11

Total Number of Containers 10 Purchase Order / Statement of Work # PO 2017-0020

1) Released by: Print name: <u>A. Vandervort</u> Signature: <u>[Signature]</u> Company: <u>Windward</u> Date/Time: <u>9/26/17</u>	1) Rec'd by: [Signature] Company: <u>SGS AXYS</u> Date/Time: <u>26-Sep-2017 11:05</u>	2) Released by: Print name: Signature: Company: Date/Time:	2) Rec'd by: Company: Date/Time:
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CHAIN-OF-CUSTODY/TEST REQUEST FORM

4033

Project/Client Name: AOC3 Fish/Crab Tissue
 Project Number: Task 4
 Contact Name: Amara Vandervort
 Sampled By: TD, KM, NM, JR, and MY

Ship to: Axys No. AOC3 2017-0020
 Attn: Georgina Brooks Shipping Date: 9/25/17
 Shipper: Courier Airbill Number: N/A
 Form filled out by: A. Vandervort Turnaround requested: Standard

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)						Comments / Instructions [Composite/Bag ID]
					Dissection and Homogenization						
8/29/2017	10:15	LDW17-R2-ES009 ✓	1	Tissue	x						2-ES-comp6 (Bag 1) / 28215-12
8/29/2017	14:21	LDW17-R2-ES036 ✓	1	Tissue	x						2-ES-comp6 (Bag 1) -12
8/29/2017	9:14	LDW17-R2-ES003 ✓	1	Tissue	x						2-ES-comp6 (Bag 1) -12
8/30/2017	9:25	LDW17-R2-ES045 ✓	1	Tissue	x						2-ES-comp6 (Bag 1) -12
8/29/2017	10:15	LDW17-R2-ES012 ✓	1	Tissue	x						2-ES-comp6 (Bag 1) -12
8/29/2017	13:54	LDW17-R2-ES025 ✓	1	Tissue	x						2-ES-comp6 (Bag 1) -12
8/29/2017	10:15	LDW17-R2-ES008 ✓	1	Tissue	x						2-ES-comp6 (Bag 1) -12
8/30/2017	9:25	LDW17-R2-ES051 ✓	1	Tissue	x						2-ES-comp6 (Bag 2) -12
9/1/2017	13:31	LDW17-R2-ES151 ✓	1	Tissue	x						2-ES-comp6 (Bag 2) -12
8/29/2017	13:54	LDW17-R2-ES028 ✓	1	Tissue	x						2-ES-comp6 (Bag 1) -12

Total Number of Containers

10

Purchase Order / Statement of Work # PO 2017-0020

1) Released by: Print name: <u>A. Vandervort</u> Signature: <u>[Signature]</u> Company: <u>Windward</u> Date/Time: <u>9/26/17</u>	1) Rec'd by: [Signature] Company: <u>SGS AXYS</u> Date/Time: <u>26-Sep-2017 11:05</u>	2) Released by: Print name: Signature: Company: Date/Time:	2) Rec'd by: Company: Date/Time:
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* Distribution: White copies accompany shipment; yellow retained by consignor.



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 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:

CHAIN-OF-CUSTODY/TEST REQUEST FORM

4033

Project/Client Name: AOC3 Fish/Crab Tissue
 Project Number: Task 4
 Contact Name: Amara Vandervort
 Sampled By: TD, KM, NM, JR, and MY

Ship to: Axys No. AOC3 2017-0020
 Attn: Georgina Brooks Shipping Date: 9/25/17
 Shipper: Courier Airbill Number: N/A
 Form filled out by: A. Vandervort Turnaround requested: Standard

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)						Comments / Instructions [Composite/Bag ID]
					Dissection and Homogenization						
8/31/2017	13:28	LDW17-R1-GC054	1	Tissue	x						1-GC-comp1 (Bag 2) / 28215-13
8/31/2017	9:49	LDW17-R1-GC029	1	Tissue	x						1-GC-comp1 (Bag 1) -13
9/1/2017	8:34	LDW17-R1-GC076	1	Tissue	x						1-GC-comp1 (Bag 1) -13
8/31/2017	12:51	LDW17-R1-GC051	1	Tissue	x						1-GC-comp1 (Bag 1) -13
8/31/2017	8:45	LDW17-R1-GC027	1	Tissue	x						1-GC-comp1 (Bag 1) -13
8/31/2017	15:38	LDW17-R1-GC066	1	Tissue	x						1-GC-comp1 (Bag 2) -13
9/1/2017	8:34	LDW17-R1-GC072	1	Tissue	x						1-GC-comp1 (Bag 1) -13
Total Number of Containers			7	Purchase Order / Statement of Work # PO 2017-0020							

1) Released by: <u>A. Vandervort</u> Print name: <u>A. Vandervort</u> Signature: <u>[Signature]</u> Company: <u>Windward</u> Date/Time: <u>9/26/17</u>	1) Rec'd by: <u>[Signature]</u> Company: <u>SGS AXYS</u> Date/Time: <u>26-Sep-2017 11:05</u>	2) Released by: Print name: Signature: Company: Date/Time:	2) Rec'd by: Company: Date/Time:
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CHAIN-OF-CUSTODY/TEST REQUEST FORM

4033

Project/Client Name: AOC3 Fish/Crab Tissue
 Project Number: Task 4
 Contact Name: Amara Vandervort
 Sampled By: TD, KM, NM, JR, and MY

Ship to: Axys No. AOC3 2017-0020
 Attn: Georgina Brooks Shipping Date: 9/25/17
 Shipper: Courier Airbill Number: N/A
 Form filled out by: A. Vandervort Turnaround requested: Standard

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)						Comments / Instructions [Composite/Bag ID]
					Dissection and Homogenization						
8/31/2017	15:18	LDW17-R1-GC060	1	Tissue	x						1-GC-comp2 (Bag 1) / 2821 S-14
8/31/2017	10:42	LDW17-R1-GC031	1	Tissue	x						1-GC-comp2 (Bag 1) -14
9/1/2017	10:37	LDW17-R1-GC079	1	Tissue	x						1-GC-comp2 (Bag 1) -14
8/31/2017	12:51	LDW17-R1-GC050	1	Tissue	x						1-GC-comp2 (Bag 1) -14
8/30/2017	14:00	LDW17-R1-GC023	1	Tissue	x						1-GC-comp2 (Bag 1) -14
8/31/2017	12:53	LDW17-R1-GC043	1	Tissue	x						1-GC-comp2 (Bag 2) -14
8/31/2017	13:28	LDW17-R1-GC055	1	Tissue	x						1-GC-comp2 (Bag 2) -14
Total Number of Containers			7	Purchase Order / Statement of Work # PO 2017-0020							

1) Released by: Print name: <u>A. Vandervort</u> Signature: <u>[Signature]</u> Company: <u>Windward</u> Date/Time: <u>9/26/17</u>	1) Rec'd by: [Signature] Company: <u>SGS AXYS</u> Date/Time: <u>26-Sep-2017 11:05</u>	2) Released by: Print name: Signature: Company: Date/Time:	2) Rec'd by: Company: Date/Time:
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Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

CHAIN-OF-CUSTODY/TEST REQUEST FORM

4033

Project/Client Name: AOC3 Fish/Crab Tissue
 Project Number: Task 4
 Contact Name: Amara Vandervort
 Sampled By: TD, KM, NM, JR, and MY

Ship to: Axys No. AOC3 2017-0020
 Attn: Georgina Brooks Shipping Date: 9/25/17
 Shipper: Courier Airbill Number: N/A
 Form filled out by: A. Vandervort Turnaround requested: Standard

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Dissection and Homogenization	Test(s) Requested (check test(s) required)						Comments / Instructions [Composite/Bag ID]
8/31/2017	13:28	LDW17-R1-GC057	1	Tissue	x							1-GC-comp3 (Bag 2) <u>L28215-15</u>
8/31/2017	15:30	LDW17-R1-GC064	1	Tissue	x							1-GC-comp3 (Bag 1) <u>-15</u>
8/31/2017	10:17	LDW17-R1-GC030	1	Tissue	x							1-GC-comp3 (Bag 1) <u>-15</u>
8/31/2017	13:44	LDW17-R1-GC059	1	Tissue	x							1-GC-comp3 (Bag 2) <u>-15</u>
8/31/2017	13:15	LDW17-R1-GC044	1	Tissue	x							1-GC-comp3 (Bag 1) <u>-15</u>
8/31/2017	11:56	LDW17-R1-GC034	1	Tissue	x							1-GC-comp3 (Bag 1) <u>-15</u>
8/31/2017	12:51	LDW17-R1-GC049	1	Tissue	x							1-GC-comp3 (Bag 1) <u>-15</u>

Total Number of Containers 7 **Purchase Order / Statement of Work #** PO 2017-0020

1) Released by: Print name: <u>A. Vandervort</u> Signature: <u>[Signature]</u> Company: <u>Windward</u> Date/Time: <u>9/26/17</u>	1) Rec'd by: [Signature] Company: <u>SGS AXYS</u> Date/Time: <u>26-Sep-2017 11:05</u>	2) Released by: Print name: Signature: Company: Date/Time:	2) Rec'd by: Company: Date/Time:
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Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

CHAIN-OF-CUSTODY/TEST REQUEST FORM

4033

Project/Client Name: AOC3 Fish/Crab Tissue
 Project Number: Task 4
 Contact Name: Amara Vandervort
 Sampled By: TD, KM, NM, JR, and MY

Ship to: Axys No. AOC3 2017-0020
 Attn: Georgina Brooks Shipping Date: 9/25/17
 Shipper: Courier Airbill Number: N/A
 Form filled out by: A. Vandervort Turnaround requested: Standard

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)						Comments / Instructions [Composite/Bag ID]		
					Dissection and Homogenization								
8/31/2017	15:30	LDW17-R1-GC065	1	Tissue	x							L28215 -16	LDW17-R1-GC065 (Bag 1)
8/31/2017	13:15	LDW17-R1-GC046	1	Tissue	x							-16	LDW17-R1-GC046 (Bag 1)
8/30/2017	14:00	LDW17-R1-GC024	1	Tissue	x							-16	LDW17-R1-GC024 (Bag 1)
8/31/2017	13:44	LDW17-R1-GC058	1	Tissue	x							-16	LDW17-R1-GC058 (Bag 2)
8/31/2017	8:45	LDW17-R1-GC026	1	Tissue	x							-16	LDW17-R1-GC026 (Bag 1)
8/31/2017	13:28	LDW17-R1-GC053	1	Tissue	x							-16	LDW17-R1-GC053 (Bag 2)
8/31/2017	15:30	LDW17-R1-GC063	1	Tissue	x							-16	LDW17-R1-GC063 (Bag 2)
Total Number of Containers			7	Purchase Order / Statement of Work # PO 2017-0020									

1) Released by: Print name: <u>A. Vandervort</u> Signature: <u>[Signature]</u> Company: <u>Windward</u> Date/Time: <u>9/26/17</u>	1) Rec'd by: <u>[Signature]</u> Company: <u>SGS AXYS</u> Date/Time: <u>26-Sep-2017 11:05</u>	2) Released by: Print name: Signature: Company: Date/Time:	2) Rec'd by: Company: Date/Time:
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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

4033

Project/Client Name: AOC3 Fish/Crab Tissue
 Project Number: Task 4
 Contact Name: Amara Vandervort
 Sampled By: TD, KM, NM, JR, and MY

Ship to: Axys No. AOC3 2017-0020
 Attn: Georgina Brooks Shipping Date: 9/25/17
 Shipper: Courier Airbill Number: N/A
 Form filled out by: A. Vandervort Turnaround requested: Standard

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Dissection and Homogenization	Test(s) Requested (check test(s) required)						Comments / Instructions [Composite/Bag ID]
8/31/2017	15:18	LDW17-R1-GC061	1	Tissue	x							1-GC-comp5 (Bag 1)
8/31/2017	12:51	LDW17-R1-GC052	1	Tissue	x							1-GC-comp5 (Bag 1)
8/31/2017	12:39	LDW17-R1-GC041	1	Tissue	x							1-GC-comp5 (Bag 1)
9/1/2017	10:37	LDW17-R1-GC077	1	Tissue	x							1-GC-comp5 (Bag 1)
8/31/2017	15:49	LDW17-R1-GC068	1	Tissue	x							1-GC-comp5 (Bag 1)
8/31/2017	12:18	LDW17-R1-GC036	1	Tissue	x							1-GC-comp5 (Bag 1)
8/31/2017	8:45	LDW17-R1-GC028	1	Tissue	x							1-GC-comp5 (Bag 1)

Total Number of Containers 7 **Purchase Order / Statement of Work #** PO 2017-0020

1) Released by: Print name: <u>A. Vandervort</u> Signature: <u>[Signature]</u> Company: <u>Windward</u> Date/Time: <u>9/26/17</u>	1) Rec'd by: [Signature] Company: <u>SGS AXYS</u> Date/Time: <u>26-Sep-2017 11:05</u>	2) Released by: Print name: Signature: Company: Date/Time:	2) Rec'd by: Company: Date/Time:
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Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

CHAIN-OF-CUSTODY/TEST REQUEST FORM

4033

Project/Client Name: AOC3 Fish/Crab Tissue
 Project Number: Task 4
 Contact Name: Amara Vandervort
 Sampled By: TD, KM, NM, JR, and MY

Ship to: Axys No. AOC3 2017-0020
 Attn: Georgina Brooks Shipping Date: 9/25/17
 Shipper: Courier Airbill Number: N/A
 Form filled out by: A. Vandervort Turnaround requested: Standard

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)						Comments / Instructions [Composite/Bag ID]
					Dissection and Homogenization						
8/31/2017	13:28	LDW17-R1-GC056	1	Tissue	x						1-GC-comp6 (Bag 1)
8/31/2017	15:45	LDW17-R1-GC067	1	Tissue	x						1-GC-comp6 (Bag 2)
8/31/2017	12:27	LDW17-R1-GC038	1	Tissue	x						1-GC-comp6 (Bag 1)
9/1/2017	8:34	LDW17-R1-GC073	1	Tissue	x						1-GC-comp6 (Bag 1)
8/31/2017	11:21	LDW17-R1-GC033	1	Tissue	x						1-GC-comp6 (Bag 1)
8/31/2017	13:15	LDW17-R1-GC045	1	Tissue	x						1-GC-comp6 (Bag 1)
8/31/2017	13:15	LDW17-R1-GC047	1	Tissue	x						1-GC-comp6 (Bag 2)

Total Number of Containers 7 **Purchase Order / Statement of Work #** PO 2017-0020

1) Released by: Print name: <u>A. Vandervort</u> Signature: <u>[Signature]</u> Company: <u>Windward</u> Date/Time: <u>9/26/17</u>	1) Rec'd by: Print name: <u>[Signature]</u> Company: <u>SGS-AXYS</u> Date/Time: <u>26-Sep-2017 11:05</u>	2) Released by: Print name: Signature: Company: Date/Time:	2) Rec'd by: Print name: Signature: Company: Date/Time:
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CHAIN-OF-CUSTODY/TEST REQUEST FORM

4033

Project/Client Name: AOC3 Fish/Crab Tissue
 Project Number: Task 4
 Contact Name: Amara Vandervort
 Sampled By: TD, KM, NM, JR, and MY

Ship to: Axys No. AOC3 2017-0020
 Attn: Georgina Brooks Shipping Date: 9/25/17
 Shipper: Courier Airbill Number: N/A
 Form filled out by: A. Vandervort Turnaround requested: Standard

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)						Comments / Instructions [Composite/Bag ID]
					Dissection and Homogenization						
9/1/2017	8:34	LDW17-R1-GC074	1	Tissue	x					L28215-19	1-GC-comp7 (Bag 1)
8/31/2017	15:26	LDW17-R1-GC062	1	Tissue	x					-19	1-GC-comp7 (Bag 1)
8/31/2017	12:18	LDW17-R1-GC035	1	Tissue	x					-19	1-GC-comp7 (Bag 2)
8/31/2017	10:42	LDW17-R1-GC032	1	Tissue	x					-19	1-GC-comp7 (Bag 1)
8/31/2017	12:39	LDW17-R1-GC039	1	Tissue	x					-19	1-GC-comp7 (bag 2)
8/31/2017	12:39	LDW17-R1-GC040	1	Tissue	x					-19	1-GC-comp7 (Bag 1)
8/31/2017	13:47	LDW17-R1-GC070	1	Tissue	x					-19	1-GC-comp7 (Bag 1)

Total Number of Containers 7 **Purchase Order / Statement of Work # PO 2017-0020**

1) Released by: Print name: <u>A. Vandervort</u> Signature: <u>[Signature]</u> Company: <u>Windward</u> Date/Time: <u>9/26/17</u>	1) Rec'd by: <u>[Signature]</u> Company: <u>SGS AXYS</u> Date/Time: <u>26-Sep-2017 11:05</u>	2) Released by: Print name: Signature: Company: Date/Time:	2) Rec'd by: Company: Date/Time:
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CHAIN-OF-CUSTODY/TEST REQUEST FORM

4033

Project/Client Name: AOC3 Fish/Crab Tissue
 Project Number: Task 4
 Contact Name: Amara Vandervort
 Sampled By: TD, KM, NM, JR, and MY

Ship to: Axys No. AOC3 2017-0020
 Attn: Georgina Brooks Shipping Date: 9/25/17
 Shipper: Courier Airbill Number: N/A
 Form filled out by: A. Vandervort Turnaround requested: Standard

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Dissection and Homogenization	Test(s) Requested (check test(s) required)						Comments / Instructions [Composite/Bag ID]
9/1/2017	10:37	LDW17-R1-GC078	1	Tissue	x							1-GC-comp8 (Bag 1)
8/31/2017	12:39	LDW17-R1-GC042	1	Tissue	x							1-GC-comp8 (Bag 2)
8/31/2017	13:15	LDW17-R1-GC048	1	Tissue	x							1-GC-comp8 (Bag 1)
8/31/2017	15:49	LDW17-R1-GC069	1	Tissue	x							1-GC-comp8 (Bag 1)
8/31/2017	12:27	LDW17-R1-GC037	1	Tissue	x							1-GC-comp8 (Bag 2)
9/1/2017	8:34	LDW17-R1-GC075	1	Tissue	x							1-GC-comp8 (Bag 1)
8/31/2017	13:47	LDW17-R1-GC071	1	Tissue	x							1-GC-comp8 (Bag 1)

Total Number of Containers 7 **Purchase Order / Statement of Work #** PO 2017-0020

1) Released by: Print name: <u>A. Vandervort</u> Signature: <u>[Signature]</u> Company: <u>Windward</u> Date/Time: <u>9/26/17</u>	1) Rec'd by: [Signature] Company: <u>SGS AXYS</u> Date/Time: <u>26-Sep-2017 11:05</u>	2) Released by: Print name: Signature: Company: Date/Time:	2) Rec'd by: Company: Date/Time:
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Cooler temperature:	Received by:

CHAIN-OF-CUSTODY/TEST REQUEST FORM

4033

Project/Client Name: AOC3 Fish/Crab Tissue
 Project Number: Task 4
 Contact Name: Amara Vandervort
 Sampled By: TD, KM, NM, JR, and MY

Ship to: Axys No. AOC3 2017-0020
 Attn: Georgina Brooks Shipping Date: 9/25/17
 Shipper: Courier Airbill Number: N/A
 Form filled out by: A. Vandervort Turnaround requested: Standard

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)						Comments / Instructions [Composite/Bag ID]
					Dissection and Homogenization						
8/31/2017	8:38	LDW17-R2-DC005	1	Tissue	x						2-DC-comp1 L28215-26
9/1/2017	13:58	LDW17-R2-DC009	1	Tissue	x						2-DC-comp1 -26
9/1/2017	13:48	LDW17-R2-DC008	1	Tissue	x						2-DC-comp1 -26
8/30/2017	14:24	LDW17-R2-DC002	1	Tissue	x						2-DC-comp1 -26
8/30/2017	14:17	LDW17-R2-DC001	1	Tissue	x						2-DC-comp2 -27
8/31/2017	8:42	LDW17-R2-DC006	1	Tissue	x						2-DC-comp2 -27
8/30/2017	15:13	LDW17-R2-DC003	1	Tissue	x						2-DC-comp2 -27
8/30/2017	15:13	LDW17-R2-DC004	1	Tissue	x						2-DC-comp2 -27

Total Number of Containers 8 **Purchase Order / Statement of Work #** PO 2017-0020

1) Released by: Print name: <u>A. Vandervort</u> Signature: <u>[Signature]</u> Company: <u>Windward</u> Date/Time: <u>9/26/17</u>	1) Rec'd by: [Signature] Company: <u>SGS AXYS</u> Date/Time: <u>26-Sep-2017 11:05</u>	2) Released by: Print name: Signature: Company: Date/Time:	2) Rec'd by: Company: Date/Time:
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CHAIN-OF-CUSTODY/TEST REQUEST FORM

4033

Project/Client Name: AOC3 Fish/Crab Tissue
 Project Number: Task 4
 Contact Name: Amara Vandervort
 Sampled By: TD, KM, NM, JR, and MY

Ship to: Axys No. AOC3 2017-0020
 Attn: Georgina Brooks Shipping Date: 9/25/17
 Shipper: Courier Airbill Number: N/A
 Form filled out by: A. Vandervort Turnaround requested: Standard

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Dissection and Homogenization	Test(s) Requested (check test(s) required)						Comments / Instructions [Composite/Bag ID]	
8/30/2017	11:19	LDW17-R2-GC014	1	Tissue	x								2-GC-comp1 (Bag 1)
9/5/2017	15:22	LDW17-R2-GC104	1	Tissue	x								2-GC-comp1 (Bag 1)
8/30/2017	8:50	LDW17-R2-GC008	1	Tissue	x								2-GC-comp1 (Bag 1)
8/29/2017	13:18	LDW17-R2-GC007	1	Tissue	x								2-GC-comp1 (Bag 2)
9/1/2017	13:48	LDW17-R2-GC084	1	Tissue	x								2-GC-comp1 (Bag 1)
8/30/2017	13:24	LDW17-R2-GC022	1	Tissue	x								2-GC-comp1 (Bag 2)
8/30/2017	8:50	LDW17-R2-GC009	1	Tissue	x								2-GC-comp1 (Bag 1)

L28215-21
3-01-2017
-21
-21
-21
-21
-21

Total Number of Containers 7 **Purchase Order / Statement of Work #** PO 2017-0020

1) Released by: Print name: <i>A. Vandervort</i> Signature: <i>[Signature]</i> Company: <i>Windward</i> Date/Time: <i>9/26/17</i>	1) Rec'd by: Print name: <i>[Signature]</i> Company: <i>SGS AXYS</i> Date/Time: <i>26-Sep-2017 11:05</i>	2) Released by: Print name: Signature: Company: Date/Time:	2) Rec'd by: Print name: Signature: Company: Date/Time:
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200 West Mercer Street
 Suite 401
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 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:

CHAIN-OF-CUSTODY/TEST REQUEST FORM

4033

Project/Client Name: AOC3 Fish/Crab Tissue
 Project Number: Task 4
 Contact Name: Amara Vandervort
 Sampled By: TD, KM, NM, JR, and MY

Ship to: Axys No. AOC3 2017-0020
 Attn: Georgina Brooks Shipping Date: 9/25/17
 Shipper: Courier Airbill Number: N/A
 Form filled out by: A. Vandervort Turnaround requested: Standard

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)						Comments / Instructions [Composite/Bag ID]	
					Dissection and Homogenization							
8/30/2017	11:47	LDW17-R2-GC018	1	Tissue	x							2-GC-comp2 (Bag 2)
9/1/2017	14:13	LDW17-R2-GC091	1	Tissue	x							2-GC-comp2 (Bag 1)
9/1/2017	14:13	LDW17-R2-GC090	1	Tissue	x							2-GC-comp2 (Bag 1)
9/1/2017	13:35	LDW17-R2-GC080	1	Tissue	x							2-GC-comp2 (Bag 1)
9/1/2017	13:05	LDW17-R2-GC086	1	Tissue	x							2-GC-comp2 (Bag 1)
9/1/2017	13:05	LDW17-R2-GC088	1	Tissue	x							2-GC-comp2 (Bag 1)
8/29/2017	10:15	LDW17-R2-GC001	1	Tissue	x							2-GC-comp2 (Bag 2)

Total Number of Containers 7 **Purchase Order / Statement of Work #** PO 2017-0020

1) Released by: <u>A. Vandervort</u> Print name: <u>A. Vandervort</u> Signature: <u>[Signature]</u> Company: <u>Windward</u> Date/Time: <u>9/26/17</u>	1) Rec'd by: <u>[Signature]</u> Company: <u>SGS AXYS</u> Date/Time: <u>26-Sep-2017 11:05</u>	2) Released by: _____ Print name: _____ Signature: _____ Company: _____ Date/Time: _____	2) Rec'd by: _____ Company: _____ Date/Time: _____
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Condition upon receipt:	Time of receipt:
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CHAIN-OF-CUSTODY/TEST REQUEST FORM

4033

Project/Client Name: AOC3 Fish/Crab Tissue
 Project Number: Task 4
 Contact Name: Amara Vandervort
 Sampled By: TD, KM, NM, JR, and MY

Ship to: Axys No. AOC3 2017-0020
 Attn: Georgina Brooks Shipping Date: 9/25/17
 Shipper: Courier Airbill Number: N/A
 Form filled out by: A. Vandervort Turnaround requested: Standard

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Dissection and Homogenization	Test(s) Requested (check test(s) required)						Comments / Instructions [Composite/Bag ID]
9/1/2017	14:22	LDW17-R2-GC094	1	Tissue	x							2-GC-comp3 (Bag 1)
9/5/2017	14:11	LDW17-R2-GC096	1	Tissue	x							2-GC-comp3 (Bag 1)
8/30/2017	10:03	LDW17-R2-GC011	1	Tissue	x							2-GC-comp3 (Bag 1)
8/30/2017	11:19	LDW17-R2-GC015	1	Tissue	x							2-GC-comp3 (Bag 2)
9/1/2017	13:05	LDW17-R2-GC087	1	Tissue	x							2-GC-comp3 (Bag 1)
9/1/2017	13:05	LDW17-R2-GC089	1	Tissue	x							2-GC-comp3 (Bag 1)
8/30/2017	12:56	LDW17-R2-GC021	1	Tissue	x							2-GC-comp3 (Bag 2)

Total Number of Containers 7 Purchase Order / Statement of Work # PO 2017-0020

1) Released by: Print name: <u>A. Vandervort</u> Signature: <u>[Signature]</u> Company: <u>Windward</u> Date/Time: <u>9/26/17</u>	1) Rec'd by: <u>[Signature]</u> Company: <u>SGS AXYS</u> Date/Time: <u>26-Sep-2017 11:05</u>	2) Released by: Print name: Signature: Company: Date/Time:	2) Rec'd by: Company: Date/Time:
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Condition upon receipt: _____	Time of receipt: _____
Cooler temperature: _____	Received by: _____

CHAIN-OF-CUSTODY/TEST REQUEST FORM

4033

Project/Client Name: AOC3 Fish/Crab Tissue
 Project Number: Task 4
 Contact Name: Amara Vandervort
 Sampled By: TD, KM, NM, JR, and MY

Ship to: Axys No. AOC3 2017-0020
 Attn: Georgina Brooks Shipping Date: 9/25/17
 Shipper: Courier Airbill Number: N/A
 Form filled out by: A. Vandervort Turnaround requested: Standard

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Dissection and Homogenization	Test(s) Requested (check test(s) required)						Comments / Instructions [Composite/Bag ID]
9/5/2017	14:39	LDW17-R2-GC102	1	Tissue	x							2-GC-comp4 (Bag 1)
8/30/2017	11:47	LDW17-R2-GC020	1	Tissue	x							2-GC-comp4 (Bag 2)
9/1/2017	13:48	LDW17-R2-GC083	1	Tissue	x							2-GC-comp4 (Bag 1)
8/29/2017	12:58	LDW17-R2-GC002	1	Tissue	x							2-GC-comp4 (Bag 2)
9/1/2017	13:58	LDW17-R2-GC085	1	Tissue	x							2-GC-comp4 (Bag 1)
8/30/2017	12:01	LDW17-R2-GC019	1	Tissue	x							2-GC-comp4 (Bag 2)
9/1/2017	14:03	LDW17-R2-GC092	1	Tissue	x							2-GC-comp4 (Bag 1)
9/5/2017	14:11	LDW17-R2-GC097	1	Tissue	x							2-GC-comp5
8/30/2017	11:19	LDW17-R2-GC016	1	Tissue	x							2-GC-comp5

Total Number of Containers 9 **Purchase Order / Statement of Work #** PO 2017-0020

1) Released by: Print name: <u>A Vandervort</u> Signature: <u>[Signature]</u> Company: <u>Windward</u> Date/Time: <u>9/26/17</u>	1) Rec'd by: [Signature] Company: <u>SGS AXYS</u> Date/Time: <u>26-Sep-2017 11:05</u>	2) Released by: Print name: Signature: Company: Date/Time:	2) Rec'd by: Company: Date/Time:
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Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

CHAIN-OF-CUSTODY/TEST REQUEST FORM

4033

Project/Client Name: AOC3 Fish/Crab Tissue
 Project Number: Task 4
 Contact Name: Amara Vandervort
 Sampled By: TD, KM, NM, JR, and MY

Ship to: Axys No. AOC3 2017-0020
 Attn: Georgina Brooks Shipping Date: 9/25/17
 Shipper: Courier Airbill Number: N/A
 Form filled out by: A. Vandervort Turnaround requested: Standard

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)						Comments / Instructions [Composite/Bag ID]
					Dissection and Homogenization						
8/31/2017	11:21	LDW17-R1A-SS206	1	Tissue	x						1a-SS-comp1 L28215-28
8/31/2017	11:21	LDW17-R1A-SS197	1	Tissue	x						1a-SS-comp1 -28
8/31/2017	10:42	LDW17-R1A-SS192	1	Tissue	x						1a-SS-comp1 -28
8/31/2017	13:47	LDW17-R1A-SS238	1	Tissue	x						1a-SS-comp1 -28
8/31/2017	13:47	LDW17-R1A-SS220	1	Tissue	x						1a-SS-comp1 -28
8/31/2017	11:21	LDW17-R1A-SS199	1	Tissue	x						1a-SS-comp1 -28
8/31/2017	13:47	LDW17-R1A-SS222	1	Tissue	x						1a-SS-comp1 -28
8/31/2017	10:42	LDW17-R1A-SS193	1	Tissue	x						1a-SS-comp1 -28
8/31/2017	11:21	LDW17-R1A-SS207	1	Tissue	x						1a-SS-comp1 -28
8/31/2017	13:26	LDW17-R1A-SS213	1	Tissue	x						1a-SS-comp1 -28
8/31/2017	13:47	LDW17-R1A-SS236	1	Tissue	x						1a-SS-comp1 -28
8/31/2017	10:42	LDW17-R1A-SS189	1	Tissue	x						1a-SS-comp1 -28
Total Number of Containers			12	Purchase Order / Statement of Work # PO 2017-0020							

1) Released by: Print name: <u>A. Vandervort</u> Signature: <u>[Signature]</u> Company: <u>Windward</u> Date/Time: <u>9/26/17</u>	1) Rec'd by: [Signature] Company: <u>SGS AXYS</u> Date/Time: <u>26-Sep-2017 11:05</u>	2) Released by: Print name: Signature: Company: Date/Time:	2) Rec'd by: Company: Date/Time:
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Cooler temperature:	Received by:

CHAIN-OF-CUSTODY/TEST REQUEST FORM

4033

Project/Client Name: AOC3 Fish/Crab Tissue
 Project Number: Task 4
 Contact Name: Amara Vandervort
 Sampled By: TD, KM, NM, JR, and MY

Ship to: Axys No. AOC3 2017-0020
 Attn: Georgina Brooks Shipping Date: 9/25/17
 Shipper: Courier Airbill Number: N/A
 Form filled out by: A. Vandervort Turnaround requested: Standard

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)						Comments / Instructions [Composite/Bag ID]
					Dissection and Homogenization						
8/31/2017	11:21	LDW17-R1A-SS198 ✓	1	Tissue	x						1a-SS-comp1 L28215-28
8/31/2017	11:21	LDW17-R1A-SS202 ✓	1	Tissue	x						1a-SS-comp1 -28
8/31/2017	13:47	LDW17-R1A-SS230 ✓	1	Tissue	x						1a-SS-comp1 -28
8/31/2017	11:21	LDW17-R1A-SS195 ✓	1	Tissue	x						1a-SS-comp2 -29
8/31/2017	13:47	LDW17-R1A-SS216 ✓	1	Tissue	x						1a-SS-comp2 -29
8/31/2017	13:47	LDW17-R1A-SS218 ✓	1	Tissue	x						1a-SS-comp2 -29
8/31/2017	12:51	LDW17-R1A-SS209 ✓	1	Tissue	x						1a-SS-comp2 -29
8/31/2017	10:42	LDW17-R1A-SS185 ✓	1	Tissue	x						1a-SS-comp2 -29
8/31/2017	13:47	LDW17-R1A-SS214 ✓	1	Tissue	x						1a-SS-comp2 -29
8/31/2017	13:47	LDW17-R1A-SS232 ✓	1	Tissue	x						1a-SS-comp2 -29
8/31/2017	13:47	LDW17-R1A-SS229 ✓	1	Tissue	x						1a-SS-comp2 -29
8/31/2017	12:51	LDW17-R1A-SS208 ✓	1	Tissue	x						1a-SS-comp2 -29
Total Number of Containers			12	Purchase Order / Statement of Work # PO 2017-0020							

1) Released by: Print name: <u>A. Vandervort</u> Signature: <u>[Signature]</u> Company: <u>Windward</u> Date/Time: <u>9/26/17</u>	1) Rec'd by: [Signature] Company: <u>SGS AXYS</u> Date/Time: <u>26-Sep-2017 11:05</u>	2) Released by: Print name: Signature: Company: Date/Time:	2) Rec'd by: Company: Date/Time:
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CHAIN-OF-CUSTODY/TEST REQUEST FORM

4033

Project/Client Name: AOC3 Fish/Crab Tissue
 Project Number: Task 4
 Contact Name: Amara Vandervort
 Sampled By: TD, KM, NM, JR, and MY

Ship to: Axys No. AOC3 2017-0020
 Attn: Georgina Brooks Shipping Date: 9/25/17
 Shipper: Courier Airbill Number: N/A
 Form filled out by: A. Vandervort Turnaround requested: Standard

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)						Comments / Instructions [Composite/Bag ID]
					Dissection and Homogenization						
8/31/2017	13:47	LDW17-R1A-SS240 ✓	1	Tissue	x						1a-SS-comp2 L28215-29
8/31/2017	13:47	LDW17-R1A-SS237 ✓	1	Tissue	x						1a-SS-comp2 -29
8/31/2017	11:21	LDW17-R1A-SS196 ✓	1	Tissue	x						1a-SS-comp2 -29
8/31/2017	11:21	LDW17-R1A-SS203 ✓	1	Tissue	x						1a-SS-comp2 -29
8/31/2017	13:47	LDW17-R1A-SS233 ✓	1	Tissue	x						1a-SS-comp2 -29
8/31/2017	13:47	LDW17-R1A-SS234 ✓	1	Tissue	x						1a-SS-comp2 -29
8/31/2017	13:26	LDW17-R1A-SS210 ✓	1	Tissue	x						1a-SS-comp3 -30
8/31/2017	10:42	LDW17-R1A-SS194 ✓	1	Tissue	x						1a-SS-comp3 -30
8/31/2017	13:47	LDW17-R1A-SS224 ✓	1	Tissue	x						1a-SS-comp3 -30
8/31/2017	10:42	LDW17-R1A-SS186 ✓	1	Tissue	x						1a-SS-comp3 -30
8/31/2017	10:42	LDW17-R1A-SS184 ✓	1	Tissue	x						1a-SS-comp3 -30
8/31/2017	13:47	LDW17-R1A-SS235 ✓	1	Tissue	x						1a-SS-comp3 -30
Total Number of Containers			12	Purchase Order / Statement of Work # PO 2017-0020							

1) Released by: Print name: <u>A. Vandervort</u> Signature: <u>[Signature]</u> Company: <u>Windward</u> Date/Time: <u>9/26/17</u>	1) Rec'd by: [Signature] Company: <u>SGS AXYS</u> Date/Time: <u>26-Sep-2017 11:05</u>	2) Released by: Print name: Signature: Company: Date/Time:	2) Rec'd by: Company: Date/Time:
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CHAIN-OF-CUSTODY/TEST REQUEST FORM

4033

Project/Client Name: AOC3 Fish/Crab Tissue
 Project Number: Task 4
 Contact Name: Amara Vandervort
 Sampled By: TD, KM, NM, JR, and MY

Ship to: Axys No. AOC3 2017-0020
 Attn: Georgina Brooks Shipping Date: 9/25/17
 Shipper: Courier Airbill Number: N/A
 Form filled out by: A. Vandervort Turnaround requested: Standard

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)						Comments / Instructions [Composite/Bag ID]
					Dissection and Homogenization						
8/31/2017	13:47	LDW17-R1A-SS225 ✓	1	Tissue	x						1a-SS-comp3 L 28215-30
8/31/2017	13:47	LDW17-R1A-SS228 ✓	1	Tissue	x						1a-SS-comp3 -30
8/31/2017	13:26	LDW17-R1A-SS212 ✓	1	Tissue	x						1a-SS-comp3 -30
8/31/2017	13:47	LDW17-R1A-SS219 ✓	1	Tissue	x						1a-SS-comp3 -30
8/31/2017	10:42	LDW17-R1A-SS191	1	Tissue	x						1a-SS-comp3 -30
8/31/2017	13:26	LDW17-R1A-SS211	1	Tissue	x						1a-SS-comp3 -30
8/31/2017	13:47	LDW17-R1A-SS215 ✓	1	Tissue	x						1a-SS-comp3 -30
8/31/2017	13:47	LDW17-R1A-SS217 ✓	1	Tissue	x						1a-SS-comp3 -30
8/31/2017	10:42	LDW17-R1A-SS182 ✓	1	Tissue	x						1a-SS-comp3 -30
8/30/2017	14:00	LDW17-R1B-SS124	1	Tissue	x						1b-SS-comp1 -31
8/31/2017	10:17	LDW17-R1B-SS178	1	Tissue	x						1b-SS-comp1 -31
8/31/2017	8:45	LDW17-R1B-SS138 ✓	1	Tissue	x						1b-SS-comp1 -31
Total Number of Containers			12	Purchase Order / Statement of Work # PO 2017-0020							

1) Released by: Print name: <u>A. Vandervort</u> Signature: <u>[Signature]</u> Company: <u>Windward</u> Date/Time: <u>9/26/17</u>	1) Rec'd by: <u>[Signature]</u> Company: <u>SGS AXYS</u> Date/Time: <u>26-Sep-2017 11:05</u>	2) Released by: Print name: Signature: Company: Date/Time:	2) Rec'd by: Company: Date/Time:
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CHAIN-OF-CUSTODY/TEST REQUEST FORM

4033

Project/Client Name: AOC3 Fish/Crab Tissue
 Project Number: Task 4
 Contact Name: Amara Vandervort
 Sampled By: TD, KM, NM, JR, and MY

Ship to: Axys No. AOC3 2017-0020
 Attn: Georgina Brooks Shipping Date: 9/25/17
 Shipper: Courier Airbill Number: N/A
 Form filled out by: A. Vandervort Turnaround requested: Standard

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)						Comments / Instructions [Composite/Bag ID]
					Dissection and Homogenization						
8/31/2017	10:17	LDW17-R1B-SS164	1	Tissue	x						1b-SS-comp1 L28215-31
8/31/2017	10:17	LDW17-R1B-SS179 /	1	Tissue	x						1b-SS-comp1 -31
8/30/2017	14:00	LDW17-R1B-SS121 /	1	Tissue	x						1b-SS-comp1 -31
8/30/2017	14:00	LDW17-R1B-SS125 /	1	Tissue	x						1b-SS-comp1 -31
8/31/2017	9:49	LDW17-R1B-SS153 /	1	Tissue	x						1b-SS-comp1 -31
8/31/2017	10:17	LDW17-R1B-SS168 /	1	Tissue	x						1b-SS-comp1 -31
8/31/2017	8:45	LDW17-R1B-SS150 /	1	Tissue	x						1b-SS-comp1 -31
8/31/2017	10:17	LDW17-R1B-SS171 /	1	Tissue	x						1b-SS-comp1 -31
8/31/2017	9:49	LDW17-R1B-SS161 /	1	Tissue	x						1b-SS-comp1 -31
8/30/2017	14:00	LDW17-R1B-SS132 /	1	Tissue	x						1b-SS-comp1 -31
8/31/2017	8:45	LDW17-R1B-SS145 /	1	Tissue	x						1b-SS-comp1 -31
8/31/2017	8:45	LDW17-R1B-SS137 /	1	Tissue	x						1b-SS-comp1 -31
Total Number of Containers			12	Purchase Order / Statement of Work # PO 2017-0020							

1) Released by: Print name: <u>A. Vandervort</u> Signature: <u>[Signature]</u> Company: <u>Windward</u> Date/Time: <u>9/26/17</u>	1) Rec'd by: [Signature] Company: <u>SGS-AXYS</u> Date/Time: <u>26-Sep-2017</u>	2) Released by: Print name: Signature: Company: Date/Time:	2) Rec'd by: Company: Date/Time:
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Cooler temperature:	Received by:

CHAIN-OF-CUSTODY/TEST REQUEST FORM

4033

Project/Client Name: AOC3 Fish/Crab Tissue
 Project Number: Task 4
 Contact Name: Amara Vandervort
 Sampled By: TD, KM, NM, JR, and MY

Ship to: Axys No. AOC3 2017-0020
 Attn: Georgina Brooks Shipping Date: 9/25/17
 Shipper: Courier Airbill Number: N/A
 Form filled out by: A. Vandervort Turnaround requested: Standard

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)						Comments / Instructions [Composite/Bag ID]
					Dissection and Homogenization						
8/31/2017	10:17	LDW17-R1B-SS177	1	Tissue	x						1b-SS-comp2 L28215-32
8/31/2017	8:45	LDW17-R1B-SS148	1	Tissue	x						1b-SS-comp2 -32
8/31/2017	9:49	LDW17-R1B-SS163	1	Tissue	x						1b-SS-comp2 -32
8/30/2017	14:00	LDW17-R1B-SS135	1	Tissue	x						1b-SS-comp2 -32
8/31/2017	10:17	LDW17-R1B-SS165	1	Tissue	x						1b-SS-comp2 -32
8/31/2017	8:45	LDW17-R1B-SS144	1	Tissue	x						1b-SS-comp2 -32
8/31/2017	8:45	LDW17-R1B-SS146	1	Tissue	x						1b-SS-comp2 -32
8/31/2017	9:49	LDW17-R1B-SS157	1	Tissue	x						1b-SS-comp2 -32
8/30/2017	14:00	LDW17-R1B-SS133	1	Tissue	x						1b-SS-comp2 -32
8/31/2017	10:17	LDW17-R1B-SS173	1	Tissue	x						1b-SS-comp2 -32
8/31/2017	9:49	LDW17-R1B-SS151	1	Tissue	x						1b-SS-comp2 -32
8/31/2017	10:17	LDW17-R1B-SS169	1	Tissue	x						1b-SS-comp2 -32
Total Number of Containers			12	Purchase Order / Statement of Work # PO 2017-0020							

1) Released by: Print name: <u>A. Vandervort</u> Signature: <u>[Signature]</u> Company: <u>Windward</u> Date/Time: <u>9/26/17</u>	1) Rec'd by: [Signature] Company: <u>SGS AXYS</u> Date/Time: <u>26-Sep-2017 11:05</u>	2) Released by: Print name: Signature: Company: Date/Time:	2) Rec'd by: Company: Date/Time:
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Date of receipt:	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

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CHAIN-OF-CUSTODY/TEST REQUEST FORM

4033

Project/Client Name: AOC3 Fish/Crab Tissue
 Project Number: Task 4
 Contact Name: Amara Vandervort
 Sampled By: TD, KM, NM, JR, and MY

Ship to: Axys No. AOC3 2017-0020
 Attn: Georgina Brooks Shipping Date: 9/25/17
 Shipper: Courier Airbill Number: N/A
 Form filled out by: A. Vandervort Turnaround requested: Standard

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)						Comments / Instructions [Composite/Bag ID]
					Dissection and Homogenization						
8/30/2017	14:00	LDW17-R1B-SS136 ✓	1	Tissue	x						1b-SS-comp2 L28215-32
8/31/2017	10:17	LDW17-R1B-SS175 ✓	1	Tissue	x						1b-SS-comp2 -32
8/30/2017	14:00	LDW17-R1B-SS130 ✓	1	Tissue	x						1b-SS-comp2 -32
8/31/2017	9:49	LDW17-R1B-SS152 ✓	1	Tissue	x						1b-SS-comp3 -33
8/30/2017	14:00	LDW17-R1B-SS122 ✓	1	Tissue	x						1b-SS-comp3 -33
8/31/2017	9:49	LDW17-R1B-SS158 ✓	1	Tissue	x						1b-SS-comp3 -33
8/31/2017	8:45	LDW17-R1B-SS140 ✓	1	Tissue	x						1b-SS-comp3 -33
8/31/2017	9:49	LDW17-R1B-SS160 ✓	1	Tissue	x						1b-SS-comp3 -33
8/31/2017	9:49	LDW17-R1B-SS155 ✓	1	Tissue	x						1b-SS-comp3 -33
8/31/2017	8:45	LDW17-R1B-SS149 ✓	1	Tissue	x						1b-SS-comp3 -33
8/31/2017	8:45	LDW17-R1B-SS142 ✓	1	Tissue	x						1b-SS-comp3 -33
8/31/2017	10:17	LDW17-R1B-SS176 ✓	1	Tissue	x						1b-SS-comp3 -33
Total Number of Containers			12	Purchase Order / Statement of Work # PO 2017-0020							

1) Released by: Print name: <u>A. Vandervort</u> Signature: <u>[Signature]</u> Company: <u>Windward</u> Date/Time: <u>9/26/17</u>	1) Rec'd by: <u>[Signature]</u> Company: <u>SGS AXYS</u> Date/Time: <u>26-Sep-2017 11:05</u>	2) Released by: Print name: Signature: Company: Date/Time:	2) Rec'd by: Company: Date/Time:
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Date of receipt: _____	Laboratory W.O. #: _____
Condition upon receipt: _____	Time of receipt: _____
Cooler temperature: _____	Received by: _____

CHAIN-OF-CUSTODY/TEST REQUEST FORM

4033

Project/Client Name: AOC3 Fish/Crab Tissue
 Project Number: Task 4
 Contact Name: Amara Vandervort
 Sampled By: TD, KM, NM, JR, and MY

Ship to: Axys No. AOC3 2017-0020
 Attn: Georgina Brooks Shipping Date: 9/25/17
 Shipper: Courier Airbill Number: N/A
 Form filled out by: A. Vandervort Turnaround requested: Standard

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)						Comments / Instructions [Composite/Bag ID]
					Dissection and Homogenization						
8/31/2017	9:49	LDW17-R1B-SS159 ✓	1	Tissue	x						1b-SS-comp3 L28215-33
8/31/2017	10:17	LDW17-R1B-SS174 ✓	1	Tissue	x						1b-SS-comp3 -33
8/31/2017	8:45	LDW17-R1B-SS147 ✓	1	Tissue	x						1b-SS-comp3 -33
8/30/2017	14:00	LDW17-R1B-SS129 ✓	1	Tissue	x						1b-SS-comp3 -33
8/30/2017	14:00	LDW17-R1B-SS128 ✓	1	Tissue	x						1b-SS-comp3 -33
8/31/2017	8:45	LDW17-R1B-SS139 ✓	1	Tissue	x						1b-SS-comp3 -33
8/29/2017	10:15	LDW17-R2A-SS058 ✓	1	Tissue	x						2a-SS-comp1 -36
8/29/2017	10:15	LDW17-R2A-SS033 ✓	1	Tissue	x						2a-SS-comp1 -36
8/29/2017	10:15	LDW17-R2A-SS036 ✓	1	Tissue	x						2a-SS-comp1 -36
8/29/2017	9:14	LDW17-R2A-SS009 ✓	1	Tissue	x						2a-SS-comp1 -36
8/29/2017	10:15	LDW17-R2A-SS049 ✓	1	Tissue	x						2a-SS-comp1 -36
8/29/2017	10:15	LDW17-R2A-SS059 ✓	1	Tissue	x						2a-SS-comp1 -36
Total Number of Containers			12	Purchase Order / Statement of Work # PO 2017-0020							

1) Released by: Print name: <u>A. Vandervort</u> Signature: <u>[Signature]</u> Company: <u>Windward</u> Date/Time: <u>9/26/17</u>	1) Rec'd by: Print name: <u>[Signature]</u> Company: <u>SGS AXYS</u> Date/Time: <u>26-Sep-2017 11:05</u>	2) Released by: Print name: Signature: Company: Date/Time:	2) Rec'd by: Print name: Signature: Company: Date/Time:
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Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

CHAIN-OF-CUSTODY/TEST REQUEST FORM

4033

Project/Client Name: AOC3 Fish/Crab Tissue
 Project Number: Task 4
 Contact Name: Amara Vandervort
 Sampled By: TD, KM, NM, JR, and MY

Ship to: Axys No. AOC3 2017-0020
 Attn: Georgina Brooks Shipping Date: 9/25/17
 Shipper: Courier Airbill Number: N/A
 Form filled out by: A. Vandervort Turnaround requested: Standard

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)						Comments / Instructions [Composite/Bag ID]
					Dissection and Homogenization						
8/29/2017	10:15	LDW17-R2A-SS035	1	Tissue	x						2a-SS-comp1 L28215-36
8/29/2017	10:15	LDW17-R2A-SS060 /	1	Tissue	x						2a-SS-comp1 -36
8/29/2017	9:14	LDW17-R2A-SS029 /	1	Tissue	x						2a-SS-comp1 -36
8/29/2017	10:15	LDW17-R2A-SS053 /	1	Tissue	x						2a-SS-comp1 -36
8/29/2017	10:15	LDW17-R2A-SS039 /	1	Tissue	x						2a-SS-comp1 -36
8/29/2017	9:14	LDW17-R2A-SS028 /	1	Tissue	x						2a-SS-comp1 -36
8/29/2017	9:14	LDW17-R2A-SS010 /	1	Tissue	x						2a-SS-comp1 -36
8/29/2017	10:15	LDW17-R2A-SS037 /	1	Tissue	x						2a-SS-comp1 -36
8/29/2017	9:14	LDW17-R2A-SS014 /	1	Tissue	x						2a-SS-comp1 -36
8/29/2017	9:14	LDW17-R2A-SS024 /	1	Tissue	x						2a-SS-comp2 -37
8/29/2017	10:15	LDW17-R2A-SS032 /	1	Tissue	x						2a-SS-comp2 -37
8/29/2017	9:14	LDW17-R2A-SS026 /	1	Tissue	x						2a-SS-comp2 -37
Total Number of Containers			12	Purchase Order / Statement of Work # PO 2017-0020							
1) Released by: Print name: <u>A. Vandervort</u> Signature: <u>[Signature]</u> Company: <u>Windward</u> Date/Time: <u>9/26/17</u>			1) Rec'd by: <u>[Signature]</u> Company: <u>SGS AXYS</u> Date/Time: <u>26-Sep-2017 11:05</u>			2) Released by:			2) Rec'd by:		

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Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by

CHAIN-OF-CUSTODY/TEST REQUEST FORM

4033

Project/Client Name: AOC3 Fish/Crab Tissue
 Project Number: Task 4
 Contact Name: Amara Vandervort
 Sampled By: TD, KM, NM, JR, and MY

Ship to: Axys No. AOC3 2017-0020
 Attn: Georgina Brooks Shipping Date: 9/25/17
 Shipper: Courier Airbill Number: N/A
 Form filled out by: A. Vandervort Turnaround requested: Standard

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)						Comments / Instructions [Composite/Bag ID]
					Dissection and Homogenization						
8/29/2017	10:15	LDW17-R2A-SS031 /	1	Tissue	x						2a-SS-comp2 L28215-37
8/29/2017	9:14	LDW17-R2A-SS017 /	1	Tissue	x						2a-SS-comp2 -37
8/29/2017	9:14	LDW17-R2A-SS003 /	1	Tissue	x						2a-SS-comp2 -37
8/29/2017	10:15	LDW17-R2A-SS047 /	1	Tissue	x						2a-SS-comp2 -37
8/29/2017	10:15	LDW17-R2A-SS044 /	1	Tissue	x						2a-SS-comp2 -37
8/29/2017	9:14	LDW17-R2A-SS004 /	1	Tissue	x						2a-SS-comp2 -37
8/29/2017	10:15	LDW17-R2A-SS045 /	1	Tissue	x						2a-SS-comp2 -37
8/29/2017	10:15	LDW17-R2A-SS040 /	1	Tissue	x						2a-SS-comp2 -37
8/29/2017	10:15	LDW17-R2A-SS050 /	1	Tissue	x						2a-SS-comp2 -37
8/29/2017	10:15	LDW17-R2A-SS055 /	1	Tissue	x						2a-SS-comp2 -37
8/29/2017	9:14	LDW17-R2A-SS016 /	1	Tissue	x						2a-SS-comp2 -37
8/29/2017	9:14	LDW17-R2A-SS006 /	1	Tissue	x						2a-SS-comp2 -37
Total Number of Containers			12	Purchase Order / Statement of Work # PO 2017-0020							

1) Released by: Print name: <u>A. Vandervort</u> Signature: <u>[Signature]</u> Company: <u>Windward</u> Date/Time: <u>9/26/17</u>	1) Rec'd by: [Signature] Company: <u>SGS AXYS</u> Date/Time: <u>26-Sep-2017 11:05</u>	2) Released by: Print name: Signature: Company: Date/Time:	2) Rec'd by: Company: Date/Time:
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Cooler temperature:	Received by:

CHAIN-OF-CUSTODY/TEST REQUEST FORM

4033

Project/Client Name: AOC3 Fish/Crab Tissue
 Project Number: Task 4
 Contact Name: Amara Vandervort
 Sampled By: TD, KM, NM, JR, and MY

Ship to: Axys No. AOC3 2017-0020
 Attn: Georgina Brooks Shipping Date: 9/25/17
 Shipper: Courier Airbill Number: N/A
 Form filled out by: A. Vandervort Turnaround requested: Standard

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)						Comments / Instructions [Composite/Bag ID]
					Dissection and Homogenization						
8/29/2017	10:15	LDW17-R2A-SS046 ✓	1	Tissue	x						2a-SS-comp3 L28215-38
8/29/2017	9:14	LDW17-R2A-SS012 ✓	1	Tissue	x						2a-SS-comp3 -38
8/29/2017	9:14	LDW17-R2A-SS007 ✓	1	Tissue	x						2a-SS-comp3 -38
8/29/2017	10:15	LDW17-R2A-SS056 ✓	1	Tissue	x						2a-SS-comp3 -38
8/29/2017	10:15	LDW17-R2A-SS048 ✓	1	Tissue	x						2a-SS-comp3 -38
8/29/2017	9:14	LDW17-R2A-SS001 ✓	1	Tissue	x						2a-SS-comp3 -38
8/29/2017	9:14	LDW17-R2A-SS005 ✓	1	Tissue	x						2a-SS-comp3 -38
8/29/2017	9:14	LDW17-R2A-SS008 ✓	1	Tissue	x						2a-SS-comp3 -38
8/29/2017	10:15	LDW17-R2A-SS054 ✓	1	Tissue	x						2a-SS-comp3 -38
8/29/2017	9:14	LDW17-R2A-SS030 ✓	1	Tissue	x						2a-SS-comp3 -38
8/29/2017	10:15	LDW17-R2A-SS043 ✓	1	Tissue	x						2a-SS-comp3 -38
8/29/2017	9:14	LDW17-R2A-SS002 ✓	1	Tissue	x						2a-SS-comp3 -38
Total Number of Containers			12	Purchase Order / Statement of Work # PO 2017-0020							

1) Released by: Print name: <u>A. Vandervort</u> Signature: <u>[Signature]</u> Company: <u>Windward</u> Date/Time: <u>9/26/17</u>	1) Rec'd by: [Signature] Company: <u>SGS AXYS</u> Date/Time: <u>26 Sep 2017 11:05</u>	2) Released by: Print name: Signature: Company: Date/Time:	2) Rec'd by: Company: Date/Time:
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Condition upon receipt:	Time of receipt:
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CHAIN-OF-CUSTODY/TEST REQUEST FORM

4033

Project/Client Name: AOC3 Fish/Crab Tissue
 Project Number: Task 4
 Contact Name: Amara Vandervort
 Sampled By: TD, KM, NM, JR, and MY

Ship to: Axys No. AOC3 2017-0020
 Attn: Georgina Brooks Shipping Date: 9/25/17
 Shipper: Courier Airbill Number: N/A
 Form filled out by: A. Vandervort Turnaround requested: Standard

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)						Comments / Instructions [Composite/Bag ID]
					Dissection and Homogenization						
8/29/2017	9:14	LDW17-R2A-SS013 /	1	Tissue	x						2a-SS-comp3 <u>L28215-38</u>
8/29/2017	9:14	LDW17-R2A-SS019 /	1	Tissue	x						2a-SS-comp3 <u>-38</u>
8/29/2017	10:15	LDW17-R2A-SS041 /	1	Tissue	x						2a-SS-comp3 <u>-38</u>
8/29/2017	11:00	LDW17-R2B-SS072 /	1	Tissue	x						2b-SS-comp1 <u>-34</u>
8/29/2017	11:00	LDW17-R2B-SS089 /	1	Tissue	x						2b-SS-comp1 <u>-34</u>
8/29/2017	11:00	LDW17-R2B-SS067 /	1	Tissue	x						2b-SS-comp1 <u>-34</u>
8/29/2017	11:27	LDW17-R2B-SS103 /	1	Tissue	x						2b-SS-comp1 <u>-34</u>
8/29/2017	11:27	LDW17-R2B-SS101 /	1	Tissue	x						2b-SS-comp1 <u>-34</u>
8/29/2017	11:00	LDW17-R2B-SS088 /	1	Tissue	x						2b-SS-comp1 <u>-34</u>
8/29/2017	11:00	LDW17-R2B-SS075 /	1	Tissue	x						2b-SS-comp1 <u>-34</u>
8/29/2017	11:00	LDW17-R2B-SS065 /	1	Tissue	x						2b-SS-comp1 <u>-34</u>
8/29/2017	11:00	LDW17-R2B-SS084 /	1	Tissue	x						2b-SS-comp1 <u>-34</u>
Total Number of Containers			12	Purchase Order / Statement of Work # PO 2017-0020							

1) Released by: Print name: <u>A Vandervort</u> Signature: <u>[Signature]</u> Company: <u>Windward</u> Date/Time: <u>9/26/17</u>	1) Rec'd by: [Signature] Company: <u>SGS AXYS</u> Date/Time: <u>26-Sep-2017 11:05</u>	2) Released by: Print name: Signature: Company: Date/Time:	2) Rec'd by: Company: Date/Time:
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Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

CHAIN-OF-CUSTODY/TEST REQUEST FORM

4033

Project/Client Name: AOC3 Fish/Crab Tissue
 Project Number: Task 4
 Contact Name: Amara Vandervort
 Sampled By: TD, KM, NM, JR, and MY

Ship to: Axys No. AOC3 2017-0020
 Attn: Georgina Brooks Shipping Date: 9/25/17
 Shipper: Courier Airbill Number: N/A
 Form filled out by: A. Vandervort Turnaround requested: Standard

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)						Comments / Instructions [Composite/Bag ID]
					Dissection and Homogenization						
8/29/2017	11:27	LDW17-R2B-SS113	1	Tissue	x						2b-SS-comp1 L28215-34
8/29/2017	11:00	LDW17-R2B-SS068	1	Tissue	x						2b-SS-comp1 -34
8/29/2017	11:27	LDW17-R2B-SS110	1	Tissue	x						2b-SS-comp1 -34
8/29/2017	11:27	LDW17-R2B-SS108	1	Tissue	x						2b-SS-comp1 -34
8/29/2017	11:00	LDW17-R2B-SS085	1	Tissue	x						2b-SS-comp1 -34
8/29/2017	11:00	LDW17-R2B-SS082	1	Tissue	x						2b-SS-comp1 -34
8/29/2017	11:27	LDW17-R2B-SS111	1	Tissue	x						2b-SS-comp2 -35
8/29/2017	11:27	LDW17-R2B-SS091	1	Tissue	x						2b-SS-comp2 -35
8/29/2017	11:27	LDW17-R2B-SS105	1	Tissue	x						2b-SS-comp2 -35
8/29/2017	11:27	LDW17-R2B-SS097	1	Tissue	x						2b-SS-comp2 -35
8/29/2017	11:27	LDW17-R2B-SS102	1	Tissue	x						2b-SS-comp2 -35
8/29/2017	11:00	LDW17-R2B-SS074	1	Tissue	x						2b-SS-comp2 -35
Total Number of Containers			12	Purchase Order / Statement of Work # PO 2017-0020							

1) Released by: Print name: <u>A Vandervort</u> Signature: <u>[Signature]</u> Company: <u>Windward</u> Date/Time: <u>9/26/17</u>	1) Rec'd by: [Signature] Company: <u>SGS AXYS</u> Date/Time: <u>26-Sep-2017 11:05</u>	2) Released by: Print name: Signature: Company: Date/Time:	2) Rec'd by: Company: Date/Time:
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Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

CHAIN-OF-CUSTODY/TEST REQUEST FORM

4033

Project/Client Name: AOC3 Fish/Crab Tissue
 Project Number: Task 4
 Contact Name: Amara Vandervort
 Sampled By: TD, KM, NM, JR, and MY

Ship to: Axys No. AOC3 2017-0020
 Attn: Georgina Brooks Shipping Date: 9/25/17
 Shipper: Courier Airbill Number: N/A
 Form filled out by: A. Vandervort Turnaround requested: Standard

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)						Comments / Instructions [Composite/Bag ID]
					Dissection and Homogenization						
8/29/2017	11:00	LDW17-R2B-SS083	1	Tissue	x						2b-SS-comp2 / 28215-35
8/29/2017	11:00	LDW17-R2B-SS061	1	Tissue	x						2b-SS-comp2 -35
8/29/2017	11:00	LDW17-R2B-SS070	1	Tissue	x						2b-SS-comp2 -35
8/29/2017	11:27	LDW17-R2B-SS099	1	Tissue	x						2b-SS-comp2 -35
8/29/2017	11:00	LDW17-R2B-SS081	1	Tissue	x						2b-SS-comp2 -35
8/29/2017	11:00	LDW17-R2B-SS069	1	Tissue	x						2b-SS-comp2 -35
8/29/2017	11:00	LDW17-R2B-SS079	1	Tissue	x						2b-SS-comp2 -35
8/29/2017	11:00	LDW17-R2B-SS087	1	Tissue	x						2b-SS-comp2 -35
8/29/2017	11:00	LDW17-R2B-SS086	1	Tissue	x						2b-SS-comp2 -35
8/29/2017	11:27	LDW17-R2B-SS106	1	Tissue	x						2b-SS-comp3 -39
8/29/2017	11:00	LDW17-R2B-SS066	1	Tissue	x						2b-SS-comp3 -39
8/29/2017	11:00	LDW17-R2B-SS080	1	Tissue	x						2b-SS-comp3 -39
Total Number of Containers			12	Purchase Order / Statement of Work # PO 2017-0020							

1) Released by: Print name: <u>A. Vandervort</u> Signature: <u>[Signature]</u> Company: <u>Windward</u> Date/Time: <u>9/26/17</u>	1) Rec'd by: Print name: <u>[Signature]</u> Company: <u>SGS AXYS</u> Date/Time: <u>26-Sep-2017 11:05</u>	2) Released by: Print name: Signature: Company: Date/Time:	2) Rec'd by: Print name: Signature: Company: Date/Time:
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Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

CHAIN-OF-CUSTODY/TEST REQUEST FORM

4033

Project/Client Name: AOC3 Fish/Crab Tissue
 Project Number: Task 4
 Contact Name: Amara Vandervort
 Sampled By: TD, KM, NM, JR, and MY

Ship to: Axys No. AOC3 2017-0020
 Attn: Georgina Brooks Shipping Date: 9/25/17
 Shipper: Courier Airbill Number: N/A
 Form filled out by: A. Vandervort Turnaround requested: Standard

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)						Comments / Instructions [Composite/Bag ID]
					Dissection and Homogenization						
8/29/2017	11:27	LDW17-R2B-SS118 ✓	1	Tissue	x						2b-SS-comp3 128215-39
8/29/2017	11:27	LDW17-R2B-SS119 ✓	1	Tissue	x						2b-SS-comp3 -39
8/29/2017	11:27	LDW17-R2B-SS112 ✓	1	Tissue	x						2b-SS-comp3 -39
8/29/2017	11:27	LDW17-R2B-SS098 ✓	1	Tissue	x						2b-SS-comp3 -39
8/29/2017	11:27	LDW17-R2B-SS093 ✓	1	Tissue	x						2b-SS-comp3 -39
8/29/2017	11:00	LDW17-R2B-SS076 ✓	1	Tissue	x						2b-SS-comp3 -39
8/29/2017	11:00	LDW17-R2B-SS062 ✓	1	Tissue	x						2b-SS-comp3 -39
8/29/2017	11:00	LDW17-R2B-SS071 ✓	1	Tissue	x						2b-SS-comp3 -39
8/29/2017	11:27	LDW17-R2B-SS096 ✓	1	Tissue	x						2b-SS-comp3 -39
8/29/2017	11:27	LDW17-R2B-SS109 ✓	1	Tissue	x						2b-SS-comp3 -39
8/29/2017	11:27	LDW17-R2B-SS104 ✓	1	Tissue	x						2b-SS-comp3 -39
8/29/2017	11:00	LDW17-R2B-SS064 ✓	1	Tissue	x						2b-SS-comp3 -39
Total Number of Containers			12	Purchase Order / Statement of Work # PO 2017-0020							

1) Released by: Print name: <u>A Vandervort</u> Signature: <u>[Signature]</u> Company: <u>Windward</u> Date/Time: <u>9/26/17</u>	1) Rec'd by: <u>[Signature]</u> Company: <u>SGS AXYS</u> Date/Time: <u>26-Sep-2017</u>	2) Released by: Print name: Signature: Company: Date/Time:	2) Rec'd by: Company: Date/Time:
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To be completed by Laboratory upon sample receipt:

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

41

of

43

CHAIN-OF-CUSTODY/TEST REQUEST FORM

4033

Project/Client Name: AOC3 Fish/Crab Tissue
 Project Number: Task 4
 Contact Name: Amara Vandervort
 Sampled By: TD, KM, NM, JR, and MY

Ship to: Axys No. AOC3 2017-0020
 Attn: Georgina Brooks Shipping Date: 9/25/17
 Shipper: Courier Airbill Number: N/A
 Form filled out by: A. Vandervort Turnaround requested: Standard

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)						Comments / Instructions [Composite/Bag ID]	
					Dissection and Homogenization							
8/29/2017	10:15	LDW17-R2-ES010 /	1	Tissue	x							Additional R2 ES
8/29/2017	10:15	LDW17-R2-ES013 /	1	Tissue	x							Additional R2 ES
8/29/2017	10:15	LDW17-R2-ES015 /	1	Tissue	x							Additional R2 ES
8/29/2017	11:00	LDW17-R2-ES017 /	1	Tissue	x							Additional R2 ES
8/29/2017	12:58	LDW17-R2-ES020 /	1	Tissue	x							Additional R2 ES
8/29/2017	13:18	LDW17-R2-ES024 /	1	Tissue	x							Additional R2 ES
8/30/2017	8:50	LDW17-R2-ES040 /	1	Tissue	x							Additional R2 ES
8/30/2017	9:25	LDW17-R2-ES046 /	1	Tissue	x							Additional R2 ES
8/30/2017	13:24	LDW17-R2-ES070 /	1	Tissue	x							Additional R2 ES
9/1/2017	13:31	LDW17-R2-ES149 /	1	Tissue	x							Additional R2 ES
Total Number of Containers			10	Purchase Order / Statement of Work # PO 2017-0020								

1) Released by: <i>A Vandervort</i> Print name: <i>A Vandervort</i> Signature: <i>A Vandervort</i> Company: <i>Windward</i> Date/Time: <i>9/26/17</i>	1) Rec'd by: <i>[Signature]</i> Company: <i>SGS AXYS</i> Date/Time: <i>26-Sep-2017 11:05</i>	2) Released by: Print name: Signature: Company: Date/Time:	2) Rec'd by: Company: Date/Time:
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Date of receipt:	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

SGS AXYS

CHAIN-OF-CUSTODY/TEST REQUEST FORM

4033

Project/Client Name: AOC3 Fish/Crab Tissue
 Project Number: Task 4
 Contact Name: Amara Vandervort
 Sampled By: TD, KM, NM, JR, and MY

Ship to: Axys No. AOC3 2017-0020
 Attn: Georgina Brooks Shipping Date: 9/25/17
 Shipper: Courier Airbill Number: N/A
 Form filled out by: A. Vandervort Turnaround requested: Standard

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Dissection and Homogenization	Test(s) Requested (check test(s) required)					Comments / Instructions [Composite/Bag ID]
8/30/2017	11:19	LDW17-R2-GC013	1	Tissue	x					228215-42	Additional R2 GC Bag 3
8/30/2017	10:03	LDW17-R2-GC010	1	Tissue	x					-42	Additional R2 GC Bag 3
9/1/2017	13:40	LDW17-R2-GC081	1	Tissue	x					-40	Additional R2 GC Bag 1
9/5/2017	14:33	LDW17-R2-GC100	1	Tissue	x					-40	Additional R2 GC Bag 1
8/30/2017	14:32	LDW17-R2-GC025	1	Tissue	x					-42	Additional R2 GC Bag 3
9/5/2017	12:04	LDW17-R2-GC095	1	Tissue	x					-40	Additional R2 GC Bag 1
9/1/2017	13:40	LDW17-R2-GC082	1	Tissue	x					-40	Additional R2 GC Bag 1
9/1/2017	14:19	LDW17-R2-GC093	1	Tissue	x					-40	Additional R2 GC Bag 1
9/5/2017	14:26	LDW17-R2-GC099	1	Tissue	x					-41	Additional R2 GC Bag 2
9/5/2017	14:26	LDW17-R2-GC098	1	Tissue	x					-41	Additional R2 GC Bag 2
8/30/2017	11:47	LDW17-R2-GC017	1	Tissue	x					-42	Additional R2 GC Bag 3
8/29/2017	13:18	LDW17-R2-GC003	1	Tissue	x					-43	Additional R2 GC Bag 4
Total Number of Containers			12	Purchase Order / Statement of Work # PO 2017-0020							

1) Released by: Print name: <u>A. Vandervort</u> Signature: <u>[Signature]</u> Company: <u>Windward</u> Date/Time: <u>9/26/17</u>	1) Rec'd by: <u>[Signature]</u> Company: <u>SGS AXYS</u> Date/Time: <u>26-Sep-2017 11:05</u>	2) Released by: Print name: Signature: Company: Date/Time:	2) Rec'd by: Company: Date/Time:
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Date of receipt:	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

CHAIN-OF-CUSTODY/TEST REQUEST FORM

4033

Project/Client Name: AOC3 Fish/Crab Tissue
 Project Number: Task 4
 Contact Name: Amara Vandervort
 Sampled By: TD, KM, NM, JR, and MY

Ship to: Axys No. AOC3 2017-0020
 Attn: Georgina Brooks Shipping Date: 9/25/17
 Shipper: Courier Airbill Number: N/A
 Form filled out by: A. Vandervort Turnaround requested: Standard

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)						Comments / Instructions [Composite/Bag ID]	
					Dissection and Homogenization							
8/29/2017	13:18	LDW17-R2-GC005 ✓	1	Tissue	X							
8/29/2017	13:18	LDW17-R2-GC004 ✓	1	Tissue	X							Additional R2 GC Bag 4
9/5/2017	14:39	LDW17-R2-GC103 ✓	1	Tissue	X							Additional R2 GC Bag 4
9/5/2017	14:33	LDW17-R2-GC101 ✓	1	Tissue	X							Additional R2 GC Bag 2
8/30/2017	11:19	LDW17-R2-GC012 ✓	1	Tissue	X							Additional R2 GC Bag 3
8/29/2017	13:18	LDW17-R2-GC006 ✓	1	Tissue	X							Additional R2 GC Bag 1
Total Number of Containers			5	Purchase Order / Statement of Work # PO 2017-0020								

1) Released by: Print name: <u>A. Vandervort</u> Signature: <u>[Signature]</u> Company: <u>Windward</u> Date/Time: <u>9/26/17</u>	1) Rec'd by: <u>[Signature]</u> Company: <u>SGS AXYS</u> Date/Time: <u>26-Sep-2017 11:05</u>	2) Released by: Print name: Signature: Company: Date/Time:	2) Rec'd by: Company: Date/Time:
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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 4033
2943

Project/Client Name: Windward Environmental
 Project Number: Task 4
 Contact Name: Amara Vandervort
 Sampled By: TD, KM, NM, JR and MY

Ship to: Axys
 Attn: Georgina Brooks
 Shipper: Coupler
 Form filled out by: AV
 Shipping Date: 9/25/15
 Airbill Number: N/A
 Turnaround requested: Std

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Homogenize and composite	Test(s) Requested (check test(s) required)				Comments / Instructions (Jar tag number(s))	
8/29-9/5/17	Varies	Windward Cooler 1	4	tissue	X	L28215-21, 22				2-GC-comp 1 2-GC-comp 2	
8/29-9/5/17	Varies	Windward Cooler 2	4	tissue	X	L28215-23, 24				2-GC-comp 3 2-GC-comp 4	
8/29-9/5/17	Varies	Windward Cooler 3	2	tissue	X	L28215-25, 26, 27				2-GC-comp 5 2-OC-comp 1	
8/29-9/5/17	Varies	Windward Cooler 4	4	tissue	X	L28215-13, 14				2-OC-comp 2	
8/29-9/5/17	Varies	Windward Cooler 5	4	tissue	X	L28215-15, 16				1-GC-comp 1 1-GC-comp 2	
8/29-9/5/17	Varies	Windward Cooler 6	4	tissue	X	L28215-17, 18				1-GC-comp 3 1-GC-comp 4	
8/29-9/5/17	Varies	Windward Cooler 7	4	tissue	X	L28215-19, 20				1-GC-comp 5 1-GC-comp 6	
8/29-9/5/17	Varies	Windward Cooler 8	4	tissue	X	L28215-40 to 43				1-GC-comp 7 1-GC-comp 8	
8/29-9/5/17	Varies	Windward Cooler 9	3	tissue	X	L28215-1 to 3				Add'l R2 - GC Bag 1 Bag 2 Bag 3 Bag 4	
8/29-9/5/17	Varies	Windward Cooler 10	3	tissue	X	L28215-3 to 6				1-ES-comp 1 1-ES-comp 2 1-ES-comp 3	
8/29-9/5/17	Varies	Windward cooler 11	4	tissue	X	L28215-7, 8				1-ES-comp 4 1-ES-4, 5, 6	
8/29-9/5/17	Varies	Windward cooler 12	4	tissue	X	L28215-9, 10				2-ES-comp 1 2-ES-comp 2	
Total Number of Containers			44	Purchase Order / Statement of Work #							2-ES-comp 3 2-ES-comp 4

1) Released by: <u>A Vandervort</u> Print name: <u>A Vandervort</u> Signature: <u>[Signature]</u> Company: <u>Windward</u> Date/Time: <u>9/25/17</u>	1) Rec'd by: <u>[Signature]</u> Company: <u>ARC</u> Date/Time: <u>09/25/17 13:00</u>	2) Released by: <u>[Signature]</u> Print name: <u>DUNN TLO</u> Signature: <u>[Signature]</u> Company: <u>ARC</u> Date/Time: <u>09/25/2017 13:30</u>	2) Rec'd by: <u>[Signature]</u> Company: <u>YARED WISANENWORK</u> YL # <u>736</u> Date/Time: <u>09/25/17 17:00</u>
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Received by: [Signature] To be completed by Laboratory upon sample receipt:

Date of receipt: <u>26-Sep-2017 11:00</u>	Laboratory W.O. #:
Condition upon receipt: <u>intact</u>	Time of receipt:
Cooler temperature:	Received by:

2 of 2

CHAIN-OF-CUSTODY/TEST REQUEST FORM

No 2944

Project/Client Name: Windward Environmental
 Project Number: Task 4
 Contact Name: Anara Vandervort
 Sampled By: TD, KM, NM, JR and my

Ship to: Axys
 Attn: Georgina Brooks
 Shipper: courier
 Form filled out by: AV
 Shipping Date: 9/25/17
 Airbill Number: na
 Turnaround requested: Std

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Homogenize with composite	Test(s) Requested (check test(s) required)						Comments / Instructions (jar tag number(s))
8/29-9/5/17	Varies	Windward Cooler 13	4	tissue	X							2ES comp 5 2ES sample
8/29-9/5/17	Varies	Windward Cooler 14	4	tissue	X							1a SS comp 1 1a comp 3 1a SS comp 2 1b comp 1
8/29-9/5/17	Varies	Windward Cooler 15	4	tissue	X							1b-SS comp 2 1b SS comp 3 2b-SS comp 1 2b SS comp 2
8/29-9/5/17	Varies	Windward Cooler 16	5	tissue	X							2a-SS comp 1 2a SS comp 2 2c-SS comp 3 2b SS comp 3 Additional R2ES
/												

Total Number of Containers: 17 Purchase Order / Statement of Work #

1) Released by: Print name: <u>A Vandervort</u> Signature: <u>[Signature]</u> Company: <u>Windward</u> Date/Time: <u>9/25/17</u>	1) Rec'd by: <u>[Signature]</u> Company: <u>AVC</u> Date/Time: <u>09/25/17 13:30</u>	2) Released by: Print name: <u>Susan Dumitro</u> Signature: <u>[Signature]</u> Company: <u>AVC</u> Date/Time: <u>09/25/2017 17:00</u>	2) Rec'd by: <u>[Signature]</u> Company: <u>YL # 736</u> Date/Time: <u>09/25/17 17:00</u>
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Received by: [Signature] To be completed by Laboratory upon sample receipt:

Date of receipt: <u>26-Sep-2017 11:05</u>	Laboratory W.O. #:
Condition upon receipt: <u>intact</u>	Time of receipt:
Cooler temperature:	Received by:

CHAIN-OF-CUSTODY/TEST REQUEST FORM

No 3802

Project/Client Name: Windward
 Project Number: Task 4
 Contact Name: Amara Vandervorst
 Sampled By: TD and KM

Ship to: Axys
 Attn: Georgina Brooks Shipping Date: 9/25/17
 Shipper: Courier Airbill Number: NA
 Form filled out by: AV Turnaround requested: Std

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)]
					PCB	congeners					
9/25/17	1555	Windward Cooler #17	1	Stainless Steel wire mesh holder	X						
9/25/17	1555	Windward Cooler #18	1	Stainless Steel wire mesh holder	X						
Total Number of Containers			2	Purchase Order / Statement of Work #							

1) Released by: Print name: <u>THAN TD</u> Signature: <u>[Signature]</u> Company: <u>Windward</u> Date/Time: <u>09.25.17/1555</u>	1) Rec'd by: <u>[Signature]</u> Company: <u>AP4</u> Date/Time: <u>09/25/2017 15:55</u>	2) Released by: Print name: <u>SPAWN HOD</u> Signature: <u>[Signature]</u> Company: <u>AP4</u> Date/Time: <u>09/25/2017 17:00</u>	2) Rec'd by: <u>[Signature]</u> LISANEWORIK Company: <u>YC #736</u> Date/Time: <u>09/25/17 17:00</u>
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Received by: [Signature]

To be completed by Laboratory upon sample receipt:

Date of receipt: <u>26-Sep-2017 11:05</u>	Laboratory W.O. #:
Condition upon receipt: <u>intact</u>	Time of receipt:
Cooler temperature:	Received by:

SGS AXYS Analytical Services Ltd
SAMPLE RECEIVING RECORD

Waybill : Yes / No
Date Shipped: 26-SEP-20

Waybill #: HAND DELIVERY 26-SEP-2017-9
Date /Time Received: 26-SEP-17 11:05

SGS AXYS Client & Contract # 4033-Windward Environmental

Project Number: _____ Receipt No: WB22757

Login Number: _____

Received By: AVOSKNUDSEN

KD 03-Oct-2017

Log in by: *KDey*

Signature: *[Signature]*

Axys Sample ID's: *L28215-1,2,4*

Matrix Type: tissue

Condition of Shipping Container: *INTACT*

Temperature upon Receipt: -5 Celcius wet ice melting

Thermometer ID: 5568
Corrected Temperature: -4 Celcius

Custody Seals: Shipping Containers Yes / No Intact Yes / No Seal Numbers Yes / No

Samples Yes / No Intact Yes / No Seal Numbers Yes / No

Chain of Custody or Documents: Yes / No

Sample ID's Yes / No

Collection Location Yes / No

Date & Time Collection Yes / No

Collector's Name Yes / No

initials

Tracking Report /Packing List: Yes / No

Sample Tag Numbers Yes / No

Sample Type Yes / No

Preservative Added Yes / No

Preservation Requested Yes / No

Sample Tags Yes / No

Sample Labels Yes / No

Sample Labels Cross Referenced to COC Yes / No

Information Agrees Yes / No

Sample Tags Cross Referenced to Sample Labels Yes / No

Information Agrees Yes / No

Sample Tags Cross Referenced to COC Yes / No

Information Agrees Yes / No

Comments:

Action Taken:

Samples logged in as per PM instruction

SGS AXYS Analytical Services Ltd
SAMPLE RECEIVING RECORD

Waybill #: **Yes** **No**
Date Shipped: **26-SEP-17**

Waybill #: **HAND DELIVERY 26-SEP-2017-6**
Date /Time Received: **26-SEP-17 11:05**

SGS AXYS Client & Contract # **4033-Windward Environmental**

Project Number: _____ Receipt No: **WB22746**

Login Number: _____

Received By: **AVOSKNUDSEN**

Log in by: KDey

Signature: [Signature]

Axys Sample ID's: L28215-3, 17, 18

Matrix Type: **tissue**

Condition of Shipping Container: INTACT

Temperature upon Receipt: .7 Celcius **wet ice melting.**

Thermometer ID: **5567**
Corrected Temperature: **1.1 Celcius**

Custody Seals: Shipping Containers **Yes** **No** Intact **Yes /No** Seal Numbers **Yes /No**
Samples **Yes** **No** Intact **Yes /No** Seal Numbers **Yes /No**

Chain of Custody or Documents: **Yes /No**
Sample ID's **Yes /No**
Collection Location **Yes /No**
Date & Time Collection **Yes /No**
Collector's Name **Yes /No**

Initials

Tracking Report /Packing List: **Yes /No**
Sample Tag Numbers **Yes /No**
Sample Type **Yes /No**
Preservative Added **Yes /No**
Preservation Requested **Yes /No**

Sample Tags **Yes** **No**
Sample Labels **Yes** **No**
Sample Labels Cross Referenced to COC **Yes** **No** Information Agrees **Yes** **No**
Sample Tags Cross Referenced to Sample Labels **Yes /No** Information Agrees **Yes /No**
Sample Tags Cross Referenced to COC **Yes /No** Information Agrees **Yes /No**

Comments:

Action Taken:
Samples logged in as per PM instruction

SGS AXYS Analytical Services Ltd
SAMPLE RECEIVING RECORD

Waybill : Yes / No
Date Shipped: 26-SEP-17

Waybill #: HAND DELIVERY 26-SEP-17-10
Date /Time Received: 26-SEP-17 11:20

SGS AXYS Client & Contract # 4033-Windward Environmental

Project Number: Login Number: Receipt No: WB22763

Received By: **RGENDIVE** Log in by: KDeeg Signature: [Signature]

Axys Sample ID's: L28215-4 to 6

Matrix Type: **Tissues**

Condition of Shipping Container: Intact

Temperature upon Receipt: **-1.3 Celcius** **Wet ice frozen**

Thermometer ID: 5557
Corrected Temperature: **-1.1 Celcius**

Custody Seals: Shipping Containers Yes / No Intact Yes / No Seal Numbers Yes / No
Samples Yes / No Intact Yes / No Seal Numbers Yes / No

Chain of Custody or Documents: Yes / No Tracking Report /Packing List: Yes / No
Sample ID's Yes / No Sample Tag Numbers Yes / No
Collection Location Yes / No Sample Type Yes / No
Date & Time Collection Yes / No Preservative Added Yes / No
Collector's Name initials Yes / No Preservation Requested Yes / No

Sample Tags Yes / No
Sample Labels Yes / No
Sample Labels Cross Referenced to COC Yes / No Information Agrees Yes / No
Sample Tags Cross Referenced to Sample Labels Yes / No Information Agrees Yes / No
Sample Tags Cross Referenced to COC Yes / No Information Agrees Yes / No

Comments:

Action Taken:
Samples logged in as per PM instruction

SGS AXYS Analytical Services Ltd
SAMPLE RECEIVING RECORD

Waybill : Yes No
Date Shipped: 26-SEP-17

Waybill #: HAND DLEIVERY 26-SEP-2017-11
Date /Time Received: 26-SEP-17 11:20

SGS AXYS Client & Contract # 4033-Windward Environmental

Project Number: Login Number: Receipt No: WB22764

Received By: RGENDIVE

Log in by: K Day Signature: [Signature]

Axys Sample ID's: L28215-7,8

Matrix Type: Tissue

Condition of Shipping Container: Impact

Temperature upon Receipt: 2.4 Celcius wet ice frozen

Thermometer ID: 5558
Corrected Temperature: 2.7 Celcius

Custody Seals: Shipping Containers Yes No Intact Yes /No Seal Numbers Yes /No
Samples Yes No Intact Yes /No Seal Numbers Yes /No

Chain of Custody or Documents: Yes No
Sample ID's Yes No
Collection Location Yes No
Date & Time Collection Yes No
Collector's Name Yes No
initials

Tracking Report /Packing List: Yes No
Sample Tag Numbers Yes No
Sample Type Yes No
Preservative Added Yes No
Preservation Requested Yes No

Sample Tags Yes No
Sample Labels Yes No
Sample Labels Cross Referenced to COC Yes No Information Agrees Yes No
Sample Tags Cross Referenced to Sample Labels Yes /No Information Agrees Yes /No
Sample Tags Cross Referenced to COC Yes /No Information Agrees Yes /No

Comments:

Action Taken:

Samples logged in as per PM instruction

SGS AXYS Analytical Services Ltd

SAMPLE RECEIVING RECORD

Waybill : Yes/No
Date Shipped: 26-SEP-17

Waybill #: HAND DELIVERY 26-SEP-2017-12
Date /Time Received: 26-SEP-17 11:20

SGS AXYS Client & Contract # 4033-Windward Environmental

Project Number: Login Number: Receipt No: WB22756

Received By: RGENDIVE Log in by: KDay Signature: [Signature]

Axys Sample ID's: L28215-9,10

Matrix Type: Tissue

Condition of Shipping Container: Intact

Temperature upon Receipt: -3 Celcius Wet ice frozen

Thermometer ID: 5569
Corrected Temperature: -1 Celcius

Custody Seals: Shipping Containers Yes/No Intact Yes/No Seal Numbers Yes/No
Samples Yes/No Intact Yes/No Seal Numbers Yes/No

Chain of Custody or Documents: Yes/No Tracking Report /Packing List: Yes/No
Sample ID's Yes/No Sample Tag Numbers Yes/No
Collection Location Yes/No Sample Type Yes/No
Date & Time Collection Yes/No Preservative Added Yes/No
Collector's Name Yes/No Preservation Requested Yes/No
initials

Sample Tags Yes/No
Sample Labels Yes/No
Sample Labels Cross Referenced to COC Yes/No Information Agrees Yes/No
Sample Tags Cross Referenced to Sample Labels Yes/No Information Agrees Yes/No
Sample Tags Cross Referenced to COC Yes/No Information Agrees Yes/No

Comments:

Action Taken: KD 03-Oct-2017
samples logged in as per previous PM instruction

SGS AXYS Analytical Services Ltd
SAMPLE RECEIVING RECORD

Waybill : **Yes** (No)
Date Shipped: **26-SEP-17**

Waybill #: **HAND DELIVERY 26-SEP-2017-13**
Date /Time Received: **26-SEP-17 11:05**

SGS AXYS Client & Contract # **4033-Windward Environmental**

Project Number: _____ Receipt No: **WB22760**

Login Number: _____

Received By: **AVOSKNUDSEN**

Log in by: **KDerg**

Signature: **KD**

Axys Sample ID's: **L28215-12,11**

Matrix Type: **tissue**

Condition of Shipping Container: **INTACT**

Temperature upon Receipt: **-2.4 Celcius** **wet ice melting**

Thermometer ID: **5567**
Corrected Temperature: **-2 Celcius**

Custody Seals:	Shipping Containers Yes (No)	Intact Yes /No	Seal Numbers Yes /No
	Samples Yes (No)	Intact Yes /No	Seal Numbers Yes /No

Chain of Custody or Documents:	Yes /No	Tracking Report /Packing List: Yes (No)
Sample ID's	Yes (No)	Sample Tag Numbers Yes (No)
Collection Location	Yes (No)	Sample Type Yes /No
Date & Time Collection	Yes /No	Preservative Added Yes (No)
Collector's Name	Yes /No	Preservation Requested Yes (No)

initials

Sample Tags	Yes (No)		
Sample Labels	Yes (No)		
Sample Labels Cross Referenced to COC	Yes /No	Information Agrees	Yes (No)
Sample Tags Cross Referenced to Sample Labels	Yes /No	Information Agrees	Yes /No
Sample Tags Cross Referenced to COC	Yes /No	Information Agrees	Yes /No

Comments:

Action Taken:

Samples logged in as per PM instruction

SGS AXYS Analytical Services Ltd
SAMPLE RECEIVING RECORD

Waybill : Yes/No
Date Shipped: 26-SEP-17
Waybill #: HAND DELIVERY 26-SEP-2017-4
Date /Time Received: 26-SEP-17 11:20
SGS AXYS Client & Contract # 4033-Windward Environmental
Project Number: _____
Receipt No: WB22747
Login Number: _____

Received By: RGENDIVE
Log in by: KDeeg
Signature: *[Signature]*

Axys Sample ID's: L28215-13,14

Matrix Type: Tissue

Condition of Shipping Container: Intact

Temperature upon Receipt: -4 Celcius Bags wet ice, frozen
Thermometer ID: 5558
Corrected Temperature: -1 Celcius

Custody Seals: Shipping Containers Yes/No Intact Yes/No Seal Numbers Yes/No
Samples Yes/No Intact Yes/No Seal Numbers Yes/No

Chain of Custody or Documents: Yes/No
Sample ID's Yes/No
Collection Location Yes/No
Date & Time Collection Yes/No
Collector's Name Yes/No Initials
Tracking Report /Packing List: Yes/No
Sample Tag Numbers Yes/No
Sample Type Yes/No
Preservative Added Yes/No
Preservation Requested Yes/No

Sample Tags Yes/No
Sample Labels Yes/No
Sample Labels Cross Referenced to COC Yes/No Information Agrees Yes/No
Sample Tags Cross Referenced to Sample Labels Yes/No Information Agrees Yes/No
Sample Tags Cross Referenced to COC Yes/No Information Agrees Yes/No

Comments:

Action Taken:
Samples logged in as per PM instruction

SGS AXYS Analytical Services Ltd
SAMPLE RECEIVING RECORD

Waybill : Yes/No
Date Shipped: 26-SEP-17

Waybill #: HAND DELIVERY 26-SEP-2017-5
Date /Time Received: 26-SEP-17 11:20

SGS AXYS Client & Contract # 4033-Windward Environmental

Project Number: _____ Receipt No: WB22749

Login Number: _____

Received By: RGENDIVE

Log in by: KDej

Signature: [Signature]

Axys Sample ID's: L28215-15,16

Matrix Type: Tissues

Condition of Shipping Container: INTACT

Temperature upon Receipt: 1.5 Celcius Bags wet ice, frozen

Thermometer ID: 5536
Corrected Temperature: 1.8 Celcius

Custody Seals: Shipping Containers Yes/No Intact Yes/No Seal Numbers Yes/No
Samples Yes/No Intact Yes/No Seal Numbers Yes/No

Chain of Custody or Documents: Yes/No
Sample ID's Yes/No
Collection Location Yes/No
Date & Time Collection Yes/No
Collector's Name Yes/No initials
Tracking Report /Packing List: Yes/No
Sample Tag Numbers Yes/No
Sample Type Yes/No
Preservative Added Yes/No
Preservation Requested Yes/No

Sample Tags Yes/No
Sample Labels Yes/No
Sample Labels Cross Referenced to COC Yes/No Information Agrees Yes/No
Sample Tags Cross Referenced to Sample Labels Yes/No Information Agrees Yes/No
Sample Tags Cross Referenced to COC Yes/No Information Agrees Yes/No

Comments:

Action Taken:
Samples logged in as per PM instruction

SGS AXYS Analytical Services Ltd
SAMPLE RECEIVING RECORD

Waybill : Yes / No Waybill #: **HAND DELIVERY 26-SEP-2017-7**
Date Shipped: **26-SEP-17** Date /Time Received: **26-SEP-17 11:05**
SGS AXYS Client & Contract # **4033-Windward Environmental**
Project Number: _____ Receipt No: **WB22748**
Login Number: _____

Received By: **AVOSKNUDSEN** Log in by: KDey Signature: [Signature]
Ays Sample ID's: L28215-19,20

Matrix Type: **tissue**
Condition of Shipping Container: INTACT
Temperature upon Receipt: **2.4 Celcius** **wet ice melting** Thermometer ID: **5567**
Corrected Temperature: **2.8 Celcius**

Custody Seals: Shipping Containers Yes / No Intact Yes / No Seal Numbers Yes / No
Samples Yes / No Intact Yes / No Seal Numbers Yes / No

Chain of Custody or Documents: Yes / No Tracking Report /Packing List: Yes / No
Sample ID's Yes / No Sample Tag Numbers Yes / No
Collection Location Yes / No Sample Type Yes / No
Date & Time Collection Yes / No Preservative Added Yes / No
Collector's Name initials Yes / No Preservation Requested Yes / No

Sample Tags Yes / No
Sample Labels Yes / No
Sample Labels Cross Referenced to COC Yes / No Information Agrees Yes / No
Sample Tags Cross Referenced to Sample Labels Yes / No Information Agrees Yes / No
Sample Tags Cross Referenced to COC Yes / No Information Agrees Yes / No

Comments:

Action Taken:
samples logged in as per PM instruction

SGS AXYS Analytical Services Ltd
SAMPLE RECEIVING RECORD

Waybill : Yes / No
Date Shipped: 26-SEP-17

Waybill #: HAND DELIVERY 26-SEP-2017-1
Date /Time Received: 26-SEP-17 11:05

SGS AXYS Client & Contract # 4033-Windward Environmental

Project Number: _____ Receipt No: WB22752

Login Number: _____

Received By: AVOSKNUDSEN

Log in by: KDey

Signature: [Signature]

Axys Sample ID's: L28215-21,22

Matrix Type: tissue

Condition of Shipping Container: INTACT

Temperature upon Receipt: .6 Celcius wet ice melting

Thermometer ID: 5569
Corrected Temperature: .8 Celcius

Custody Seals: Shipping Containers Yes No Intact Yes /No

Samples Yes No Intact Yes /No Seal Numbers Yes /No

Chain of Custody or Documents: Yes / No

Sample ID's Yes / No

Collection Location Yes / No

Date & Time Collection Yes / No

Collector's Name Yes / No

initials

Tracking Report /Packing List: Yes / No

Sample Tag Numbers Yes / No

Sample Type Yes / No

Preservative Added Yes / No

Preservation Requested Yes / No

Sample Tags Yes / No

Sample Labels Yes / No

Sample Labels Cross Referenced to COC Yes / No

Information Agrees Yes / No

Sample Tags Cross Referenced to Sample Labels Yes / No

Information Agrees Yes / No

Sample Tags Cross Referenced to COC Yes / No

Information Agrees Yes / No

Comments:

samples logged in as per PM instruction

Action Taken:

SCS AXYS Analytical Services Ltd
SAMPLE RECEIVING RECORD

Waybill : **Yes / No**
Date Shipped: **26-SEP-17**

Waybill #: **HAND DELIVERY 26-SEP-2017-2**
Date /Time Received: **26-SEP-17 11:20**

SGS AXYS Client & Contract # **4033-Windward Environmental**

Project Number: _____ Receipt No: **WB22751**

Login Number: _____

Received By: **RGENDIVE**

Log in by: **KDey**

Signature: **[Signature]**

Axys Sample ID's: **L28215-23,24**

Matrix Type: **Tissues**

Condition of Shipping Container: **IN=ACT**

Temperature upon Receipt: **1.3 Celcius** **Wet ice, frozen**

Thermometer ID: **5568**
Corrected Temperature: **1.4 Celcius**

Custody Seals: Shipping Containers **Yes / No** Intact **Yes / No** Seal Numbers **Yes / No**
Samples **Yes / No** Intact **Yes / No** Seal Numbers **Yes / No**

Chain of Custody or Documents: **Yes / No** Tracking Report /Packing List: **Yes / No**
Sample ID's **Yes / No** Sample Tag Numbers **Yes / No**
Collection Location **Yes / No** Sample Type **Yes / No**
Date & Time Collection **Yes / No** Preservative Added **Yes / No**
Collector's Name **Yes / No** Preservation Requested **Yes / No**

initials

Sample Tags **Yes / No**
Sample Labels **Yes / No**
Sample Labels Cross Referenced to COC **Yes / No** Information Agrees **Yes / No**
Sample Tags Cross Referenced to Sample Labels **Yes / No** Information Agrees **Yes / No**
Sample Tags Cross Referenced to COC **Yes / No** Information Agrees **Yes / No**

Comments:

Action Taken:

Samples logged in as per PM instruction.

SGS AXYS Analytical Services Ltd
SAMPLE RECEIVING RECORD

Waybill : **Yes** / **No**
Date Shipped: **26-SEP-17**

Waybill #: **HAND DELIVERY 26-SEP-2017-3**
Date /Time Received: **26-SEP-17 11:05**

SGS AXYS Client & Contract # **4033-Windward Environmental**

Project Number: _____ Receipt No: **WB22762**
Login Number: _____

Received By: **AVOSKNUDSEN** Log in by: KDey Signature: [Signature]

Axys Sample ID's: L28215-26, 27, 25

Matrix Type: **tissue**

Condition of Shipping Container: Intact

Temperature upon Receipt: **-4.8 Celcius** **wet ice melting**

Thermometer ID: **5536**
Corrected Temperature: **-4.5 Celcius**

Custody Seals: Shipping Containers **Yes** / **No** Intact **Yes** / **No** Seal Numbers **Yes** / **No**
Samples **Yes** / **No** Intact **Yes** / **No** Seal Numbers **Yes** / **No**

Chain of Custody or Documents: **Yes** / **No** Tracking Report /Packing List: **Yes** / **No**
Sample ID's **Yes** / **No** Sample Tag Numbers **Yes** / **No**
Collection Location **Yes** / **No** Sample Type **Yes** / **No**
Date & Time Collection **Yes** / **No** Preservative Added **Yes** / **No**
Collector's Name **Yes** / **No** Preservation Requested **Yes** / **No**
initials

Sample Tags **Yes** / **No**
Sample Labels **Yes** / **No**
Sample Labels Cross Referenced to COC **Yes** / **No** Information Agrees **Yes** / **No**
Sample Tags Cross Referenced to Sample Labels **Yes** / **No** Information Agrees **Yes** / **No**
Sample Tags Cross Referenced to COC **Yes** / **No** Information Agrees **Yes** / **No**

Comments:

Action Taken:
Samples logged in as per PM instruction

SGS AXYS Analytical Services Ltd
SAMPLE RECEIVING RECORD

Waybill : Yes / No
Date Shipped: 26-SEP-17

Waybill #: HAND DELIVERY 26-SEP-2017-14
Date /Time Received: 26-SEP-17 11:20

SGS AXYS Client & Contract # 4033-Windward Environmental

Project Number:

Receipt No: WB22765

Login Number:

Received By: RGENDIVE

Log in by: KDej

Signature: [Signature]

Axys Sample ID's: L28215-28 to 31

Matrix Type: Tissue

Condition of Shipping Container: Intact

Temperature upon Receipt: 2 Celcius Wet ice Frozen

Thermometer ID: 5537
Corrected Temperature: 2.3 Celcius

Custody Seals: Shipping Containers Yes No

Intact Yes / No

Seal Numbers Yes / No

Samples Yes No

Intact Yes / No

Seal Numbers Yes / No

Chain of Custody or Documents: Yes / No

Sample ID's Yes / No

Collection Location Yes / No

Date & Time Collection Yes / No

Collector's Name Yes / No

initials

Tracking Report /Packing List: Yes / No

Sample Tag Numbers Yes / No

Sample Type Yes / No

Preservative Added Yes / No

Preservation Requested Yes / No

Sample Tags Yes No

Sample Labels Yes / No

Sample Labels Cross Referenced to COC Yes / No

Sample Tags Cross Referenced to Sample Labels Yes / No

Sample Tags Cross Referenced to COC Yes / No

Information Agrees Yes No

Information Agrees Yes / No

Information Agrees Yes / No

Comments:

Action Taken:

Samples logged in as per PM instructions

SGS AXYS Analytical Services Ltd
SAMPLE RECEIVING RECORD

Waybill : Yes No
Date Shipped: 26-SEP-17

Waybill #: HAND DELIVERY 26-SEP-2017-15
Date /Time Received: 26-SEP-17 11:20

SGS AXYS Client & Contract # 4033-Windward Environmental

Project Number: _____ Receipt No: WB22753

Login Number: _____

Received By: RGENDIVE

Log in by: KDey

Signature: [Signature]

Axys Sample ID's: L28215-32 to 35

Matrix Type: Tissue

Condition of Shipping Container: INTACT

Temperature upon Receipt: -1 Celcius Wet ice frozen

Thermometer ID: 5557
Corrected Temperature: .1 Celcius

Custody Seals:	Shipping Containers <input checked="" type="radio"/> Yes <input type="radio"/> No	Intact <input checked="" type="radio"/> Yes <input type="radio"/> No	Seal Numbers <input checked="" type="radio"/> Yes <input type="radio"/> No
	Samples <input checked="" type="radio"/> Yes <input type="radio"/> No	Intact <input checked="" type="radio"/> Yes <input type="radio"/> No	Seal Numbers <input checked="" type="radio"/> Yes <input type="radio"/> No

Chain of Custody or Documents:

Sample ID's	<input checked="" type="radio"/> Yes <input type="radio"/> No
Collection Location	<input checked="" type="radio"/> Yes <input type="radio"/> No
Date & Time Collection	<input checked="" type="radio"/> Yes <input type="radio"/> No
Collector's Name	<input checked="" type="radio"/> Yes <input type="radio"/> No

initials

Tracking Report /Packing List: Yes No

Sample Tag Numbers	<input checked="" type="radio"/> Yes <input type="radio"/> No
Sample Type	<input checked="" type="radio"/> Yes <input type="radio"/> No
Preservative Added	<input checked="" type="radio"/> Yes <input type="radio"/> No
Preservation Requested	<input checked="" type="radio"/> Yes <input type="radio"/> No

Sample Tags	<input checked="" type="radio"/> Yes <input type="radio"/> No		
Sample Labels	<input checked="" type="radio"/> Yes <input type="radio"/> No		
Sample Labels Cross Referenced to COC	<input checked="" type="radio"/> Yes <input type="radio"/> No	Information Agrees	<input checked="" type="radio"/> Yes <input type="radio"/> No
Sample Tags Cross Referenced to Sample Labels	<input checked="" type="radio"/> Yes <input type="radio"/> No	Information Agrees	<input checked="" type="radio"/> Yes <input type="radio"/> No
Sample Tags Cross Referenced to COC	<input checked="" type="radio"/> Yes <input type="radio"/> No	Information Agrees	<input checked="" type="radio"/> Yes <input type="radio"/> No

Comments: _____

Action Taken: Samples logged in as per PM instruction

SGS AXYS Analytical Services Ltd
SAMPLE RECEIVING RECORD

Waybill : Yes/No Waybill #: **HAND DELIVERY 26-SEP-2017-16**
Date Shipped: **26-SEP-17** Date /Time Received: **26-SEP-17 11:05**

SGS AXYS Client & Contract # 4033-Windward Environmental

Project Number: Login Number: Receipt No: **WB22750**

Received By: **AVOSKNUDSEN** Log in by: KDey Signature: [Signature]

Axys Sample ID's: L28215-36 to 39, L28243-1

Matrix Type: **tissue**

Condition of Shipping Container: INTACT

Temperature upon Receipt: **-3 Celcius** **wet ice melting**

Thermometer ID: **5536**
Corrected Temperature: **0 Celcius**

Custody Seals: Shipping Containers Yes/No Intact Yes/No Seal Numbers Yes/No
Samples Yes/No Intact Yes/No Seal Numbers Yes/No

Chain of Custody or Documents: Yes/No Tracking Report /Packing List: Yes/No
Sample ID's Yes/No Sample Tag Numbers Yes/No
Collection Location Yes/No Sample Type Yes/No
Date & Time Collection Yes/No Preservative Added Yes/No
Collector's Name Yes/No Preservation Requested Yes/No
initials

Sample Tags Yes/No
Sample Labels Yes/No
Sample Labels Cross Referenced to COC Yes/No Information Agrees Yes/No
Sample Tags Cross Referenced to Sample Labels Yes/No Information Agrees Yes/No
Sample Tags Cross Referenced to COC Yes/No Information Agrees Yes/No

Comments:

Action Taken:

samples logged in as per PM instruction

SGS AXYS Analytical Services Ltd
SAMPLE RECEIVING RECORD

Waybill : Yes / No Waybill #: **HAND DELIVERY 26-SEP-2017-8**
Date Shipped: **26-SEP-17** Date /Time Received: **26-SEP-17 11:05**
SGS AXYS Client & Contract # **4033-Windward Environmental**
Project Number: Receipt No: **WB22754**
Login Number:

Received By: **AVOSKNUDSEN** Log in by: KDej Signature: [Signature]
Axs Sample ID's: L28215-40 to 43

Matrix Type: **tissue**
Condition of Shipping Container: INTACT
Temperature upon Receipt: **.6 Celcius** **wet ice melting**
Thermometer ID: **5569**
Corrected Temperature: **.8 Celcius**

Custody Seals: Shipping Containers Yes / No Intact Yes / No Seal Numbers Yes / No
 Samples Yes / No Intact Yes / No Seal Numbers Yes / No

Chain of Custody or Documents: Yes / No Tracking Report /Packing List: Yes / No
Sample ID's Yes / No Sample Tag Numbers Yes / No
Collection Location Yes / No Sample Type Yes / No
Date & Time Collection Yes / No Preservative Added Yes / No
Collector's Name Yes / No Preservation Requested Yes / No

Sample Tags Yes / No
Sample Labels Yes / No
Sample Labels Cross Referenced to COC Yes / No Information Agrees Yes / No
Sample Tags Cross Referenced to Sample Labels Yes / No Information Agrees Yes / No
Sample Tags Cross Referenced to COC Yes / No Information Agrees Yes / No

Comments:

Action Taken:
samples logged in as per PM instruction

SGS AXYS Analytical Services Ltd.
 Login Chain of Custody Report (In01)
 Nov. 17, 2017
 03:40 PM

*for scanning
 JBreake
 17-Nov-2017*

Login Number: L28215
 Account: 4033 Windward Environmental
 Project: DUWAMISH 2017

Axs ID versus Client Sample Identification		Received	Due	PR
L28215-1		26-SEP-17		
Storage: WIF-4 SUBS SHIPPING SHELF; Subs1 in a box under 6D				
LDW17-R1-ESFL-comp01	1-ES-COMP1			
16-OCT-17 00:00	Project #: DUWAMISH 2017			
Description: collection date: 8/29-9/5/17				
Comments: ES090, ES130, ES103, ES084, ES110, ES095, ES142, ES122, ES098, ES087				
Tissue	COMPOSITE			USD
Tissue	DISSECT			USD
Tissue	DX017.1613			USD
Tissue	DX017.1613-2			USD
Tissue	HOMOGENIZATION			USD
Tissue	PB010.1668C			USD
Tissue	PB010.1668C-CC1			USD
Tissue	SUBSAMP 2 W/ DATA			USD
Tissue	SUBSAMP 4 W/ DATA			USD
EDataDeliv	DX017 EDD			USD
EDataDeliv	PB010 EDD			USD
Data Package	DX017 DPKG			USD
Data Package	HOMOG DATA PKG			USD
Data Package	PB010 DPKG			USD
ANY	SAMPLE RECEIPT	10	: Plastic Bag	USD
L28215-2		26-SEP-17		
Storage: WIF-4 SUBS SHIPPING SHELF; Subs1 in a box under 6D				
LDW17-R1-ESFL-comp02	1-ES-COMP2			
16-OCT-17 00:00	Project #: DUWAMISH 2017			
Description: collection date: 8/29-9/5/17				
Comments: ES121, ES111, ES071, ES096, ES094, ES132, ES139, ES131, ES100, ES102				
Tissue	COMPOSITE			USD
Tissue	DISSECT			USD
Tissue	DX017.1613			USD
Tissue	DX017.1613-2			USD
Tissue	HOMOGENIZATION			USD
Tissue	SUBSAMP 2 W/ DATA			USD
Tissue	SUBSAMP 4 W/ DATA			USD
EDataDeliv	DX017 EDD			USD
Data Package	DX017 DPKG			USD
Data Package	HOMOG DATA PKG			USD
ANY	SAMPLE RECEIPT	10	: Plastic Bag	USD

SGS AXYS Analytical Services Ltd.

Login Chain of Custody Report (In01)

Nov. 17, 2017

03:40 PM

Login Number: L28215

Account: 4033 Windward Environmental

Project: DUWAMISH 2017

Page: 2 of 21

Axs ID versus Client Sample Identification		Received	Due	PR
L28215-3		26-SEP-17		
Storage: WIF-4 SUBS SHIPPING SHELF; Subs1 in a box under 6D				
LDW17-R1-ESFL-comp03	1-ES-COMP3			
16-OCT-17 00:00	Project #: DUWAMISH 2017			
Description: collection date: 8/29-9/5/17				
Comments: ES088, ES129, ES118, ES116, ES125, ES073, ES092, ES091, ES113, ES138				
Tissue	COMPOSITE	:		USD
Tissue	DISSECT	:		USD
Tissue	DX017.1613	:		USD
Tissue	DX017.1613-2	:		USD
Tissue	HOMOGENIZATION	:		USD
Tissue	SUBSAMP 2 W/ DATA	:		USD
Tissue	SUBSAMP 4 W/ DATA	:		USD
EDataDeliv	DX017 EDD	:		USD
Data Package	DX017 DPKG	:		USD
Data Package	HOMOG DATA PKG	:		USD
ANY	SAMPLE RECEIPT	10	: Plastic Bag	USD
L28215-4		26-SEP-17		
Storage: WIF-4 SUBS SHIPPING SHELF; Subs1 in a box under 6D				
LDW17-R1-ESFL-comp04	1-ES-COMP4			
17-OCT-17 00:00	Project #: DUWAMISH 2017			
Description: collection date: 8/29-9/5/17				
Comments: ES080, ES141, ES128, ES093, ES086, ES108, ES124, ES101, ES099, ES117				
Tissue	COMPOSITE	:		USD
Tissue	DISSECT	:		USD
Tissue	DX017.1613	:		USD
Tissue	DX017.1613-2	:		USD
Tissue	HOMOGENIZATION	:		USD
Tissue	PB010.1668C	:		USD
Tissue	PB010.1668C-CC1	:		USD
Tissue	SUBSAMP 2 W/ DATA	:		USD
Tissue	SUBSAMP 4 W/ DATA	:		USD
EDataDeliv	DX017 EDD	:		USD
EDataDeliv	PB010 EDD	:		USD
Data Package	DX017 DPKG	:		USD
Data Package	HOMOG DATA PKG	:		USD
Data Package	PB010 DPKG	:		USD
ANY	SAMPLE RECEIPT	10	: Plastic Bag	USD

SGS AXYS Analytical Services Ltd.

Login Chain of Custody Report (In01)

Nov. 17, 2017

03:40 PM

Login Number: L28215

Account: 4033 Woodward Environmental

Project: DUWAMISH 2017

Page: 3 of 21

Axs ID versus Client Sample Identification		Received	Due	PR
L28215-5		26-SEP-17		
Storage: WIF-4 SUBS SHIPPING SHELF; Subs1 in a box under 6D				
LDW17-R1-ESFL-comp05 17-OCT-17 00:00	1-ES-COMP5 Project #: DUWAMISH 2017	Description: collection date: 8/29-9/5/17		
Comments: ES081, ES072, ES097, ES119, ES082, ES127, ES109, ES085, ES140, ES089				
Tissue	COMPOSITE	:		USD
Tissue	DISSECT	:		USD
Tissue	DX017.1613	:		USD
Tissue	DX017.1613-2	:		USD
Tissue	HOMOGENIZATION	:		USD
Tissue	SUBSAMP 2 W/ DATA	:		USD
Tissue	SUBSAMP 3 W/ DATA	:		USD
Tissue	SUBSAMP 4 W/ DATA	:		USD
EDataDeliv	DX017 EDD	:		USD
Data Package	DX017 DPKG	:		USD
Data Package	HOMOG DATA PKG	:		USD
ANY	SAMPLE RECEIPT	10	Plastic Bag	USD
L28215-6		26-SEP-17		
Storage: WIF-4 SUBS SHIPPING SHELF; Subs1 in a box under 6D				
LDW17-R1-ESFL-comp06 17-OCT-17 00:00	1-ES-COMP6 Project #: DUWAMISH 2017	Description: collection date: 8/29-9/5/17		
Comments: ES144, ES136, ES120, ES133, ES134, ES123, ES135, ES143, ES137, ES126				
Tissue	COMPOSITE	:		USD
Tissue	DISSECT	:		USD
Tissue	DX017.1613	:		USD
Tissue	DX017.1613-2	:		USD
Tissue	HOMOGENIZATION	:		USD
Tissue	PB010.1668C	:		USD
Tissue	PB010.1668C-CC1	:		USD
Tissue	SUBSAMP 2 W/ DATA	:		USD
Tissue	SUBSAMP 4 W/ DATA	:		USD
EDataDeliv	DX017 EDD	:		USD
EDataDeliv	PB010 EDD	:		USD
Data Package	DX017 DPKG	:		USD
Data Package	HOMOG DATA PKG	:		USD
Data Package	PB010 DPKG	:		USD
ANY	SAMPLE RECEIPT	10	Plastic Bag	USD

SGS AXYS Analytical Services Ltd.
Login Chain of Custody Report (In01)
 Nov. 17, 2017
 03:40 PM

Login Number: L28215
Account: 4033 Windward Environmental
Project: DUWAMISH 2017

Axs ID versus Client Sample Identification		Received	Due	PR
L28215-7		26-SEP-17		
Storage: WIF-4 SUBS SHIPPING SHELF; Subs1 in a box under 6D				
LDW17-R2-ESFL-comp01	2-ES-COMP1			
17-OCT-17 00:00	Project #: DUWAMISH 2017			
Description: collection date: 8/29-9/5/17				
Comments: ES007, ES067, ES152, ES048, ES041, ES058, ES052, ES014, ES068, ES030				
Tissue	COMPOSITE	:		USD
Tissue	DISSECT	:		USD
Tissue	DX017.1613	:		USD
Tissue	DX017.1613-2	:		USD
Tissue	HOMOGENIZATION	:		USD
Tissue	SUBSAMP 2 W/ DATA	:		USD
Tissue	SUBSAMP 3 W/ DATA	:		USD
Tissue	SUBSAMP 4 W/ DATA	:		USD
EDataDeliv	DX017 EDD	:		USD
Data Package	DX017 DPKG	:		USD
Data Package	HOMOG DATA PKG	:		USD
ANY	SAMPLE RECEIPT	10	: Plastic Bag	USD
L28215-8		26-SEP-17		
Storage: WIF-4 SUBS SHIPPING SHELF; Subs1 in a box under 6D				
LDW17-R2-ESFL-comp02	2-ES-COMP2			
18-OCT-17 00:00	Project #: DUWAMISH 2017			
Description: collection date: 8/29-9/5/17				
Comments: ES026, ES148, ES016, ES005, ES032, ES055, ES002, ES061, ES060, ES056				
Tissue	COMPOSITE	:		USD
Tissue	DISSECT	:		USD
Tissue	DX017.1613	:		USD
Tissue	DX017.1613-2	:		USD
Tissue	HOMOGENIZATION	:		USD
Tissue	PB010.1668C	:		USD
Tissue	PB010.1668C-CC1	:		USD
Tissue	SUBSAMP 2 W/ DATA	:		USD
Tissue	SUBSAMP 4 W/ DATA	:		USD
EDataDeliv	DX017 EDD	:		USD
EDataDeliv	PB010 EDD	:		USD
Data Package	DX017 DPKG	:		USD
Data Package	HOMOG DATA PKG	:		USD
Data Package	PB010 DPKG	:		USD
ANY	SAMPLE RECEIPT	10	: Plastic Bag	USD

SGS AXYS Analytical Services Ltd.
Login Chain of Custody Report (In01)
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Login Number: L28215
Account: 4033 Woodward Environmental
Project: DUWAMISH 2017

Axs ID versus Client Sample Identification		Received	Due	PR
L28215-9		26-SEP-17		
Storage: WIF-4 SUBS SHIPPING SHELF; Subs1 in a box under 6D				
LDW17-R2-ESFL-comp03	2-ES-COMP3			
18-OCT-17 00:00	Project #: DUWAMISH 2017			
Description: collection date: 8/29-9/5/17				
Comments: ES147, ES035, ES039, ES057, ES018, ES022, ES064, ES019, ES047, ES034				
Tissue	COMPOSITE	:		USD
Tissue	DISSECT	:		USD
Tissue	DX017.1613	:		USD
Tissue	DX017.1613-2	:		USD
Tissue	HOMOGENIZATION	:		USD
Tissue	PB010.1668C	:		USD
Tissue	PB010.1668C-CC1	:		USD
Tissue	SUBSAMP 2 W/ DATA	:		USD
Tissue	SUBSAMP 4 W/ DATA	:		USD
EDataDeliv	DX017 EDD	:		USD
EDataDeliv	PB010 EDD	:		USD
Data Package	DX017 DPKG	:		USD
Data Package	HOMOG DATA PKG	:		USD
Data Package	PB010 DPKG	:		USD
ANY	SAMPLE RECEIPT	10	: Plastic Bag	USD
L28215-10		26-SEP-17		
Storage: WIF-4 SUBS SHIPPING SHELF; Subs1 in a box under 6D				
LDW17-R2-ESFL-comp04	2-ES-COMP4			
18-OCT-17 00:00	Project #: DUWAMISH 2017			
Description: collection date: 8/29-9/5/17				
Comments: ES027, ES054, ES011, ES021, ES145, ES059, ES154, ES042, ES069, ES146				
Tissue	COMPOSITE	:		USD
Tissue	DISSECT	:		USD
Tissue	DX017.1613	:		USD
Tissue	DX017.1613-2	:		USD
Tissue	HOMOGENIZATION	:		USD
Tissue	SUBSAMP 2 W/ DATA	:		USD
Tissue	SUBSAMP 4 W/ DATA	:		USD
EDataDeliv	DX017 EDD	:		USD
Data Package	DX017 DPKG	:		USD
Data Package	HOMOG DATA PKG	:		USD
ANY	SAMPLE RECEIPT	10	: Plastic Bag	USD

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Login Chain of Custody Report (In01)

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Login Number: L28215

Account: 4033 Woodward Environmental

Project: DUWAMISH 2017

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Axs ID versus Client Sample Identification		Received	Due	PR
L28215-11		26-SEP-17		
Storage: WIF-4 SUBS SHIPPING SHELF; Subs1 in a box under 6D				
LDW17-R2-ESFL-comp05	2-ES-COMP5			
19-OCT-17 00:00	Project #: DUWAMISH 2017			
Description: collection date: 8/29-9/5/17				
Comments: ES038, ES062, ES006, ES037, ES153, ES066, ES001, ES053, ES150, ES031				
Tissue	COMPOSITE	:		USD
Tissue	DISSECT	:		USD
Tissue	DX017.1613	:		USD
Tissue	DX017.1613-2	:		USD
Tissue	HOMOGENIZATION	:		USD
Tissue	PB010.1668C	:		USD
Tissue	PB010.1668C-CC1	:		USD
Tissue	SUBSAMP 2 W/ DATA	:		USD
Tissue	SUBSAMP 4 W/ DATA	:		USD
EDataDeliv	DX017 EDD	:		USD
EDataDeliv	PB010 EDD	:		USD
Data Package	DX017 DPKG	:		USD
Data Package	HOMOG DATA PKG	:		USD
Data Package	PB010 DPKG	:		USD
ANY	SAMPLE RECEIPT	10	: Plastic Bag	USD
L28215-12		26-SEP-17		
Storage: WIF-4 SUBS SHIPPING SHELF; Subs1 in a box under 6D				
LDW17-R2-ESFL-comp06	2-ES-COMP6			
19-OCT-17 00:00	Project #: DUWAMISH 2017			
Description: collection date: 8/29-9/5/17				
Comments: ES009, ES036, ES003, ES045, ES012, ES025, ES008, ES051, ES151, ES028				
Tissue	COMPOSITE	:		USD
Tissue	DISSECT	:		USD
Tissue	DX017.1613	:		USD
Tissue	DX017.1613-2	:		USD
Tissue	HOMOGENIZATION	:		USD
Tissue	SUBSAMP 2 W/ DATA	:		USD
Tissue	SUBSAMP 4 W/ DATA	:		USD
EDataDeliv	DX017 EDD	:		USD
Data Package	DX017 DPKG	:		USD
Data Package	HOMOG DATA PKG	:		USD
ANY	SAMPLE RECEIPT	10	: Plastic Bag	USD

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Login Chain of Custody Report (In01)
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Login Number: L28215
Account: 4033 Woodward Environmental
Project: DUWAMISH 2017

Axs ID versus Client Sample Identification		Received	Due	PR
L28215-13		26-SEP-17		
Storage: WIF-4, under 3D				
LDW17-R1-GCEM-comp01 01-NOV-17 00:00				
Project #: DUWAMISH 2017				
Description: collection date: 8/29-9/5/17				
Comments: GC051, GC072, GC054, GC031, GC079, GC060, GC029				
Tissue	COMPOSITE	:		USD
Tissue	DISSECT	:		USD
Tissue	DX017.1613	:		USD
Tissue	DX017.1613-2	:		USD
Tissue	HOMOGENIZATION	:		USD
Tissue	PB010.1668C	:		USD
Tissue	PB010.1668C-CC1	:		USD
Tissue	SUBSAMP 1 W/ DATA	:		USD
Tissue	SUBSAMP 2 W/ DATA	:		USD
Tissue	SUBSAMP 4 W/ DATA	:		USD
EDataDeliv	DX017 EDD	:		USD
EDataDeliv	PB010 EDD	:		USD
Data Package	DX017 DPKG	:		USD
Data Package	HOMOG DATA PKG	:		USD
Data Package	PB010 DPKG	:		USD
ANY	SAMPLE RECEIPT	7	: Plastic Bag	USD
L28215-14		26-SEP-17		
Storage: WIF-4, under 3D				
LDW17-R1-GCEM-comp02 01-NOV-17 00:00				
Project #: DUWAMISH 2017				
Description: collection date: 8/29-9/5/17				
Comments: GC050, GC066, GC076, GC055, GC044, GC043, GC048				
Tissue	COMPOSITE	:		USD
Tissue	DISSECT	:		USD
Tissue	DX017.1613	:		USD
Tissue	DX017.1613-2	:		USD
Tissue	HOMOGENIZATION	:		USD
Tissue	PB010.1668C	:		USD
Tissue	PB010.1668C-CC1	:		USD
Tissue	SUBSAMP 1 W/ DATA	:		USD
Tissue	SUBSAMP 2 W/ DATA	:		USD
Tissue	SUBSAMP 4 W/ DATA	:		USD
EDataDeliv	DX017 EDD	:		USD
EDataDeliv	PB010 EDD	:		USD
Data Package	DX017 DPKG	:		USD
Data Package	HOMOG DATA PKG	:		USD
Data Package	PB010 DPKG	:		USD
ANY	SAMPLE RECEIPT	7	: Plastic Bag	USD

SGS AXYS Analytical Services Ltd.
Login Chain of Custody Report (In01)
 Nov. 17, 2017
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Login Number: L28215
Account: 4033 Woodward Environmental
Project: DUWAMISH 2017

Axs ID versus Client Sample Identification		Received	Due	PR
L28215-15		26-SEP-17		
Storage: WIF-4, under 3D				
LDW17-R1-GCEM-comp03				
01-NOV-17 00:00				
Project #: DUWAMISH 2017				
Description: collection date: 8/29-9/5/17				
Comments: GC034, GC059, GC057, GC064, GC023, GC027, GC030				
Tissue	COMPOSITE	:		USD
Tissue	DISSECT	:		USD
Tissue	DX017.1613	:		USD
Tissue	DX017.1613-2	:		USD
Tissue	HOMOGENIZATION	:		USD
Tissue	PB010.1668C	:		USD
Tissue	PB010.1668C-CC1	:		USD
Tissue	SUBSAMP 1 W/ DATA	:		USD
Tissue	SUBSAMP 2 W/ DATA	:		USD
Tissue	SUBSAMP 4 W/ DATA	:		USD
EDataDeliv	DX017 EDD	:		USD
EDataDeliv	PB010 EDD	:		USD
Data Package	DX017 DPKG	:		USD
Data Package	HOMOG DATA PKG	:		USD
Data Package	PB010 DPKG	:		USD
ANY	SAMPLE RECEIPT	7	: Plastic Bag	USD
L28215-16		26-SEP-17		
Storage: WIF-4, under 3D				
LDW17-R1-GCEM-comp04				
01-NOV-17 00:00				
Project #: DUWAMISH 2017				
Description: collection date: 8/29-9/5/17				
Comments: GC049, GC058, GC065, GC053, GC063, GC024, GC041				
Tissue	COMPOSITE	:		USD
Tissue	DISSECT	:		USD
Tissue	DX017.1613	:		USD
Tissue	DX017.1613-2	:		USD
Tissue	HOMOGENIZATION	:		USD
Tissue	PB010.1668C	:		USD
Tissue	PB010.1668C-CC1	:		USD
Tissue	SUBSAMP 1 W/ DATA	:		USD
Tissue	SUBSAMP 2 W/ DATA	:		USD
Tissue	SUBSAMP 4 W/ DATA	:		USD
EDataDeliv	DX017 EDD	:		USD
EDataDeliv	PB010 EDD	:		USD
Data Package	DX017 DPKG	:		USD
Data Package	HOMOG DATA PKG	:		USD
Data Package	PB010 DPKG	:		USD
ANY	SAMPLE RECEIPT	7	: Plastic Bag	USD

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Login Chain of Custody Report (In01)
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Login Number: L28215
Account: 4033 Windward Environmental
Project: DUWAMISH 2017

Axs ID versus Client Sample Identification		Received	Due	PR
L28215-17		26-SEP-17		
Storage: WIF-4, under 3D				
LDW17-R1-GCEM-comp05 03-NOV-17 00:00 Project #: DUWAMISH 2017				
Description: collection date: 8/29-9/5/17				
Comments: GC052, GC033, GC032, GC077, GC078, GC061, GC036				
Tissue	COMPOSITE	:		USD
Tissue	DISSECT	:		USD
Tissue	DX017.1613	:		USD
Tissue	DX017.1613-2	:		USD
Tissue	HOMOGENIZATION	:		USD
Tissue	SUBSAMP 1 W/ DATA	:		USD
Tissue	SUBSAMP 2 W/ DATA	:		USD
Tissue	SUBSAMP 4 W/ DATA	:		USD
EDataDeliv	DX017 EDD	:		USD
Data Package	DX017 DPKG	:		USD
Data Package	HOMOG DATA PKG	:		USD
ANY	SAMPLE RECEIPT	7	: Plastic Bag	USD
L28215-18		26-SEP-17		
Storage: WIF-4, under 3D				
LDW17-R1-GCEM-comp06 03-NOV-17 00:00 Project #: DUWAMISH 2017				
Description: collection date: 8/29-9/5/17				
Comments: GC068, GC067, GC073, GC056, GC045, GC047, GC038				
Tissue	COMPOSITE	:		USD
Tissue	DISSECT	:		USD
Tissue	DX017.1613	:		USD
Tissue	DX017.1613-2	:		USD
Tissue	HOMOGENIZATION	:		USD
Tissue	SUBSAMP 1 W/ DATA	:		USD
Tissue	SUBSAMP 2 W/ DATA	:		USD
Tissue	SUBSAMP 4 W/ DATA	:		USD
EDataDeliv	DX017 EDD	:		USD
Data Package	DX017 DPKG	:		USD
Data Package	HOMOG DATA PKG	:		USD
ANY	SAMPLE RECEIPT	7	: Plastic Bag	USD

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Login Number: L28215
Account: 4033 Woodward Environmental
Project: DUWAMISH 2017

Axs ID versus Client Sample Identification		Received	Due	PR
L28215-19		26-SEP-17		
	Storage: WIF-4, under 3D			
LDW17-R2-GCEM-comp01				
06-NOV-17 00:00				
	Project #: DUWAMISH 2017			
	Description: collection date: 8/29-9/5/17			
Comments: GC104, GC022, GC084, GC090, GC086, GC005, GC103				
Tissue	COMPOSITE	:		USD
Tissue	DISSECT	:		USD
Tissue	DX017.1613	:		USD
Tissue	DX017.1613-2	:		USD
Tissue	HOMOGENIZATION	:		USD
Tissue	PB010.1668C	:		USD
Tissue	PB010.1668C-CC1	:		USD
Tissue	SUBSAMP 1 W/ DATA	:		USD
Tissue	SUBSAMP 2 W/ DATA	:		USD
Tissue	SUBSAMP 3 W/ DATA	:		USD
Tissue	SUBSAMP 4 W/ DATA	:		USD
EDataDeliv	DX017 EDD	:		USD
EDataDeliv	PB010 EDD	:		USD
Data Package	DX017 DPKG	:		USD
Data Package	HOMOG DATA PKG	:		USD
Data Package	PB010 DPKG	:		USD
ANY	SAMPLE RECEIPT	7	: Plastic Bag	USD

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Login Chain of Custody Report (In01)
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Login Number: L28215
Account: 4033 Woodward Environmental
Project: DUWAMISH 2017

Axs ID versus Client Sample Identification		Received	Due	PR
L28215-20		26-SEP-17		
Storage: WIF-4, under 3D				
LDW17-R2-GCEM-comp02				
06-NOV-17 00:00				
Project #: DUWAMISH 2017				
Description: collection date: 8/29-9/5/17				
Comments: GC014, GC008, GC009, GC080, GC091, GC088, GC018				
Tissue	COMPOSITE	:		USD
Tissue	DISSECT	:		USD
Tissue	DX017.1613	:		USD
Tissue	DX017.1613-2	:		USD
Tissue	HOMOGENIZATION	:		USD
Tissue	PB010.1668C	:		USD
Tissue	PB010.1668C-CC1	:		USD
Tissue	SUBSAMP 1 W/ DATA	:		USD
Tissue	SUBSAMP 2 W/ DATA	:		USD
Tissue	SUBSAMP 3 W/ DATA	:		USD
Tissue	SUBSAMP 4 W/ DATA	:		USD
EDataDeliv	DX017 EDD	:		USD
EDataDeliv	PB010 EDD	:		USD
Data Package	DX017 DPKG	:		USD
Data Package	HOMOG DATA PKG	:		USD
Data Package	PB010 DPKG	:		USD
ANY	SAMPLE RECEIPT	7	: Plastic Bag	USD
L28215-21		26-SEP-17		
Storage: WIF-4, under 3D				
LDW17-R2-GCEM-comp03				
08-NOV-17 00:00				
Project #: DUWAMISH 2017				
Description: collection date: 8/29-9/5/17				
Comments: GC001, GC015, GC094, GC083, GC085, GC016, GC017				
Tissue	COMPOSITE	:		USD
Tissue	DISSECT	:		USD
Tissue	DX017.1613	:		USD
Tissue	DX017.1613-2	:		USD
Tissue	HOMOGENIZATION	:		USD
Tissue	SUBSAMP 1 W/ DATA	:		USD
Tissue	SUBSAMP 2 W/ DATA	:		USD
Tissue	SUBSAMP 4 W/ DATA	:		USD
EDataDeliv	DX017 EDD	:		USD
Data Package	DX017 DPKG	:		USD
Data Package	HOMOG DATA PKG	:		USD
ANY	SAMPLE RECEIPT	7	: Plastic Bag	USD

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Login Chain of Custody Report (In01)
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Login Number: L28215
Account: 4033 Windward Environmental
Project: DUWAMISH 2017

Axs ID versus Client Sample Identification		Received	Due	PR
L28215-22		26-SEP-17		
	Storage: WIF-4, under 3D			
LDW17-R2-GCEM-comp04				
06-NOV-17 00:00	Project #: DUWAMISH 2017			
	Description: collection date: 8/29-9/5/17			
Comments: GC096, GC021, GC002, GC019, GC102, GC020, GC012				
Tissue	COMPOSITE	:		USD
Tissue	DISSECT	:		USD
Tissue	DX017.1613	:		USD
Tissue	DX017.1613-2	:		USD
Tissue	HOMOGENIZATION	:		USD
Tissue	SUBSAMP 1 W/ DATA	:		USD
Tissue	SUBSAMP 2 W/ DATA	:		USD
Tissue	SUBSAMP 4 W/ DATA	:		USD
EDataDeliv	DX017 EDD	:		USD
Data Package	DX017 DPKG	:		USD
Data Package	HOMOG DATA PKG	:		USD
ANY	SAMPLE RECEIPT	7	: Plastic Bag	USD
L28215-23		26-SEP-17		
	Storage: WIF-4, under 3D			
LDW17-R2-GCEM-comp05				
06-NOV-17 00:00	Project #: DUWAMISH 2017			
	Description: collection date: 8/29-9/5/17			
Comments: GC089, GC081, GC013, GC097, GC025, GC099, GC101				
Tissue	COMPOSITE	:		USD
Tissue	DISSECT	:		USD
Tissue	DX017.1613	:		USD
Tissue	DX017.1613-2	:		USD
Tissue	HOMOGENIZATION	:		USD
Tissue	PB010.1668C	:		USD
Tissue	PB010.1668C-CC1	:		USD
Tissue	SUBSAMP 1 W/ DATA	:		USD
Tissue	SUBSAMP 2 W/ DATA	:		USD
Tissue	SUBSAMP 4 W/ DATA	:		USD
EDataDeliv	DX017 EDD	:		USD
EDataDeliv	PB010 EDD	:		USD
Data Package	DX017 DPKG	:		USD
Data Package	HOMOG DATA PKG	:		USD
Data Package	PB010 DPKG	:		USD
ANY	SAMPLE RECEIPT	7	: Plastic Bag	USD

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Login Number: L28215

Account: 4033 Woodward Environmental

Project: DUWAMISH 2017

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Axs ID versus Client Sample Identification		Received	Due	PR
L28215-24		26-SEP-17		
Storage: WIF-4, under 3D				
LDW17-R2-GCEM-comp06				
06-NOV-17 00:00				
Project #: DUWAMISH 2017				
Description: collection date: 8/29-9/5/17				
Comments: GC087, GC100, GC082, GC003, GC098, GC095, GC093				
Tissue	COMPOSITE	:		USD
Tissue	DISSECT	:		USD
Tissue	DX017.1613	:		USD
Tissue	DX017.1613-2	:		USD
Tissue	HOMOGENIZATION	:		USD
Tissue	PB010.1668C	:		USD
Tissue	PB010.1668C-CC1	:		USD
Tissue	SUBSAMP 1 W/ DATA	:		USD
Tissue	SUBSAMP 2 W/ DATA	:		USD
Tissue	SUBSAMP 4 W/ DATA	:		USD
EDataDeliv	DX017 EDD	:		USD
EDataDeliv	PB010 EDD	:		USD
Data Package	DX017 DPKG	:		USD
Data Package	HOMOG DATA PKG	:		USD
Data Package	PB010 DPKG	:		USD
ANY	SAMPLE RECEIPT	7	: Plastic Bag	USD
L28215-25		26-SEP-17		
Storage: WIF-4, under 3D				
LDW17-DCEM-comp01				
08-NOV-17 00:00				
Project #: DUWAMISH 2017				
Description: collection date: 8/29-9/5/17				
Comments: DC001, DC006, DC002				
Tissue	COMPOSITE	:		USD
Tissue	DISSECT	:		USD
Tissue	DX017.1613	:		USD
Tissue	DX017.1613-2	:		USD
Tissue	HOMOGENIZATION	:		USD
Tissue	PB010.1668C	:		USD
Tissue	PB010.1668C-CC1	:		USD
Tissue	SUBSAMP 1 W/ DATA	:		USD
EDataDeliv	DX017 EDD	:		USD
EDataDeliv	PB010 EDD	:		USD
Data Package	DX017 DPKG	:		USD
Data Package	HOMOG DATA PKG	:		USD
Data Package	PB010 DPKG	:		USD
ANY	SAMPLE RECEIPT	2	: Plastic Bag	USD

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Login Chain of Custody Report (In01)
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Login Number: L28215
Account: 4033 Woodward Environmental
Project: DUWAMISH 2017

Axys ID versus Client Sample Identification		Received	Due	PR
L28215-26		26-SEP-17		
	Storage: WIF-4, under 3D			
LDW17-DCEM-comp02 07-NOV-17 00:00	Project #: DUWAMISH 2017			
	Description: collection date: 8/29-9/5/17			
Comments: DC004, DC008, DC009				
Tissue	COMPOSITE	:		USD
Tissue	DISSECT	:		USD
Tissue	DX017.1613	:		USD
Tissue	DX017.1613-2	:		USD
Tissue	HOMOGENIZATION	:		USD
Tissue	PB010.1668C	:		USD
Tissue	PB010.1668C-CC1	:		USD
Tissue	SUBSAMP 1 W/ DATA	:		USD
EDataDeliv	DX017 EDD	:		USD
EDataDeliv	PB010 EDD	:		USD
Data Package	DX017 DPKG	:		USD
Data Package	HOMOG DATA PKG	:		USD
Data Package	PB010 DPKG	:		USD
ANY	SAMPLE RECEIPT	4	: Plastic Bag	USD
L28215-27		26-SEP-17		
	Storage: WIF-4, under 3D			
LDW17-DCEM-comp03 08-NOV-17 00:00	Project #: DUWAMISH 2017			
	Description: collection date: 8/29-9/5/17			
Comments: DC005, DC003, DC007				
Tissue	COMPOSITE	:		USD
Tissue	DISSECT	:		USD
Tissue	DX017.1613	:		USD
Tissue	DX017.1613-2	:		USD
Tissue	HOMOGENIZATION	:		USD
Tissue	PB010.1668C	:		USD
Tissue	PB010.1668C-CC1	:		USD
Tissue	SUBSAMP 1 W/ DATA	:		USD
EDataDeliv	DX017 EDD	:		USD
EDataDeliv	PB010 EDD	:		USD
Data Package	DX017 DPKG	:		USD
Data Package	HOMOG DATA PKG	:		USD
Data Package	PB010 DPKG	:		USD
ANY	SAMPLE RECEIPT	4	: Plastic Bag	USD

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Login Chain of Custody Report (In01)
 Nov. 17, 2017
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Login Number: L28215
Account: 4033 Windward Environmental
Project: DUWAMISH 2017

Axs ID versus Client Sample Identification		Received	Due	PR
L28215-28		26-SEP-17		
	Storage: WIF-4, under 3D			
LDW17-R1a-SS-comp01	1A-SS-COMP1			
19-OCT-17 00:00	Project #: DUWAMISH 2017			
	Description: collection date: 8/29-9/5/17			
Comments: SS206, SS197, SS192, SS238, SS220, SS199, SS222, SS193, SS207, SS213, SS236, SS189, SS198, SS202, SS230				
Tissue	COMPOSITE	:		USD
Tissue	DX017.1613	:		USD
Tissue	DX017.1613-2	:		USD
Tissue	HOMOGENIZATION	:		USD
Tissue	SUBSAMP 2 W/ DATA	:		USD
Tissue	SUBSAMP 4 W/ DATA	:		USD
Tissue	SUBSAMP3 W/O DATA	:		USD
EDataDeliv	DX017 EDD	:		USD
Data Package	DX017 DPKG	:		USD
Data Package	HOMOG DATA PKG	:		USD
ANY	SAMPLE RECEIPT	15	: Plastic Bag	USD
L28215-29		26-SEP-17		
	Storage: WIF-4, under 3D			
LDW17-R1a-SS-comp02	1A-SS-COMP2			
19-OCT-17 00:00	Project #: DUWAMISH 2017			
	Description: collection date: 8/29-9/5/17			
Comments: SS195, SS216, SS218, SS209, SS185, SS214, SS232, S229, SS208, SS240, SS237, SS196, SS203, SS233, SS234				
Tissue	COMPOSITE	:		USD
Tissue	DX017.1613	:		USD
Tissue	DX017.1613-2	:		USD
Tissue	HOMOGENIZATION	:		USD
Tissue	PB010.1668C	:		USD
Tissue	PB010.1668C-CC1	:		USD
Tissue	SUBSAMP 2 W/ DATA	:		USD
Tissue	SUBSAMP 4 W/ DATA	:		USD
EDataDeliv	DX017 EDD	:		USD
EDataDeliv	PB010 EDD	:		USD
Data Package	DX017 DPKG	:		USD
Data Package	HOMOG DATA PKG	:		USD
Data Package	PB010 DPKG	:		USD
ANY	SAMPLE RECEIPT	15	: Plastic Bag	USD

SGS AXYS Analytical Services Ltd.

Login Chain of Custody Report (In01)

Nov. 17, 2017

03:40 PM

Login Number: L28215

Account: 4033 Woodward Environmental

Project: DUWAMISH 2017

Axys ID versus Client Sample Identification		Received	Due	PR
L28215-30		26-SEP-17		
Storage: WIF-4, under 3D				
LDW17-R1a-SS-comp03	1A-SS-COMP3			
20-OCT-17 00:00	Project #: DUWAMISH 2017			
Description: collection date: 8/29-9/5/17				
Comments: SS210, SS194, SS224, SS186, SS184, SS235, SS225, SS228, SS212, SS219, SS191, SS211, SS215, SS217, SS182				
Tissue	COMPOSITE	:		USD
Tissue	DX017.1613	:		USD
Tissue	DX017.1613-2	:		USD
Tissue	HOMOGENIZATION	:		USD
Tissue	PB010.1668C	:		USD
Tissue	PB010.1668C-CC1	:		USD
Tissue	SUBSAMP 2 W/ DATA	:		USD
Tissue	SUBSAMP 4 W/ DATA	:		USD
EDataDeliv	DX017 EDD	:		USD
EDataDeliv	PB010 EDD	:		USD
Data Package	DX017 DPKG	:		USD
Data Package	HOMOG DATA PKG	:		USD
Data Package	PB010 DPKG	:		USD
ANY	SAMPLE RECEIPT	15	: Plastic Bag	USD
L28215-31		26-SEP-17		
Storage: WIF-4, under 3D				
LDW17-R1b-SS-comp01	1B-SS-COMP1			
20-OCT-17 00:00	Project #: DUWAMISH 2017			
Description: collection date: 8/29-9/5/17				
Comments: SS124, SS178, SS138, SS164, SS179, SS121, SS125, SS153, SS168, SS150, SS171, SS161, SS132, SS145, SS137				
Tissue	COMPOSITE	:		USD
Tissue	DX017.1613	:		USD
Tissue	DX017.1613-2	:		USD
Tissue	HOMOGENIZATION	:		USD
Tissue	PB010.1668C	:		USD
Tissue	PB010.1668C-CC1	:		USD
Tissue	SUBSAMP 2 W/ DATA	:		USD
Tissue	SUBSAMP 4 W/ DATA	:		USD
EDataDeliv	DX017 EDD	:		USD
EDataDeliv	PB010 EDD	:		USD
Data Package	DX017 DPKG	:		USD
Data Package	HOMOG DATA PKG	:		USD
Data Package	PB010 DPKG	:		USD
ANY	SAMPLE RECEIPT	15	: Plastic Bag	USD

SGS AXYS Analytical Services Ltd.

Login Chain of Custody Report (In01)

Nov. 17, 2017

03:40 PM

Login Number: L28215

Account: 4033 Windward Environmental

Project: DUWAMISH 2017

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Axs ID versus Client Sample Identification		Received	Due	PR
L28215-32		26-SEP-17		
Storage: WIF-4, under 3D				
LDW17-R1b-SS-comp02	1B-SS-COMP2			
23-OCT-17 00:00	Project #: DUWAMISH 2017			
Description: collection date: 8/29-9/5/17				
Comments: SS177, SS148, SS163, SS135, SS165, SS144, SS146, SS157, SS133, SS173, SS151, SS169, SS136, SS175, SS130				
Tissue	COMPOSITE	:		USD
Tissue	DX017.1613	:		USD
Tissue	DX017.1613-2	:		USD
Tissue	HOMOGENIZATION	:		USD
Tissue	PB010.1668C	:		USD
Tissue	PB010.1668C-CC1	:		USD
Tissue	SUBSAMP 2 W/ DATA	:		USD
Tissue	SUBSAMP 4 W/ DATA	:		USD
EDataDeliv	DX017 EDD	:		USD
EDataDeliv	PB010 EDD	:		USD
Data Package	DX017 DPKG	:		USD
Data Package	HOMOG DATA PKG	:		USD
Data Package	PB010 DPKG	:		USD
ANY	SAMPLE RECEIPT	15	: Plastic Bag	USD
L28215-33		26-SEP-17		
Storage: WIF-4, under 3D				
LDW17-R1b-SS-comp03	1B-SS-COMP3			
23-OCT-17 00:00	Project #: DUWAMISH 2017			
Description: collection date: 8/29-9/5/17				
Comments: SS152, SS122, SS158, SS140, SS160, SS155, SS149, SS142, SS176, SS159, SS174, SS147, SS129, SS128, SS139				
Tissue	COMPOSITE	:		USD
Tissue	DX017.1613	:		USD
Tissue	DX017.1613-2	:		USD
Tissue	HOMOGENIZATION	:		USD
Tissue	SUBSAMP 2 W/ DATA	:		USD
Tissue	SUBSAMP 4 W/ DATA	:		USD
EDataDeliv	DX017 EDD	:		USD
Data Package	DX017 DPKG	:		USD
Data Package	HOMOG DATA PKG	:		USD
ANY	SAMPLE RECEIPT	15	: Plastic Bag	USD

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 Login Chain of Custody Report (In01)
 Dec. 07, 2017
 12:54 PM

for scanning
J Brooks
7 Dec - 2017

Login Number: L28215
 Account: 4033 Windward Environmental
 Project: DUWAMISH 2017

Axs ID versus Client Sample Identification		Received	Due	PR
L28215-34		26-SEP-17		
Storage: WIF-4, under 3D				
LDW17-R2b-SS-comp01	2B-SS-COMP1			
23-OCT-17 00:00	Project #: DUWAMISH 2017			
Description: collection date: 8/29-9/5/17				
Comments: SS072, SS089, SS067, SS103, SS101, SS088, SS075, SS065, SS084, SS113, SS068, SS110, SS108, SS085, SS082				
Tissue	COMPOSITE	:	:	USD
Tissue	DX017.1613	:	:	USD
Tissue	DX017.1613-2	:	:	USD
Tissue	HOMOGENIZATION	:	:	USD
Tissue	PB010.1668C	:	:	USD
Tissue	PB010.1668C-CC1	:	:	USD
Tissue	SUBSAMP 2 W/ DATA	:	:	USD
Tissue	SUBSAMP 4 W/ DATA	:	:	USD
EDataDeliv	DX017 EDD	:	:	USD
EDataDeliv	PB010 EDD	:	:	USD
Data Package	DX017 DPKG	:	:	USD
Data Package	HOMOG DATA PKG	:	:	USD
Data Package	PB010 DPKG	:	:	USD
ANY	SAMPLE RECEIPT	15	: Plastic Bag	USD
L28215-35		26-SEP-17		
Storage: WIF-4, under 3D				
LDW17-R2b-SS-comp02	2B-SS-COMP2			
24-OCT-17 00:00	Project #: DUWAMISH 2017			
Description: collection date: 8/29-9/5/17				
Comments: SS111, SS091, SS105, SS097, SS102, SS074, SS083, SS061, SS070, SS099, SS081, SS069, SS079, SS087, SS086				
Tissue	COMPOSITE	:	:	USD
Tissue	DX017.1613	:	:	USD
Tissue	DX017.1613-2	:	:	USD
Tissue	HOMOGENIZATION	:	:	USD
Tissue	SUBSAMP 2 W/ DATA	:	:	USD
Tissue	SUBSAMP 4 W/ DATA	:	:	USD
Tissue	SUBSAMP3 W/O DATA	:	:	USD
EDataDeliv	DX017 EDD	:	:	USD
Data Package	DX017 DPKG	:	:	USD
Data Package	HOMOG DATA PKG	:	:	USD
ANY	SAMPLE RECEIPT	15	: Plastic Bag	USD

sample ID corrected

sample ID corrected

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Login Chain of Custody Report (In01)

Dec. 07, 2017

12:54 PM

Login Number: L28215

Account: 4033 Woodward Environmental

Project: DUWAMISH 2017

Axs ID versus Client Sample Identification		Received	Due	PR
L28215-36		26-SEP-17		
Storage: WIF-4, under 3D				
LDW17-R2a-SS-comp01 24-OCT-17 00:00	2A-SS-COMP1 Project #: DUWAMISH 2017			
Description: collection date: 8/29-9/5/17				
Comments: SS058, SS033, SS036, SS009, SS049, SS059, SS035, SS060, SS029, SS053, SS039, SS028, SS010, SS037, SS014				
Tissue	COMPOSITE	:	:	USD
Tissue	DX017.1613	:	:	USD
Tissue	DX017.1613-2	:	:	USD
Tissue	HOMOGENIZATION	:	:	USD
Tissue	PB010.1668C	:	:	USD
Tissue	PB010.1668C-CC1	:	:	USD
Tissue	SUBSAMP 2 W/ DATA	:	:	USD
Tissue	SUBSAMP 4 W/ DATA	:	:	USD
EDataDeliv	DX017 EDD	:	:	USD
EDataDeliv	PB010 EDD	:	:	USD
Data Package	DX017 DPKG	:	:	USD
Data Package	HOMOG DATA PKG	:	:	USD
Data Package	PB010 DPKG	:	:	USD
ANY	SAMPLE RECEIPT	15	: Plastic Bag	USD
L28215-37		26-SEP-17		
Storage: WIF-4, under 3D				
LDW17-R2a-SS-comp02 25-OCT-17 00:00	2A-SS-COMP2 Project #: DUWAMISH 2017			
Description: collection date: 8/29-9/5/17				
Comments: SS024, SS032, SS026, SS031, SS017, SS003, SS047, SS044, SS004, SS045, SS040, SS050, SS055, SS016, SS006				
Tissue	COMPOSITE	:	:	USD
Tissue	DX017.1613	:	:	USD
Tissue	DX017.1613-2	:	:	USD
Tissue	HOMOGENIZATION	:	:	USD
Tissue	SUBSAMP 2 W/ DATA	:	:	USD
Tissue	SUBSAMP 4 W/ DATA	:	:	USD
EDataDeliv	DX017 EDD	:	:	USD
Data Package	DX017 DPKG	:	:	USD
Data Package	HOMOG DATA PKG	:	:	USD
ANY	SAMPLE RECEIPT	15	: Plastic Bag	USD

sample ID corrected

sample ID corrected

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Login Chain of Custody Report (In01)

Dec. 07, 2017

12:54 PM

Login Number: L28215

Account: 4033 Woodward Environmental

Project: DUWAMISH 2017

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Axs ID versus Client Sample Identification		Received	Due	PR
L28215-38		26-SEP-17		
Storage: WIF-4, under 3D				
LDW17-R2a-SS-comp03	2A-SS-COMP3			
25-OCT-17 00:00	Project #: DUWAMISH 2017			
Description: collection date: 8/29-9/5/17				
Comments: SS046, SS012, SS007, SS056, SS048, SS001, SS005, SS008, SS054, SS030, SS043, SS002, SS013, SS019, SS041				
Tissue	COMPOSITE	:		USD
Tissue	DX017.1613	:		USD
Tissue	DX017.1613-2	:		USD
Tissue	HOMOGENIZATION	:		USD
Tissue	PB010.1668C	:		USD
Tissue	PB010.1668C-CC1	:		USD
Tissue	SUBSAMP 2 W/ DATA	:		USD
Tissue	SUBSAMP 4 W/ DATA	:		USD
EDataDeliv	DX017 EDD	:		USD
EDataDeliv	PB010 EDD	:		USD
Data Package	DX017 DPKG	:		USD
Data Package	HOMOG DATA PKG	:		USD
Data Package	PB010 DPKG	:		USD
ANY	SAMPLE RECEIPT	15	Plastic Bag	USD
L28215-39		26-SEP-17		
Storage: WIF-4, under 3D				
LDW17-R2b-SS-comp03	2B-SS-COMP3			
25-OCT-17 00:00	Project #: DUWAMISH 2017			
Description: collection date: 8/29-9/5/17				
Comments: SS106, SS066, SS080, SS118, SS119, SS112, SS098, SS093, SS076, SS062, SS071, SS096, SS109, SS104, SS064				
Tissue	COMPOSITE	:		USD
Tissue	DX017.1613	:		USD
Tissue	DX017.1613-2	:		USD
Tissue	HOMOGENIZATION	:		USD
Tissue	PB010.1668C	:		USD
Tissue	PB010.1668C-CC1	:		USD
Tissue	SUBSAMP 2 W/ DATA	:		USD
Tissue	SUBSAMP 4 W/ DATA	:		USD
EDataDeliv	DX017 EDD	:		USD
EDataDeliv	PB010 EDD	:		USD
Data Package	DX017 DPKG	:		USD
Data Package	HOMOG DATA PKG	:		USD
Data Package	PB010 DPKG	:		USD
ANY	SAMPLE RECEIPT	15	Plastic Bag	USD

Sample is corrected

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Login Chain of Custody Report (In01)

Nov. 17, 2017

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Login Number: L28215

Account: 4033 Woodward Environmental

Project: DUWAMISH 2017

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Axs ID versus Client Sample Identification		Received	Due	PR
L28215-40	Storage: WIF-4 SUBS SHIPPING SHELF	26-SEP-17		
R2-GC-bag1 29-AUG-17 00:00	Project #: DUWAMISH 2017			
Description: collection date: 8/29-9/5/17				
Comments: GC081, GC100, GC095, GC082, GC093, GC006				
ANY	SAMPLE RECEIPT	6	: Plastic Bag	USD
L28215-41	Storage: WIF-4 SUBS SHIPPING SHELF	26-SEP-17		
R2-GC-bag2 29-AUG-17 00:00	Project #: DUWAMISH 2017			
Description: collection date: 8/29-9/5/17				
Comments: GC099, GC098, GC103, GC101				
ANY	SAMPLE RECEIPT	4	: Plastic Bag	USD
L28215-42	Storage: WIF-4 SUBS SHIPPING SHELF; Subs1 in a box under 6D	26-SEP-17		
R2-GC-bag3 29-AUG-17 00:00	Project #: DUWAMISH 2017			
Description: collection date: 8/29-9/5/17				
Comments: GC013, GC010, GC025, GC017, GC012				
ANY	SAMPLE RECEIPT	5	: Plastic Bag	USD
L28215-43	Storage: WIF-4 SUBS SHIPPING SHELF; Subs1 in a box under 6D	26-SEP-17		
R2-GC-bag4 29-AUG-17 00:00	Project #: DUWAMISH 2017			
Description: collection date: 8/29-9/5/17				
Comments: GC003, GC005, GC004				
ANY	SAMPLE RECEIPT	3	: Plastic Bag	USD

SGS AXYS Analytical Services Ltd.
 Login Chain of Custody Report (In01)
 Nov. 17, 2017
 03:50 PM

*for scanning
 JBrooks
 17-Nov-2017*

Login Number: L28258
 Account: 4033 Windward Environmental
 Project: DUWAMISH 2017

Axys ID versus Client Sample Identification		Received	Due	PR
L28258-1		04-OCT-17		
Storage: WIF-4, floor in front of 6				
LDW17-R1-ESRM-comp01	1-ES-COMP1			
25-OCT-17 00:00	Project #: DUWAMISH 2017			
Description: remainder from L28215-1				
Tissue	COMPOSITE	:		USD
Tissue	DX017.1613	:		USD
Tissue	DX017.1613-2	:		USD
Tissue	HOMOGENIZATION	:		USD
Tissue	PB010.1668C	:		USD
Tissue	PB010.1668C-CC1	:		USD
Tissue	SUBSAMP2 W/O DATA	:		USD
Tissue	SUBSAMP4 W/O DATA	:		USD
EDataDeliv	DX017 EDD	:		USD
EDataDeliv	PB010 EDD	:		USD
Data Package	DX017 DPKG	:		USD
Data Package	HOMOG DATA PKG	:		USD
Data Package	PB010 DPKG	:		USD
L28258-2		04-OCT-17		
Storage: WIF-4, floor in front of 6				
LDW17-R1-ESRM-comp02	1-ES-COMP2			
26-OCT-17 00:00	Project #: DUWAMISH 2017			
Description: remainder from L28215-2				
Tissue	COMPOSITE	:		USD
Tissue	DX017.1613	:		USD
Tissue	DX017.1613-2	:		USD
Tissue	HOMOGENIZATION	:		USD
Tissue	SUBSAMP2 W/O DATA	:		USD
Tissue	SUBSAMP4 W/O DATA	:		USD
EDataDeliv	DX017 EDD	:		USD
Data Package	DX017 DPKG	:		USD
Data Package	HOMOG DATA PKG	:		USD

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Login Chain of Custody Report (In01)

Nov. 17, 2017

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Login Number: L28258

Account: 4033 Woodward Environmental

Project: DUWAMISH 2017

Page: 2 of 6

Axs ID versus Client Sample Identification		Received	Due	PR
L28258-3		04-OCT-17		
Storage: WIF-4, floor in front of 6				
LDW17-R1-ESRM-comp03	1-ES-COMP3			
26-OCT-17 00:00	Project #: DUWAMISH 2017			
Description: remainder from L28215-3				
Tissue	COMPOSITE	:		USD
Tissue	DX017.1613	:		USD
Tissue	DX017.1613-2	:		USD
Tissue	HOMOGENIZATION	:		USD
Tissue	SUBSAMP2 W/O DATA	:		USD
Tissue	SUBSAMP4 W/O DATA	:		USD
EDataDeliv	DX017 EDD	:		USD
Data Package	DX017 DPKG	:		USD
Data Package	HOMOG DATA PKG	:		USD
L28258-4		04-OCT-17		
Storage: WIF-4, floor in front of 6				
LDW17-R1-ESRM-comp04	1-ES-COMP4			
26-OCT-17 00:00	Project #: DUWAMISH 2017			
Description: remainder from L28215-4				
Tissue	COMPOSITE	:		USD
Tissue	DX017.1613	:		USD
Tissue	DX017.1613-2	:		USD
Tissue	HOMOGENIZATION	:		USD
Tissue	PB010.1668C	:		USD
Tissue	PB010.1668C-CC1	:		USD
Tissue	SUBSAMP2 W/O DATA	:		USD
Tissue	SUBSAMP4 W/O DATA	:		USD
EDataDeliv	DX017 EDD	:		USD
EDataDeliv	PB010 EDD	:		USD
Data Package	DX017 DPKG	:		USD
Data Package	HOMOG DATA PKG	:		USD
Data Package	PB010 DPKG	:		USD

SGS AXYS Analytical Services Ltd.

Login Chain of Custody Report (In01)

Nov. 17, 2017

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Login Number: L28258

Account: 4033 Windward Environmental

Project: DUWAMISH 2017

Page: 3 of 6

Axs ID versus Client Sample Identification		Received	Due	PR
L28258-5		04-OCT-17		
	Storage: WIF-4, floor in front of 6			
LDW17-R1-ESRM-comp05	1-ES-COMP5			
26-OCT-17 00:00	Project #: DUWAMISH 2017			
	Description: remainder from L28215-5			
Tissue	COMPOSITE	:		USD
Tissue	DX017.1613	:		USD
Tissue	DX017.1613-2	:		USD
Tissue	HOMOGENIZATION	:		USD
Tissue	SUBSAMP2 W/O DATA	:		USD
Tissue	SUBSAMP3 W/O DATA	:		USD
Tissue	SUBSAMP4 W/O DATA	:		USD
EDataDeliv	DX017 EDD	:		USD
Data Package	DX017 DPKG	:		USD
Data Package	HOMOG DATA PKG	:		USD
L28258-6		04-OCT-17		
	Storage: WIF-4, floor in front of 6			
LDW17-R1-ESRM-comp06	1-ES-COMP6			
27-OCT-17 00:00	Project #: DUWAMISH 2017			
	Description: remainder from L28215-6			
Tissue	COMPOSITE	:		USD
Tissue	DX017.1613	:		USD
Tissue	DX017.1613-2	:		USD
Tissue	HOMOGENIZATION	:		USD
Tissue	PB010.1668C	:		USD
Tissue	PB010.1668C-CC1	:		USD
Tissue	SUBSAMP2 W/O DATA	:		USD
Tissue	SUBSAMP4 W/O DATA	:		USD
EDataDeliv	DX017 EDD	:		USD
EDataDeliv	PB010 EDD	:		USD
Data Package	DX017 DPKG	:		USD
Data Package	HOMOG DATA PKG	:		USD
Data Package	PB010 DPKG	:		USD

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Login Chain of Custody Report (In01)
 Nov. 17, 2017
 03:50 PM

Login Number: L28258
Account: 4033 Woodward Environmental
Project: DUWAMISH 2017

Axs ID versus Client Sample Identification		Received	Due	PR
L28258-7		04-OCT-17		
	Storage: WIF-4, floor in front of 6			
LDW17-R2-ESRM-comp01	2-ES-COMP1			
27-OCT-17 00:00	Project #: DUWAMISH 2017			
	Description: remainder from L28215-7			
Tissue	COMPOSITE	:		USD
Tissue	DX017.1613	:		USD
Tissue	DX017.1613-2	:		USD
Tissue	HOMOGENIZATION	:		USD
Tissue	SUBSAMP2 W/O DATA	:		USD
Tissue	SUBSAMP3 W/O DATA	:		USD
Tissue	SUBSAMP4 W/O DATA	:		USD
EDataDeliv	DX017 EDD	:		USD
Data Package	DX017 DPKG	:		USD
Data Package	HOMOG DATA PKG	:		USD
L28258-8		04-OCT-17		
	Storage: WIF-4, floor in front of 6			
LDW17-R2-ESRM-comp02	2-ES-COMP2			
30-OCT-17 00:00	Project #: DUWAMISH 2017			
	Description: remainder from L28215-8			
Tissue	COMPOSITE	:		USD
Tissue	DX017.1613	:		USD
Tissue	DX017.1613-2	:		USD
Tissue	HOMOGENIZATION	:		USD
Tissue	PB010.1668C	:		USD
Tissue	PB010.1668C-CC1	:		USD
Tissue	SUBSAMP2 W/O DATA	:		USD
Tissue	SUBSAMP4 W/O DATA	:		USD
EDataDeliv	DX017 EDD	:		USD
EDataDeliv	PB010 EDD	:		USD
Data Package	DX017 DPKG	:		USD
Data Package	HOMOG DATA PKG	:		USD
Data Package	PB010 DPKG	:		USD

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Login Chain of Custody Report (In01)
 Nov. 17, 2017
 03:50 PM

Login Number: L28258
Account: 4033 Woodward Environmental
Project: DUWAMISH 2017

Axs ID versus Client Sample Identification		Received	Due	PR
L28258-9		04-OCT-17		
	Storage: WIF-4, floor in front of 6			
LDW17-R2-ESRM-comp03	2-ES-COMP3			
30-OCT-17 00:00	Project #: DUWAMISH 2017			
	Description: remainder from L28215-9			
Tissue	COMPOSITE	:		USD
Tissue	DX017.1613	:		USD
Tissue	DX017.1613-2	:		USD
Tissue	HOMOGENIZATION	:		USD
Tissue	PB010.1668C	:		USD
Tissue	PB010.1668C-CC1	:		USD
Tissue	SUBSAMP2 W/O DATA	:		USD
Tissue	SUBSAMP4 W/O DATA	:		USD
EDataDeliv	DX017 EDD	:		USD
EDataDeliv	PB010 EDD	:		USD
Data Package	DX017 DPKG	:		USD
Data Package	HOMOG DATA PKG	:		USD
Data Package	PB010 DPKG	:		USD
L28258-10		04-OCT-17		
	Storage: WIF-4, floor in front of 6			
LDW17-R2-ESRM-comp04	2-ES-COMP4			
31-OCT-17 00:00	Project #: DUWAMISH 2017			
	Description: remainder from L28215-10			
Tissue	COMPOSITE	:		USD
Tissue	DX017.1613	:		USD
Tissue	DX017.1613-2	:		USD
Tissue	HOMOGENIZATION	:		USD
Tissue	SUBSAMP2 W/O DATA	:		USD
Tissue	SUBSAMP4 W/O DATA	:		USD
EDataDeliv	DX017 EDD	:		USD
Data Package	DX017 DPKG	:		USD
Data Package	HOMOG DATA PKG	:		USD

SGS AXYS Analytical Services Ltd.
Login Chain of Custody Report (In01)
 Nov. 17, 2017
 03:50 PM

Login Number: L28258
Account: 4033 Woodward Environmental
Project: DUWAMISH 2017

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Axs ID versus Client Sample Identification		Received	Due	PR
L28258-11		04-OCT-17		
	Storage: WIF-4, floor in front of 6			
LDW17-R2-ESRM-comp05	2-ES-COMP5			
31-OCT-17 00:00	Project #: DUWAMISH 2017			
	Description: remainder from L28215-11			
Tissue	COMPOSITE	:		USD
Tissue	DX017.1613	:		USD
Tissue	DX017.1613-2	:		USD
Tissue	HOMOGENIZATION	:		USD
Tissue	PB010.1668C	:		USD
Tissue	PB010.1668C-CC1	:		USD
Tissue	SUBSAMP2 W/O DATA	:		USD
Tissue	SUBSAMP4 W/O DATA	:		USD
EDataDeliv	DX017 EDD	:		USD
EDataDeliv	PB010 EDD	:		USD
Data Package	DX017 DPKG	:		USD
Data Package	HOMOG DATA PKG	:		USD
Data Package	PB010 DPKG	:		USD
L28258-12		04-OCT-17		
	Storage: WIF-4, floor in front of 6			
LDW17-R2-ESRM-comp06	2-ES-COMP6			
31-OCT-17 00:00	Project #: DUWAMISH 2017			
	Description: remainder from L28215-12			
Tissue	COMPOSITE	:		USD
Tissue	DX017.1613	:		USD
Tissue	DX017.1613-2	:		USD
Tissue	HOMOGENIZATION	:		USD
Tissue	SUBSAMP2 W/O DATA	:		USD
Tissue	SUBSAMP4 W/O DATA	:		USD
EDataDeliv	DX017 EDD	:		USD
Data Package	DX017 DPKG	:		USD
Data Package	HOMOG DATA PKG	:		USD

SGS AXYS Analytical Services Ltd.
 Login Chain of Custody Report (In01)
 Nov. 17, 2017
 03:50 PM

for scanning
J Brooks
17 Nov - 2017

Login Number: L28417
 Account: 4033 Windward Environmental
 Project: DUWAMISH 2017

Axys ID versus Client Sample Identification		Received	Due	PR
L28417-1		26-OCT-17		
Storage: WIF-4, 1D				
LDW17-R1-GCHP-comp01				
10-NOV-17 00:00				
Project #: DUWAMISH 2017				
Description: hepatopancreas				
Comments: Hepato from L28215-13, -14, -15; Subs 1,2,4				
Tissue	COMPOSITE	:	:	USD
Tissue	DX017.1613	:	:	USD
Tissue	DX017.1613-2	:	:	USD
Tissue	HOMOGENIZATION	:	:	USD
Tissue	PB010.1668C	:	:	USD
Tissue	PB010.1668C-CC1	:	:	USD
Tissue	SUBSAMP 2 W/ DATA	:	:	USD
Tissue	SUBSAMP 4 W/ DATA	:	:	USD
EDataDeliv	DX017 EDD	:	:	USD
EDataDeliv	PB010 EDD	:	:	USD
Data Package	DX017 DPKG	:	:	USD
Data Package	HOMOG DATA PKG	:	:	USD
Data Package	PB010 DPKG	:	:	USD
ANY	SAMPLE RECEIPT	1	: 250 mL glass AMB	USD
ANY	SAMPLE RECEIPT 2	1	: 125 mL glass AMB	USD
ANY	SAMPLE RECEIPT 3	1	: 60 mL plastic	USD
L28417-2		26-OCT-17		
Storage: WIF-4, 1D				
LDW17-R1-GCHP-comp02				
10-NOV-17 00:00				
Project #: DUWAMISH 2017				
Description: hepatopancreas				
Comments: Hepato from L28215-13, -14, -15; Subs 1,2,4,6				
Tissue	COMPOSITE	:	:	USD
Tissue	DX017.1613	:	:	USD
Tissue	DX017.1613-2	:	:	USD
Tissue	HOMOGENIZATION	:	:	USD
Tissue	PB010.1668C	:	:	USD
Tissue	PB010.1668C-CC1	:	:	USD
Tissue	SUBSAMP 2 W/ DATA	:	:	USD
Tissue	SUBSAMP 4 W/ DATA	:	:	USD
EDataDeliv	DX017 EDD	:	:	USD
EDataDeliv	PB010 EDD	:	:	USD
Data Package	DX017 DPKG	:	:	USD
Data Package	HOMOG DATA PKG	:	:	USD
Data Package	PB010 DPKG	:	:	USD
ANY	SAMPLE RECEIPT	1	: 250 mL glass AMB	USD
ANY	SAMPLE RECEIPT 2	2	: 125 mL glass AMB	USD
ANY	SAMPLE RECEIPT 3	1	: 60 mL plastic	USD

SGS AXYS Analytical Services Ltd.

Login Chain of Custody Report (In01)

Nov. 17, 2017

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Login Number: L28417

Account: 4033 Woodward Environmental

Project: DUWAMISH 2017

Page: 2 of 5

Axs ID versus Client Sample Identification		Received	Due	PR
L28417-3		26-OCT-17		
Storage: WIF-4, 1D				
LDW17-R1-GCHP-comp03				
10-NOV-17 00:00				
Project #: DUWAMISH 2017				
Description: hepatopancreas				
Comments: Hepato from L28215-13, -14, -15; Subs 1,2,4,6				
Tissue	COMPOSITE	:		USD
Tissue	DX017.1613	:		USD
Tissue	DX017.1613-2	:		USD
Tissue	HOMOGENIZATION	:		USD
Tissue	SUBSAMP 2 W/ DATA	:		USD
Tissue	SUBSAMP 4 W/ DATA	:		USD
EDataDeliv	DX017 EDD	:		USD
Data Package	DX017 DPKG	:		USD
Data Package	HOMOG DATA PKG	:		USD
ANY	SAMPLE RECEIPT	2	: 250 mL glass AMB	USD
ANY	SAMPLE RECEIPT 2	1	: 125 mL glass AMB	USD
ANY	SAMPLE RECEIPT 3	1	: 60 mL plastic	USD
L28417-4		26-OCT-17		
Storage: WIF-4, 1D				
LDW17-R2-GCHP-comp01				
10-NOV-17 00:00				
Project #: DUWAMISH 2017				
Description: hepatopancreas				
Comments: Hepato from L28215-13, -14, -15; Subs 1-4,6				
Tissue	COMPOSITE	:		USD
Tissue	DX017.1613	:		USD
Tissue	DX017.1613-2	:		USD
Tissue	HOMOGENIZATION	:		USD
Tissue	PB010.1668C	:		USD
Tissue	PB010.1668C-CC1	:		USD
Tissue	SUBSAMP 2 W/ DATA	:		USD
Tissue	SUBSAMP 3 W/ DATA	:		USD
Tissue	SUBSAMP 4 W/ DATA	:		USD
EDataDeliv	DX017 EDD	:		USD
EDataDeliv	PB010 EDD	:		USD
Data Package	DX017 DPKG	:		USD
Data Package	HOMOG DATA PKG	:		USD
Data Package	PB010 DPKG	:		USD
ANY	SAMPLE RECEIPT	1	: 250 mL glass AMB	USD
ANY	SAMPLE RECEIPT 2	3	: 125 mL glass AMB	USD
ANY	SAMPLE RECEIPT 3	1	: 60 mL plastic	USD

SGS AXYS Analytical Services Ltd.

Login Chain of Custody Report (In01)

Nov. 17, 2017

03:50 PM

Login Number: L28417

Account: 4033 Windward Environmental

Project: DUWAMISH 2017

Page: 3 of 5

Axs ID versus Client Sample Identification		Received	Due	PR
L28417-5		26-OCT-17		
Storage: WIF-4, 1D				
LDW17-R2-GCHP-comp02				
10-NOV-17 00:00				
Project #: DUWAMISH 2017				
Description: hepatopancreas				
Comments: Hepato from L28215-13, -14, -15; Subs 1,2,4				
Tissue	COMPOSITE	:		USD
Tissue	DX017.1613	:		USD
Tissue	DX017.1613-2	:		USD
Tissue	HOMOGENIZATION	:		USD
Tissue	SUBSAMP 2 W/ DATA	:		USD
Tissue	SUBSAMP 4 W/ DATA	:		USD
EDataDeliv	DX017 EDD	:		USD
Data Package	DX017 DPKG	:		USD
Data Package	HOMOG DATA PKG	:		USD
ANY	SAMPLE RECEIPT	1	: 250 mL glass AMB	USD
ANY	SAMPLE RECEIPT 2	1	: 125 mL glass AMB	USD
ANY	SAMPLE RECEIPT 3	1	: 60 mL plastic	USD
L28417-6		26-OCT-17		
Storage: WIF-4, 1D				
LDW17-R2-GCHP-comp03				
10-NOV-17 00:00				
Project #: DUWAMISH 2017				
Description: hepatopancreas				
Comments: Hepato from L28215-13, -14, -15, Subs 1,2,4,6				
Tissue	COMPOSITE	:		USD
Tissue	DX017.1613	:		USD
Tissue	DX017.1613-2	:		USD
Tissue	HOMOGENIZATION	:		USD
Tissue	PB010.1668C	:		USD
Tissue	PB010.1668C-CC1	:		USD
Tissue	SUBSAMP 2 W/ DATA	:		USD
Tissue	SUBSAMP 4 W/ DATA	:		USD
EDataDeliv	DX017 EDD	:		USD
EDataDeliv	PB010 EDD	:		USD
Data Package	DX017 DPKG	:		USD
Data Package	HOMOG DATA PKG	:		USD
Data Package	PB010 DPKG	:		USD
ANY	SAMPLE RECEIPT	1	: 250 mL glass AMB	USD
ANY	SAMPLE RECEIPT 2	2	: 125 mL glass AMB	USD
ANY	SAMPLE RECEIPT 3	1	: 60 mL plastic	USD

SGS AXYS Analytical Services Ltd.
Login Chain of Custody Report (In01)
 Nov. 17, 2017
 03:50 PM

Login Number: L28417
Account: 4033 Woodward Environmental
Project: DUWAMISH 2017

Axs ID versus Client Sample Identification		Received	Due	PR
L28417-7		26-OCT-17		
Storage: WIF-4, 1D				
LDW17-DCHP-comp01 08-NOV-17 00:00				
Project #: DUWAMISH 2017				
Description: hepatopancreas				
Comments: Hepato from L28215-13, -14, -15, ???				
Tissue	COMPOSITE	:		USD
Tissue	DX017.1613	:		USD
Tissue	DX017.1613-2	:		USD
Tissue	HOMOGENIZATION	:		USD
Tissue	PB010.1668C	:		USD
Tissue	PB010.1668C-CC1	:		USD
EDataDeliv	DX017 EDD	:		USD
EDataDeliv	PB010 EDD	:		USD
Data Package	DX017 DPKG	:		USD
Data Package	HOMOG DATA PKG	:		USD
Data Package	PB010 DPKG	:		USD
ANY	SAMPLE RECEIPT	1	: 250 mL glass AMB	USD
L28417-8		26-OCT-17		
Storage: WIF-4, 1D				
LDW17-DCHP-comp02 07-NOV-17 00:00				
Project #: DUWAMISH 2017				
Description: hepatopancreas				
Comments: Hepato from L28215-13, -14, -15, ???				
Tissue	COMPOSITE	:		USD
Tissue	DX017.1613	:		USD
Tissue	DX017.1613-2	:		USD
Tissue	HOMOGENIZATION	:		USD
Tissue	PB010.1668C	:		USD
Tissue	PB010.1668C-CC1	:		USD
EDataDeliv	DX017 EDD	:		USD
EDataDeliv	PB010 EDD	:		USD
Data Package	DX017 DPKG	:		USD
Data Package	HOMOG DATA PKG	:		USD
Data Package	PB010 DPKG	:		USD
ANY	SAMPLE RECEIPT	1	: 250 mL glass AMB	USD

SGS AXYS Analytical Services Ltd.
Login Chain of Custody Report (In01)
 Nov. 17, 2017
 03:50 PM

Login Number: L28417
Account: 4033 Woodward Environmental
Project: DUWAMISH 2017

Axys ID versus Client Sample Identification		Received	Due	PR
L28417-9		26-OCT-17		
	Storage: WIF-4, 1D			
LDW17-DCHP-comp03				
08-NOV-17 00:00				
	Project #: DUWAMISH 2017			
	Description: hepatopancreas			
Comments: Hepato from L28215-13, -14, -15, ???				
Tissue	COMPOSITE	:		USD
Tissue	DX017.1613	:		USD
Tissue	DX017.1613-2	:		USD
Tissue	HOMOGENIZATION	:		USD
Tissue	PB010.1668C	:		USD
Tissue	PB010.1668C-CC1	:		USD
EDataDeliv	DX017 EDD	:		USD
EDataDeliv	PB010 EDD	:		USD
Data Package	DX017 DPKG	:		USD
Data Package	HOMOG DATA PKG	:		USD
Data Package	PB010 DPKG	:		USD
ANY	SAMPLE RECEIPT	1	: 250 mL glass AMB	USD

L28215

L28258, L28417

DATA PKG.

4033

Brooks, Georgina (Sidney)

From: Amara Vandervort <amarav@windwardenv.com>
Sent: Wednesday, October 18, 2017 12:19 PM
To: Brooks, Georgina (Sidney)
Subject: Crab Composite Information
Attachments: Duwamish AOC3 Fish Composite and Analysis Summary 101817.xlsx

Hello Georgina,

I have enclosed an updated composite table that contains the individual sample list for crab composites. There is one extra crab that got archived at ARI so Yared will bring that with the water samples in Friday. The composites have changed a good amount from the original packages that we sent so I added a column on the individual crab page that notes which bag each crab can be found in. I will call you shortly to follow-up and see if you have any questions. Thanks!

-Amara

Crab specimen information

Location	Collection Date	Composite ID	Collection Method	Trawl/ Trap #	Collection Time	Proj	Location	Specimen	Specimen ID	Length (mm)	Mass (g)	Composite Bag Location
Reach 1	31/08/2017	1-GC-comp1	Trawl	26	12:51	LDW17	R1	GC051	LDW17-R1-GC051	100	212	1-GC-comp1 (Bag 1)
Reach 1	01/09/2017	1-GC-comp1	Trawl	29	8:34	LDW17	R1	GC072	LDW17-R1-GC072	101	198	1-GC-comp1 (Bag 1)
Reach 1	31/08/2017	1-GC-comp1	Crab trap	28	13:28	LDW17	R1	GC054	LDW17-R1-GC054	98	180	1-GC-comp1 (Bag 2)
Reach 1	31/08/2017	1-GC-comp1	Trawl	23	10:42	LDW17	R1	GC031	LDW17-R1-GC031	111	265	1-GC-comp2 (Bag 1)
Reach 1	01/09/2017	1-GC-comp1	Trawl	33	10:37	LDW17	R1	GC079	LDW17-R1-GC079	102	208	1-GC-comp2 (Bag 1)
Reach 1	31/08/2017	1-GC-comp1	Crab trap	26	15:18	LDW17	R1	GC060	LDW17-R1-GC060	99	217	1-GC-comp2 (Bag 1)
Reach 1	31/08/2017	1-GC-comp1	Trawl	21	9:49	LDW17	R1	GC029	LDW17-R1-GC029	95	190	1-GC-comp1 (Bag 1)
Reach 1	31/08/2017	1-GC-comp2	Trawl	26	12:51	LDW17	R1	GC050	LDW17-R1-GC050	96	175	1-GC-comp2 (Bag 1)
Reach 1	31/08/2017	1-GC-comp2	Crab trap	29	15:38	LDW17	R1	GC066	LDW17-R1-GC066	96	185	1-GC-comp1 (Bag 2)
Reach 1	01/09/2017	1-GC-comp2	Trawl	29	8:34	LDW17	R1	GC076	LDW17-R1-GC076	99	192	1-GC-comp1 (Bag 1)
Reach 1	31/08/2017	1-GC-comp2	Crab trap	28	13:28	LDW17	R1	GC055	LDW17-R1-GC055	98	206	1-GC-comp2 (Bag 2)
Reach 1	31/08/2017	1-GC-comp2	Crab trap	27	13:15	LDW17	R1	GC044	LDW17-R1-GC044	96	179	1-GC-comp3 (Bag 1)
Reach 1	31/08/2017	1-GC-comp2	Crab trap	25	12:53	LDW17	R1	GC043	LDW17-R1-GC043	102	214	1-GC-comp2 (Bag 2)
Reach 1	31/08/2017	1-GC-comp2	Crab trap	27	13:15	LDW17	R1	GC048	LDW17-R1-GC048	106	271	1-GC-comp8 (Bag 1)
Reach 1	31/08/2017	1-GC-comp3	Trawl	25	11:56	LDW17	R1	GC034	LDW17-R1-GC034	100	177	1-GC-comp3 (Bag 1)
Reach 1	31/08/2017	1-GC-comp3	Crab trap	29	13:44	LDW17	R1	GC059	LDW17-R1-GC059	98	223	1-GC-comp3 (Bag 2)
Reach 1	31/08/2017	1-GC-comp3	Crab trap	28	13:28	LDW17	R1	GC057	LDW17-R1-GC057	96	172	1-GC-comp3 (Bag 2)
Reach 1	31/08/2017	1-GC-comp3	Crab trap	28	15:30	LDW17	R1	GC064	LDW17-R1-GC064	103	227	1-GC-comp3 (Bag 1)
Reach 1	30/08/2017	1-GC-comp3	Trawl	19	14:00	LDW17	R1	GC023	LDW17-R1-GC023	95	172	1-GC-comp2 (Bag 1)
Reach 1	31/08/2017	1-GC-comp3	Trawl	20	8:45	LDW17	R1	GC027	LDW17-R1-GC027	100	224	1-GC-comp1 (Bag 1)
Reach 1	31/08/2017	1-GC-comp3	Trawl	22	10:17	LDW17	R1	GC030	LDW17-R1-GC030	92	169	1-GC-comp3 (Bag 1)
Reach 1	31/08/2017	1-GC-comp4	Trawl	26	12:51	LDW17	R1	GC049	LDW17-R1-GC049	105	215	1-GC-comp3 (Bag 1)
Reach 1	31/08/2017	1-GC-comp4	Crab trap	29	13:44	LDW17	R1	GC058	LDW17-R1-GC058	99	212	1-GC-comp4 (Bag 2)
Reach 1	31/08/2017	1-GC-comp4	Crab trap	28	15:30	LDW17	R1	GC065	LDW17-R1-GC065	105	258	1-GC-comp4 (Bag 1)
Reach 1	31/08/2017	1-GC-comp4	Crab trap	28	13:28	LDW17	R1	GC053	LDW17-R1-GC053	92	188	1-GC-comp4 (Bag 2)
Reach 1	31/08/2017	1-GC-comp4	Crab trap	28	15:30	LDW17	R1	GC063	LDW17-R1-GC063	103	189	1-GC-comp4 (Bag 2)
Reach 1	30/08/2017	1-GC-comp4	Trawl	19	14:00	LDW17	R1	GC024	LDW17-R1-GC024	98	174	1-GC-comp4 (Bag 1)
Reach 1	31/08/2017	1-GC-comp4	Crab trap	24	12:39	LDW17	R1	GC041	LDW17-R1-GC041	90	173	1-GC-comp5 (Bag 1)
Reach 1	31/08/2017	1-GC-comp5	Trawl	26	12:51	LDW17	R1	GC052	LDW17-R1-GC052	101	213	1-GC-comp5 (Bag 1)
Reach 1	31/08/2017	1-GC-comp5	Trawl	24	11:21	LDW17	R1	GC033	LDW17-R1-GC033	94	173	1-GC-comp6 (Bag 1)
Reach 1	31/08/2017	1-GC-comp5	Trawl	23	10:42	LDW17	R1	GC032	LDW17-R1-GC032	100	205	1-GC-comp7 (Bag 1)
Reach 1	01/09/2017	1-GC-comp5	Trawl	33	10:37	LDW17	R1	GC077	LDW17-R1-GC077	98	202	1-GC-comp5 (Bag 1)
Reach 1	01/09/2017	1-GC-comp5	Trawl	33	10:37	LDW17	R1	GC078	LDW17-R1-GC078	103	238	1-GC-comp8 (Bag 1)
Reach 1	31/08/2017	1-GC-comp5	Crab trap	26	15:18	LDW17	R1	GC061	LDW17-R1-GC061	98	206	1-GC-comp5 (Bag 1)
Reach 1	31/08/2017	1-GC-comp5	Crab trap	22	12:18	LDW17	R1	GC036	LDW17-R1-GC036	94	174	1-GC-comp5 (Bag 1)
Reach 1	31/08/2017	1-GC-comp6	Crab trap	31	15:49	LDW17	R1	GC068	LDW17-R1-GC068	99	181	1-GC-comp5 (Bag 1)
Reach 1	31/08/2017	1-GC-comp6	Crab trap	30	15:45	LDW17	R1	GC067	LDW17-R1-GC067	101	231	1-GC-comp6 (Bag 2)
Reach 1	01/09/2017	1-GC-comp6	Trawl	29	8:34	LDW17	R1	GC073	LDW17-R1-GC073	99	198	1-GC-comp6 (Bag 1)
Reach 1	31/08/2017	1-GC-comp6	Crab trap	28	13:28	LDW17	R1	GC056	LDW17-R1-GC056	109	267	1-GC-comp6 (Bag 1)
Reach 1	31/08/2017	1-GC-comp6	Crab trap	27	13:15	LDW17	R1	GC045	LDW17-R1-GC045	90	141	1-GC-comp6 (Bag 1)
Reach 1	31/08/2017	1-GC-comp6	Crab trap	27	13:15	LDW17	R1	GC047	LDW17-R1-GC047	104	219	1-GC-comp6 (Bag 2)
Reach 1	31/08/2017	1-GC-comp6	Crab trap	23	12:27	LDW17	R1	GC038	LDW17-R1-GC038	98	197	1-GC-comp6 (Bag 1)
Reach 2	05/09/2017	2-GC-comp1	Crab trap	62	15:22	LDW17	R2	GC104	LDW17-R2-GC104	97	185	2-GC-comp1 (Bag 1)
Reach 2	30/08/2017	2-GC-comp1	Trawl	18	13:24	LDW17	R2	GC022	LDW17-R2-GC022	93	186	2-GC-comp1 (Bag 2)
Reach 2	01/09/2017	2-GC-comp1	Crab trap	35	13:48	LDW17	R2	GC084	LDW17-R2-GC084	96	202	2-GC-comp1 (Bag 1)

Reach 2	01/09/2017	2-GC-comp1	Crab trap	39	14:13	LDW17	R2	GC090	LDW17-R2-GC090	103	212	2-GC-comp2 (Bag 1)
Reach 2	01/09/2017	2-GC-comp1	Trawl	36	13:05	LDW17	R2	GC086	LDW17-R2-GC086	95	166	2-GC-comp2 (Bag 1)
Reach 2	29/08/2017	2-GC-comp1	Trawl	8	13:18	LDW17	R2	GC005	LDW17-R2-GC005	93	157	Additional R2 GC Bag 4
Reach 2	05/09/2017	2-GC-comp1	Crab trap	57	14:39	LDW17	R2	GC103	LDW17-R2-GC103	97	171	Additional R2 GC Bag 2
Reach 2	30/08/2017	2-GC-comp2	Trawl	15	11:19	LDW17	R2	GC014	LDW17-R2-GC014	97	183	2-GC-comp1 (Bag 1)
Reach 2	30/08/2017	2-GC-comp2	Trawl	11	8:50	LDW17	R2	GC008	LDW17-R2-GC008	95	166	2-GC-comp1 (Bag 1)
Reach 2	30/08/2017	2-GC-comp2	Trawl	11	8:50	LDW17	R2	GC009	LDW17-R2-GC009	94	164	2-GC-comp1 (Bag 1)
Reach 2	01/09/2017	2-GC-comp2	Crab trap	32	13:35	LDW17	R2	GC080	LDW17-R2-GC080	92	178	2-GC-comp2 (Bag 1)
Reach 2	01/09/2017	2-GC-comp2	Crab trap	39	14:13	LDW17	R2	GC091	LDW17-R2-GC091	97	188	2-GC-comp2 (Bag 1)
Reach 2	01/09/2017	2-GC-comp2	Trawl	36	13:05	LDW17	R2	GC088	LDW17-R2-GC088	97	176	2-GC-comp2 (Bag 1)
Reach 2	30/08/2017	2-GC-comp2	Trawl	16	11:47	LDW17	R2	GC018	LDW17-R2-GC018	108	220	2-GC-comp2 (Bag 2)
Reach 2	29/08/2017	2-GC-comp3	Trawl	2	10:15	LDW17	R2	GC001	LDW17-R2-GC001	107	215	2-GC-comp2 (Bag 2)
Reach 2	30/08/2017	2-GC-comp3	Trawl	15	11:19	LDW17	R2	GC015	LDW17-R2-GC015	104	183	2-GC-comp3 (Bag 2)
Reach 2	01/09/2017	2-GC-comp3	Crab trap	40	14:22	LDW17	R2	GC094	LDW17-R2-GC094	101	210	2-GC-comp3 (Bag 1)
Reach 2	01/09/2017	2-GC-comp3	Crab trap	35	13:48	LDW17	R2	GC083	LDW17-R2-GC083	95	166	2-GC-comp4 (Bag 1)
Reach 2	01/09/2017	2-GC-comp3	Crab trap	36	13:58	LDW17	R2	GC085	LDW17-R2-GC085	106	244	2-GC-comp4 (Bag 1)
Reach 2	30/08/2017	2-GC-comp3	Trawl	15	11:19	LDW17	R2	GC016	LDW17-R2-GC016	93	163	2-GC-comp5
Reach 2	30/08/2017	2-GC-comp3	Trawl	16	11:47	LDW17	R2	GC017	LDW17-R2-GC017	94	137	Additional R2 GC Bag 3
Reach 2	05/09/2017	2-GC-comp4	Crab trap	44	14:11	LDW17	R2	GC096	LDW17-R2-GC096	108	252	2-GC-comp3 (Bag 1)
Reach 2	30/08/2017	2-GC-comp4	Trawl	17	12:56	LDW17	R2	GC021	LDW17-R2-GC021	93	139	2-GC-comp3 (Bag 2)
Reach 2	29/08/2017	2-GC-comp4	Trawl	7	12:58	LDW17	R2	GC002	LDW17-R2-GC002	101	205	2-GC-comp4 (Bag 2)
Reach 2	30/08/2017	2-GC-comp4	Crab trap	11	12:01	LDW17	R2	GC019	LDW17-R2-GC019	93	170	2-GC-comp4 (Bag 2)
Reach 2	05/09/2017	2-GC-comp4	Crab trap	57	14:39	LDW17	R2	GC102	LDW17-R2-GC102	95	158	2-GC-comp4 (Bag 1)
Reach 2	30/08/2017	2-GC-comp4	Trawl	16	11:47	LDW17	R2	GC020	LDW17-R2-GC020	100	180	2-GC-comp4 (Bag 2)
Reach 2	30/08/2017	2-GC-comp4	Trawl	15	11:19	LDW17	R2	GC012	LDW17-R2-GC012	103	187	Additional R2 GC Bag 3
Reach 2	01/09/2017	2-GC-comp5	Trawl	36	13:05	LDW17	R2	GC089	LDW17-R2-GC089	97	178	2-GC-comp3 (Bag 1)
Reach 2	01/09/2017	2-GC-comp5	Crab trap	33	13:40	LDW17	R2	GC081	LDW17-R2-GC081	93	170	Additional R2 GC Bag 1
Reach 2	30/08/2017	2-GC-comp5	Trawl	15	11:19	LDW17	R2	GC013	LDW17-R2-GC013	93	159	Additional R2 GC Bag 3
Reach 2	05/09/2017	2-GC-comp5	Crab trap	44	14:11	LDW17	R2	GC097	LDW17-R2-GC097	100	290	2-GC-comp5
Reach 2	30/08/2017	2-GC-comp5	Crab trap	14	14:32	LDW17	R2	GC025	LDW17-R2-GC025	94	168	Additional R2 GC Bag 3
Reach 2	05/09/2017	2-GC-comp5	Crab trap	55	14:26	LDW17	R2	GC099	LDW17-R2-GC099	94	146	Additional R2 GC Bag 2
Reach 2	05/09/2017	2-GC-comp5	Crab trap	56	14:33	LDW17	R2	GC101	LDW17-R2-GC101	98	174	Additional R2 GC Bag 2
Reach 2	01/09/2017	2-GC-comp6	Trawl	36	13:05	LDW17	R2	GC087	LDW17-R2-GC087	105	214	2-GC-comp3 (Bag 1)
Reach 2	05/09/2017	2-GC-comp6	Crab trap	56	14:33	LDW17	R2	GC100	LDW17-R2-GC100	98	176	Additional R2 GC Bag 1
Reach 2	01/09/2017	2-GC-comp6	Crab trap	33	13:40	LDW17	R2	GC082	LDW17-R2-GC082	98	192	Additional R2 GC Bag 1
Reach 2	29/08/2017	2-GC-comp6	Trawl	8	13:18	LDW17	R2	GC003	LDW17-R2-GC003	91	149	Additional R2 GC Bag 4
Reach 2	05/09/2017	2-GC-comp6	Crab trap	55	14:26	LDW17	R2	GC098	LDW17-R2-GC098	95	156	Additional R2 GC Bag 2
Reach 2	05/09/2017	2-GC-comp6	Crab trap	44	12:04	LDW17	R2	GC095	LDW17-R2-GC095	101	187	Additional R2 GC Bag 1
Reach 2	01/09/2017	2-GC-comp6	Crab trap	38	14:19	LDW17	R2	GC093	LDW17-R2-GC093	102	222	Additional R2 GC Bag 1
Reach 2	30/08/2017	DC-01	Crab trap	12	14:17	LDW17	R2	DC001	LDW17-R2-DC001	184	832	2-DC-comp2
Reach 2	31/08/2017	DC-01	Crab trap	12	8:42	LDW17	R2	DC006	LDW17-R2-DC006	178	780	2-DC-comp2
Reach 2	30/08/2017	DC-01	Crab trap	13	14:24	LDW17	R2	DC002	LDW17-R2-DC002	125	296	2-DC-comp1
Reach 2	30/08/2017	DC-02	Crab trap	21	15:13	LDW17	R2	DC004	LDW17-R2-DC004	156	538	2-DC-comp2
Reach 2	01/09/2017	DC-02	Crab trap	35	13:48	LDW17	R2	DC008	LDW17-R2-DC008	174	654	2-DC-comp1
Reach 2	01/09/2017	DC-02	Crab trap	36	13:58	LDW17	R2	DC009	LDW17-R2-DC009	175	728	2-DC-comp1
Reach 2	31/08/2017	DC-03	Crab trap	11	8:38	LDW17	R2	DC005	LDW17-R2-DC005	184	893	2-DC-comp1
Reach 2	30/08/2017	DC-03	Crab trap	21	15:13	LDW17	R2	DC003	LDW17-R2-DC003	161	594	2-DC-comp2
Reach 1	01/09/2017	DC-03	Trawl	35	11:55	LDW17	R1	DC007	LDW17-R1-DC007	164	580	arriving with water samples on 10/20/1

Reach 2	31/08/2017 archive	Crab trap	27	13:15	LDW17	R1	GC046	LDW17-R1-GC046	95	165
Reach 2	30/08/2017 archive	Trawl	13	10:03	LDW17	R2	GC011	LDW17-R2-GC011	92	141
Reach 2	29/08/2017 archive	Trawl	8	13:18	LDW17	R2	GC007	LDW17-R2-GC007	90	129
Reach 2	30/08/2017 archive	Trawl	13	10:03	LDW17	R2	GC010	LDW17-R2-GC010	94	137
Reach 2	01/09/2017 archive	Trawl	38	14:03	LDW17	R2	GC092	LDW17-R2-GC092	93	156
Reach 1	31/08/2017 archive	Crab trap	31	15:49	LDW17	R1	GC069	LDW17-R1-GC069	110	263
Reach 1	31/08/2017 archive	Trawl	28	13:47	LDW17	R1	GC070	LDW17-R1-GC070	97	191
Reach 1	31/08/2017 archive	Trawl	28	13:47	LDW17	R1	GC071	LDW17-R1-GC071	93	163
Reach 1	01/09/2017 archive	Trawl	29	8:34	LDW17	R1	GC074	LDW17-R1-GC074	101	216
Reach 1	01/09/2017 archive	Trawl	29	8:34	LDW17	R1	GC075	LDW17-R1-GC075	100	218
Reach 1	31/08/2017 archive	Crab trap	27	15:26	LDW17	R1	GC062	LDW17-R1-GC062	102	219
Reach 1	31/08/2017 archive	Trawl	20	8:45	LDW17	R1	GC026	LDW17-R1-GC026	103	218
Reach 1	31/08/2017 archive	Trawl	20	8:45	LDW17	R1	GC028	LDW17-R1-GC028	96	194
Reach 1	31/08/2017 archive	Crab trap	24	12:39	LDW17	R1	GC039	LDW17-R1-GC039	90	160
Reach 1	31/08/2017 archive	Crab trap	24	12:39	LDW17	R1	GC040	LDW17-R1-GC040	106	241
Reach 1	31/08/2017 archive	Crab trap	24	12:39	LDW17	R1	GC042	LDW17-R1-GC042	98	204
Reach 1	31/08/2017 archive	Crab trap	23	12:27	LDW17	R1	GC037	LDW17-R1-GC037	98	196
Reach 1	31/08/2017 archive	Crab trap	22	12:18	LDW17	R1	GC035	LDW17-R1-GC035	101	198
Reach 2	29/08/2017 archive	Trawl	8	13:18	LDW17	R2	GC004	LDW17-R2-GC004	92	139
Reach 2	29/08/2017 archive	Trawl	8	13:18	LDW17	R2	GC006	LDW17-R2-GC006	90	133

Composite ID	ARI					Brooks Applied	Axys		ALS	Isolab
	PCB Aroclor	PAHs	SVOCs	TBT	Vanadium	Inorganic Arsenic	PCB Congener	Dioxins/ Furans	Pesticides	Solid δ 13C, δ 15Nc
	37.5 g	30 g	37.5 g	15 g	7.5 g	3.5 g	40 g		10 g	0.5g
LDW17-R1-GCEM-comp01	X	X	-	-	X	X	X	X	-	X
LDW17-R1-GCEM-comp02	X	X	-	-	X	X	X	X	-	X
LDW17-R1-GCHP-comp01	X	X	-	-	X	X	X	X	-	-
LDW17-R1-GCEM-comp03	X	X	-	-	-	X	X	X	-	X
LDW17-R1-GCEM-comp04	X	X	-	-	-	X	X	X	-	X
LDW17-R1-GCHP-comp02	X	X	-	-	-	X	X	X	-	-
LDW17-R1-GCEM-comp05	X	X	X	-	-	X	-	X	-	X
LDW17-R1-GCEM-comp06	X	X	X	-	-	X	-	X	-	X
LDW17-R1-GCHP-comp03	X	X	X	-	-	X	-	X	-	-
LDW17-R2-GCEM-comp01	X	X	-	-	-	X	X	X	X	X
LDW17-R2-GCEM-comp02	X	X	-	-	-	X	X	X	X	X
LDW17-R2-GCHP-comp01	X	X	-	-	-	X	X	X	X	-
LDW17-R2-GCEM-comp03	X	X	-	X	-	X	-	X	-	X
LDW17-R2-GCEM-comp04	X	X	-	X	-	X	-	X	-	X
LDW17-R2-GCHP-comp02	X	X	-	X	-	X	-	X	-	-
LDW17-R2-GCEM-comp05	X	X	-	-	-	X	X	X	-	X
LDW17-R2-GCEM-comp06	X	X	-	-	-	X	X	X	-	X
LDW17-R2-GCHP-comp03	X	X	-	-	-	X	X	X	-	-
LDW17-DCEM-comp01	-	-	-	-	-	-	X	X	-	X
LDW17-DCHP-comp01	-	-	-	-	-	-	X	X	-	-
LDW17-DCEM-comp02	-	-	-	-	-	-	X	X	-	X
LDW17-DCHP-comp02	-	-	-	-	-	-	X	X	-	-
LDW17-DCEM-comp03	-	-	-	-	-	-	X	X	-	X
LDW17-DCHP-comp03	-	-	-	-	-	-	X	X	-	-

Composite ID	ARI				Brooks Applied	Axys		ALS
	PCB Aroclor	SVOCs	TBT	Vanadium	Inorganic Arsenic	PCB Congener	Dioxins/ Furans	Pesticides
	37.5 g	37.5 g	15 g	7.5 g	3.5 g	40 g		10 g
LDW17-R1a-SS-comp01	X	-	-	-	X	-	X	X
LDW17-R1a-SS-comp02	X	-	-	-	X	X	X	-
LDW17-R1a-SS-comp03	X	-	-	-	X	X	X	-
LDW17-R1b-SS-comp01	X	-	-	-	X	X	X	-
LDW17-R1b-SS-comp02	X	-	-	-	X	X	X	-
LDW17-R1b-SS-comp03	X	X	X	X	X	-	X	-
LDW17-R2a-SS-comp01	X	-	-	-	X	X	X	-
LDW17-R2a-SS-comp02	X	-	-	-	X	-	X	X
LDW17-R2a-SS-comp03	X	-	-	-	X	X	X	-
LDW17-R2b-SS-comp01	X	X	X	X	X	-	X	-
LDW17-R2b-SS-comp02	X	-	-	-	X	X	X	-
LDW17-R2b-SS-comp03	X	-	-	-	X	X	X	-

Composite ID	ARI				Brooks Applied	Axys		ALS
	PCB Aroclor	SVOCs	TBT	Vanadium	Inorganic Arsenic	PCB Congener	Dioxins/ Furans	Pesticides
	37.5 g	37.5 g	15 g	7.5 g	3.5 g	0	10 g	
LDW17-R1-ESRM-comp01	X	-	-	-	X	X	X	-
LDW17-R1-ESFL-comp01	X	-	-	-	X	X	X	-
LDW17-R1-ESRM-comp02	X	X	X	-	X	-	X	-
LDW17-R1-ESFL-comp02	X	X	X	-	X	-	X	-
LDW17-R1-ESRM-comp03	X	-	-	X	X	-	X	-
LDW17-R1-ESFL-comp03	X	-	-	X	X	-	X	-
LDW17-R1-ESRM-comp04	X	-	-	-	X	X	X	-
LDW17-R1-ESFL-comp04	X	-	-	-	X	X	X	-
LDW17-R1-ESRM-comp05	X	-	-	-	X	-	X	X
LDW17-R1-ESFL-comp05	X	-	-	-	X	-	X	X
LDW17-R1-ESRM-comp06	X	-	-	-	X	X	X	-
LDW17-R1-ESFL-comp06	X	-	-	-	X	X	X	-
LDW17-R2-ESRM-comp01	X	-	-	-	X	-	X	X
LDW17-R2-ESFL-comp01	X	-	-	-	X	-	X	X
LDW17-R2-ESRM-comp02	X	-	-	-	X	X	X	-
LDW17-R2-ESFL-comp02	X	-	-	-	X	X	X	-
LDW17-R2-ESRM-comp03	X	-	-	-	X	X	X	-
LDW17-R2-ESFL-comp03	X	-	-	-	X	X	X	-
LDW17-R2-ESRM-comp04	X	X	X	-	X	-	X	-
LDW17-R2-ESFL-comp04	X	X	X	-	X	-	X	-
LDW17-R2-ESRM-comp05	X	-	-	-	X	X	X	-
LDW17-R2-ESFL-comp05	X	-	-	-	X	X	X	-
LDW17-R2-ESRM-comp06	X	-	-	X	X	-	X	-
LDW17-R2-ESFL-comp06	X	-	-	X	X	-	X	-

Modified Composite Sample Preparation Record - Unprocessed fish

WG: WG61515Date: 16 Oct 2017Chemist: SRM/CA Contract: 4033Axys Sample ID: L28215-1Balance ID#: 3120

Sample ID	Client ID	Sample Description	Sample + Container (g)	Container (g)	Sample (g)
1/10	LDW17-R1-ES095	1x grey/brown flat fish w/ white belly	79.57	11.85	67.72
2/10	LDW17-R1-ES087	1x grey/brown flat fish w/ white belly	220.68	12.96	207.72
3/10	LDW17-R1-ES142	1x brown flat fish w/ white belly	217.41	12.94	204.47
4/10	LDW17-R1-ES090	1x brown flat fish w/ white belly	142.67	14.65	128.02
5/10	LDW17-R1-ES103	1x brown flat fish w/ white belly	113.83	15.63	98.20
6/10	LDW17-R1-ES130	1x brown flat fish w/ white belly	118.84	11.82	107.02
7/10	LDW17-R1-ES098	1x brown flat fish w/ white belly	181.00	11.19	169.81
8/10	LDW17-R1-ES122	1x brown flat fish w/ white belly	171.87	12.82	159.05
9/10	LDW17-R1-ES110	1x brown flat fish w/ white belly	128.54	10.60	117.94
10/10	LDW17-R1-ES084	1x brown flat fish w/ white belly	270.35	14.14	256.21

17/10/2017

Reviewed by: JLGDate: 18-OCT-2017

AXYS Analytical Services Ltd.

Modified Composite Sample Preparation Record - Fillet Homogenization

WG: WG61515Date: 16 Oct 2017Chemist: SRM/CAContract: 4033Axys Sample ID: L28215-1 Balance ID#: 3120

Sample ID	Fillet Dissection - Pre-homogenization			Carcass Remainder			Fillet Homogenization		
	Jar + Sample (g)	Jar (g)	Sample (g)	Jar + Sample (g)	Jar (g)	Sample (g)	Jar + Sample (g)	Jar (g)	Sample (g)
1/10	106.50	89.24	17.26	226.17	179.36	46.81	106.49	89.24	17.25
2/10	150.48	89.10	61.38	466.83	326.17	140.66	150.14	89.10	61.04
3/10	256.75	89.10 ^{175.52} 16 Oct 2017 SRM	81.23	444.78 ³⁴ 16 Oct 2017 SRM	326.13	118.21	256.41	175.52	80.89
4/10	129.31	89.07	40.24	262.49	178.41	84.08	129.09	89.07	40.02
5/10	119.64	88.87	30.77	243.35	179.00	64.35	119.44	88.87	30.57
6/10	126.51	89.13	37.38	245.69	178.95	66.74	126.30	89.13	37.17
7/10	138.61	88.77	49.84	288.06	173.46	114.60	138.25	88.77	49.48
8/10	145.56	88.86	56.70	271.67	173.19	98.48	145.25	88.86	56.39
9/10	127.69	88.83	38.86	251.77	176.82	74.95	127.46	88.83	38.63
10/10	249.41	89.04 ^{175.19} 16 Oct 2017 SRM	74.22	501.16	325.68	175.48	249.05	175.19	73.86

Portion amount to be used for fillet composite: 17 gReviewed by: JLGDate: 18-Oct-2017

AXYS Analytical Services Ltd.

Modified Composite Sample Preparation Record - Fillet Composite + Subsample

WG: WG61515Date: 16 Oct 2017Chemist: SRM/CA Contract: 4033Axys Sample ID: L28215-1Balance ID#: 3120

Portioning for Composite

Sample ID	Jar + Sample before subsample taken (g)	Jar + Sample after subsample taken (g)	Sample removed from container (g)	Direct Weight of portion (g)
1/10	106.49	89.50	16.99	16.95
2/10	150.14	133.02	17.12	17.02
3/10	256.41	239.40	17.01	16.84
4/10	129.09	112.06	17.03	16.94
5/10	119.44	102.77	16.67	16.49
6/10	126.30	109.26	17.04	16.93
7/10	138.25	121.21	17.04	16.88
8/10	145.25	128.20	17.05	16.93
9/10	127.46	110.36	17.10	16.94
10/10	249.05	231.94	17.11	17.00

Composite

Sample ID	Pre-Homogenization			Post Homogenization		
	Jar + Sample (g)	Jar (g)	Sample (g)	Jar + Sample (g)	Jar (g)	Sample (g)
L28215-1	347.41	178.52	168.89	346.34	178.52	167.82

Subsamples

Subsamples	Portion weight (g)
SUBS 1	43.65
SUBS 2	99.43
SUBS 3	10.05
SUBS 4	4.09
SUBS 5	10.45

Reviewed by: JLGDate: 18-OCT-2017

Windward Environmental LLC

200 W. Mercer St., Suite 401, Seattle, WA 98119
Tel: 206.378.1364 Fax: 206.973.3048

Project/Task #: AOC3	Sampler: <i>KM</i>
Collection date: <i>8/31/17</i>	Collection time: <i>0845</i>
Location: <i>1</i>	Method: <i>trawl</i>
Species: <i>English sole</i>	
Specimen ID: LDW17- <i>R1-ES095</i>	
Length (mm): <i>201</i>	Weight (g) <i>74</i>

Windward Environmental LLC

200 W. Mercer St., Suite 401, Seattle, WA 98119
Tel: 206.378.1364 Fax: 206.973.3048

Project/Task #: AOC3	Sampler: <i>KM</i>
Collection date: <i>8/31/17</i>	Collection time: <i>0845</i>
Location: <i>1</i>	Method: <i>trawl</i>
Species: <i>English sole</i>	
Specimen ID: LDW17- <i>R1-ES087</i>	
Length (mm): <i>270</i>	Weight (g) <i>220</i>

Windward Environmental LLC

200 W. Mercer St., Suite 401, Seattle, WA 98119
Tel: 206.378.1364 Fax: 206.973.3048

Project/Task #: AOC3	Sampler: <i>KM</i>
Collection date:	Collection time: <i>1155</i>
Location: <i>1</i>	Method: <i>trawl</i>
Species: <i>English sole</i>	
Specimen ID: LDW17- <i>R1-ES147</i>	
Length (mm): <i>280</i>	Weight (g) <i>208</i>

Windward Environmental LLC

200 W. Mercer St., Suite 401, Seattle, WA 98119
Tel: 206.378.1364 Fax: 206.973.3048

Project/Task #: AOC3	Sampler: <i>KM</i>
Collection date: <i>8/31/17</i>	Collection time: <i>0845</i>
Location: <i>1</i>	Method: <i>trawl</i>
Species: <i>English sole</i>	
Specimen ID: LDW17- <i>R1-ES090</i>	
Length (mm): <i>243</i>	Weight (g) <i>144</i>

Windward Environmental LLC

200 W. Mercer St., Suite 401, Seattle, WA 98119
Tel: 206.378.1364 Fax: 206.973.3048

Project/Task #: AOC3	Sampler: <i>KM</i>
Collection date: <i>8/31/17</i>	Collection time: <i>1251</i>
Location: <i>1</i>	Method: <i>trawl</i>
Species: <i>English sole</i>	
Specimen ID: LDW17- <i>R1-ES109</i>	
Length (mm): <i>221</i>	Weight (g) <i>114</i>

Windward Environmental LLC

200 W. Mercer St., Suite 401, Seattle, WA 98119
Tel: 206.378.1364 Fax: 206.973.3048

Project/Task #: AOC3	Sampler: <i>NM</i>
Collection date: <i>9/1/17</i>	Collection time: <i>0834</i>
Location: <i>1</i>	Method: <i>trawl</i>
Species: <i>english sole</i>	
Specimen ID: LDW17- <i>R1-ES130</i>	
Length (mm): <i>223</i>	Weight (g) <i>130</i>

Windward Environmental LLC

200 W. Mercer St., Suite 401, Seattle, WA 98119
Tel: 206.378.1364 Fax: 206.973.3048

Project/Task #: AOC3	Sampler: <i>KM</i>
Collection date: <i>8/31/17</i>	Collection time: <i>0949</i>
Location: <i>1</i>	Method: <i>trawl</i>
Species: <i>English sole</i>	
Specimen ID: LDW17- <i>R1-ES098</i>	
Length (mm): <i>200</i>	Weight (g) <i>176</i>

Windward Environmental LLC

200 W. Mercer St., Suite 401, Seattle, WA 98119
Tel: 206.378.1364 Fax: 206.973.3048

Project/Task #: AOC3	Sampler: <i>KM</i>
Collection date: <i>8/31/17</i>	Collection time: <i>1347</i>
Location: <i>1</i>	Method: <i>trawl</i>
Species: <i>English sole</i>	
Specimen ID: LDW17- <i>R1-ES122</i>	
Length (mm): <i>252</i>	Weight (g) <i>168</i>

Windward Environmental LLC

200 W. Mercer St., Suite 401, Seattle, WA 98119
Tel: 206.378.1364 Fax: 206.973.3048

Project/Task #: AOC3	Sampler: <i>KM</i>
Collection date: <i>8/31/17</i>	Collection time: <i>1346</i>
Location: <i>1</i>	Method: <i>trawl</i>
Species: <i>English sole</i>	
Specimen ID: LDW17- <i>R1-ES110</i>	
Length (mm): <i>282</i>	Weight (g) <i>128</i>

Windward Environmental LLC

200 W. Mercer St., Suite 401, Seattle, WA 98119
Tel: 206.378.1364 Fax: 206.973.3048

Project/Task #: AOC3	Sampler: <i>KM</i>
Collection date: <i>8/31/17</i>	Collection time: <i>0845</i>
Location: <i>1</i>	Method: <i>trawl</i>
Species: <i>English sole</i>	
Specimen ID: LDW17- <i>R1-ES084</i>	
Length (mm): <i>291</i>	Weight (g) <i>272</i>

L28215-1

Modified Composite Sample Preparation Record - Unprocessed fish

WG: WG61515Date: 16 Oct 2017Chemist: SRM/CH Contract: 4033Axys Sample ID: L28215-2Balance ID#: 3120

Sample ID	Client ID	Sample Description	Sample + Container (g)	Container (g)	Sample (g)
1/10	LDW17-R1-ES121	1x flat brown fish w/ white belly	158.34	15.45	142.89
2/10	LDW17-R1-ES096	1x flat brown fish w/ white belly	100.12	13.36	86.76
3/10	LDW17-R1-ES131	1x flat brown fish w/ white belly	174.90	14.78	165.12
4/10	LDW17-R1-ES094	1x flat brown fish w/ white belly	160.65	16.72	143.93
5/10	LDW17-R1-ES071	1x flat brown fish w/ white belly	103.91	11.82	92.09
6/10	LDW17-R1-ES111	1x flat brown fish w/ white belly	190.15	17.98	172.17
7/10	LDW17-R1-ES139	1x flat brown fish w/ white belly	180.47	10.73	169.74
8/10	LDW17-R1-ES100	1x flat brown fish w/ white belly	194.71	18.29	176.42
9/10	LDW17-R1-ES132	1x flat brown fish w/ white belly	94.14	12.50	81.64
10/10	LDW17-R1-ES102	1x flat brown fish w/ white belly	210.55	16.80	193.75

Reviewed by: JLGDate: 18-OCT-2017

AXYS Analytical Services Ltd.

Modified Composite Sample Preparation Record - Fillet Homogenization

WG: WG61515Date: 16 Oct 2017Chemist: SRM/CHContract: 4033Axys Sample ID: L28215-2 Balance ID#: 3120

Sample ID	Fillet Dissection - Pre-homogenization			Carcass Remainder			Fillet Homogenization		
	Jar + Sample (g)	Jar (g)	Sample (g)	Jar + Sample (g)	Jar (g)	Sample (g)	Jar + Sample (g)	Jar (g)	Sample (g)
1/10	165.49	113.26	52.23	262.26	177.14	85.12	165.23	113.26	51.97
2/10	144.33	113.60	30.73	231.06	177.44	53.62	144.22	113.60	30.62
3/10	169.03	112.30	56.73	280.59	176.15	104.44	168.79	112.30	56.49
4/10	154.38	112.77	41.61	274.85	176.57	98.28	154.18	112.77	41.41
5/10	144.31	112.07	32.24	232.93	176.31	56.62	144.23	112.07	32.16
6/10	163.08	112.08	51.00	290.68	176.82	113.81	162.83	112.08	50.75
7/10	160 Oct 2017 SRM #7 176.89	113.33	63.56	279.81	177.37	102.44	176.64	113.33	63.31
8/10	163.28	113.42	49.86	296.17	177.03	119.14	163.04	113.42	49.62
9/10	133.44	113.67	19.77	235.48	177.46	58.02	133.41	113.67	19.74
10/10	174.76	113.61	61.15	303.78	176.70	127.08	174.47	113.61	60.86

Portion amount to be used for fillet composite: 19.74 gReviewed by: JLGDate: 18-OCT-2017

AXYS Analytical Services Ltd.

Modified Composite Sample Preparation Record - Fillet Composite + Subsample

WG: WG61515Date: 16 Oct 2017Chemist: CA/ORA/WGI Contract: 4033Axys Sample ID: L28215-2Balance ID#: 3120For SRM
17 Nov 2017 WGI

Portioning for Composite

Sample ID	Jar + Sample before subsample taken (g)	Jar + Sample after subsample taken (g)	Sample removed from container (g)	Direct Weight of portion (g)
1/10	165.23	145.37	19.86	19.66
2/10	144.22	124.49	19.73	19.66
3/10	168.79	148.70	20.09	19.94
4/10	154.18	134.30	19.88	19.69
5/10	144.23	124.38	19.85	19.76
6/10	162.83	143.21 143.14	19.62 19.69	19.67
7/10	176.64	156.75	19.89	19.77
8/10	163.04	143.10	19.94	19.91
9/10	133.41	113.80	19.61	19.60
10/10	174.47	154.57	19.90	19.87

Composite

Sample ID	Pre-Homogenization			Post Homogenization		
	Jar + Sample (g)	Jar (g)	Sample (g)	Jar + Sample (g)	Jar (g)	Sample (g)
L28215-2	375.25 375.03	176.16 178.16	196.87	375.01	178.16	196.85

16-Oct-2017
ORA16 Oct 2017
SRM

Subsamples

Subsamples	Portion weight (g)
SUBS 1	42.13
SUBS 2	98.08
SUBS 3	10.39
SUBS 4	5.20
SUBS 5	40.81

Reviewed by: JLGDate: 19-OCT-2017

L28215-2
Original
Labeling

Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: <i>KM</i>
Collection date: <i>8/31/17</i>	Collection time: <i>1326</i>
Location: <i>1</i>	Method: <i>trawl</i>
Species: <i>English sole</i>	
Specimen ID: <i>LDW17-R1-ES111</i>	
Length (mm): <i>270</i>	Weight (g) <i>198</i>

Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: <i>NM</i>
Collection date:	Collection time: <i>1032</i>
Location: <i>1</i>	Method: <i>trawl</i>
Species: <i>english sole</i>	
Specimen ID: <i>LDW17-R1-ES139</i>	
Length (mm): <i>252</i>	Weight (g) <i>180</i>

Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: <i>KM 1042</i>
Collection date: <i>8/31/17</i>	Collection time: <i>0949</i>
Location: <i>1</i>	Method: <i>trawl</i>
Species: <i>English sole</i>	
Specimen ID: <i>LDW17-R1-ES100</i>	
Length (mm): <i>263</i>	Weight (g) <i>194</i>

Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: <i>NM</i>
Collection date: <i>9/1/17</i>	Collection time: <i>0834</i>
Location: <i>1</i>	Method: <i>trawl</i>
Species: <i>english sole</i>	
Specimen ID: <i>LDW17-R1-ES132</i>	
Length (mm): <i>297</i>	Weight (g) <i>108</i>

Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: <i>KM</i>
Collection date: <i>8/31/17</i>	Collection time: <i>1251</i>
Location: <i>1</i>	Method: <i>trawl</i>
Species: <i>English sole</i>	
Specimen ID: <i>LDW17-R1-ES102</i>	
Length (mm): <i>270</i>	Weight (g) <i>208</i>

Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: <i>KM</i>
Collection date: <i>8/31/17</i>	Collection time: <i>1847</i>
Location: <i>1</i>	Method: <i>trawl</i>
Species: <i>English sole</i>	
Specimen ID: <i>LDW17-R1-ES121</i>	
Length (mm): <i>239</i>	Weight (g) <i>156</i>

Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: <i>KM</i>
Collection date: <i>8/31/17</i>	Collection time: <i>0841</i>
Location: <i>1</i>	Method: <i>trawl</i>
Species: <i>English sole</i>	
Specimen ID: <i>LDW17-R1-ES096</i>	
Length (mm): <i>210</i>	Weight (g) <i>100</i>

Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: <i>NM</i>
Collection date: <i>9/1/17</i>	Collection time: <i>083</i>
Location: <i>1</i>	Method: <i>trawl</i>
Species: <i>english sole</i>	
Specimen ID: <i>LDW17-R1-ES131</i>	
Length (mm): <i>247</i>	Weight (g) <i>194</i>

Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: <i>KM</i>
Collection date: <i>8/31/17</i>	Collection time: <i>0838</i>
Location: <i>1</i>	Method: <i>trawl</i>
Species: <i>English sole</i>	
Specimen ID: <i>LDW17-R1-ES094</i>	
Length (mm): <i>256</i>	Weight (g) <i>158</i>

Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: <i>NM</i>
Collection date: <i>8/30/17</i>	Collection time: <i>1400</i>
Location: <i>R1</i>	Method: <i>trawl</i>
Species: <i>english sole</i>	
Specimen ID: <i>LDW17-R1-ES071</i>	
Length (mm): <i>210</i>	Weight (g) <i>107</i>

AXYS Analytical Services Ltd.

Modified Composite Sample Preparation Record - Unprocessed fish

WG: WG61515Date: 16 OCT 2017Chemist: W/Sr/CHContract: 4033Axys Sample ID: L28215-3Balance ID#: 3120

Sample ID	Client ID	Sample Description	Sample + Container (g)	Container (g)	Sample (g)
1/10	LDW17-R1-ES116	greyish brown, white belly, flat fish x1	248.89	15.04	233.85
2/10	LDW17-R1-ES091	1x greyish brown, white belly, flat fish	194.39	34.02	160.37
3/10	LDW17-R1-ES088	1x greyish brown, white belly, flat fish	200.37	18.83	181.54
4/10	LDW17-R1-ES073	1x greyish brown, white belly, flat fish	159.34	14.45	144.89
5/10	LDW17-R1-ES118	1x greyish brown, white belly, flat fish	190.66	13.61	177.05
6/10	LDW17-R1-ES125	1x greyish brown, white belly, flat fish	116.115.59 Mat 16 Oct 2017	12.42	103.17
7/10	LDW17-R1-ES138	1x greyish brown, white belly, flat fish	173.16	16.61	156.55
8/10	LDW17-R1-ES113 1 Mat 16 Oct 2017	1x greyish brown, white belly, flat fish	81.91	12.10	69.81
9/10	LDW17-R2-ES092	1x greyish brown, white belly, flat fish	234.59	17.38	217.21
10/10	LDW17-R1-ES129	1x greyish brown, white belly, flat fish	101.53	13.65	87.88

Reviewed by: JLGDate: 19-OCT-2017

*original labelling was not retained for this sample. It will be found in the paperwork for L28258-3

AXYS Analytical Services Ltd.

Modified Composite Sample Preparation Record - Fillet Homogenization

WG: WG61515Date: 16 OCT 2017Chemist: CA/MG1Contract: 4033Axys Sample ID: L28215-3 Balance ID#: 3120

Sample ID	Fillet Dissection - Pre-homogenization			Carcass Remainder			Fillet Homogenization		
	Jar + Sample (g)	Jar (g)	Sample (g)	Jar + Sample (g)	Jar (g)	Sample (g)	Jar + Sample (g)	Jar (g)	Sample (g)
1/10	183.76	111.87	71.89	334.18	177.48	156.70	183.51	111.87	71.64
2/10	148.57	113.77	34.80	288.14	177.176.31 MGI 16 OCT 2017	111.83	148.30	113.77	34.53
3/10	167.96	113.77	54.19	299.35	176.52	122.83	167.67	113.77	53.90
4/10	156.07	113.00	43.07	273.00	176.27	96.73	155.77	113.00	42.77
5/10	172.03	113.47	58.56	290.48	176.18	114.30	171.73	113.47	58.26
6/10	142.61	113.61	29.00	248.16	177.33	70.83	142.44	113.61	28.83
7/10	154.62	111.84	42.78	284.42	176.80	107.62	154.45	111.84	42.61
8/10	134 135.72 MGI 16 OCT 2017	112.24	MGI 16 OCT 2017 220.14 23.48	220.14	176.70	43.44	135.72	112.24	23.48
9/10	177.80	112.63	65.17	323.36	176.78	146.58	177.53	112.63	64.90
10/10	136.34	112.66	23.70	238.33	177.10	61.23	136.22	112.66	23.56

Portion amount to be used for fillet composite: 23.50 gReviewed by: JLGDate: 19-OCT-2017

AXYS Analytical Services Ltd.

Modified Composite Sample Preparation Record - Fillet Composite + Subsample

WG: WG61515Date: 16-Oct-2017Chemist: CH/ORAContract: 4033Axys Sample ID: L28215-3Balance ID#: 3120

Portioning for Composite

Sample ID	Jar + Sample before subsample taken (g)	Jar + Sample after subsample taken (g)	Sample removed from container (g)	Direct Weight of portion (g)
1/10	183.51	159.67	23.84	23.65
2/10	148.30	124.64	23.66	23.53
3/10	167.67	144.04	23.63	23.44 50
4/10	155.77	132.13	23.64	23.43 57
5/10	171.73	148.12	23.61	23.44 50
6/10	142.44	118.88	23.56	23.50
7/10	154.45	130.78	23.67	23.50
8/10	135.72 135.94	112.41	23.53	23.48
9/10	177.53	153.94	23.59	23.53
10/10	138.22 137.58	113.49	24.09	24.03

Composite

Sample ID	Pre-Homogenization			Post Homogenization		
	Jar + Sample (g)	Jar (g)	Sample (g)	Jar + Sample (g)	Jar (g)	Sample (g)
L28215-3	412.44	177.00	235.44	412.40	177.00	235.40

Subsamples

Subsamples	Portion weight (g)
SUBS 1	45.35
SUBS 2	100.55
SUBS 3	10.46
SUBS 4	4.66
SUBS 5	74.25

Reviewed by: JLGDate: 19-Oct-2017

AXYS Analytical Services Ltd.

Modified Composite Sample Preparation Record - Unprocessed fish

WG: WG61515Date: 17 Oct 2017Chemist: SRM/CAContract: 4033Axys Sample ID: L28215-4Balance ID#: 3120

Sample ID	Client ID	Sample Description	Sample + Container (g)	Container (g)	Sample (g)
1/10	LDW17-R1-ES099	1x flat brown fish w/ white belly	94.28	11.94	82.34
2/10	LDW17-R1-ES141	1x flat brown fish w/ white belly	82.80	16.86	65.94
3/10	LDW17-R1-ES124	1x flat brown fish w/ white belly	140.22	18.16	122.06
4/10	LDW17-R1-ES080	1x flat brown fish w/ white belly	296.03	17.71	278.32
5/10	LDW17-R1-ES128	1x flat brown fish w/ white belly	131.96	13.54	118.42
6/10	LDW17-R1-ES161	1x flat brown fish w/ white belly	73.15	14.43	58.72
7/10	LDW17-R1-ES108	1x flat brown fish w/ white belly	410.59	40.56	370.03
8/10	LDW17-R1-ES117	1x flat brown fish w/ white belly	160.52	15.37	145.15
9/10	LDW17-R1-ES093	1x flat brown fish w/ white belly	149.80	14.49	135.31
10/10	LDW17-R1-ES086	1x flat brown fish w/ white belly	135.93	16.76	119.17

Reviewed by: JGDate: 19-OCT-2017

AXYS Analytical Services Ltd.

Modified Composite Sample Preparation Record - Fillet Homogenization

WG: WG61515Date: 17 Oct 2017Chemist: SRM/CAContract: 4033Axys Sample ID: Q28214-4 Balance ID#: 3120

Sample ID	Fillet Dissection - Pre-homogenization			Carcass Remainder			Fillet Homogenization		
	Jar + Sample (g)	Jar (g)	Sample (g)	Jar + Sample (g)	Jar (g)	Sample (g)	Jar + Sample (g)	Jar (g)	Sample (g)
1/10	138.32	112.42	25.90	230.85	176.35	54.50	138.19	112.42	25.77
2/10	127.76	113.01	14.75	227.06	177.70	49.36	127.74	113.01	14.73
3/10	145.07	112.28	32.79	262.86	177.34	85.52	144.89	112.28	32.61
4/10	179.62	112.43	67.19	530.25	325.76	204.49	179.29	112.43	66.81
5/10	145.87	112.48	33.39	258.46	176.82	81.64	145.49	112.48	33.01
6/10	128.94	113.63	15.31	218.40	176.82	41.58	128.91	113.63	15.28
7/10	250.50	176.38	74.12	608.34	325.94	282.40	249.62	176.38	73.24
8/10	157.06	113.01	44.05	274.85	177.44	97.41	156.88	113.01	43.87
9/10	158.81	112.49	^{170.00g} 246.32 ^{3m}	262.21	176.51	^{85.70} 87.5 _{170.00g}	158.56	112.49	46.07
10/10	153.31	112.34	40.97	252.29	177.24	75.05	153.04	112.34	40.70

Portion amount to be used for fillet composite: 14.73 gReviewed by: JLGDate: 19-OCT-2017

AXYS Analytical Services Ltd.

Modified Composite Sample Preparation Record - Fillet Composite + Subsample

WG: WG61515

Date: 17 Oct 2017

Chemist: SRM/CH

Contract: 4033

Axys Sample ID: L28214-4

Balance ID#: 3120

Portioning for Composite

Sample ID	Jar + Sample before subsample taken (g)	Jar + Sample after subsample taken (g)	Sample removed from container (g)	Direct Weight of portion (g)
1/10	138.19	123.70	14.49	14.25
2/10	127.79	113.23	14.51	14.29
3/10	144.89	130.16	14.73	14.25
4/10	179.29	164.62	14.62	14.26
5/10	145.49	131.25	14.24	14.25
6/10	128.91	114.35	14.56	14.25
7/10	299.62	170 Oct 2017 142.46 235.06	14.56	14.22
8/10	156.88	170 Oct 2017 235.06 142.40	14.48	14.24
9/10	158.56	170 Oct 2017 138.84 143.93	14.63	14.23
10/10	153.04	170 Oct 2017 143.94 138.82	14.22	14.43

*please see note

Composite

Sample ID	Pre-Homogenization			Post Homogenization		
	Jar + Sample (g)	Jar (g)	Sample (g)	Jar + Sample (g)	Jar (g)	Sample (g)
L28214-4	320.74	177.94	142.80	320.46	177.94	142.52

Subsamples

Subsamples	Portion weight (g)
SUBS 1	40.50 ^{17 Oct 2017}
SUBS 2	98.47 50.19
SUBS 3	10.03
SUBS 4	4.19
SUBS 5	37.06

Reviewed by: JLG

Date: 20-OCT-2017

LAB 510827

Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: KM
Collection date: 8/31/17	Collection time: 1042
Location: I	Method: trawl
Species: English sole	
Specimen ID: LDW17- R1- ES101	
Length (mm): 200 200	Weight (g) 73

Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: KM
Collection date: 8/31/17	Collection time: 1326
Location: I	Method: trawl
Species: English sole	
Specimen ID: LDW17- R1- ES108	
Length (mm): 349	Weight (g) 440

Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: KM
Collection date: 8/31/17	Collection time: 1347
Location: I	Method: trawl
Species: English sole	
Specimen ID: LDW17- R1- ES117	
Length (mm): 247	Weight (g) 160

Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: KM
Collection date: 8/31/17	Collection time: 0845
Location: I	Method: trawl
Species: English sole	
Specimen ID: LDW17- R1- ES093	
Length (mm): 247	Weight (g) 145

Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: KM
Collection date: 8/31/17	Collection time: 0845
Location: I	Method: trawl
Species: English sole	
Specimen ID: LDW17- R1- ES086	
Length (mm): 250	Weight (g) 120

Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: KM
Collection date: 8/31/17	Collection time: 094
Location: I	Method: trawl
Species: English sole	
Specimen ID: LDW17- R1- ES099	
Length (mm): 206	Weight (g) 90

Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: KM
Collection date:	Collection time: 1037
Location: I	Method: trawl
Species: English sole	
Specimen ID: LDW17- R1- ES141	
Length (mm): 214	Weight (g) 82

Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: KM
Collection date: 8/31/17	Collection time: 1347
Location: I	Method: trawl
Species: English sole	
Specimen ID: LDW17- R1- ES1234	
Length (mm): 241	Weight (g) 146

Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: KM
Collection date: 8/31/17	Collection time: 0844
Location: I	Method: trawl
Species: English sole	
Specimen ID: LDW17- R1- ES080	
Length (mm): 310	Weight (g) 298

Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: NM
Collection date: 9/1/17	Collection time: 0834
Location: I	Method: trawl
Species: english sole	
Specimen ID: LDW17- R1- ES128	
Length (mm): 233	Weight (g) 118

AXYS Analytical Services Ltd.

Modified Composite Sample Preparation Record - Unprocessed fish

WG: WG61515Date: 17-Oct-2017Chemist: DRA/ w/gContract: 4033Axys Sample ID: L28215-5Balance ID#: 3180

Sample ID	Client ID	Sample Description	Sample + Container (g)	Container (g)	Sample (g)
1/10	LDW17-R1-E5127	1x brown flat fish w/ white belly	157.08	14.01	143.07
2/10	LDW17-R1-E5085	1x brown flat fish w/ white belly	87.32	13.49	73.83
3/10	LDW17-R1-E5082	1x brown flat fish w/ white belly	148.36	18.07	130.29
4/10	LDW17-R1-E5109	1x brown flat fish w/ white belly	226.93	14.20	212.73
5/10	LDW17-R1-E5097	1x brown flat fish w/ white belly	132.19	14.04	118.15
6/10	LDW17-R1-E5089	1x brown flat fish w/ white belly	138.60	15.59	123.01
7/10	LDW17-R1-E5119	1x brown flat fish w/ white belly	337.08	20.89	316.19
8/10	LDW17-R1-E5140	1x brown flat fish w/ white belly	139.77	14.74	125.03
9/10	LDW17-R1-E5072	1x brown flat fish w/ white belly	160.22	13.81	146.41
10/10	LDW17-R1-E5081	1x brown flat fish w/ white belly	207.08	19.25	187.83

Reviewed by: JLGDate: 19-OCT-2017

AXYS Analytical Services Ltd.

Modified Composite Sample Preparation Record - Fillet Homogenization

WG: WG61515Date: 17-Oct-2017Chemist: DRA/WG1Contract: 4033Axys Sample ID: L28215-5 Balance ID#: 3180

Sample ID	Fillet Dissection - Pre-homogenization			Carcass Remainder			Fillet Homogenization		
	Jar + Sample (g)	Jar (g)	Sample (g)	Jar + Sample (g)	Jar (g)	Sample (g)	Jar + Sample (g)	Jar (g)	Sample (g)
1/10	168.50	114.33	54.17	261.67	178.80	82.87	168.32	114.33	53.99
2/10	140.47 17-Oct-2017 ORA 28 140.47	111.96	29.84 28.51 17-Oct-2017 ORA	216.73	177.55	39.18	140.47	111.96	28.51
3/10	162.82	112.55	50.27	252.82	179.68	73.14	162.65	112.55	50.10
4/10	185.88	113.72	72.16	306.49	178.84	127.65	185.67	113.72	71.95
5/10	160.50	113.90	46.60	247.05	179.40	67.65	160.29	113.90	46.39
6/10	151.12	111.94	39.18	255.72	179.77	75.95	150.87	111.94	38.93
7/10	284.04	176.93	107.11	525.48	325.70	199.78	282.59	176.93	105.66
8/10	156.57	112.19	44.38	252.93	177.84	75.09	156.37	112.19	44.18
9/10	164.58	113.32	51.57 26 51.57 17-Oct-2017 ORA	265.81 17-Oct-2017 ORA 265.81	177.94	87.87	164.43	113.32	51.11
10/10	181.25	113.53	67.72	292.01	179.32	112.69	181.01	113.53	67.48

Portion amount to be used for fillet composite: 28.51 gReviewed by: JLGDate: 19-OCT-2017

AXYS Analytical Services Ltd.

Modified Composite Sample Preparation Record - Fillet Composite + Subsample

WG: WG61515Date: 17-04-2017Chemist: DRA/WGIContract: 4033Axs Sample ID: L28215-5Balance ID#: 3180

Portioning for Composite

Sample ID	Jar + Sample before subsample taken (g)	Jar + Sample after subsample taken (g)	Sample removed from container (g)	Direct Weight of portion (g)
1/10	168.32	140.12	28.20	¹⁷⁻⁰⁴⁻²⁰¹⁷ ORA 28.12 28.07
2/10	140.47	112.27	28.20	28.06
3/10	162.65	134.34	28.31	28.11
4/10	185.67	157.39	28.28	28.11
5/10	160.29	131.40	28.89	28.15
6/10	150.87	122.62	28.25	28.14
7/10	282.59	253.86	28.73	28.07
8/10	156.37	128.08	28.29	28.07
9/10	164.43	136.08	28.35	28.13
10/10	181.01	152.71	28.30	28.12

Composite

Sample ID	Pre-Homogenization			Post Homogenization		
	Jar + Sample (g)	Jar (g)	Sample (g)	Jar + Sample (g)	Jar (g)	Sample (g)
L28215-5	458.54	177.54	281.00	454.19	177.54	276.65

Subsamples

Subsamples	Portion weight (g)
SUBS 1	42.51
SUBS 2	99.04
SUBS 3	10.20
SUBS 4	4.39
SUBS 5	120.23

Reviewed by: JLGDate: 19-OCT-2017

6110 Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: <i>KM</i>
Collection date: <i>8/31/17</i>	Collection time: <i>8:45</i>
Location: <i>1</i>	Method: <i>trawl</i>
Species: <i>English sole</i>	
Specimen ID: LDW17- <i>R2-ES089</i>	
Length (mm): <i>239</i>	Weight (g) <i>144</i>

1110 Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: <i>KM</i>
Collection date: <i>9/1/17</i>	Collection time: <i>0834</i>
Location: <i>1</i>	Method: <i>trawl</i>
Species: <i>English sole</i>	
Specimen ID: LDW17- <i>R2-ES127</i>	
Length (mm): <i>255</i>	Weight (g) <i>162</i>

7110 Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: <i>KM</i>
Collection date: <i>8/31/17</i>	Collection time: <i>1347</i>
Location: <i>1</i>	Method: <i>trawl</i>
Species: <i>English sole</i>	
Specimen ID: LDW17- <i>R2-ES119</i>	
Length (mm): <i>299</i>	Weight (g) <i>340</i>

2110 Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: <i>KM</i>
Collection date: <i>8/31/17</i>	Collection time: <i>0844</i>
Location: <i>1</i>	Method: <i>trawl</i>
Species: <i>English sole</i>	
Specimen ID: LDW17- <i>R2-ES085</i>	
Length (mm): <i>201</i>	Weight (g) <i>90</i>

8110 Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: <i>NM</i>
Collection date:	Collection time: <i>1037</i>
Location: <i>1</i>	Method: <i>trawl</i>
Species: <i>english sole</i>	
Specimen ID: LDW17- <i>R1-ES140</i>	
Length (mm): <i>247</i>	Weight (g) <i>140</i>

3110 Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: <i>KM</i>
Collection date: <i>8/31/17</i>	Collection time: <i>0844</i>
Location: <i>1</i>	Method: <i>trawl</i>
Species: <i>English sole</i>	
Specimen ID: LDW17- <i>R2-ES082</i>	
Length (mm): <i>241</i>	Weight (g) <i>152</i>

10110 Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: <i>KM</i>
Collection date: <i>8/31/17</i>	Collection time: <i>0815</i>
Location: <i>1</i>	Method: <i>trawl</i>
Species: <i>English sole</i>	
Specimen ID: LDW17- <i>R2-ES081</i>	
Length (mm): <i>209</i>	Weight (g) <i>212</i>

4110 Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: <i>KM</i>
Collection date: <i>8/31/17</i>	Collection time: <i>1316</i>
Location: <i>1</i>	Method: <i>trawl</i>
Species: <i>English sole</i>	
Specimen ID: LDW17- <i>R2-ES109</i>	
Length (mm): <i>274</i>	Weight (g) <i>230</i>

9110 Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: <i>NM</i>
Collection date: <i>8/30/17</i>	Collection time: <i>1400</i>
Location: <i>R1</i>	Method: <i>trawl</i>
Species: <i>english sole</i>	
Specimen ID: LDW17- <i>R1-ES072</i>	
Length (mm): <i>245</i>	Weight (g) <i>159</i>

5110 Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: <i>KM</i>
Collection date: <i>8/31/17</i>	Collection time: <i>0845</i>
Location: <i>1</i>	Method: <i>trawl</i>
Species: <i>English sole</i>	
Specimen ID: LDW17- <i>R2-ES097</i>	
Length (mm): <i>231</i>	Weight (g) <i>159</i>

AXYS Analytical Services Ltd.

Modified Composite Sample Preparation Record - Unprocessed fish

WG: WG61515Date: 17 OCT 2017Chemist: CH/SRMContract: 4033Axs Sample ID: L28215-6Balance ID#: 320

Sample ID	Client ID	Sample Description	Sample + Container (g)	Container (g)	Sample (g)
1/10	LDW17-RI-ES136	1x flat brown fish w/ white belly	64.07	37.88	576.19
2/10	LDW17-RI-ES133	1x flat brown fish w/ white belly	119.80	12.88	106.92
3/10	LDW17-RI-ES137	1x flat brown fish w/ white belly	76.73	13.02	63.71
4/10	LDW17-RI-ES144	1x flat brown fish w/ white belly	228.90	19.41	209.49
5/10	LDW17-RI-ES135	1x flat brown fish w/ white belly	109.37	12.33	97.04
6/10	LDW17-RI-ES143	1x flat brown fish w/ white belly	139.09	12.83	116.26
7/10	LDW17-RI-ES123	1x flat brown fish w/ white belly	143.60	13.28	130.32
8/10	LDW17-RI-ES134	1x flat brown fish w/ white belly	113.59	12.38	101.21
9/10	LDW17-RI-ES126	1x flat brown fish w/ white belly	137.80	13.01	124.79
10/10	LDW17-RI-ES120	1x flat brown fish w/ white belly	151.21	17.21	134.00

Reviewed by: JLGDate: 19-OCT-2017

AXYS Analytical Services Ltd.

Modified Composite Sample Preparation Record - Fillet Homogenization

WG: WG61515Date: 17 Oct 2017Chemist: SRM/CHContract: 4033Axys Sample ID: L28215-6Balance ID#: 3120

Sample ID	Fillet Dissection - Pre-homogenization			Carcass Remainder			Fillet Homogenization		
	Jar + Sample (g)	Jar (g)	Sample (g)	Jar + Sample (g)	Jar (g)	Sample (g)	Jar + Sample (g)	Jar (g)	Sample (g)
1/10	512.58	325.23	187.35	706.01	324.31	379.70	511.92	325.23	186.69
2/10	150.78	114.12	36.66	241.93	178.22	63.71	150.59	114.12	36.47
3/10	132.32	112.06	20.26	216.56	177.22	39.34	132.21	112.06	20.15
4/10	174.65	112.60	62.05 318.83	318.83	177.02	141.81	174.26	112.60	61.66
5/10	144.56	113.88	30.68 ^{SW}	240.42	177.39	63.03	144.45	113.88	30.57
6/10	147.88	113.36	34.52	255.36	177.19	78.17	147.65	113.36	34.29
7/10	148.74	112.23	36.51	266.91	177.48	89.43	148.57	112.23	36.34
8/10	147.80	113.58	34.22	240.49	176.78	63.71	147.66	113.58	34.08
9/10	159.76	111.96	47.80	250.45	177.01	73.44	159.45	111.96	47.49
10/10	152.25	113.80	38.39	266.67	176.80	89.87	152.09	113.86	38.23

Portion amount to be used for fillet composite: ~20.5 gReviewed by: JLGDate: 20-OCT-2017

AXYS Analytical Services Ltd.

Modified Composite Sample Preparation Record - Fillet Composite + Subsample

WG: WG61515Date: 17 Oct 2017Chemist: SRM/CHContract: 4033Axys Sample ID: L28215-6Balance ID#: 3120

Portioning for Composite

Sample ID	Jar + Sample before subsample taken (g)	Jar + Sample after subsample taken (g)	Sample removed from container (g)	Direct Weight of portion (g)
1/10	511.43	491.86	20.06	19.92
2/10	150.59	130.62	19.97	19.80
3/10	132.21	112.30	19.91	19.80
4/10	174.26	154.18	20.08	19.76
5/10	144.45	124.38	20.07	19.94
6/10	147.65	127.52	20.07	19.79
7/10	148.57	128.68	19.89	19.77
8/10	147.66	127.73	19.93	19.81
9/10	159.45	139.55	19.90	19.75
10/10	152.09	132.14	19.95	19.86

Composite

Sample ID	Pre-Homogenization			Post Homogenization		
	Jar + Sample (g)	Jar (g)	Sample (g)	Jar + Sample (g)	Jar (g)	Sample (g)
L28215-6	375.25	177.10	198.15	374.69	177.10	197.59

Subsamples

Subsamples	Portion weight (g)
SUBS 1	40.75
SUBS 2	98.50
SUBS 3	10.40
SUBS 4	4.37
SUBS 5	43.38

Reviewed by: JLGDate: 20-OCT-2017

L28215-6

1700207 sea
10-8
1700207 sea

Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: NM
Collection date: 9/1/17	Collection time: 0948
Location: 1	Method: trawl
Species: english sole	
Specimen ID: LDW17-R1-ES135	
Length (mm): 221	Weight (g) 110

1700207 sea
9-4
1700207 sea

Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: KM
Collection date:	Collection time: 1155
Location: 1	Method: trawl
Species: English sole	
Specimen ID: LDW17-R1-ES144	
Length (mm): 287	Weight (g) 228

1700207 sea
8-3

Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: NM
Collection date:	Collection time: 1037
Location: 1	Method: trawl
Species: english sole	
Specimen ID: LDW17-R1-ES137	
Length (mm): 199	Weight (g) 78

7

Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: NM
Collection date: 9/1/17	Collection time: 0834
Location: 1	Method: trawl
Species: english sole	
Specimen ID: LDW17-R1-ES133	
Length (mm): 223	Weight (g) 134

1700207 sea
6

Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: NM
Collection date:	Collection time: 1037
Location: 1	Method: trawl
Species: english sole	
Specimen ID: LDW17-R1-ES136	
Length (mm): 353	Weight (g) 616

10-8
1700207 sea

Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: KM
Collection date: 8/31/17	Collection time: 1357
Location: 1	Method: trawl
Species: English Sole	
Specimen ID: LDW17-R1-ES120	
Length (mm): 2386	Weight (g) 154

9-4
1700207 sea

Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: KM
Collection date: 9/1/17	Collection time: 083
Location: 1	Method: trawl
Species: English sole	
Specimen ID: LDW17-R1-ES126	
Length (mm): 227	Weight (g) 138

1700207 sea
8-3

Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: NM
Collection date: 9/1/17	Collection time: 083
Location: 1	Method: trawl
Species: english sole	
Specimen ID: LDW17-R1-ES134	
Length (mm): 217	Weight (g) 126

1700207 sea
7

Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: KM
Collection date: 8/31/17	Collection time: 1347
Location: 1	Method: trawl
Species: English sole	
Specimen ID: LDW17-R1-ES123	
Length (mm): 232	Weight (g) 142

6

Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: KM
Collection date:	Collection time: 1155
Location: 1	Method: trawl
Species: English sole	
Specimen ID: LDW17-R1-ES143	
Length (mm): 233	Weight (g) 155

SGS AXYS Analytical Services Ltd.

Tissue Sample Preparation Record

WG: WG61515

Date: 17 Oct 2017
16 Oct 2017

Chemist: SRM/CH Contract: 4033

Sample ID	Sample type	Discard excess tissue	Grinder	Equipment used:
L28215-1 CH/SRM	<input checked="" type="checkbox"/> whole body <input type="checkbox"/> fillet <input type="checkbox"/> other	<input checked="" type="checkbox"/> yes <input type="checkbox"/> no Filletted/Dissected <input checked="" type="checkbox"/> yes <input type="checkbox"/> no	<input type="checkbox"/> GO4 <input type="checkbox"/> GO5 <input type="checkbox"/> GO6 <input type="checkbox"/> GO7 Blender <input type="checkbox"/> Virtis large blade <input type="checkbox"/> Virtis stator <input type="checkbox"/> Omni Mixer	<input type="checkbox"/> spatula <input checked="" type="checkbox"/> scissors <input type="checkbox"/> forceps <input checked="" type="checkbox"/> scalpel <input checked="" type="checkbox"/> spoon <input type="checkbox"/> shears <input type="checkbox"/> knife <input type="checkbox"/> stainless steel bowl <input type="checkbox"/> other
Protocol Followed	<input type="checkbox"/> TOC <input checked="" type="checkbox"/> PFOS <input checked="" type="checkbox"/> Metals <input checked="" type="checkbox"/> routine organics			
L28215-2 CH/SRM	<input checked="" type="checkbox"/> whole body <input type="checkbox"/> fillet <input type="checkbox"/> other	<input checked="" type="checkbox"/> yes <input type="checkbox"/> no Filletted/Dissected <input checked="" type="checkbox"/> yes <input type="checkbox"/> no	<input type="checkbox"/> GO4 <input type="checkbox"/> GO5 <input type="checkbox"/> GO6 <input type="checkbox"/> GO7 Blender <input type="checkbox"/> Virtis large blade <input type="checkbox"/> Virtis stator <input type="checkbox"/> Omni Mixer	<input type="checkbox"/> spatula <input checked="" type="checkbox"/> scissors <input type="checkbox"/> forceps <input checked="" type="checkbox"/> scalpel <input checked="" type="checkbox"/> spoon <input type="checkbox"/> shears <input type="checkbox"/> knife <input type="checkbox"/> stainless steel bowl <input type="checkbox"/> other
Protocol Followed	<input type="checkbox"/> TOC <input checked="" type="checkbox"/> PFOS <input checked="" type="checkbox"/> Metals <input checked="" type="checkbox"/> routine organics			
L28215-3 CH/SRM	<input checked="" type="checkbox"/> whole body <input type="checkbox"/> fillet <input type="checkbox"/> other	<input checked="" type="checkbox"/> yes <input type="checkbox"/> no Filletted/Dissected <input checked="" type="checkbox"/> yes <input type="checkbox"/> no	<input type="checkbox"/> GO4 <input type="checkbox"/> GO5 <input type="checkbox"/> GO6 <input type="checkbox"/> GO7 Blender <input type="checkbox"/> Virtis large blade <input type="checkbox"/> Virtis stator <input type="checkbox"/> Omni Mixer	<input type="checkbox"/> spatula <input checked="" type="checkbox"/> scissors <input type="checkbox"/> forceps <input checked="" type="checkbox"/> scalpel <input checked="" type="checkbox"/> spoon <input type="checkbox"/> shears <input type="checkbox"/> knife <input type="checkbox"/> stainless steel bowl <input type="checkbox"/> other
Protocol Followed	<input type="checkbox"/> TOC <input checked="" type="checkbox"/> PFOS <input checked="" type="checkbox"/> Metals <input checked="" type="checkbox"/> routine organics			
L28215-4 CH/SRM	<input checked="" type="checkbox"/> whole body <input type="checkbox"/> fillet <input type="checkbox"/> other	<input checked="" type="checkbox"/> yes <input type="checkbox"/> no Filletted/Dissected <input checked="" type="checkbox"/> yes <input type="checkbox"/> no	<input type="checkbox"/> GO4 <input type="checkbox"/> GO5 <input type="checkbox"/> GO6 <input type="checkbox"/> GO7 Blender <input type="checkbox"/> Virtis large blade <input type="checkbox"/> Virtis stator <input type="checkbox"/> Omni Mixer	<input type="checkbox"/> spatula <input checked="" type="checkbox"/> scissors <input type="checkbox"/> forceps <input checked="" type="checkbox"/> scalpel <input checked="" type="checkbox"/> spoon <input type="checkbox"/> shears <input type="checkbox"/> knife <input type="checkbox"/> stainless steel bowl <input type="checkbox"/> other
Protocol Followed	<input type="checkbox"/> TOC <input checked="" type="checkbox"/> PFOS <input checked="" type="checkbox"/> Metals <input checked="" type="checkbox"/> routine organics			
L28215-5 CH/SRM	<input checked="" type="checkbox"/> whole body <input type="checkbox"/> fillet <input type="checkbox"/> other	<input checked="" type="checkbox"/> yes <input type="checkbox"/> no Filletted/Dissected <input checked="" type="checkbox"/> yes <input type="checkbox"/> no	<input type="checkbox"/> GO4 <input type="checkbox"/> GO5 <input type="checkbox"/> GO6 <input type="checkbox"/> GO7 Blender <input type="checkbox"/> Virtis large blade <input type="checkbox"/> Virtis stator <input type="checkbox"/> Omni Mixer	<input type="checkbox"/> spatula <input checked="" type="checkbox"/> scissors <input type="checkbox"/> forceps <input checked="" type="checkbox"/> scalpel <input checked="" type="checkbox"/> spoon <input type="checkbox"/> shears <input type="checkbox"/> knife <input type="checkbox"/> stainless steel bowl <input type="checkbox"/> other
Protocol Followed	<input type="checkbox"/> TOC <input checked="" type="checkbox"/> PFOS <input checked="" type="checkbox"/> Metals <input checked="" type="checkbox"/> routine organics			
L28215-6 CH/SRM	<input checked="" type="checkbox"/> whole body <input type="checkbox"/> fillet <input type="checkbox"/> other	<input checked="" type="checkbox"/> yes <input type="checkbox"/> no Filletted/Dissected <input checked="" type="checkbox"/> yes <input type="checkbox"/> no	<input type="checkbox"/> GO4 <input type="checkbox"/> GO5 <input type="checkbox"/> GO6 <input type="checkbox"/> GO7 Blender <input type="checkbox"/> Virtis large blade <input type="checkbox"/> Virtis stator <input type="checkbox"/> Omni Mixer	<input type="checkbox"/> spatula <input checked="" type="checkbox"/> scissors <input type="checkbox"/> forceps <input checked="" type="checkbox"/> scalpel <input checked="" type="checkbox"/> spoon <input type="checkbox"/> shears <input type="checkbox"/> knife <input type="checkbox"/> stainless steel bowl <input type="checkbox"/> other
Protocol Followed	<input type="checkbox"/> TOC <input checked="" type="checkbox"/> PFOS <input checked="" type="checkbox"/> Metals <input checked="" type="checkbox"/> routine organics			

Reviewed by: JLG

Date: 20-Oct-2017

Notes: Batch ID: WG61515 Method: MLAxxx

Date:	Analyst	Fraction	Notes:
16 Oct 2017	SRM		Subsamples taken for creating the composite were originally weighed on clean foil. This was then transferred to the composite jar. A direct weight was taken and recorded for the subsample
17 Oct 2017	SRM		L28214 fillet #5 of 10's portion for composite was subsampled onto foil that was used to subsample fish 4 of 10. It appears that there was potentially very small amounts of #4 left on the foil when #5 was subsampled making the direct weight portion slightly larger than the amount removed from container
<p>20-OCT-2017 JLG</p>			

Reviewed by JLG date 20-OCT-2017

Modified Composite Sample Preparation Record - Unprocessed fish

WG: WG61516Date: 17-Oct-2017Chemist: DRA/NGIContract: 4033Axys Sample ID: L28215-7Balance ID#: 3180

Sample ID	Client ID	Sample Description	Sample + Container (g)	Container (g)	Sample (g)
1110	LDW17-R2-E3030	1x brown flat fish w/ white belly	106.75	16.78	89.97
2110	LDW17-R2-E3052	1x brown flat fish w/ white belly	356.51	14.48	342.03
3110	LDW17-R2-E3014	1x brown flat fish w/ white belly	232.93	15.42	217.51
4110	LDW17-R2-E3152	1x brown flat fish w/ white belly	458.21	19.09	439.12
5110	LDW17-R2-E3007	1x brown flat fish w/ white belly	168.75	19.15	149.60
6110	LDW17-R2-E3041	1x brown flat fish w/ white belly	135.34	12.87	122.47
7110	LDW17-R2-E3058	1x brown flat fish w/ white belly and red spots	392.74	18.11	374.63
8110	LDW17-R2-E3048	1x brown flat fish w/ white belly	141.94	10.09	131.85
9110	LDW17-R2-E3068	1x brown flat fish w/ white belly	121.77	13.00	108.77
10110	LDW17-R2-E3067	1x brown flat fish w/ white belly	144.60	12.22	131.78

Reviewed by: JL6Date: 23-OCT-2017

Modified Composite Sample Preparation Record - Fillet Homogenization

WG: WG61516Date: 17-Oct-2017Chemist: ORA/AGIContract: 4033Axys Sample ID: L28215-7 Balance ID#: 3180

Sample ID	Fillet Dissection - Pre-homogenization			Carcass Remainder			Fillet Homogenization		
	Jar + Sample (g)	Jar (g)	Sample (g)	Jar + Sample (g)	Jar (g)	Sample (g)	Jar + Sample (g)	Jar (g)	Sample (g)
1/10	139.65	112.16	27.49	234.39	174.41	59.98	139.54	112.16	27.38
2/10	274.46	114.18 172.29	102.17	561.02	325.64	235.38	274.11	114.18 172.29	101.82
3/10	181.67	111.68	69.99	312.19	173.74	138.45	181.46	111.68	69.78
4/10	284.63	113.94 175.35	109.28	645.53	176.99 326.18	319.35	283.10	113.94 175.35	107.75
5/10	158.54	113.39	45.15	274.44	174.10	100.34	158.35	113.39	44.96
6/10	156.83	114.31	42.52	254.11	177.58	76.53	156.64	114.31	42.33
7/10	289.77	176.01	113.76	579.25	325.80	253.45	289.16 176.01	176.01	113.15
8/10	155.12	114.89	40.23	261.50 261.50	173.39	88.11	154.95	114.89	40.06
9/10	148.93	112.62	36.31	244.76	176.01	68.75	148.76	112.62	36.14
10/10	151.72	113.52	38.20	264.83	174.37	90.46 90.46	151.58	113.52	38.06

Portion amount to be used for fillet composite: 26.87 gReviewed by: JLGDate: 23-OCT-2017

AXYS Analytical Services Ltd.

Modified Composite Sample Preparation Record - Fillet Composite + Subsample

WG: WG61516Date: 17-Oct-2017Chemist: ORA/WG1Contract: 4033Axys Sample ID: L28215-7Balance ID#: 3180

Portioning for Composite

Sample ID	Jar + Sample before subsample taken (g)	Jar + Sample after subsample taken (g)	Sample removed from container (g)	Direct Weight of portion (g)
1/10	139.54	112.50	27.04	26.87
2/10	274.11	247.11	27.00	26.93
3/10	181.46	154.25	27.21	26.92
4/10	283.10	255.60	27.50	26.95
5/10	158.35	131.13	27.22	26.91
6/10	156.64	129.59	27.05	26.87
7/10	289.16	262.09	27.07	26.88
8/10	154.95	127.90	27.05	26.89
9/10	148.76	121.71	27.05	26.96
10/10	151.58 151.60	124.62	26.98	26.97

17-Oct-2017
ORA

Composite

Sample ID	Pre-Homogenization			Post Homogenization		
	Jar + Sample (g)	Jar (g)	Sample (g)	Jar + Sample (g)	Jar (g)	Sample (g)
L28215-7	445.44	176.36	269.08	445.17	176.36	268.81

Subsamples

Subsamples	Portion weight (g)
SUBS 1	40.68
SUBS 2	100.06
SUBS 3	10.52
SUBS 4	4.45
SUBS 5	112.00

Reviewed by: JLGDate: 23-OCT-2017

Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: NM
Collection date: 8/20/17	Collection time: 0850
Location: 2	Method: trawl
Species: english sole	
Specimen ID: LDW17-R2-ES041	
Length (mm): 230	Weight (g) 130

Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: NM
Collection date: 8/29/17	Collection time: 1354
Location: 2	Method: trawl
Species: english sole	
Specimen ID: LDW17-R2-ES030	
Length (mm): 209	Weight (g) 108

Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: NM
Collection date: 8/30/17	Collection time: 1119
Location: 2	Method: trawl
Species: english sole	
Specimen ID: LDW17-R2-ES058	
Length (mm): 322	Weight (g) 400

Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: NM
Collection date: 8/30/17	Collection time: 0925
Location: 2	Method: trawl
Species: english sole	
Specimen ID: LDW17-R2-ES052	
Length (mm): 316	Weight (g) 350

Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: NM
Collection date: 8/30/17	Collection time: 0925
Location: 2	Method: trawl
Species: english sole	
Specimen ID: LDW17-R2-ES048	
Length (mm): 236	Weight (g) 140

Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: KM
Collection date: 8/29/17	Collection time: 1015
Location: 2	Method: trawl
Species: English sole	
Specimen ID: LDW17-R2-ES014	
Length (mm): 265	Weight (g) 232

Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler:
Collection date: 8/30/17	Collection time: 1256
Location: 2	Method: trawl
Species: English sole	
Specimen ID: LDW17-R2-ES068	
Length (mm): 231	Weight (g) 119

Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: JR
Collection date: 9/1/2017	Collection time: 1331
Location: 2	Method: trawl
Species: ENGLISH SOLE	
Specimen ID: LDW17-R2-ES152	
Length (mm): 368	Weight (g) 450

Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: KM
Collection date: 8/30/17	Collection time: 1147
Location: 2	Method: trawl
Species: English sole	
Specimen ID: LDW17-R2-ES067	
Length (mm): 239	Weight (g) 140

Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: KM
Collection date: 8/29/17	Collection time: 1015
Location: 2	Method: trawl
Species: English sole	
Specimen ID: LDW17-R2-ES007	
Length (mm): 247	Weight (g) 168

Modified Composite Sample Preparation Record - Unprocessed fish

WG: WG61516Date: 18 OCT 2017Chemist: W/GC / DRXContract: 4033Axys Sample ID: L28215-8Balance ID#: 3180

Sample ID	Client ID	Sample Description	Sample + Container (g)	Container (g)	Sample (g)
1/10	LDW17-R2-ES061	1x Brown flat fish w/white belly	101.74	14.07	87.67
2/10	LDW17-R2-ES060	1x Brown flat fish w/white belly	91.29	12.94	78.35
3/10	LDW17-R2-ES056	1x Brown flat fish w/white belly	221.09	13.44	207.65
4/10	LDW17-R2-ES055	1x Brown flat fish w/white belly	214.86	15.31	199.55
5/10	LDW17-R2-ES032	1x Brown flat fish w/white belly	83.30	16.84	66.46
6/10	LDW17-R2-ES002	1x Brown flat fish w/white belly	133.89	16.85	117.04
7/10	LDW17-R2-ES026	1x Brown flat fish w/white belly	131.32	12.33	118.99
8/10	LDW17-R2-ES148	1x Brown flat fish w/white belly	193.64	11.49	182.15
9/10	LDW17-R2-ES016	1x Brown flat fish w/white belly	446.78	22.70	424.08
10/10	LDW17-R2-ES005	1x Brown flat fish w/white belly	270.08	24.01	246.07

Reviewed by: JLGDate: 23-OCT-2017

AXYS Analytical Services Ltd.

Modified Composite Sample Preparation Record - Fillet Homogenization

WG: WG61516Date: 18-Oct-2017Chemist: DRA/W/GContract: 4033Axys Sample ID: L28215-8 Balance ID#: 3120

Sample ID	Fillet Dissection - Pre-homogenization			Carcass Remainder			Fillet Homogenization		
	Jar + Sample (g)	Jar (g)	Sample (g)	Jar + Sample (g)	Jar (g)	Sample (g)	Jar + Sample (g)	Jar (g)	Sample (g)
1/10	146.33	113.39	32.94	223.91	174.94	48.97	146.24	113.39	32.85
2/10	143.78	113.61	30.17	222.53	178.63	43.90	143.72	113.61	30.11
3/10	181.84	113.76	68.08	312.10	179.09	133.01	181.66	113.76	67.90
4/10	182.88	113.26	69.62	295.29	173.17	122.12	182.76	113.26	69.50
5/10	128.86	112.06	16.80	220.35	174.65	45.70	128.86	112.06	16.80
6/10	164.01	113.45	50.56	238.29	179.28	59.01	163.94	113.88	50.06
7/10	156.78	112.35	44.43	249.17	178.79	70.38	156.70	112.35	44.35
8/10	195.42	113.46	81.96	269.44	173.86	95.58	194.88	113.46	81.42
9/10	329.34	172.82	156.52	576.65	326.68	249.97	328.47	172.82	155.65
10/10	264.51	173.34	91.17	467.21	325.96	141.25	264.13	173.34	90.79

Portion amount to be used for fillet composite: 16.44 gReviewed by: JLGDate: 23-Oct-2017

AXYS Analytical Services Ltd.

Modified Composite Sample Preparation Record - Fillet Composite + Subsample

WG: WG61516Date: 18-Oct-2017Chemist: ORA/WGContract: 4033Axys Sample ID: L28215-8Balance ID#: 3120

Portioning for Composite

Sample ID	Jar + Sample before subsample taken (g)	Jar + Sample after subsample taken (g)	Sample removed from container (g)	Direct Weight of portion (g)
1/10	146.24	129.59	16.65	16.53
2/10	143.72	127.10	16.62	16.50
3/10	181.66	164.94	16.72	16.51
4/10	182.76	166.24 166.21	16.55	16.52
5/10	128.86	112.35	16.51	16.44
6/10	163.94	147.34	16.60	16.52
7/10	156.70	140.15	16.55	16.52
8/10	194.88	178.35	16.53	16.47
9/10	328.47	311.90	16.57	16.51
10/10	264.13	247.54	16.59	16.48

18-Oct-2017
ORA

Composite

Sample ID	Pre-Homogenization			Post Homogenization		
	Jar + Sample (g)	Jar (g)	Sample (g)	Jar + Sample (g)	Jar (g)	Sample (g)
L28215-8	339.86	174.90	164.96	339.74	174.90	164.84

Subsamples

Subsamples	Portion weight (g)
SUBS 1	40.50
SUBS 2	98.19
SUBS 3	10.02
SUBS 4	4.16
SUBS 5	11.55

Reviewed by: JLGDate: 23-OCT-2017

L28215-8

07/10 Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: KM
Collection date: 8/29/17	Collection time: 0914
Location: 2	Method: trawl
Species: English sole	
Specimen ID: LDW17-R2-ES002	
Length (mm): 224	Weight (g) 138

7/10 Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: NM
Collection date: 8/29/17	Collection time: 1354
Location: 2	Method: trawl
Species: english sole	
Specimen ID: LDW17-R2-ES026	
Length (mm): 224	Weight (g) 136

8/10 Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: JR
Collection date: 9/1/17	Collection time: 1331
Location: 2	Method: TRAWL
Species: ENGLISH SOLE	
Specimen ID: LDW17-R2-ES148	
Length (mm): 262	Weight (g) 196

09/10 Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: KM
Collection date: 8/29/17	Collection time: 1015
Location: 2	Method: trawl
Species: English sole	
Specimen ID: LDW17-R2-ES0126	
Length (mm): 334	Weight (g) 456

10/10 Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: KM
Collection date: 8/29/17	Collection time: 0914
Location: 2	Method: trawl
Species: English sole	
Specimen ID: LDW17-R2-ES005	
Length (mm): 312	Weight (g) 292

11/10 Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: NM
Collection date: 8/30/17	Collection time: 1119
Location: 2	Method: trawl
Species: english sole	
Specimen ID: LDW17-R2-ES061	
Length (mm): 210	Weight (g) 100

2/10 Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: NM
Collection date: 8/30/17	Collection time: 1119
Location: 2	Method: trawl
Species: english sole	
Specimen ID: LDW17-R2-ES060	
Length (mm): 203	Weight (g) 90

3/10 Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: NM
Collection date: 8/30/17	Collection time: 1003
Location: 2	Method: trawl
Species: english sole	
Specimen ID: LDW17-R2-ES056	
Length (mm): 281	Weight (g) 270

4/10 Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: NM
Collection date: 8/30/17	Collection time: 1003
Location: 2	Method: trawl
Species: english sole	
Specimen ID: LDW17-R2-ES055	
Length (mm): 293	Weight (g) 210

5/10 Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: NM
Collection date: 8/29/17	Collection time: 1354
Location: 2	Method: trawl
Species: english sole	
Specimen ID: LDW17-R2-ES032	
Length (mm): 206	Weight (g) 82

Modified Composite Sample Preparation Record - Unprocessed fish

WG: WG61516

Date: 18 OCT 2017

Chemist: C4/SPM Contract: 4033

Axys Sample ID: L28215-9

Balance ID#: 3180

Sample ID	Client ID	Sample Description	Sample + Container (g)	Container (g)	Sample (g)
1/10	ES047H LDW17-R2-ES034 13 OCT 2017 ES018	1x brown flat fish w/ white belly	112.09	11.54	100.55
2/10	ES064 LDW17-R2-ES018	1x brown flat fish w/ white belly	109.53	14.14	95.39
3/10	ES039 LDW17-R2-ES022	1x brown flat fish w/ white belly	108.79	9.19	99.60
4/10	ES057 LDW17-R2-ES019	1x brown flat fish w/ white belly	267.72	18.25	249.47
5/10	ES147 LDW17-R2-ES035	1x brown flat fish w/ white belly	247.24	16.16	231.10
6/10	ES034 LDW17-R2-ES047	1x brown flat fish w/ white belly	145.69	19.94	125.75 125.75
7/10	ES018 LDW17-R2-ES064	1x brown flat fish w/ white belly	330.39	17.70	312.69
8/10	ES022 LDW17-R2-ES039	1x brown flat fish w/ white belly	316.30	14.86	301.44
9/10	ES019 LDW17-R2-ES057	1x brown flat fish w/ white belly	388.08	14.23	373.85
10/10	ES035 LDW17-R2-ES147	1x brown flat fish w/ white belly	173.28	16.47	156.81

18 OCT 2017 SPM

18 OCT 2017 SPM
*please see note

Reviewed by: JLG

Date: 23 OCT 2017

Modified Composite Sample Preparation Record - Fillet Homogenization

WG: WG61516Date: 18 OCT 2017Chemist: CH/SRMContract: 4033Axys Sample ID: L28215-9 Balance ID#: 3180

Sample ID	Fillet Dissection - Pre-homogenization			Carcass Remainder			Fillet Homogenization		
	Jar + Sample (g)	Jar (g)	Sample (g)	Jar + Sample (g)	Jar (g)	Sample (g)	Jar + Sample (g)	Jar (g)	Sample (g)
1 / 10	143.79	112.28	31.51	245.22	178.43	66.79	143.70	112.28	31.42
2 / 10	148.84	113.21	35.63	237.28	179.56	57.72	148.63	113.21	35.42
3 / 10	144.76	112.95	31.81	244.11	178.77	65.34	144.65	112.95	31.70
4 / 10	254.38	173.12	81.26	488.79	325.78	163.01	253.63	173.12	80.51
5 / 10	255.48	177.20	78.28	472.89	325.15 <small>18 OCT 2017 CH</small>	147.74	254.87	177.20	77.67
6 / 10	152.36	113.53	38.83	261.31	177.84	83.47	152.20	113.53	38.67
7 / 10	275.08	177.94	97.14	536.27	325.07	211.20	274.67	177.94	96.73
8 / 10	279.43	177.97	101.46	519.42	325.67	194.25	279.08	177.97	101.11
9 / 10	287.72	176.81	110.91	584.74	324.62	258.12	287.38	176.81	110.57
10 / 10	160.68	113.74	46.92	284.09	179.18	104.91	160.34	113.74	46.58

Portion amount to be used for fillet composite: 31.42 gReviewed by: JLGDate: 23-OCT-2017

AXYS Analytical Services Ltd.

Modified Composite Sample Preparation Record - Fillet Composite + Subsample

WG: WG61516Date: 18 OCT 2017Chemist: CH SRM/DRA Contract: 4033Axys Sample ID: L28215-9Balance ID#: 3180

Portioning for Composite

Sample ID	Jar + Sample before subsample taken (g)	Jar + Sample after subsample taken (g)	Sample removed from container (g)	Direct Weight of portion (g)
1/10	143.70	112.42	31.28	31.25
2/10	148.63	117.25	31.39 31.38 ^{17 Nov 2017 DRA}	31.23
3/10	144.65	113.31	31.34	31.24
4/10	253.63	222.10	31.53	31.19
5/10	254.87	223.55	31.32	31.20
6/10	152.20	120.93	31.27	31.17
7/10	274.67	243.41	31.26	31.15
8/10	279.08	247.64	31.44	31.30
9/10	287.38	255.84	31.54	31.34
10/10	160.34	128.96	31.38	31.22

Composite

Sample ID	Pre-Homogenization			Post Homogenization		
	Jar + Sample (g)	Jar (g)	Sample (g)	Jar + Sample (g)	Jar (g)	Sample (g)
L28215-9	620.61	308.65	311.19 311.96	619.90	308.65	311.25

18-OCT-2017 DRA

Subsamples

Subsamples	Portion weight (g)
SUBS 1	43.81
SUBS 2	102.90
SUBS 3	11.70
SUBS 4	5.14
SUBS 5	143.72

Reviewed by: JLGDate: 23-OCT-2017

200 W. Mercer St., Suite 401, Seattle, WA 98119
Tel: 206.378.1364 Fax: 206.973.3048

Project/Task #: AOC3	Sampler: NM
Collection date: 8/30/17	Collection time: 0925
Location: 2	Method: trawl
Species: english sole	
Specimen ID: LDW17- R2-ES047	
Length (mm): 219	Weight (g) 110

L28215-9
Original labelling

180 Oct 2017
SEM

Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: KM
Collection date: 8/30/17	Collection time: 1147
Location: 2	Method: trawl
Species: English sole	
Specimen ID: LDW17- R2-ES064	
Length (mm): 214	Weight (g) 110

180 Oct 2017
SEM

200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: NM
Collection date: 8/30/17	Collection time: 0850
Location: 2	Method: trawl
Species: english sole	
Specimen ID: LDW17- R2-ES039	
Length (mm): 219	Weight (g) 103

180 Oct 2017
SEM

Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: NM
Collection date: 8/30/17	Collection time: 1003
Location: 2	Method: trawl
Species: english sole	
Specimen ID: LDW17- R2-ES057	
Length (mm): 299	Weight (g) 260

180 Oct 2017
SEM to 5

Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: JR
Collection date: 9/1/2017	Collection time: 1331
Location: 2	Method: TRAWL
Species: ENGLISH SOLE	
Specimen ID: LDW17- R -ES147	
Length (mm): 293	Weight (g) 250

200 W. Mercer St., Suite 401, Seattle, WA 98119
Tel: 206.378.1364 Fax: 206.973.3048

Project/Task #: AOC3	Sampler: KM
Collection date: 8/29/17	Collection time: 1421
Location: 2	Method: trawl
Species: English sole	
Specimen ID: LDW17- R2-ES034	
Length (mm): 237	Weight (g) 150

180 Oct 2017
SEM

Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: NM (15)
Collection date: 8/29/17	Collection time: 1222
Location: 2	Method: trawl
Species: english sole	
Specimen ID: LDW17- R2-ES018	
Length (mm): 320	Weight (g) 330

180 Oct 2017
SEM

Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: NM
Collection date: 8/29/17	Collection time: 1318
Location: 2	Method: trawl
Species: english sole	
Specimen ID: LDW17- R2-ES022	
Length (mm): 303	Weight (g) 324

180 Oct 2017
SEM

Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: NM (252)
Collection date: 8/29/17	Collection time: 1258
Location: 2	Method: trawl
Species: English sole	
Specimen ID: LDW17- R2-ES019	
Length (mm): 320	Weight (g) 382

180 Oct 2017
SEM

Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: KM
Collection date: 8/29/17	Collection time: 1421
Location: 2	Method: trawl
Species: English sole	
Specimen ID: LDW17- R2-ES035	
Length (mm): 259	Weight (g) 180

Modified Composite Sample Preparation Record - Unprocessed fish

WG: WG61516Date: 18-Oct-2017Chemist: ORA/WGL/CA Contract: 4033Axys Sample ID: L28215-10Balance ID#: 3120

Sample ID	Client ID	Sample Description	Sample + Container (g)	Container (g)	Sample (g)
1/10	LDW17-R2-ES021	1x Brown flat fish w/white belly	88.90	15.72	73.18
2/10	LDW17-R2-ES027	1x Brown flat fish w/white belly	269.64	17.42	252.22
3/10	LDW17-R2-ES059	1x Brown flat fish w/white belly	135.04	13.75	121.29
4/10	LDW17-R2-ES011	1x Brown flat fish w/white belly	444.99	16.29	428.70
5/10	LDW17-R2-ES054	1x Brown flat fish w/white belly	475.97	33.02	442.95
6/10	LDW17-R2-ES145	1x Brown flat fish w/white belly	531.58	22.65	508.93
7/10	LDW17-R2-ES069	1x Brown flat fish w/white belly	335.67	17.30	318.37
8/10	LDW17-R2-ES154	1x Brown flat fish w/white belly	163.63	12.98	150.65
9/10	LDW17-R2-ES146	1x Brown flat fish w/white belly	136.87	8.63	128.24
10/10	LDW17-R2-ES042	1x Brown flat fish w/white belly	95.81	11.77	82.04

95.81
w/gc 17 Nov 2017

w/gc 17 Nov 2017

Reviewed by: JLGDate: 23-Oct-2017

AXYS Analytical Services Ltd.

Modified Composite Sample Preparation Record - Fillet Homogenization

WG: WG61516Date: 18-Oct-2017Chemist: DRP/VG/CLContract: 4033Axys Sample ID: L28215-10 Balance ID#: 3120

Sample ID	Fillet Dissection - Pre-homogenization			Carcass Remainder			Fillet Homogenization		
	Jar + Sample (g)	Jar (g)	Sample (g)	Jar + Sample (g)	Jar (g)	Sample (g)	Jar + Sample (g)	Jar (g)	Sample (g)
1/10	138.53	113.18	25.35	221.92	177.54	44.38	138.51	113.18	25.33
2/10	193.66	113.42	80.24	343.62	177.11	166.51	193.42	^{177.11} 113.42 113.42	80.00
3/10	155.65	113.28	42.37	252.81	177.25	75.56	155.41	113.28	42.13
4/10	325.96	179.05	146.91	601.94	327.00	274.94	325.46	179.05	146.41
5/10	311.21	177.31	133.90	620.65	326.56	294.09	310.07	177.31	132.76
6/10	319.02	175.76	143.26	682.14	326.31	355.83	318.70	175.76	142.94
7/10	278.89	175.59	103.30	533.44	325.71	207.73	278.47	175.59	102.88
8/10	163.18	113.39	49.79	273.96	176.00	97.36	163.00	113.39	49.61
9/10	158.84	112.75	46.09	254.94	176.61	78.33	158.68	112.75	45.93
10/10	145.12	113.98	31.14	225.83	175.84	49.99	144.98	113.98	31.00

Portion amount to be used for fillet composite: 24.94 gReviewed by: ILGDate: 23-OCT-2017

AXYS Analytical Services Ltd.

Modified Composite Sample Preparation Record - Fillet Composite + Subsample

WG: WG61516Date: 18-Oct-2017Chemist: DRA / MGI / Cst Contract: 4033Axys Sample ID: L28215-10Balance ID#: 3120

Portioning for Composite

Sample ID	Jar + Sample before subsample taken (g)	Jar + Sample after subsample taken (g)	Sample removed from container (g)	Direct Weight of portion (g)
1/10	138.51	113.42	25.09	24.94
2/10	143.42	118.36	25.06	24.98
3/10	155.41	130.22	25.20 25.19 <small>Wt 17 Nov 2017</small>	25.01
4/10	325.46	300.41	25.05	24.93
5/10	310.07	284.61	25.46	24.88
6/10	318.70	293.70	25.00	25.00
7/10	278.47	253.48	24.99	24.90
8/10	163.00	138.10	24.90	24.89
9/10	158.68	133.48	25.20	24.96
10/10	144.98	119.99	24.99	24.88

Composite

Sample ID	Pre-Homogenization			Post Homogenization		
	Jar + Sample (g)	Jar (g)	Sample (g)	Jar + Sample (g)	Jar (g)	Sample (g)
L28215-10	559.05	309.79	249.26	558.85	309.79	249.06

Subsamples

Subsamples	Portion weight (g)
SUBS 1	45.31
SUBS 2	98.51
SUBS 3	10.59
SUBS 4	4.10
SUBS 5	89.05

Reviewed by: JLGDate: 23-Oct-2017

200 W. Mercer St., Suite 401, Seattle, WA 98119
Tel: 206.378.1364 Fax: 206.973.3048

Project/Task #: AOC3	Sampler: KM
Collection date:	Collection time: 1155
Location: 2	Method: trawl
Species: English sole	
Specimen ID: LDW17-R2-ES145	
Length (mm): 364	Weight (g) 536

1110 Windward Environmental LLC
200 W. Mercer St., Suite 401, Seattle, WA 98119
Tel: 206.378.1364 Fax: 206.973.3048

Project/Task #: AOC3	Sampler: NM 1250
Collection date: 8/29/17	Collection time: 1818
Location: 2	Method: trawl
Species: english sole	
Specimen ID: LDW17-R2-ES021	
Length (mm): 216	Weight (g) 92

710 Windward Environmental LLC
200 W. Mercer St., Suite 401, Seattle, WA 98119
Tel: 206.378.1364 Fax: 206.973.3048

Project/Task #: AOC3	Sampler: KM
Collection date: 8/30/17	Collection time: 1256
Location: 2	Method: trawl
Species: English sole	
Specimen ID: LDW17-R2-ES069	
Length (mm): 299	Weight (g) 349

2110 Windward Environmental LLC
200 W. Mercer St., Suite 401, Seattle, WA 98119
Tel: 206.378.1364 Fax: 206.973.3048

Project/Task #: AOC3	Sampler: NM
Collection date: 8/29/17	Collection time: 1854
Location: 2	Method: trawl
Species: english sole	
Specimen ID: LDW17-R2-ES027	
Length (mm): 293	Weight (g) 278

810 Windward Environmental LLC
200 W. Mercer St., Suite 401, Seattle, WA 98119
Tel: 206.378.1364 Fax: 206.973.3048

Project/Task #: AOC3	Sampler: JR
Collection date: 9/1/17	Collection time: 1531
Location: 2	Method: TRAWL
Species: ENGLISH SOLE	
Specimen ID: LDW17-R2-ES154	
Length (mm): 251	Weight (g) 154

3110 Windward Environmental LLC
200 W. Mercer St., Suite 401, Seattle, WA 98119
Tel: 206.378.1364 Fax: 206.973.3048

Project/Task #: AOC3	Sampler: NM
Collection date: 8/30/17	Collection time: 1119
Location: 2	Method: trawl
Species: english sole	
Specimen ID: LDW17-R2-ES059	
Length (mm): 230	Weight (g) 131

910 Windward Environmental LLC
200 W. Mercer St., Suite 401, Seattle, WA 98119
Tel: 206.378.1364 Fax: 206.973.3048

Project/Task #: AOC3	Sampler: JR
Collection date: 9/1/17	Collection time: 1305
Location: 2	Method: trawl
Species: ENGLISH SOLE	
Specimen ID: LDW17-R2-ES146	
Length (mm): 231	Weight (g) 136

4110 Windward Environmental LLC
200 W. Mercer St., Suite 401, Seattle, WA 98119
Tel: 206.378.1364 Fax: 206.973.3048

Project/Task #: AOC3	Sampler: KM
Collection date: 8/29/17	Collection time: 1015
Location: 2	Method: trawl
Species: English sole	
Specimen ID: LDW17-R2-ES011	
Length (mm): 337	Weight (g) 450

1010 Windward Environmental LLC
200 W. Mercer St., Suite 401, Seattle, WA 98119
Tel: 206.378.1364 Fax: 206.973.3048

Project/Task #: AOC3	Sampler: NM
Collection date: 8/30/17	Collection time: 0850
Location: 2	Method: trawl
Species: english sole	
Specimen ID: LDW17-R2-ES042	
Length (mm): 208	Weight (g) 95

5110 Windward Environmental LLC
200 W. Mercer St., Suite 401, Seattle, WA 98119
Tel: 206.378.1364 Fax: 206.973.3048

Project/Task #: AOC3	Sampler: NM
Collection date: 8/30/17	Collection time: 0925
Location: 2	Method: trawl
Species: english sole	
Specimen ID: LDW17-R2-ES054	
Length (mm): 368	Weight (g) 470

Modified Composite Sample Preparation Record - Unprocessed fish

WG: WG61516Date: 18 OCT 2017Chemist: CA/161/DPA Contract: 4033Axys Sample ID: L28215-11Balance ID#: 3120

Sample ID	Client ID	Sample Description	Sample + Container (g)	Container (g)	Sample (g)
1 / 10	LDW17-R2-ES038	1x Brown flat fish w/white belly	105.01	7.48	97.53
2 / 10	LDW17-R2-ES001	1x Brown flat fish w/white belly	415.51	26.15	389.36
3 / 10	LDW17-R2-ES006	1x Brown flat fish w/white belly	151.54	13.91	137.63
4 / 10	LDW17-R2-ES062	1x Brown flat fish w/white belly	88.52	12.02	76.50
5 / 10	LDW17-R2-ES037	1x Brown flat fish w/white belly	109.57	9.39	100.12
6 / 10	LDW17-R2-ES031	1x Brown flat fish w/white belly	404.83	16.49	388.34
7 / 10	LDW17-R2-ES066	1x Brown flat fish w/white belly	84.77	11.41	73.36
8 / 10	LDW17-R2-ES150	1x Brown flat fish w/white belly	439.80	25.20	414.66
9 / 10	LDW17-R2-ES053	1x Brown flat fish w/white belly	285.84	20.09	265.75
10 / 10	LDW17-R2-ES153	1x Brown flat fish w/white belly	166.32	14.27	152.05

Reviewed by: JLGDate: 23-OCT-2017

Modified Composite Sample Preparation Record - Fillet Homogenization

WG: WG61516Date: 18 OCT 2017Chemist: CA/MGI/OPHContract: 4033Axys Sample ID: L28215-11 Balance ID#: 3120

Sample ID	Fillet Dissection - Pre-homogenization			Carcass Remainder			Fillet Homogenization		
	Jar + Sample (g)	Jar (g)	Sample (g)	Jar + Sample (g)	Jar (g)	Sample (g)	Jar + Sample (g)	Jar (g)	Sample (g)
1 / 10	144.14	112.30	31.84	239.90	177.47 + 190 OCT 2017 CA	62.43	144.02	112.30	31.72
2 / 10	292.43	176.63	115.80	592.93	326.90	266.03	292.18	176.63	115.55
3 / 10	165.85	113.41	52.44	257.49	174.22	81.27	165.73	113.41	52.32
4 / 10	138.32	113.82	24.50	224.27	174.24	48.03	138.27	113.82	24.45
5 / 10	148.85	113.27	35.58	238.05	176.64	61.41	148.73	113.27	35.46
6 / 10	292.12	175.59	116.53	591.35	326.66	264.69	291.83	175.59	116.24
7 / 10	136.20	113.49	22.71	223.72	177.30	46.42	136.19	113.49	22.70
8 / 10	283.86	176.02	107.84	623.35	327.10	296.25	282.92	176.02	106.90
9 / 10	173.30	111.77	61.53	522.84	327.14	195.68	172.89	111.77	61.12
10 / 10	163.97	111.94	52.03	269.54	176.44	93.10	163.81	111.94	51.87

Portion amount to be used for fillet composite: 22.10 gReviewed by: JLGDate: 23 OCT 2017

AXYS Analytical Services Ltd.

Modified Composite Sample Preparation Record - Fillet Composite + Subsample

WG: WG61516Date: 19 Oct 2017Chemist: WGA/DPAContract: 4033Axys Sample ID: L28215-11Balance ID#: 3120

Portioning for Composite

Sample ID	Jar + Sample before subsample taken (g)	Jar + Sample after subsample taken (g)	Sample removed from container (g)	Direct Weight of portion (g)
1/10	144.02	121.72	22.30	22.14
2/10	292.18	269.60	22.52	22.20
3/10	165.73	143.50	22.23	22.22
4/10	138.27	115.90	22.37	22.13
5/10	148.73	126.54	22.14	22.10
6/10	291.83	269.67	22.16	22.11
7/10	136.19	113.82	22.37	22.10
8/10	282.92	260.54	22.33	22.10
9/10	172.89	150.32	22.57	22.17
10/10	163.81	141.68 141.68	22.13	22.12

19-Oct-2017
DPA

Composite

Sample ID	Pre-Homogenization			Post Homogenization		
	Jar + Sample (g)	Jar (g)	Sample (g)	Jar + Sample (g)	Jar (g)	Sample (g)
L28215-11	531.32	309.46	221.36	531.14	309.46	221.18

Subsamples

Subsamples	Portion weight (g)
SUBS 1	10.42
SUBS 2	98.69
SUBS 3	10.37
SUBS 4	4.20
SUBS 5	65.30

Reviewed by: JLGDate: 23-Oct-2017

L28215-11

Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: JR
Collection date: 9/1/17	Collection time: 1331
Location: 2	Method: TRAWL
Species: ENGLISH SOLE	
Specimen ID: LDW17-R2-ES153	
Length (mm): 245	Weight (g) 160

10

Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: NM
Collection date: 8/30/17	Collection time: 0850
Location: 2	Method: trawl
Species: english sole	
Specimen ID: LDW17-R2-ES088	
Length (mm): 290	Weight (g) 1.52

Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: NM
Collection date: 8/30/17	Collection time: 0925
Location: 2	Method: trawl
Species: english sole	
Specimen ID: LDW17-R2-053	
Length (mm): 314	Weight (g) 299

9

Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: KM
Collection date: 8/29/17	Collection time: 0914
Location: 2	Method: trawl
Species: English sole	
Specimen ID: LDW17-R2-ES001	
Length (mm): 332	Weight (g) 420

2

Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: JR
Collection date: 9/1/17	Collection time: 1331
Location: 2	Method: TRAWL
Species: ENGLISH SOLE	
Specimen ID: LDW17-R2-ES150	
Length (mm): 21	Weight (g) 4411

8

Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: KM
Collection date: 8/29/17	Collection time: 091
Location: 2	Method: trawl
Species: English sole	
Specimen ID: LDW17-R2-ES006	
Length (mm): 241	Weight (g) 156

3

Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: NM
Collection date: 8/30/17	Collection time: 1147
Location: 2	Method: trawl
Species: English sole	
Specimen ID: LDW17-R2-ES066	
Length (mm): 207	Weight (g) 80

7

Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: NM
Collection date: 8/30/17	Collection time: 1119
Location: 2	Method: trawl
Species: english sole	
Specimen ID: LDW17-R2-ES062	
Length (mm): 204	Weight (g) 90

4

Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: NM
Collection date: 8/29/17	Collection time: 1354
Location: 2	Method: trawl
Species: english sole	
Specimen ID: LDW17-R2-ES031	
Length (mm): 225	Weight (g) 410

6

Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: NM
Collection date: 8/30/17	Collection time: 0850
Location: 2	Method: trawl
Species: english sole	
Specimen ID: LDW17-R2-ES037	
Length (mm): 220	Weight (g) 103

5

Modified Composite Sample Preparation Record - Unprocessed fish

WG: WG61516Date: 19-Oct-2017Chemist: DRA/WGM Contract: 4033Axys Sample ID: L28215-12Balance ID#: 3120

Sample ID	Client ID	Sample Description	Sample + Container (g)	Container (g)	Sample (g)
1/10	LDW17-R2-E3151	1x Brown flat fish w/white belly	219.22	14.60	204.62
2/10	LDW17-R2-E3023	1x Brown flat fish w/white belly	124.59	22.41	102.18
3/10	LDW17-R2-E3008	1x Brown flat fish w/white belly	161.80	18.15	143.65
4/10	LDW17-R2-E3012	1x Brown flat fish w/white belly	140.31	17.34	122.97
5/10	LDW17-R2-E3045	1x Brown flat fish w/white belly	88.12	11.11	77.01
6/10	LDW17-R2-E3031	1x Brown flat fish w/white belly	734.76	43.82	690.94
7/10	LDW17-R2-E3009	1x Brown flat fish w/white belly	115.80	18.04	97.76
8/10	LDW17-R2-E3036	1x Brown flat fish w/white belly	145.09	19.30	125.79
9/10	LDW17-R2-E3025	1x Brown flat fish w/white belly	113.12	13.40	99.72
10/10	LDW17-R2-E3003	1x Brown flat fish w/white belly	154.11	17.36	136.75

Reviewed by: JLGDate: 23-OCT-2017

Modified Composite Sample Preparation Record - Fillet Homogenization

WG: 61516Date: 19-01-2017Chemist: DRA/WGContract: 4033Axys Sample ID: L28215-12 Balance ID#: 3120

Sample ID	Fillet Dissection - Pre-homogenization			Carcass Remainder			Fillet Homogenization		
	Jar + Sample (g)	Jar (g)	Sample (g)	Jar + Sample (g)	Jar (g)	Sample (g)	Jar + Sample (g)	Jar (g)	Sample (g)
1/10	181.13	112.00	69.13	303.97	179.09	124.88	118.96 180.96	112.00	68.96
2/10	139.65	113.43 113.43 19-01-2017 OPA	26.22	247.32	177.16	70.16	139.60	113.43	26.17
3/10	153.30 153.30	112.14	41.16	273.40	176.90	96.50	153.03	112.14	40.89
4/10	156.21	112.76	43.45	252.32	176.95	75.37	156.07	112.76	43.31
5/10	140.66	111.73	28.93	221.02	175.52	45.50	140.52	111.73	28.79
6/10	549.22	176.61 176.61 325.53 19-01-2017 OPA	223.69	510.29	54.95	455.34	525.71	325.53	200.60 200.18 19-01-2017 OPA
7/10	144.07	112.40	31.67	238.87	176.71	62.16	143.98	112.40	31.58
8/10	152.20 152.20 19-01-2017 OPA	112.01	40.19 40.19 19-01-2017 OPA	257.94	176.62	81.32	151.91	112.01	39.90
9/10	147.22	113.15	34.07	237.33	176.85	60.48	147.04	113.15	33.89
10/10	169.14	112.53	56.61	253.14	177.67	75.47	169.01	112.53	56.48

Portion amount to be used for fillet composite: 25.38 gReviewed by: JLGDate: 23-OCT-2017

AXYS Analytical Services Ltd.

Modified Composite Sample Preparation Record - Fillet Composite + Subsample

WG: WG61516Date: 19-Oct-2017Chemist: ORA/W/GContract: 4033Axys Sample ID: L28215-12Balance ID#: 3120

Portioning for Composite

Sample ID	Jar + Sample before subsample taken (g)	Jar + Sample after subsample taken (g)	Sample removed from container (g)	Direct Weight of portion (g)
1/10	180.46	155.36	25.60	25.49
2/10	139.60	114.02	25.58	25.38
3/10	153.03	127.36	25.67	25.49
4/10	156.07	130.57	25.50	25.45
5/10	140.52	114.95	25.57	25.42
6/10	525.71	499.86	25.85	25.43
7/10	143.98	118.19	25.79	25.63
8/10	151.91	126.16	25.75	25.42
9/10	147.04	121.51	25.53	25.41
10/10	169.01	143.57	25.44	25.42

Composite

Sample ID	Pre-Homogenization			Post Homogenization		
	Jar + Sample (g)	Jar (g)	Sample (g)	Jar + Sample (g)	Jar (g)	Sample (g)
L28215-12	564.30	309.84	254.46	564.04	309.84	254.20

Subsamples

Subsamples	Portion weight (g)
SUBS 1	49.54
SUBS 2	100.37
SUBS 3	10.75
SUBS 4	4.67
SUBS 5	87.42

Reviewed by: JLGDate: 23-Oct-2017

L28215-12

Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: NM
Collection date: 8/30/17	Collection time: 0925
Location: 2	Method: trawl
Species: english sole	
Specimen ID: LDW17-R2-ES051	
Length (mm): 406	Weight (g) 749

11/10 Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: JP
Collection date: 9/1/17	Collection time: 1331
Location: 2	Method: TRAWL
Species: ENGLISH SOLE	
Specimen ID: LDW17-R2-ES151	
Length (mm): 274	Weight (g) 224

7/10 Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: KM
Collection date: 8/29/17	Collection time: 1015
Location: 2	Method: trawl
Species: English sole	
Specimen ID: LDW17-R2-ES009	
Length (mm): 221	Weight (g) 124

2/10 Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: NM
Collection date: 8/29/17	Collection time: 1354
Location: 2	Method: trawl
Species: english sole	
Specimen ID: LDW17-R2-ES028	
Length (mm): 265	Weight (g) 146

8/10 Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: NM
Collection date: 8/29/17	Collection time: 1421
Location: 2	Method: trawl
Species: english sole	
Specimen ID: LDW17-R2-ES036	
Length (mm): 260	Weight (g) 150

3/10 Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: KM
Collection date: 8/29/17	Collection time: 1015
Location: 2	Method: trawl
Species: English sole	
Specimen ID: LDW17-R2-ES008	
Length (mm): 261	Weight (g) 178

9/10 Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: NM
Collection date: 8/29/17	Collection time: 1854
Location: 2	Method: trawl
Species: english sole	
Specimen ID: LDW17-R2-ES025	
Length (mm): 228	Weight (g) 118

4/10 Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: KM
Collection date: 8/29/17	Collection time: 1015
Location: 2	Method: trawl
Species: English sole	
Specimen ID: LDW17-R2-ES012	
Length (mm): 229	Weight (g) 235

10/10 Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: KM
Collection date: 8/29/17	Collection time: 0914
Location: 2	Method: trawl
Species: English sole	
Specimen ID: LDW17-R2-ES0023	
Length (mm): 235	Weight (g) 160

5/10 Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: NM
Collection date: 8/30/17	Collection time: 0925
Location: 2	Method: trawl
Species: english sole	
Specimen ID: LDW17-R2-ES045	
Length (mm): 200	Weight (g) 81

SGS AXYS Analytical Services Ltd.

Tissue Sample Preparation Record

WG: WG61516

Date: 19 Oct 2017
18 Oct 2017

Chemist: SEM/CA /NGI /DEA Contract: 4033

Sample ID	Sample type	Discard excess tissue	Grinder	Equipment used:
L28215-7 SEM/CA/CA NGI	<input checked="" type="checkbox"/> Whole body <input type="checkbox"/> fillet	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> no	<input type="checkbox"/> GO4 <input type="checkbox"/> GO5 <input type="checkbox"/> GO6 <input type="checkbox"/> GO7	<input type="checkbox"/> spatula <input checked="" type="checkbox"/> Scissors <input type="checkbox"/> forceps <input checked="" type="checkbox"/> Scalpel
	<input type="checkbox"/> other	Filleted/Dissected	Blender	<input checked="" type="checkbox"/> Spoon <input type="checkbox"/> shears <input type="checkbox"/> knife
		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> no	<input type="checkbox"/> Virtis large bla <input type="checkbox"/> Virtis stator	<input type="checkbox"/> stainless steel bowl
Protocol Followed	<input type="checkbox"/> TOC <input checked="" type="checkbox"/> PFOS	<input checked="" type="checkbox"/> Metals <input checked="" type="checkbox"/> routine organics	<input type="checkbox"/> Omni Mixer	<input type="checkbox"/> other
L28215-8 SEM/CA/CA NGI	<input checked="" type="checkbox"/> Whole body <input type="checkbox"/> fillet	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> no	<input type="checkbox"/> GO4 <input type="checkbox"/> GO5 <input type="checkbox"/> GO6 <input type="checkbox"/> GO7	<input type="checkbox"/> spatula <input checked="" type="checkbox"/> Scissors <input type="checkbox"/> forceps <input checked="" type="checkbox"/> Scalpel
	<input type="checkbox"/> other	Filleted/Dissected	Blender	<input checked="" type="checkbox"/> Spoon <input type="checkbox"/> shears <input type="checkbox"/> knife
		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> no	<input type="checkbox"/> Virtis large bla <input type="checkbox"/> Virtis stator	<input type="checkbox"/> stainless steel bowl
Protocol Followed	<input type="checkbox"/> TOC <input checked="" type="checkbox"/> PFOS	<input checked="" type="checkbox"/> Metals <input checked="" type="checkbox"/> routine organics	<input type="checkbox"/> Omni Mixer	<input type="checkbox"/> other
L28215-9 SEM/CA/CA NGI	<input checked="" type="checkbox"/> Whole body <input type="checkbox"/> fillet	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> no	<input type="checkbox"/> GO4 <input type="checkbox"/> GO5 <input type="checkbox"/> GO6 <input type="checkbox"/> GO7	<input type="checkbox"/> spatula <input checked="" type="checkbox"/> Scissors <input type="checkbox"/> forceps <input checked="" type="checkbox"/> Scalpel
	<input type="checkbox"/> other	Filleted/Dissected	Blender	<input checked="" type="checkbox"/> Spoon <input type="checkbox"/> shears <input type="checkbox"/> knife
		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> no	<input type="checkbox"/> Virtis large bla <input type="checkbox"/> Virtis stator	<input type="checkbox"/> stainless steel bowl
Protocol Followed	<input type="checkbox"/> TOC <input checked="" type="checkbox"/> PFOS	<input checked="" type="checkbox"/> Metals <input checked="" type="checkbox"/> routine organics	<input type="checkbox"/> Omni Mixer	<input type="checkbox"/> other
L28215-10 SEM/CA/CA NGI	<input checked="" type="checkbox"/> Whole body <input type="checkbox"/> fillet	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> no	<input type="checkbox"/> GO4 <input type="checkbox"/> GO5 <input type="checkbox"/> GO6 <input type="checkbox"/> GO7	<input type="checkbox"/> spatula <input checked="" type="checkbox"/> Scissors <input type="checkbox"/> forceps <input checked="" type="checkbox"/> Scalpel
	<input type="checkbox"/> other	Filleted/Dissected	Blender	<input checked="" type="checkbox"/> Spoon <input type="checkbox"/> shears <input type="checkbox"/> knife
		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> no	<input type="checkbox"/> Virtis large bla <input type="checkbox"/> Virtis stator	<input type="checkbox"/> stainless steel bowl
Protocol Followed	<input type="checkbox"/> TOC <input checked="" type="checkbox"/> PFOS	<input checked="" type="checkbox"/> Metals <input checked="" type="checkbox"/> routine organics	<input type="checkbox"/> Omni Mixer	<input type="checkbox"/> other
L28215-11 SEM/CA/CA NGI	<input checked="" type="checkbox"/> Whole body <input type="checkbox"/> fillet	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> no	<input type="checkbox"/> GO4 <input type="checkbox"/> GO5 <input type="checkbox"/> GO6 <input type="checkbox"/> GO7	<input type="checkbox"/> spatula <input checked="" type="checkbox"/> Scissors <input type="checkbox"/> forceps <input checked="" type="checkbox"/> Scalpel
	<input type="checkbox"/> other	Filleted/Dissected	Blender	<input checked="" type="checkbox"/> Spoon <input type="checkbox"/> shears <input type="checkbox"/> knife
		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> no	<input type="checkbox"/> Virtis large bla <input type="checkbox"/> Virtis stator	<input type="checkbox"/> stainless steel bowl
Protocol Followed	<input type="checkbox"/> TOC <input checked="" type="checkbox"/> PFOS	<input checked="" type="checkbox"/> Metals <input checked="" type="checkbox"/> routine organics	<input type="checkbox"/> Omni Mixer	<input type="checkbox"/> other
L28215-12 SEM/CA/CA NGI	<input checked="" type="checkbox"/> Whole body <input type="checkbox"/> fillet	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> no	<input type="checkbox"/> GO4 <input type="checkbox"/> GO5 <input type="checkbox"/> GO6 <input checked="" type="checkbox"/> GO7	<input type="checkbox"/> spatula <input checked="" type="checkbox"/> Scissors <input type="checkbox"/> forceps <input checked="" type="checkbox"/> Scalpel
	<input type="checkbox"/> other	Filleted/Dissected	Blender	<input checked="" type="checkbox"/> Spoon <input type="checkbox"/> shears <input type="checkbox"/> knife
		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> no	<input type="checkbox"/> Virtis large bla <input type="checkbox"/> Virtis stator	<input type="checkbox"/> stainless steel bowl
Protocol Followed	<input type="checkbox"/> TOC <input checked="" type="checkbox"/> PFOS	<input checked="" type="checkbox"/> Metals <input checked="" type="checkbox"/> routine organics	<input type="checkbox"/> Omni Mixer	<input type="checkbox"/> other

Reviewed by: JLG

Date: 23-Oct-2017

23-Oct-2017 JLG

Notes: Batch ID: WG61516 Method: MLAxxx

Date:	Analyst	Fraction	Notes:		
19 Oct 2017	SRM		L28215-9: the client ID labels were originally copied down from the photocopy of all the original labels. Once the processing of fish ^{started} occurred the client labels were checked again. This is when it was discovered the incorrect labels were ^{100% accurate} written down. The correct labels were put down when each fish was weighed + filleted, ensuring the correct label was put down for the right fish.		
			23 OCT-2017 JLG		

Reviewed by JLG date 23 OCT-2017

Modified Composite Sample Preparation Record - Unprocessed Crab

WG: 61767Date: 01 Nov 2017Chemist: CH/MGI Contract: 4033Axs Sample ID: L28215-13Balance ID#: 3120

Sample ID	Client ID	Sample Description	Sample + Container (g)	Container (g)	Sample (g)
1 / 7	Lbw17-R1-GC029	1x whole, intact shell red crab	192.05	27.51	164.54
2 / 7	Lbw17-R1-GC079	1x whole, intact shell red crab	206.36	27.71	178.65
3 / 7	Lbw17-R1-GC051	1x whole, intact shell red crab.	210.68	28.51	182.17
4 / 7	Lbw17-R1-GC060	1x whole, intact shell red crab	200.15	34.38	165.77
5 / 7	Lbw17-R1-GC031	1x whole, intact shell red crab	263.21	22.09	241.12
6 / 7	Lbw17-R1-GC054	1x red crab, shell intact 1 claw missing	159.33	25.96	133.37
7 / 7	Lbw17-R1-GC072	1x whole, intact shell red crab.	212.01	9.44	202.55

Reviewed by: JLGDate: 14-NOV-201714-NOV-2017
JLG

AXYS Analytical Services Ltd.

Modified Composite Sample Preparation Record - Crab

WG: 61767Date: 01 NOV 2017Chemist: CA/MGI Contract: 4033Axys Sample ID: L28215-13 Balance ID#: 3120

Portioning for Composite

Sample ID	Edible Crab meat (direct weight) (g)	Hepatopancreas (direct weight) (g)	Crab carcass (g) <small>01 NOV 2017 CA</small>
1 / 7	26.28	9.42	114.23 97.75
2 / 7	39.66	7.09	114.23
3 / 7	50.59	9.32	109.37
4 / 7	30.60	5.85	100.61
5 / 7	59.10	16.46	142.05
6 / 7	32.29	8.75	77.39
7 / 7	51.79	11.39	123.61 154.61 <small>01 NOV 2017 CA</small>

Composite

Sample ID	Pre-Homogenization			Post Homogenization		
	Jar + Sample (g)	Jar (g)	Sample (g)	Jar + Sample (g)	Jar (g)	Sample (g)
L28215-13	610.54	322.68	287.86	609.75	322.68	287.07

Subsamples

Subsamples	Portion weight (g)
SUBS 1	40.53
SUBS 2	128.35
SUBS 3	0
SUBS 4	4.42
SUBS 5	1.22
SUBS 6	111.27

Hepatopancreas jar weight: 112.40Reviewed by: JLGDate: 14-NOV-201714-NOV-2017
JLG

Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: <i>KM</i>
Collection date: <i>8/31/17</i>	Collection time: <i>0949</i>
Location: <i>1</i>	Method: <i>trawl</i>
Species: <i>graceful crab</i>	
Specimen ID: <i>LDW17-R1-GC029</i>	
Length (mm): <i>95</i>	Weight (g) <i>190</i>

Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: <i>TDO</i>
Collection date: <i>8.31.17</i>	Collection time: <i>1042</i>
Location: <i>R1</i>	Method: <i>trawl</i>
Species: <i>Graceful crab</i>	
Specimen ID: <i>LDW17-R1-GC031</i>	
Length (mm): <i>111</i>	Weight (g) <i>265</i>

Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: <i>KM</i>
Collection date: <i>9/1/17</i>	Collection time: <i>1037</i>
Location: <i>1</i>	Method: <i>trawl</i>
Species: <i>Graceful crab</i>	
Specimen ID: <i>LDW17-R1-GC079</i>	
Length (mm): <i>102</i>	Weight (g) <i>208</i>

Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: <i>my</i>
Collection date: <i>8.31.17</i>	Collection time: <i>1328</i>
Location: <i>R1</i>	Method:
Species: <i>GL</i>	
Specimen ID: <i>LDW17-R1-GC054</i>	
Length (mm): <i>98</i>	Weight (g) <i>180</i>

Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: <i>KM</i>
Collection date: <i>8/31/17</i>	Collection time: <i>1251</i>
Location: <i>1</i>	Method: <i>trawl</i>
Species: <i>Graceful crab</i>	
Specimen ID: <i>LDW17-R1-GC051</i>	
Length (mm): <i>100</i>	Weight (g) <i>212</i>

Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: <i>JR</i>
Collection date: <i>9-1-17</i>	Collection time: <i>0834</i>
Location: <i>1</i>	Method: <i>TRAWL</i>
Species: <i>GRACEFUL CRAB</i>	
Specimen ID: <i>LDW17-R1-GC072</i>	
Length (mm): <i>101</i>	Weight (g) <i>198</i>

Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: <i>my</i>
Collection date: <i>8.31.17</i>	Collection time: <i>1518</i>
Location: <i>R1</i>	Method: <i>CT</i>
Species: <i>GL</i>	
Specimen ID: <i>LDW17-R1-GC060</i>	
Length (mm): <i>99</i>	Weight (g) <i>217</i>

Modified Composite Sample Preparation Record - Unprocessed Crab

WG: 61767Date: 01 NOV 2017Chemist: CH / JLG Contract: 4033Axys Sample ID: L28215-K1Balance ID#: 3120

Sample ID	Client ID	Sample Description	Sample + Container (g)	Container (g)	Sample (g)
1 / 7	LDW17-R1-GC050	1X whole, intact shell red crab	179.84	29.38	150.46
2 / 7	LDW17-R1-GC055	1X whole red crab	183.11	28.27	154.84
3 / 7	LDW17-R1-GC043	1X whole red crab	193.62	42.36	151.26
4 / 7	LDW17-R1-GC048	1X whole red crab	246.17	26.30	219.87
5 / 7	LDW17-R1-GC070	1X whole red crab	191.44	28.39	163.05
6 / 7	LDW17-R1-GC066	1X whole red crab	164.07	27.36	136.71
7 / 7	LDW17-R1-GC044	1X whole red crab	155.77	23.66	132.11

Reviewed by: JLGDate: 14 NOV 201714-NOV-2017
JLG

Modified Composite Sample Preparation Record - Crab

WG: 61767Date: 01 Nov 2017Chemist: CJContract: 4033Axys Sample ID: L28215-14 Balance ID#: 3120

Portioning for Composite

Sample ID	Edible Crab meat (direct weight) (g)	Hepatopancreas (direct weight) (g)	Crab carcass (g)
1 / 7	28.61	11.13	92.57
2 / 7	33.82	11.53	92.12
3 / 7	39.48	4.52	99.09
4 / 7	48.44	12.06	142.08
5 / 7	39.21	13.76	93.90
6 / 7	25.54	3.79	90.04
7 / 7	31.59	9.05	80.02

Composite

Sample ID	Pre-Homogenization			Post Homogenization		
	Jar + Sample (g)	Jar (g)	Sample (g)	Jar + Sample (g)	Jar (g)	Sample (g)
L28215-14	569.33	322.72	246.61	568.52	322.72	245.80

Subsamples

Subsamples	Portion weight (g)
SUBS 1	40.48
SUBS 2	131.19
SUBS 3	0
SUBS 4	4.51
SUBS 5	1.22
SUBS 6	67.71

Hepatopancreas jar weight: 176.17Reviewed by: JLGDate: 14-NOV-2017JLG
14-NOV-2017

Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: <i>KM</i>
Collection date: <i>8/31/17</i>	Collection time: <i>1251</i>
Location: <i>1</i>	Method: <i>trawl</i>
Species: <i>GRACEFUL CRAB</i>	
Specimen ID: <i>LDW17-R1-GC050</i>	
Length (mm): <i>96</i>	Weight (g) <i>175</i>

Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: <i>JR</i>
Collection date: <i>9-1-17</i>	Collection time: <i>0834</i>
Location: <i>1</i>	Method: <i>TRAWL</i>
Species: <i>GRACEFUL CRAB</i>	
Specimen ID: <i>LDW17-R1-GC076</i>	
Length (mm): <i>99</i>	Weight (g) <i>192</i>

Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: <i>MY</i>
Collection date: <i>8.31.17</i>	Collection time: <i>1328</i>
Location: <i>R1</i>	Method: <i>CT</i>
Species: <i>GC</i>	
Specimen ID: <i>LDW17-R1-GC055</i>	
Length (mm): <i>98</i>	Weight (g) <i>206</i>

Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: <i>MY</i>
Collection date: <i>8.31.17</i>	Collection time: <i>1538</i>
Location: <i>R1</i>	Method: <i>CT</i>
Species: <i>GC</i>	
Specimen ID: <i>LDW17-R1-GC064</i>	
Length (mm): <i>96</i>	Weight (g) <i>185</i>

Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: <i>MY</i>
Collection date: <i>8.31.17</i>	Collection time: <i>1253</i>
Location: <i>R1</i>	Method: <i>CT</i>
Species: <i>GC</i>	
Specimen ID: <i>LDW17-R1-GC043</i>	
Length (mm): <i>102</i>	Weight (g) <i>214</i>

Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: <i>MY</i>
Collection date: <i>8.31.17</i>	Collection time: <i>1315</i>
Location: <i>R1</i>	Method: <i>CT</i>
Species: <i>GC</i>	
Specimen ID: <i>LDW17-R1-GC044</i>	
Length (mm): <i>96</i>	Weight (g) <i>179</i>

Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: <i>MY</i>
Collection date: <i>8-31-17</i>	Collection time: <i>1315</i>
Location: <i>R1</i>	Method: <i>CT</i>
Species: <i>GC</i>	
Specimen ID: <i>LDW17-R1-GC048</i>	
Length (mm): <i>106</i>	Weight (g) <i>271</i>

Modified Composite Sample Preparation Record - Unprocessed Crab

WG: 61767Date: 01 nov 2017Chemist: Cat/W/G1 Contract: 4033Axys Sample ID: L28215 - 15Balance ID#: 3120

Sample ID	Client ID	Sample Description	Sample + Container (g)	Container (g)	Sample (g)
1 / 7	LOW17-R1 - GC057	1x whole red crab	154.33	24.72	129.61
2 / 7	LOW17-R1 - GC023	1x whole red crab	176.83	24.12	152.71
3 / 7	LOW17-R1 - GC059	1x whole red crab	200.67	31.75	168.92
4 / 7	LOW17-R1 - GC027	1x whole red crab	220.27	35.68	184.59
5 / 7	LOW17-R1 - GC034	1x whole red crab	171.40	35.50	135.90
6 / 7	LOW17-R1 - GC064	1x whole red crab	204.71	35.51	169.20
7 / 7	LOW17-R1 - GC030	1x whole red crab	170.39	31.73	138.66

Reviewed by: JLGDate: 14-NOV-2017

Modified Composite Sample Preparation Record - Crab

WG: 61767Date: 01 Nov 2017Chemist: CAH/W/GA Contract: 4033Axys Sample ID: L28215-15 Balance ID#: 3120

Portioning for Composite

Sample ID	Edible Crab meat (direct weight) (g)	Hepatopancreas (direct weight) (g)	Crab carcass (g)
1 / 7	27.04	6.53	79.54
2 / 7	27.41	13.77	89.90
3 / 7	33.95	17.89	108.04
4 / 7	41.87	12.88	118.54
5 / 7	33.98	6.15	77.15
6 / 7	28.18	15.08	105.77
7 / 7	32.26	7.58	83.94

Composite

Sample ID	Pre-Homogenization			Post Homogenization		
	Jar + Sample (g)	Jar (g)	Sample (g)	Jar + Sample (g)	Jar (g)	Sample (g)
L28215-15	548.26	323.02	225.24	547.39	175.72 323.02	224.37

Subsamples

Subsamples	Portion weight (g)
SUBS 1	42.39
SUBS 2	129.47
SUBS 3	0
SUBS 4	4.78
SUBS 5	1.26
SUBS 6	45.99

Hepatopancreas jar weight: 175.72Reviewed by: JLGDate: 14 Nov 2017

1	
Windward Environmental LLC	
200 W. Mercer St., Suite 401, Seattle, WA 98119	
Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: <i>MY</i>
Collection date: <i>8/31/17</i>	Collection time: <i>1328</i>
Location: <i>R1</i>	Method: <i>CT</i>
Species: <i>GC</i>	
Specimen ID: <i>LDW17-R1-GC057</i>	
Length (mm): <i>96</i>	Weight (g) <i>172</i>

6	
Windward Environmental LLC	
200 W. Mercer St., Suite 401, Seattle, WA 98119	
Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: <i>TD</i>
Collection date: <i>8/31/17</i>	Collection time: <i>1155</i>
Location: <i>R1</i>	Method: <i>trawl</i>
Species: <i>Graceful crab</i>	
Specimen ID: <i>LDW17-R1-GC034</i>	
Length (mm): <i>100</i>	Weight (g) <i>177</i>

2	
Windward Environmental LLC	
200 W. Mercer St., Suite 401, Seattle, WA 98119	
Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: <i>NM</i>
Collection date: <i>8/30/17</i>	Collection time: <i>1400</i>
Location: <i>I</i>	Method: <i>trawl</i>
Species: <i>graceful crab</i>	
Specimen ID: <i>LDW17-R1-GC023</i>	
Length (mm): <i>95</i>	Weight (g) <i>172</i>

U	
Windward Environmental LLC	
200 W. Mercer St., Suite 401, Seattle, WA 98119	
Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: <i>MY</i>
Collection date: <i>8/30/17</i>	Collection time: <i>1530</i>
Location: <i>R1</i>	Method: <i>CT</i>
Species: <i>GC</i>	
Specimen ID: <i>LDW17-R1-GC064</i>	
Length (mm): <i>103</i>	Weight (g) <i>227</i>

3	
Windward Environmental LLC	
200 W. Mercer St., Suite 401, Seattle, WA 98119	
Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: <i>MY</i>
Collection date: <i>8/31/17</i>	Collection time: <i>1344</i>
Location: <i>R1</i>	Method: <i>CT</i>
Species: <i>GC</i>	
Specimen ID: <i>LDW17-R1-GC059</i>	
Length (mm): <i>98</i>	Weight (g) <i>223</i>

7	
Windward Environmental LLC	
200 W. Mercer St., Suite 401, Seattle, WA 98119	
Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: <i>NM</i>
Collection date: <i>8/31/17</i>	Collection time: <i>1017</i>
Location: <i>I</i>	Method: <i>trawl</i>
Species: <i>graceful crab</i>	
Specimen ID: <i>LDW17-R1-GC030</i>	
Length (mm): <i>92</i>	Weight (g) <i>169</i>

4	
Windward Environmental LLC	
200 W. Mercer St., Suite 401, Seattle, WA 98119	
Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: <i>NM</i>
Collection date: <i>8/31/17</i>	Collection time: <i>0845</i>
Location: <i>I</i>	Method: <i>trawl</i>
Species: <i>Graceful crab</i>	
Specimen ID: <i>LDW17-R1-GC027</i>	
Length (mm): <i>100</i>	Weight (g) <i>224</i>

Modified Composite Sample Preparation Record - Unprocessed Crab

WG: ~~61763~~ ^{01 NOV 2017 CH} 61767

Date: 01 NOV 2017

Chemist: CH

Contract: 4033

Axs Sample ID: L28215-16

Balance ID#: 3120

Sample ID	Client ID	Sample Description	Sample + Container (g)	Container (g)	Sample (g)
1 7	LDW17-R1-GC049	1x whole red crab	213.84	34.35 30.70 01 NOV 2017 CH	179.49
2 7	LDW17-R1-GC041	1x whole red crab	131.68	37.17	94.51
3 7	LDW17-R1-GC058	1x whole red crab	191.06	30.25	160.81
4 7	LDW17-R1-GC063	1x whole red crab	170.13	26.83	143.30
5 7	LDW17-R1-GC065	1x whole red crab	240.88	33.18	207.70
6 7	LDW17-R1-GC053	1x whole red crab	168.75	31.68	137.07
7 7	LDW17-R1-GC024	1x whole red crab	176.77	30.70	146.07

Reviewed by: JLG

Date: 14-NOV-2017

Modified Composite Sample Preparation Record - Crab

WG: 67767 Date: 01 NOV 2017 Chemist: CH Contract: 4033Axys Sample ID: L28215-16 Balance ID#: 3120

Portioning for Composite

Sample ID	Edible Crab meat (direct weight) (g)	Hepatopancreas (direct weight) (g)	Crab carcass (g)
1 / 7	42.86	13.94	107.53
2 / 7	14.42	2.46	68.97
3 / 7	26.45	7.07	102.93
4 / 7	22.78	11.80	72.95
5 / 7	35.75	12.04	148.60
6 / 7	24.72	8.85	88.79
7 / 7	35.28	4.51	87.81

Composite

Sample ID	Pre-Homogenization			Post Homogenization		
	Jar + Sample (g)	Jar (g)	Sample (g)	Jar + Sample (g)	Jar (g)	Sample (g)
L28215-16	535.49	323.22	212.27	534.34	323.22	211.22

Subsamples

Subsamples	Portion weight (g)
SUBS 1	40.68
SUBS 2	128.21
SUBS 3	n/a
SUBS 4	4.33
SUBS 5	1.13
SUBS 6	36.82

Hepatopancreas jar weight: 176.11

sample + jar = 236.78

sample = 40.67

Reviewed by: JLGDate: 14-NOV-2017

Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: <i>KM</i>
Collection date: <i>8/31/17</i>	Collection time: <i>1251</i>
Location: <i>1</i>	Method: <i>trawl</i>
Species: <i>Graceful crab</i>	
Specimen ID: <i>LDW17-RI-GC049</i>	
Length (mm): <i>105</i>	Weight (g) <i>215</i>

Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: <i>MY</i>
Collection date: <i>8.31.17</i>	Collection time: <i>1530</i>
Location: <i>RI</i>	Method: <i>CT</i>
Species: <i>GC</i>	
Specimen ID: <i>LDW17-RI-GC065</i>	
Length (mm): <i>105</i>	Weight (g) <i>258</i>

Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: <i>MY</i>
Collection date: <i>8.31.17</i>	Collection time: <i>1239</i>
Location: <i>RI</i>	Method: <i>CT</i>
Species: <i>GC</i>	
Specimen ID: <i>LDW17-RI-GC041</i>	
Length (mm): <i>96</i>	Weight (g) <i>173</i>

Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: <i>MY</i>
Collection date: <i>8.31.17</i>	Collection time: <i>1328</i>
Location: <i>RI</i>	Method: <i>CT</i>
Species: <i>GC</i>	
Specimen ID: <i>LDW17-RI-GC053</i>	
Length (mm): <i>92</i>	Weight (g) <i>188</i>

Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: <i>MY</i>
Collection date: <i>8.31.17</i>	Collection time: <i>1344</i>
Location: <i>RI</i>	Method: <i>CT</i>
Species: <i>GC</i>	
Specimen ID: <i>LDW17-RI-GC058</i>	
Length (mm): <i>99</i>	Weight (g) <i>212</i>

Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: <i>NM</i>
Collection date: <i>8/30/17</i>	Collection time: <i>1400</i>
Location: <i>1</i>	Method: <i>trawl</i>
Species: <i>graceful crab</i>	
Specimen ID: <i>LDW17-RI-GC024</i>	
Length (mm): <i>98</i>	Weight (g) <i>174</i>

Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: <i>MY</i>
Collection date: <i>8.31.17</i>	Collection time: <i>1530</i>
Location: <i>RI</i>	Method: <i>CT</i>
Species: <i>GC</i>	
Specimen ID: <i>LDW17-RI-GC063</i>	
Length (mm): <i>103</i>	Weight (g) <i>189</i>

SGS AXYS Analytical Services Ltd.

Tissue Sample Preparation Record

WG: WG61767

Date: 01 Nov 2017

Chemist: *Ch/WG*

Contract: 4033

Sample ID	Sample type		Discard excess tissue		Grinder				Equipment used:			
L28215-13 <i>Ch</i>	<input type="checkbox"/> whole body	<input type="checkbox"/> fillet	<input type="checkbox"/> yes	<input checked="" type="checkbox"/> no	<input type="checkbox"/> GO4	<input type="checkbox"/> GO5	<input type="checkbox"/> GO6	<input type="checkbox"/> GO7	<input type="checkbox"/> spatula	<input checked="" type="checkbox"/> scissors	<input checked="" type="checkbox"/> forceps	<input type="checkbox"/> scalpel
	<input checked="" type="checkbox"/> other <i>crab</i>		Filletted/Dissected		Blender				<input checked="" type="checkbox"/> spoon	<input type="checkbox"/> shears	<input type="checkbox"/> knife	
			<input type="checkbox"/> yes	<input checked="" type="checkbox"/> no	<input type="checkbox"/> Virtis large bla <input type="checkbox"/> Virtis stator				<input type="checkbox"/> stainless steel bowl			
Protocol Followed	<input type="checkbox"/> TOC	<input checked="" type="checkbox"/> PFOS	<input checked="" type="checkbox"/> Metals	<input checked="" type="checkbox"/> routine organics	<input type="checkbox"/> Omni Mixer				<input type="checkbox"/> other			
L28215-14 <i>Ch</i>	<input type="checkbox"/> whole body	<input type="checkbox"/> fillet	<input type="checkbox"/> yes	<input checked="" type="checkbox"/> no	<input type="checkbox"/> GO4	<input type="checkbox"/> GO5	<input type="checkbox"/> GO6	<input type="checkbox"/> GO7	<input type="checkbox"/> spatula	<input checked="" type="checkbox"/> scissors	<input checked="" type="checkbox"/> forceps	<input type="checkbox"/> scalpel
	<input checked="" type="checkbox"/> other <i>crab</i>		Filletted/Dissected		Blender				<input checked="" type="checkbox"/> spoon	<input type="checkbox"/> shears	<input type="checkbox"/> knife	
			<input type="checkbox"/> yes	<input checked="" type="checkbox"/> no	<input type="checkbox"/> Virtis large bla <input type="checkbox"/> Virtis stator				<input type="checkbox"/> stainless steel bowl			
Protocol Followed	<input type="checkbox"/> TOC	<input checked="" type="checkbox"/> PFOS	<input checked="" type="checkbox"/> Metals	<input checked="" type="checkbox"/> routine organics	<input type="checkbox"/> Omni Mixer				<input type="checkbox"/> other			
L28215-15 <i>Ch</i>	<input type="checkbox"/> whole body	<input type="checkbox"/> fillet	<input type="checkbox"/> yes	<input checked="" type="checkbox"/> no	<input type="checkbox"/> GO4	<input type="checkbox"/> GO5	<input type="checkbox"/> GO6	<input type="checkbox"/> GO7	<input type="checkbox"/> spatula	<input checked="" type="checkbox"/> scissors	<input checked="" type="checkbox"/> forceps	<input type="checkbox"/> scalpel
	<input checked="" type="checkbox"/> other <i>crab</i>		Filletted/Dissected		Blender				<input checked="" type="checkbox"/> spoon	<input type="checkbox"/> shears	<input type="checkbox"/> knife	
			<input type="checkbox"/> yes	<input checked="" type="checkbox"/> no	<input type="checkbox"/> Virtis large bla <input type="checkbox"/> Virtis stator				<input type="checkbox"/> stainless steel bowl			
Protocol Followed	<input type="checkbox"/> TOC	<input checked="" type="checkbox"/> PFOS	<input checked="" type="checkbox"/> Metals	<input checked="" type="checkbox"/> routine organics	<input type="checkbox"/> Omni Mixer				<input type="checkbox"/> other			
L28215-16 <i>Ch</i>	<input type="checkbox"/> whole body	<input type="checkbox"/> fillet	<input type="checkbox"/> yes	<input checked="" type="checkbox"/> no	<input type="checkbox"/> GO4	<input type="checkbox"/> GO5	<input type="checkbox"/> GO6	<input type="checkbox"/> GO7	<input type="checkbox"/> spatula	<input checked="" type="checkbox"/> scissors	<input checked="" type="checkbox"/> forceps	<input type="checkbox"/> scalpel
	<input checked="" type="checkbox"/> other <i>crab</i>		Filletted/Dissected		Blender				<input checked="" type="checkbox"/> spoon	<input type="checkbox"/> shears	<input type="checkbox"/> knife	
			<input type="checkbox"/> yes	<input checked="" type="checkbox"/> no	<input type="checkbox"/> Virtis large bla <input type="checkbox"/> Virtis stator				<input type="checkbox"/> stainless steel bowl			
Protocol Followed	<input type="checkbox"/> TOC	<input checked="" type="checkbox"/> PFOS	<input checked="" type="checkbox"/> Metals	<input checked="" type="checkbox"/> routine organics	<input type="checkbox"/> Omni Mixer				<input type="checkbox"/> other			
L28215-17	<input type="checkbox"/> whole body	<input type="checkbox"/> fillet	<input type="checkbox"/> yes	<input type="checkbox"/> no	<input type="checkbox"/> GO4	<input type="checkbox"/> GO5	<input type="checkbox"/> GO6	<input type="checkbox"/> GO7	<input type="checkbox"/> spatula	<input type="checkbox"/> scissors	<input type="checkbox"/> forceps	<input type="checkbox"/> scalpel
	<input type="checkbox"/> other		Filletted/Dissected		Blender				<input type="checkbox"/> spoon	<input type="checkbox"/> shears	<input type="checkbox"/> knife	
			<input type="checkbox"/> yes	<input type="checkbox"/> no	<input type="checkbox"/> Virtis large bla <input type="checkbox"/> Virtis stator				<input type="checkbox"/> stainless steel bowl			
Protocol Followed	<input type="checkbox"/> TOC	<input type="checkbox"/> PFOS	<input type="checkbox"/> Metals	<input type="checkbox"/> routine organics	<input type="checkbox"/> Omni Mixer				<input type="checkbox"/> other			
L28215-18	<input type="checkbox"/> whole body	<input type="checkbox"/> fillet	<input type="checkbox"/> yes	<input type="checkbox"/> no	<input type="checkbox"/> GO4	<input type="checkbox"/> GO5	<input type="checkbox"/> GO6	<input type="checkbox"/> GO7	<input type="checkbox"/> spatula	<input type="checkbox"/> scissors	<input type="checkbox"/> forceps	<input type="checkbox"/> scalpel
	<input type="checkbox"/> other		Filletted/Dissected		Blender				<input type="checkbox"/> spoon	<input type="checkbox"/> shears	<input type="checkbox"/> knife	
			<input type="checkbox"/> yes	<input type="checkbox"/> no	<input type="checkbox"/> Virtis large bla <input type="checkbox"/> Virtis stator				<input type="checkbox"/> stainless steel bowl			
Protocol Followed	<input type="checkbox"/> TOC	<input type="checkbox"/> PFOS	<input type="checkbox"/> Metals	<input type="checkbox"/> routine organics	<input type="checkbox"/> Omni Mixer				<input type="checkbox"/> other			

Reviewed by: JLG

Date: 17 Nov 2017

Notes: Batch ID: WG61767 Method: MLAxxx

Date:	Analyst	Fraction	Notes:
			NONE
			14-NOV-2017
			JLG

Reviewed by JLG date 14-NOV-2017

AXYS Analytical Services Ltd.

Modified Composite Sample Preparation Record - Crab

WG: 61796Date: 03 Nov 2017Chemist: WGA / CAJ Contract: 4033Axys Sample ID: L28215-17 Balance ID#: 3120

Portioning for Composite

Sample ID	Edible Crab meat (direct weight) (g)	Hepatopancreas (direct weight) (g)	Crab carcass (g)
1/7	27.73	7.84	72.60
2/7	29.52	18.56	93.14
3/7	39.88	17.39	116.92
4/7	35.29	13.49	111.99
5/7	30.19	13.55	95.80
6/7	44.10	15.33	125.71
7/7	30.60	17.14	109.72

Composite

Sample ID	Pre-Homogenization			Post Homogenization		
	Jar + Sample (g)	Jar (g)	Sample (g)	Jar + Sample (g)	Jar (g)	Sample (g)
L28215-17	413.22	175.91	237.31	412.60	175.91	236.69

Subsamples

Subsamples	Portion weight (g)
SUBS 1	40.26
SUBS 2	120.22
SUBS 3	2
SUBS 4	4.74
SUBS 5	1.32
SUBS 6	69.41

Hepatopancreas jar weight: 113.64

Sample + jar = 216.94
 Sample. 103.30

Reviewed by: JLGDate: 17 NOV 2017

Modified Composite Sample Preparation Record - Unprocessed Crab

WG: 61796Date: 03 Nov 2017Chemist: W/GH / CM Contract: 4033Axys Sample ID: L28215-17Balance ID#: 3120

Sample ID	Client ID	Sample Description	Sample + Container (g)	Container (g)	Sample (g)
1/7	LDW17-R1-GC036	1x red crab, shell intact	156.56	34.26	122.30
2/7	LDW17-R1-GC061	1x red crab, shell intact	185.57	34.70	150.87
3/7	LDW17-R1-GC052	1x red crab, shell intact	215.96	26.78	189.18
4/7	LDW17-R1-GC077	1x red crab, shell intact	203.22	33.68	169.54 178.37
5/7	LDW17-R1-GC033	1x red crab, shell intact	174.45	24.85	149.60
6/7	LDW17-R1-GC032	1x red crab, shell intact	205.51	35.94	169.57
7/7	LDW17-R1-GC078	1x red crab, shell intact	240.49	35.17	205.32

W/GH 17 Nov 2017

Reviewed by: JCGDate: 7 NOV 2017

WG61796

4033

L28215-17

Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: <i>my</i>
Collection date: <i>8.31.17</i>	Collection time: <i>1218</i>
Location: <i>R1</i>	Method: <i>CT</i>
Species: <i>GC</i>	
Specimen ID: <i>LDW17-R1-GC036</i>	
Length (mm): <i>94</i>	Weight (g) <i>174</i>

Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: <i>TR</i>
Collection date: <i>8.31.17</i>	Collection time: <i>1121</i>
Location: <i>R1</i>	Method: <i>trawl</i>
Species: <i>Graceful crab</i>	
Specimen ID: <i>LDW17-R1-GC033</i>	
Length (mm): <i>94</i>	Weight (g) <i>173</i>

Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: <i>my</i>
Collection date: <i>8.31.17</i>	Collection time: <i>1518</i>
Location: <i>R1</i>	Method: <i>CT</i>
Species: <i>GC</i>	
Specimen ID: <i>LDW17-R1-GC068</i>	
Length (mm): <i>98</i>	Weight (g) <i>206</i>

Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: <i>TPO</i>
Collection date: <i>8.31.17</i>	Collection time: <i>1042</i>
Location: <i>R1</i>	Method: <i>trawl</i>
Species: <i>Graceful crab</i>	
Specimen ID: <i>LDW17-R1-GC032</i>	
Length (mm): <i>100</i>	Weight (g) <i>205</i>

Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: <i>km</i>
Collection date: <i>8/31/17</i>	Collection time: <i>1251</i>
Location: <i>1</i>	Method: <i>trawl</i>
Species: <i>Graceful crab</i>	
Specimen ID: <i>LDW17-R1-GC052</i>	
Length (mm): <i>101</i>	Weight (g) <i>213</i>

Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: <i>km</i>
Collection date: <i>9/1/17</i>	Collection time: <i>1037</i>
Location: <i>1</i>	Method: <i>trawl</i>
Species: <i>Graceful crab</i>	
Specimen ID: <i>LDW17-R1-GC078</i>	
Length (mm): <i>103</i>	Weight (g) <i>238</i>

Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: <i>km</i>
Collection date: <i>9/1/17</i>	Collection time: <i>1037</i>
Location: <i>1</i>	Method: <i>trawl</i>
Species: <i>Graceful crab</i>	
Specimen ID: <i>LDW17-R1-GC077</i>	
Length (mm): <i>98</i>	Weight (g) <i>202</i>

Modified Composite Sample Preparation Record - Unprocessed Crab

WG: 61796Date: 03 NOV 2017Chemist: Ch/W/GI Contract: 4033Axs Sample ID: L28215-18Balance ID#: 3/20

Sample ID	Client ID	Sample Description	Sample + Container (g)	Container (g)	Sample (g)
1 / 7	LDW17-RI - GC068	1x red, whole, intact shell crab	169.70	25.42	144.28
2 / 7	LDW17-RI - GC067	1x whole, intact shell red crab	212.31	20.93	191.38
3 / 7	LDW17-RI - GC047	1x whole, intact shell red crab	201.25	17.23	184.02
4 / 7	LDW17-RI - GC073	1x whole, intact shell red crab	118.27	25.22	93.05
5 / 7	LDW17-RI - GC038	1x whole, intact shell red crab	208.94	23.13	185.81
6 / 7	LDW17-RI - GC056	1x whole, intact shell red crab	177.14	30.43	146.71
7 / 7	LDW17-RI - GC045	1x whole, intact shell red crab	244.36	29.73	214.63

Reviewed by: JLGDate: 17 NOV 2017

AXYS Analytical Services Ltd.

Modified Composite Sample Preparation Record - Crab

WG: 61796Date: 03 Nov 2017Chemist: CH/W/G Contract: 4033Axys Sample ID: L28215-18Balance ID#: 3120

Portioning for Composite

Sample ID	Edible Crab meat (direct weight) (g)	Hepatopancreas (direct weight) (g)	Crab carcass (g)
1 / 7	34.64	9.06	88.26
2 / 7	40.84	16.08	117.84
3 / 7	28.90	16.24	113.89
4 / 7	11.59	5.01	53.11
5 / 7	37.39	11.59	110.53
6 / 7	28.81	6.06	92.99
7 / 7	49.81	16.88	130.93

Composite

Sample ID	Pre-Homogenization			Post Homogenization		
	Jar + Sample (g)	Jar (g)	Sample (g)	Jar + Sample (g)	Jar (g)	Sample (g)
L28215-18	407.83	176.42	231.41	406.99	176.42	230.57

Subsamples

Subsamples	Portion weight (g)
SUBS 1	40.48
SUBS 2	128.57
SUBS 3	0
SUBS 4	4.18
SUBS 5	1.87
SUBS 6	54.77

Hepatopancreas jar weight: 113.59Sample + jar = 194.51Sample = 80.92Reviewed by: JLGDate: 17 Nov 2017

Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: <i>my</i>
Collection date: <i>8.31.17</i>	Collection time: <i>1544</i>
Location: <i>R1</i>	Method: <i>CT</i>
Species: <i>GC</i>	
Specimen ID: <i>LDW17-R1-GC068</i>	
Length (mm): <i>99</i>	Weight (g) <i>181</i>

Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: <i>JR</i>
Collection date: <i>9-1-17</i>	Collection time: <i>0834</i>
Location: <i>1</i>	Method: <i>TRAWL</i>
Species: <i>GRACEFUL CRAB</i>	
Specimen ID: <i>LDW17-R1-GC073</i>	
Length (mm): <i>94</i>	Weight (g) <i>198</i>

Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: <i>my</i>
Collection date: <i>8.31.17</i>	Collection time: <i>1545</i>
Location: <i>R1</i>	Method: <i>CT</i>
Species: <i>GC</i>	
Specimen ID: <i>LDW17-R1-GC067</i>	
Length (mm): <i>101</i>	Weight (g) <i>231</i>

Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: <i>my</i>
Collection date: <i>8.31.17</i>	Collection time: <i>1227</i>
Location: <i>R1</i>	Method: <i>CT</i>
Species: <i>GC</i>	
Specimen ID: <i>LDW17-R1-GC038</i>	
Length (mm): <i>98</i>	Weight (g) <i>197</i>

Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: <i>my</i>
Collection date: <i>8-31-17</i>	Collection time: <i>1315</i>
Location: <i>R1</i>	Method: <i>CT</i>
Species: <i>GC</i>	
Specimen ID: <i>LDW17-R1-GC047</i>	
Length (mm): <i>104</i>	Weight (g) <i>219</i>

Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: <i>my</i>
Collection date: <i>8-31-17</i>	Collection time: <i>1328</i>
Location: <i>R1</i>	Method: <i>CT</i>
Species: <i>GC</i>	
Specimen ID: <i>LDW17-R1-GC056</i>	
Length (mm): <i>109</i>	Weight (g) <i>267</i>

Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: <i>my</i>
Collection date: <i>8.31.17</i>	Collection time: <i>1315</i>
Location: <i>R1</i>	Method: <i>CT</i>
Species: <i>GC</i>	
Specimen ID: <i>LDW17-R1-GC045</i>	
Length (mm): <i>90</i>	Weight (g) <i>141</i>

Modified Composite Sample Preparation Record - Unprocessed Crab

WG: 61796Date: 06 Nov 2017Chemist: C4 Contract: 4033Axys Sample ID: L28215-19Balance ID#: 3120

Sample ID	Client ID	Sample Description	Sample + Container (g)	Container (g)	Sample (g)
1 / 7	LDW17-R2-GC022	1x whole, intact shell red crab	181.04	18.35	162.69
2 / 7	LDW17-R2-GC084	1x whole, intact shell red crab	185.83	12.73	173.10
3 / 7	LDW17-R2-GC080	1x whole, intact shell red crab	193.34	28.30	165.04
4 / 7	LDW17-R2-GC104	1x whole, intact shell red crab	203.19	42.02	161.17
5 / 7	LDW17-R2-GC090	1x whole, intact shell red crab	164.59	23.69	140.90
6 / 7	LDW17-R2-GC103	1x whole, intact shell red crab	179.25	30.51	148.74
7 / 7	LDW17-R2-GC005	1x whole, intact shell red crab	157.98	18.93	139.05

Reviewed by: JLGDate: 17 NOV 2017

AXYS Analytical Services Ltd.

Modified Composite Sample Preparation Record - Crab

WG: 61796Date: 06 NOV 2017Chemist: CH Contract: 4033Axys Sample ID: L28215-19Balance ID#: 3120

Portioning for Composite

Sample ID	Edible Crab meat (direct weight) (g)	Hepatopancreas (direct weight) (g)	Crab carcass (g)
1 / 7	19.13	21.84	105.96
2 / 7	27.78	13.45	106.96
3 / 7	33.34	15.17	100.62
4 / 7	36.98	7.93	97.10
5 / 7	30.64	10.23	95.34
6 / 7	38.56	8.22	89.62
7 / 7	34.10	12.42	81.99

Composite

Sample ID	Pre-Homogenization			Post Homogenization		
	Jar + Sample (g)	Jar (g)	Sample (g)	Jar + Sample (g)	Jar (g)	Sample (g)
L28215-19	397.16	176.75	220.41	396.50	176.75	219.75

Subsamples

Subsamples	Portion weight (g)
SUBS 1	41.08
SUBS 2	86.42
SUBS 3	10.24
SUBS 4	5.10
SUBS 5	1.31
SUBS 6	74.78

Hepatopancreas jar weight: 176.15Sample + jar = 265.16Sample = 88.41Reviewed by: JLGDate: 17 NOV 2017

Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: <i>NM</i>
Collection date: <i>8/30/17</i>	Collection time: <i>1324</i>
Location: <i>2</i>	Method: <i>trawl</i>
Species: <i>Graceful crab</i>	
Specimen ID: <i>LDW17-R2-GC022</i>	
Length (mm): <i>93</i>	Weight (g): <i>93</i> <i>186</i>

Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: <i>MY</i>
Collection date: <i>9.5.17</i>	Collection time: <i>1522</i>
Location: <i>R2</i>	Method: <i>CT</i>
Species: <i>GC</i>	
Specimen ID: <i>LDW17-R2-GC104</i>	
Length (mm): <i>97</i>	Weight (g): <i>185</i>

Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: <i>MY</i>
Collection date: <i>9.1.17</i>	Collection time: <i>1348</i>
Location: <i>R2</i>	Method: <i>CT</i>
Species: <i>GC</i>	
Specimen ID: <i>LDW17-R2-GC084</i>	
Length (mm): <i>96</i>	Weight (g): <i>202</i>

Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: <i>MY</i>
Collection date: <i>9.1.17</i>	Collection time: <i>1413</i>
Location: <i>R2</i>	Method: <i>CT</i>
Species: <i>GC</i>	
Specimen ID: <i>LDW17-R2-GC090</i>	
Length (mm): <i>103</i>	Weight (g): <i>212</i>

Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: <i>KM</i>
Collection date: <i>9/1/17</i>	Collection time: <i>1305</i>
Location: <i>± 2</i>	Method: <i>trawl</i>
Species: <i>Graceful crab</i>	
Specimen ID: <i>LDW17-R2-GC086</i>	
Length (mm): <i>95</i>	Weight (g): <i>166</i>

Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: <i>MY</i>
Collection date: <i>9.5.17</i>	Collection time: <i>1439</i>
Location: <i>R2</i>	Method: <i>CT</i>
Species: <i>GC</i>	
Specimen ID: <i>LDW17-R2-GC103</i>	
Length (mm): <i>97</i>	Weight (g): <i>171</i>

Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: <i>KM</i>
Collection date: <i>8/29/17</i>	Collection time: <i>1318</i>
Location: <i>2</i>	Method: <i>trawl</i>
Species: <i>Graceful crab</i>	
Specimen ID: <i>LDW17-R2-GC005</i>	
Length (mm): <i>93</i>	Weight (g): <i>157</i>

Modified Composite Sample Preparation Record - Unprocessed Crab

WG: 61796Date: 06 NOV 2017Chemist: CH Contract: 4033Axs Sample ID: L28215-20Balance ID#: 3120

Sample ID	Client ID	Sample Description	Sample + Container (g)	Container (g)	Sample (g)
1 7	LDW17-R2-GC018	1x whole, intact shell red crab	215.21	35.97	179.24
2 7	LDW17-R2-GC080	1x whole, intact shell red crab	166.37	32.51	133.86
3 7	LDW17-R2-GC091	1x whole, intact shell red crab	181.01	19.26	141.75
4 7	LDW17-R2-GC088	1x whole, intact shell red crab	177.02	21.95	155.07
5 7	LDW17-R2-GC014	1x whole, intact shell red crab	178.95	26.03	152.92
6 7	LDW17-R2-GC008	1x whole, intact shell red crab	174.45	35.03	139.42
7 7	LDW17-R2-GC009	1x whole, intact shell red crab	159.09	16.82	142.27

Reviewed by: JLGDate: 17 NOV 2017

AXYS Analytical Services Ltd.

Modified Composite Sample Preparation Record - Crab

WG: 61796Date: 06 NOV 2017Chemist: CH/WG Contract: 4033Axys Sample ID: L28215 - 20Balance ID#: 3120

Portioning for Composite

Sample ID	Edible Crab meat (direct weight) (g)	Hepatopancreas (direct weight) (g)	Crab carcass (g)
1 7	34.97	1.84	110.86
2 7	20.47	10.07	88.96
3 7	30.49	3.89	81.34
4 7	29.82	10.14	95.47
5 7	31.83	8.58	104.88
6 7	25.28	10.51	95.30
7 7	17.37	13.72	96.06

Composite

Sample ID	Pre-Homogenization			Post Homogenization		
	Jar + Sample (g)	Jar (g)	Sample (g)	Jar + Sample (g)	Jar (g)	Sample (g)
	<u>18 366.97</u>	<u>176.74</u>	<u>190.23</u>	<u>364.80</u>	<u>176.74</u>	<u>188.06</u>

Subsamples

Subsamples	Portion weight (g)
SUBS 1	40.10
SUBS 2	71.16
SUBS 3	10.44
SUBS 4	4.31
SUBS 5	1.61
SUBS 6	59.17

Hepatopancreas jar weight: 176.19Sample + jar = 234.96Sample = 58.77Reviewed by: JGDate: 17 NOV 2017

Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: KM
Collection date: 8/30/17	Collection time: 1147
Location: 2	Method: trawl
Species: graceful crab	
Specimen ID: LDW17-R2-GC018	
Length (mm): 108	Weight (g)

Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: KM
Collection date: 9/1/17	Collection time: 1305
Location: 2	Method: trawl
Species: graceful crab	
Specimen ID: LDW17-R2-GC088	
Length (mm): 97	Weight (g) 176

Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: MY
Collection date: 9.1.17	Collection time: 1335
Location: R2	Method: CT
Species: GC	
Specimen ID: LDW17-R2-GC080	
Length (mm): 92	Weight (g) 178

Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: KM
Collection date: 8/30/17	Collection time: 1119
Location: 2	Method: trawl
Species: graceful crab	
Specimen ID: LDW17-R2-GC014	
Length (mm): 97	Weight (g) 183

Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: MY
Collection date: 9.1.17	Collection time: 1413
Location: R2	Method: CT
Species: GC	
Specimen ID: LDW17-R2-GC091	
Length (mm): 97	Weight (g) 188

Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: NM
Collection date: 8/30/17	Collection time: 0850
Location: 2	Method: trawl
Species: Graceful crab	
Specimen ID: LDW17-R2-GC008	
Length (mm): 95	Weight (g) 166

Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: NM
Collection date: 8/30/17	Collection time: 0850
Location: 2	Method: trawl
Species: Graceful crab	
Specimen ID: LDW17-R2-GC009	
Length (mm): 94	Weight (g)

Modified Composite Sample Preparation Record - Unprocessed Crab

WG: 61796Date: 08 NOV 2017Chemist: CHContract: 4033Axys Sample ID: L28215-21Balance ID#: 3120

Sample ID	Client ID	Sample Description	Sample + Container (g)	Container (g)	Sample (g)
1 7	LDW17-R2-GC083	1x whole, intact shell red crab	156.24	25.46	130.78
2 7	LDW17-R2-GC016	1x whole, intact shell red crab	163.43	23.09	140.34
3 7	LDW17-R2-GC017	1x whole, intact shell red crab	139.03	54.46	84.57
4 7	LDW17-R2-GC085	1x whole, intact shell red crab	229.77	33.37	196.40
5 7	LDW17-R2-GC015	1x whole, intact shell red crab	172.77	38.69	134.08
6 7	LDW17-R2-GC094	1x whole intact shell red crab	195.75	32.78	162.97
7 7	LDW17-R2-GC001	1x whole intact shell red crab.	211.46	29.12	182.34

Reviewed by: JLGDate: 17 NOV 2017

Modified Composite Sample Preparation Record - Crab

WG: 61796

Date: 08 NOV 2017

Chemist: CM / W/G Contract: 4033

Axys Sample ID: L28215-21

Balance ID#: 3120

Portioning for Composite

Sample ID	Edible Crab meat (direct weight) (g)	Hepatopancreas (direct weight) (g)	Crab carcass (g)
1 7	33.70	7.87	80.37
2 7	32.05 32.05	6.61	82.18
3 7	17.63	1.56	55.23
4 7	35.83	14.14	133.83
5 7	33.87	8.46	69.54
6 7	30.87	8.78	111.80
7 7	57.82	6.03	79.27

Composite

Sample ID	Pre-Homogenization			Post Homogenization		
	Jar + Sample (g)	Jar (g)	Sample (g)	Jar + Sample (g)	Jar (g)	Sample (g)
	418.94	177.23	241.71	418.03	177.23	240.80

Subsamples

Subsamples	Portion weight (g)
SUBS 1	40.96
SUBS 2	85.64
SUBS 3	0
SUBS 4	4.68
SUBS 5	1.35
SUBS 6	106.90

Hepatopancreas jar weight: 175.83

sample + jar 229.28

sample = 53.45

Reviewed by: JLG

Date: 17 NOV 2017

Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler:
Collection date: 9.1.17	Collection time: 1348
Location: R2	Method: CT
Species: GC	
Specimen ID: LDW17-R2-GC083	
Length (mm): 95	Weight (g) 166

Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: MY
Collection date: 9.1.17	Collection time: 1358
Location: R2	Method: CT
Species: GC	
Specimen ID: LDW17-R2-GC085	
Length (mm): 106	Weight (g) 244

Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: KM
Collection date: 8/30/17	Collection time: 1147
Location: 2	Method: trawl
Species: Graceti crab	
Specimen ID: LDW17-R2-GC016	
Length (mm): 93	Weight (g) 163

Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: KM
Collection date: 8/30/17	Collection time: 1119
Location: 2	Method: trawl
Species: Graceti crab	
Specimen ID: LDW17-R2-GC015	
Length (mm): 104	Weight (g) 183

Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: KM
Collection date: 8/30/17	Collection time: 1147
Location: 2	Method: trawl
Species: Graceti crab	
Specimen ID: LDW17-R2-GC017	
Length (mm): 94	Weight (g) 137

Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: MY
Collection date: 9.1.17	Collection time: 1422
Location: R2	Method: CT
Species: GC	
Specimen ID: LDW17-R2-GC094	
Length (mm): 101	Weight (g) 210

Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: KM
Collection date: 8/29/17	Collection time: 1015
Location: 2	Method: trawl
Species: Graceti crab	
Specimen ID: LDW17-R2-GC001	
Length (mm): 107	Weight (g) 215

Tissue Sample Preparation Record

WG: WG61796

Date: 03 Nov 2017

Chemist: CA/WG1

Contract: 4033

Sample ID L28215-17 <i>CA/WG1</i>	Sample type <input type="checkbox"/> whole body <input type="checkbox"/> fillet <input checked="" type="checkbox"/> other <i>crab</i>	Discard excess tissue <input type="checkbox"/> yes <input checked="" type="checkbox"/> no Filletted/Dissected <input checked="" type="checkbox"/> yes <input type="checkbox"/> no	Grinder <input type="checkbox"/> GO4 <input type="checkbox"/> GO5 <input type="checkbox"/> GO6 <input type="checkbox"/> GO7 Blender <input type="checkbox"/> Virtis large bla <input type="checkbox"/> Virtis stator <input type="checkbox"/> Omni Mixer	Equipment used: <input type="checkbox"/> spatula <input checked="" type="checkbox"/> scissors <input checked="" type="checkbox"/> forceps <input type="checkbox"/> scalpel <input checked="" type="checkbox"/> spoon <input type="checkbox"/> shears <input type="checkbox"/> knife <input type="checkbox"/> stainless steel bowl <input type="checkbox"/> other
Protocol Followed	<input type="checkbox"/> TOC <input checked="" type="checkbox"/> PFOS	<input type="checkbox"/> Metals <input checked="" type="checkbox"/> routine organics		
Sample ID L28215-18 <i>CA/WG1</i>	Sample type <input type="checkbox"/> whole body <input type="checkbox"/> fillet <input checked="" type="checkbox"/> other <i>crab</i>	Discard excess tissue <input type="checkbox"/> yes <input checked="" type="checkbox"/> no Filletted/Dissected <input checked="" type="checkbox"/> yes <input type="checkbox"/> no	Grinder <input type="checkbox"/> GO4 <input type="checkbox"/> GO5 <input type="checkbox"/> GO6 <input type="checkbox"/> GO7 Blender <input type="checkbox"/> Virtis large bla <input type="checkbox"/> Virtis stator <input type="checkbox"/> Omni Mixer	Equipment used: <input type="checkbox"/> spatula <input checked="" type="checkbox"/> scissors <input checked="" type="checkbox"/> forceps <input type="checkbox"/> scalpel <input checked="" type="checkbox"/> spoon <input type="checkbox"/> shears <input type="checkbox"/> knife <input type="checkbox"/> stainless steel bowl <input type="checkbox"/> other
Protocol Followed	<input type="checkbox"/> TOC <input checked="" type="checkbox"/> PFOS	<input checked="" type="checkbox"/> Metals <input type="checkbox"/> routine organics		
Sample ID L28215-19 <i>CA/WG1</i>	Sample type <input type="checkbox"/> whole body <input type="checkbox"/> fillet <input checked="" type="checkbox"/> other <i>crab</i>	Discard excess tissue <input type="checkbox"/> yes <input checked="" type="checkbox"/> no Filletted/Dissected <input checked="" type="checkbox"/> yes <input type="checkbox"/> no	Grinder <input type="checkbox"/> GO4 <input type="checkbox"/> GO5 <input type="checkbox"/> GO6 <input type="checkbox"/> GO7 Blender <input type="checkbox"/> Virtis large bla <input type="checkbox"/> Virtis stator <input type="checkbox"/> Omni Mixer <i>17 NOV 2017</i>	Equipment used: <input type="checkbox"/> spatula <input checked="" type="checkbox"/> scissors <input checked="" type="checkbox"/> forceps <input type="checkbox"/> scalpel <input checked="" type="checkbox"/> spoon <input type="checkbox"/> shears <input type="checkbox"/> knife <input type="checkbox"/> stainless steel bowl <input type="checkbox"/> other
Protocol Followed	<input type="checkbox"/> TOC <input checked="" type="checkbox"/> PFOS	<input checked="" type="checkbox"/> Metals <input type="checkbox"/> routine organics		
Sample ID L28215-20 <i>CA/WG1</i>	Sample type <input type="checkbox"/> whole body <input type="checkbox"/> fillet <input checked="" type="checkbox"/> other <i>crab</i>	Discard excess tissue <input type="checkbox"/> yes <input checked="" type="checkbox"/> no Filletted/Dissected <input checked="" type="checkbox"/> yes <input type="checkbox"/> no	Grinder <i>JLG</i> <input type="checkbox"/> GO4 <input type="checkbox"/> GO5 <input type="checkbox"/> GO6 <input type="checkbox"/> GO7 Blender <input type="checkbox"/> Virtis large bla <input type="checkbox"/> Virtis stator <input type="checkbox"/> Omni Mixer	Equipment used: <input type="checkbox"/> spatula <input checked="" type="checkbox"/> scissors <input checked="" type="checkbox"/> forceps <input type="checkbox"/> scalpel <input checked="" type="checkbox"/> spoon <input type="checkbox"/> shears <input type="checkbox"/> knife <input type="checkbox"/> stainless steel bowl <input type="checkbox"/> other
Protocol Followed	<input type="checkbox"/> TOC <input checked="" type="checkbox"/> PFOS	<input checked="" type="checkbox"/> Metals <input type="checkbox"/> routine organics		
Sample ID L28215-21 <i>CA/WG1</i>	Sample type <input type="checkbox"/> whole body <input type="checkbox"/> fillet <input checked="" type="checkbox"/> other <i>crab</i>	Discard excess tissue <input type="checkbox"/> yes <input checked="" type="checkbox"/> no Filletted/Dissected <input checked="" type="checkbox"/> yes <input type="checkbox"/> no	Grinder <input type="checkbox"/> GO4 <input type="checkbox"/> GO5 <input type="checkbox"/> GO6 <input type="checkbox"/> GO7 Blender <input type="checkbox"/> Virtis large bla <input type="checkbox"/> Virtis stator <input type="checkbox"/> Omni Mixer	Equipment used: <input type="checkbox"/> spatula <input checked="" type="checkbox"/> scissors <input checked="" type="checkbox"/> forceps <input type="checkbox"/> scalpel <input checked="" type="checkbox"/> spoon <input type="checkbox"/> shears <input type="checkbox"/> knife <input type="checkbox"/> stainless steel bowl <input type="checkbox"/> other
Protocol Followed	<input type="checkbox"/> TOC <input checked="" type="checkbox"/> PFOS	<input checked="" type="checkbox"/> Metals <input type="checkbox"/> routine organics		
Sample ID <i>17 NOV 2017</i> <i>JLG</i>	Sample type <input type="checkbox"/> whole body <input type="checkbox"/> fillet <input type="checkbox"/> other	Discard excess tissue <input type="checkbox"/> yes <input type="checkbox"/> no Filletted/Dissected <input type="checkbox"/> yes <input type="checkbox"/> no	Grinder <input type="checkbox"/> GO4 <input type="checkbox"/> GO5 <input type="checkbox"/> GO6 <input type="checkbox"/> GO7 Blender <input type="checkbox"/> Virtis large bla <input type="checkbox"/> Virtis stator <input type="checkbox"/> Omni Mixer	Equipment used: <input type="checkbox"/> spatula <input type="checkbox"/> scissors <input type="checkbox"/> forceps <input type="checkbox"/> scalpel <input type="checkbox"/> spoon <input type="checkbox"/> shears <input type="checkbox"/> knife <input type="checkbox"/> stainless steel bowl <input type="checkbox"/> other
Protocol Followed	<input type="checkbox"/> TOC <input type="checkbox"/> PFOS	<input type="checkbox"/> Metals <input type="checkbox"/> routine organics		

Reviewed by: JLG

Date: 17 NOV 2017

Modified Composite Sample Preparation Record - Unprocessed Crab

WG: 61815Date: 06 NOV 2017Chemist: CHContract: 4033Axys Sample ID: L28215 - 22Balance ID#: 3120

Sample ID	Client ID	Sample Description	Sample + Container (g)	Container (g)	Sample (g)
1 / 7	LDW17-R2-GC020	1x whole, intact shell red crab	175.18	34.29	140.89
2 / 7	LDW17-R2-GC002	1x whole, intact shell red crab	210.80	23.42	187.40
3 / 7	LDW17-R2-GC019	1x whole, intact shell red crab	171.41	26.11	145.30
4 / 7	LDW17-R2-GC102	1x whole, intact shell red crab	163.42	21.12	142.30
5 / 7	LDW17-R2-GC096	1x whole, intact shell red crab	259.03	30.19	228.84
6 / 7	LDW17-R2-GC021	1x whole, intact shell red crab	124.92	39.29	85.63
7 / 7	LDW17-R2-GC012	1x whole, intact shell red crab	187.35	27.44	159.91

Reviewed by: JLGDate: 16 NOV 2017

AXYS Analytical Services Ltd.

Modified Composite Sample Preparation Record - Crab

WG: 61815Date: 06 Nov 2017Chemist: CH/ORA Contract: 4033Axys Sample ID: L28215-22Balance ID#: 3120

Portioning for Composite

Sample ID	Edible Crab meat (direct weight) (g)	Hepatopancreas (direct weight) (g)	Crab carcass (g)
1 / 7	24.19	4.30	98.98
2 / 7	33.48	13.61	120.62
3 / 7	21.88	8.95	96.25
4 / 7	20.31	10.79	99.52
5 / 7	34.88	16.60	153.14
6 / 7	10.35	0.78	65.38
7 / 7	28.71	7.69	109.10

Composite

Sample ID	Pre-Homogenization			Post Homogenization		
	Jar + Sample (g)	Jar (g)	Sample (g)	Jar + Sample (g)	Jar (g)	Sample (g)
L28215-22	350.64	177.14	173.50	350.00	177.14	172.86

Subsamples

Subsamples	Portion weight (g)
SUBS 1	40.19
SUBS 2	85.47
SUBS 3	
SUBS 4	4.45
SUBS 5	1.01
SUBS 6	40.86

Hepatopancreas jar weight: 176.24

Sample + jar = 238.94
 17 Nov 2017 ORA
 Sample = 62.870

06-Nov-2017
ORAReviewed by: JCGDate: 16 Nov 2017

Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: TD
Collection date: 8.30.17	Collection time: 1147
Location: R2	Method: trawl
Species: GC	
Specimen ID: LDW17- R2- GC020	
Length (mm): 100	Weight (g) 180

Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: MY
Collection date: 9.5.17	Collection time: 1439
Location: R2	Method: CT
Species: GC	
Specimen ID: LDW17- R2- GC102	
Length (mm): 95	Weight (g) 158

Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: NM
Collection date: 8/29/17	Collection time: 1258
Location: 2	Method: trawl
Species: Graceful crab	
Specimen ID: LDW17- R2- GC002	
Length (mm): 101	Weight (g) 205

Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: MY
Collection date: 9.5.17	Collection time: 1411
Location: R2	Method: CT
Species: GC	
Specimen ID: LDW17- R2- GC090	
Length (mm): 108	Weight (g)

Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: MY
Collection date: 8.30.17	Collection time: 1201
Location: R2	Method: Crab Trap
Species: GC	
Specimen ID: LDW17- R2- GC019	
Length (mm): 93	Weight (g) 170

Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: KM
Collection date: 8/30/17	Collection time: 1256
Location: 2	Method: trawl
Species: graceful crab	
Specimen ID: LDW17- R2- GC021	
Length (mm): 93	Weight (g) 139

Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: KM
Collection date: 8/30/17	Collection time: 1119
Location: 2	Method: trawl
Species: graceful crab	
Specimen ID: LDW17- R2- GC012	
Length (mm): 103	Weight (g) 187

Modified Composite Sample Preparation Record - Unprocessed Crab

WG: WG61815Date: 06 NOV 2017Chemist: CA Contract: 4033Axy Sample ID: L28215-23Balance ID#: 3120

Sample ID	Client ID	Sample Description	Sample + Container (g)	Container (g)	Sample (g)
1 7	LDW17-R2-GC097	1X whole red crab	201.66	23.03	178.63
2 7	LDW17-R2-GC025	1X whole red crab	160.45	25.30	135.15
3 7	LDW17-R2-GC099	1X whole red crab	168.70	39.15	129.55
4 7	LDW17-R2-GC013	1X whole red crab	157.99	28.95	129.04
5 7	LDW17-R2-GC081	1X whole red crab	155.25	22.53	132.72
6 7	LDW17-R2-GC089	1X whole red crab	214.45	25.53	188.92
7 7	LDW17-R2-GC101	1X whole red crab	173.34	27.94	145.40

Reviewed by: _____

Date: _____

Modified Composite Sample Preparation Record - Crab

WG: 61815

Date: 06 NOV 2017

Chemist: CA/DRA Contract: 4033

Axys Sample ID: L28215-23

Balance ID#: 3120

Portioning for Composite

Sample ID	Edible Crab meat (direct weight) (g)	Hepatopancreas (direct weight) (g)	Crab carcass (g)
1 / 7	18.94	18.88	123.49
2 / 7	26.85	3.64	89.94
3 / 7	27.06	3.20	79.54
4 / 7	20.77	7.40	91.56
5 / 7	23.88	7.31	91.51
6 / 7	40.09	13.85	121.71
7 / 7	27.45	8.55	102.17

Composite

Sample ID	Pre-Homogenization			Post Homogenization		
	Jar + Sample (g)	Jar (g)	Sample (g)	Jar + Sample (g)	Jar (g)	Sample (g)
L28215-23	361.77	176.81	184.96	361.07	176.81	184.26

Subsamples

Subsamples	Portion weight (g)
SUBS 1	40.80
SUBS 2	85.40
SUBS 3	
SUBS 4	4.54
SUBS 5	1.07
SUBS 6	50.86

Hepatopancreas jar weight: 175.48

sample + jar = 238.31

sample = 62.83

06-NOV-2017
DRA

Reviewed by: JUG.

Date: 16 NOV 2017

1

Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: <i>my</i>
Collection date: <i>9-5-17</i>	Collection time: <i>1411</i>
Location: <i>R2</i>	Method: <i>CT</i>
Species: <i>GC</i>	
Specimen ID: <i>LDW17-R2-GC097</i>	
Length (mm): <i>100</i>	Weight (g) <i>290</i>

2

Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: <i>KM</i>
Collection date: <i>8/30/17</i>	Collection time: <i>1119</i>
Location: <i>2</i>	Method: <i>trawl</i>
Species: <i>graceful crab</i>	
Specimen ID: <i>LDW17-R2-GC013</i>	
Length (mm): <i>93</i>	Weight (g) <i>159</i>

3

Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: <i>my</i>
Collection date: <i>8-30-17</i>	Collection time: <i>1432</i>
Location: <i>R2</i>	Method: <i>Crab Trap</i>
Species: <i>GC</i>	
Specimen ID: <i>LDW17-R2-GC025</i>	
Length (mm): <i>94</i>	Weight (g) <i>168</i>

4

Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: <i>my</i>
Collection date: <i>9.1.17</i>	Collection time: <i>1340</i>
Location: <i>R2</i>	Method: <i>CT</i>
Species: <i>GC</i>	
Specimen ID: <i>LDW17-R2-GC081</i>	
Length (mm): <i>93</i>	Weight (g) <i>170</i>

5

Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: <i>my</i>
Collection date: <i>9-5-17</i>	Collection time: <i>1426</i>
Location: <i>R2</i>	Method: <i>CT</i>
Species: <i>GC</i>	
Specimen ID: <i>LDW17-R2-GC099</i>	
Length (mm): <i>94</i>	Weight (g) <i>146</i>

6

Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: <i>KM</i>
Collection date: <i>9/1/17</i>	Collection time: <i>1305</i>
Location: <i>2</i>	Method: <i>trawl</i>
Species: <i>graceful crab</i>	
Specimen ID: <i>LDW17-R2-GC089</i>	
Length (mm): <i>97</i>	Weight (g) <i>178</i>

7

Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: <i>my</i>
Collection date: <i>9-5-17</i>	Collection time: <i>1433</i>
Location: <i>R2</i>	Method: <i>CT</i>
Species: <i>GC</i>	
Specimen ID: <i>LDW17-R2-GC101</i>	
Length (mm): <i>98</i>	Weight (g) <i>174</i>

Modified Composite Sample Preparation Record - Unprocessed Crab

WG: 61815Date: 06 NOV 2017Chemist: CA Contract: 4033Axs Sample ID: L28215-24Balance ID#: 3120

Sample ID	Client ID	Sample Description	Sample + Container (g)	Container (g)	Sample (g)
1 / 7	LDW17-R2 - GC095	1x whole, intact shell red crab	198.01	26.78	171.23
2 / 7	LDW17-R2 - GC082	1x whole, intact shell red crab 1 missing leg	184.34	37.95	146.39
3 / 7	LDW17-R2 - GC100	1x whole, intact shell red crab	185.67	26.37	159.30
4 / 7	LDW17-R2 - GC093	1x whole, intact shell red crab	203.62	43.53	160.09
5 / 7	LDW17-R2 - GC098	1x whole, intact shell red crab	164.12	23.79	140.33
6 / 7	LDW17-R2 - GC087	1x whole, intact shell red crab	178.48	27.77	150.71
7 / 7	LDW17-R2 - GC003	1x whole, intact shell red crab	155.49	19.80	135.69

Reviewed by: JLGDate: 17 NOV 2017

Modified Composite Sample Preparation Record - Crab

WG: 61815

Date: 06 Nov 2017

Chemist: CH/DRA

Contract: 4033

Axys Sample ID: L28215-24

Balance ID#: 3120

Portioning for Composite

Sample ID	Edible Crab meat (direct weight) (g)	Hepatopancreas (direct weight) (g)	Crab carcass (g)
1 / 7	35.12	13.37	111.62
2 / 7	22.17	13.36	97.67
3 / 7	26.61	15.23	103.42
4 / 7	29.82	9.16	94.92
5 / 7	26.73	14.33	90.04
6 / 7	28.04	11.83	100.33
7 / 7	28.35	7.79	90.30

Composite

Sample ID	Pre-Homogenization			Post Homogenization		
	Jar + Sample (g)	Jar (g)	Sample (g)	Jar + Sample (g)	Jar (g)	Sample (g)
L28215-24	372.84	176.04	196.80	371.98	176.04	195.94

Subsamples

Subsamples	Portion weight (g)
SUBS 1	40.28
SUBS 2	85.84
SUBS 3	
SUBS 4	4.48
SUBS 5	1.25
SUBS 6	63.20

Hepatopancreas jar weight: 176.01

Sample + jar = 261.04

Sample = 85.03 ~~85.00~~ 17 Nov 2017 CH

06-Nov-2017
DRA

Reviewed by: JLG

Date: 17 Nov 2017

1 Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: <i>MY</i>
Collection date: <i>9.5.17</i>	Collection time: <i>1204</i>
Location: <i>R2</i>	Method: <i>CT</i>
Species: <i>GC</i>	
Specimen ID: <i>LDW17-R2-GC095</i>	
Length (mm): <i>101</i>	Weight (g) <i>187</i>

4 Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: <i>MY</i>
Collection date: <i>9.1.17</i>	Collection time: <i>1419</i>
Location: <i>R2</i>	Method: <i>CT</i>
Species: <i>GC</i>	
Specimen ID: <i>LDW17-R2-GC093</i>	
Length (mm): <i>102</i>	Weight (g) <i>222</i>

2 Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: <i>MY</i>
Collection date: <i>9.1.17</i>	Collection time: <i>1340</i>
Location: <i>R2</i>	Method: <i>CT</i>
Species: <i>GC</i>	
Specimen ID: <i>LDW17-R2-GC082</i>	
Length (mm): <i>98</i>	Weight (g) <i>192</i>

5 Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: <i>MY</i>
Collection date: <i>9.5.17</i>	Collection time: <i>1426</i>
Location: <i>R2</i>	Method: <i>CT</i>
Species: <i>GC</i>	
Specimen ID: <i>LDW17-R2-GC098</i>	
Length (mm): <i>95</i>	Weight (g) <i>156</i>

3 Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: <i>MY</i>
Collection date: <i>9.5.17</i>	Collection time: <i>1433</i>
Location: <i>R2</i>	Method: <i>CT</i>
Species: <i>GC</i>	
Specimen ID: <i>LDW17-R2-GC000</i>	
Length (mm): <i>98</i>	Weight (g) <i>176</i>

6 Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: <i>KM</i>
Collection date: <i>9/1/17</i>	Collection time: <i>1305</i>
Location: <i>2</i>	Method: <i>trawl</i>
Species: <i>Graceful crab</i>	
Specimen ID: <i>LDW17-R2-GC087</i>	
Length (mm): <i>105</i>	Weight (g) <i>214</i>

7 Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: <i>KM</i>
Collection date: <i>8/29/17</i>	Collection time: <i>1318</i>
Location: <i>2</i>	Method: <i>trawl</i>
Species: <i>Graceful crab</i>	
Specimen ID: <i>LDW17-R2-GC003</i>	
Length (mm): <i>91</i>	Weight (g) <i>149</i>

SGS AXYS Analytical Services Ltd.

Tissue Sample Preparation Record

WG: WG61815

Date: 06 Nov 2017

Chemist: WGL/CL

Contract: 4633

Sample ID L28215-22 <i>OK</i>	Sample type <input type="checkbox"/> whole body <input type="checkbox"/> fillet <input checked="" type="checkbox"/> other <i>crabs</i>	Discard excess tissue <input type="checkbox"/> yes <input checked="" type="checkbox"/> no Filletted/Dissected <input type="checkbox"/> yes <input checked="" type="checkbox"/> no	Grinder <input type="checkbox"/> GO4 <input type="checkbox"/> GO5 <input type="checkbox"/> GO6 <input type="checkbox"/> GO7 Blender <input type="checkbox"/> Virtis large blade <input type="checkbox"/> Virtis stator <input type="checkbox"/> Omni Mixer	Equipment used: <input type="checkbox"/> spatula <input checked="" type="checkbox"/> scissors <input checked="" type="checkbox"/> forceps <input type="checkbox"/> scalpel <input checked="" type="checkbox"/> spoon <input type="checkbox"/> shears <input type="checkbox"/> knife <input type="checkbox"/> stainless steel bowl <input type="checkbox"/> other
Protocol Followed	<input type="checkbox"/> TOC <input checked="" type="checkbox"/> PFOS <input checked="" type="checkbox"/> Metals <input checked="" type="checkbox"/> routine organics			
Sample ID L28215-23 <i>OK</i>	Sample type <input type="checkbox"/> whole body <input type="checkbox"/> fillet <input checked="" type="checkbox"/> other <i>crab</i>	Discard excess tissue <input type="checkbox"/> yes <input checked="" type="checkbox"/> no Filletted/Dissected <input type="checkbox"/> yes <input checked="" type="checkbox"/> no	Grinder <input type="checkbox"/> GO4 <input type="checkbox"/> GO5 <input type="checkbox"/> GO6 <input type="checkbox"/> GO7 Blender <i>JLG</i> <input type="checkbox"/> Virtis large blade <input type="checkbox"/> Virtis stator <input type="checkbox"/> Omni Mixer <i>JLG</i>	Equipment used: <input type="checkbox"/> spatula <input checked="" type="checkbox"/> scissors <input checked="" type="checkbox"/> forceps <input type="checkbox"/> scalpel <input checked="" type="checkbox"/> spoon <input type="checkbox"/> shears <input type="checkbox"/> knife <input type="checkbox"/> stainless steel bowl <input type="checkbox"/> other
Protocol Followed	<input type="checkbox"/> TOC <input checked="" type="checkbox"/> PFOS <input checked="" type="checkbox"/> Metals <input checked="" type="checkbox"/> routine organics			
Sample ID L28215-24 <i>OK</i>	Sample type <input type="checkbox"/> whole body <input type="checkbox"/> fillet <input checked="" type="checkbox"/> other <i>crab</i>	Discard excess tissue <input type="checkbox"/> yes <input checked="" type="checkbox"/> no Filletted/Dissected <input type="checkbox"/> yes <input checked="" type="checkbox"/> no	Grinder <input type="checkbox"/> GO4 <input type="checkbox"/> GO5 <input type="checkbox"/> GO6 <input type="checkbox"/> GO7 Blender <input type="checkbox"/> Virtis large blade <input type="checkbox"/> Virtis stator <input checked="" type="checkbox"/> Omni Mixer	Equipment used: <input type="checkbox"/> spatula <input checked="" type="checkbox"/> scissors <input checked="" type="checkbox"/> forceps <input type="checkbox"/> scalpel <input checked="" type="checkbox"/> spoon <input type="checkbox"/> shears <input type="checkbox"/> knife <input type="checkbox"/> stainless steel bowl <input type="checkbox"/> other
Protocol Followed	<input type="checkbox"/> TOC <input checked="" type="checkbox"/> PFOS <input checked="" type="checkbox"/> Metals <input checked="" type="checkbox"/> routine organics			
Sample ID	Sample type <input type="checkbox"/> whole body <input type="checkbox"/> fillet <input type="checkbox"/> other	Discard excess tissue <input type="checkbox"/> yes <input type="checkbox"/> no Filletted/Dissected <input type="checkbox"/> yes <input type="checkbox"/> no	Grinder <input type="checkbox"/> GO4 <input type="checkbox"/> GO5 <input type="checkbox"/> GO6 <input type="checkbox"/> GO7 Blender <input type="checkbox"/> Virtis large blade <input type="checkbox"/> Virtis stator <input type="checkbox"/> Omni Mixer	Equipment used: <input type="checkbox"/> spatula <input type="checkbox"/> scissors <input type="checkbox"/> forceps <input type="checkbox"/> scalpel <input type="checkbox"/> spoon <input type="checkbox"/> shears <input type="checkbox"/> knife <input type="checkbox"/> stainless steel bowl <input type="checkbox"/> other
Protocol Followed	<input type="checkbox"/> TOC <input type="checkbox"/> PFOS <input type="checkbox"/> Metals <input type="checkbox"/> routine organics			
Sample ID	Sample type <input type="checkbox"/> whole body <input type="checkbox"/> fillet <input type="checkbox"/> other	Discard excess tissue <input type="checkbox"/> yes <input type="checkbox"/> no Filletted/Dissected <input type="checkbox"/> yes <input type="checkbox"/> no	Grinder <i>JLG</i> <input type="checkbox"/> GO4 <input type="checkbox"/> GO5 <input type="checkbox"/> GO6 <input type="checkbox"/> GO7 Blender <input type="checkbox"/> Virtis large blade <input type="checkbox"/> Virtis stator <input type="checkbox"/> Omni Mixer	Equipment used: <input type="checkbox"/> spatula <input type="checkbox"/> scissors <input type="checkbox"/> forceps <input type="checkbox"/> scalpel <input type="checkbox"/> spoon <input type="checkbox"/> shears <input type="checkbox"/> knife <input type="checkbox"/> stainless steel bowl <input type="checkbox"/> other
Protocol Followed	<input type="checkbox"/> TOC <input type="checkbox"/> PFOS <input type="checkbox"/> Metals <input type="checkbox"/> routine organics			
Sample ID	Sample type <input type="checkbox"/> whole body <input type="checkbox"/> fillet <input type="checkbox"/> other	Discard excess tissue <input type="checkbox"/> yes <input type="checkbox"/> no Filletted/Dissected <input type="checkbox"/> yes <input type="checkbox"/> no	Grinder <input type="checkbox"/> GO4 <input type="checkbox"/> GO5 <input type="checkbox"/> GO6 <input type="checkbox"/> GO7 Blender <input type="checkbox"/> Virtis large blade <input type="checkbox"/> Virtis stator <input type="checkbox"/> Omni Mixer	Equipment used: <input type="checkbox"/> spatula <input type="checkbox"/> scissors <input type="checkbox"/> forceps <input type="checkbox"/> scalpel <input type="checkbox"/> spoon <input type="checkbox"/> shears <input type="checkbox"/> knife <input type="checkbox"/> stainless steel bowl <input type="checkbox"/> other
Protocol Followed	<input type="checkbox"/> TOC <input type="checkbox"/> PFOS <input type="checkbox"/> Metals <input type="checkbox"/> routine organics			

Reviewed by: JLG

Date: 17 Nov 2017

Modified Composite Sample Preparation Record - Unprocessed Crab

WG: 61816Date: 08 NOV 2017Chemist: CHContract: 4033Axy Sample ID: L20215-25Balance ID#: 3120

Sample ID	Client ID	Sample Description	Sample + Container (g)	Container (g)	Sample (g)
1 / 3	LOW17-R2-DC001	1x orangey brown whole crab	844.11	62.13	781.98
2 / 3	LOW17-R2-DC006	1x orangey brown whole crab	736.97	70.71	664.26
3 / 3	LOW17-R2-DC002	1x orangey brown whole crab	289.16	42.23	246.93
		15-NOV-2017 JLG			

Reviewed by: JLGDate: 15-NOV-2017

Modified Composite Sample Preparation Record - Crab

WG: 61816

Date: 08 nov 2017

Chemist: CH/BC Contract: 4033

Axys Sample ID: L28215-25

Balance ID#: 3120

Portioning for Composite

Sample ID	Edible Crab meat (direct weight) (g)	Hepatopancreas (direct weight) (g)	Crab carcass (g)
1 / 3	253.33	32.32	430.91
2 / 3	152.95	88.85	352.81
3 / 3	47.08	47.65	135.14
15-NOV-2017 JLG			

Composite

Sample ID	Pre-Homogenization			Post Homogenization		
	Jar + Sample (g)	Jar (g)	Sample (g)	Jar + Sample (g)	Jar (g)	Sample (g)
	746.95	324.81	453.36	732.81	324.81	439.22

293.59

293.59

Subsamples

Subsamples	Portion weight (g)
SUBS 1	88.37
SUBS 2	
SUBS 3	15 NOV 2017 JLG
SUBS 4	
SUBS 5	2.46
SUBS 6	339.02

Hepatopancreas jar weight: 324.00

Sample + jar = 492.79

(ARCHIVE/BACK UP)

Reviewed by: JLG

Date: 15-NOV-2017

Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: MY
Collection date: 8-30-17	Collection time: 1417
Location: R2	Method: Crab Trap
Species: DC	
Specimen ID: LDW17-R2-DC001	
Length (mm): 184	Weight (g) 832

Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: MY
Collection date: 8-31-17	Collection time: 0842
Location: R2	Method: CT
Species: DC	
Specimen ID: LDW17-R2-DC006	
Length (mm): 178	Weight (g) 780

Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: MY
Collection date: 8-30-17	Collection time: 1424
Location: R2	Method: Crab Trap
Species: DC	
Specimen ID: LDW17-R2-DC002	
Length (mm): 125	Weight (g) 296

Modified Composite Sample Preparation Record - Unprocessed Crab

WG: 61816

Date: 08 NOV 2017

Chemist: CH

Contract: 4033

Axys Sample ID: L28215 -24

Balance ID#: 3120

Sample ID	Client ID	Sample Description	Sample + Container (g)	Container (g)	Sample (g)
1 / 3	LDW17-R2-DC004	1X Orangy brown whole crab	537.11	41.78	495.33
2 / 3	LDW17-R2-DC008	1X Orangy brown whole crab	639.80	49.16	590.64
3 / 3	LDW17-R2-DC009	1X Orangy brown whole crab	713.56	40.52	673.04
15-NOV-2017 JLG					

Reviewed by: CER

Date: 15 NOV 2017

Modified Composite Sample Preparation Record - Crab

WG: 61816

Date: 07 NOV 2017

Chemist: CA/BG Contract: 4033

Axys Sample ID: L28215-26

Balance ID#: 3120

Portioning for Composite

Sample ID	Edible Crab meat (direct weight) (g)	Hepatopancreas (direct weight) (g)	Crab carcass (g)
1 / 3	111.80	67.16	274.68
2 / 3	180.90	90.22	379.77
3 / 3	137.86	98.37	296.87
15 NOV 2017			

Composite

Sample ID	Pre-Homogenization			Post Homogenization		
	Jar + Sample (g)	Jar (g)	Sample (g)	Jar + Sample (g)	Jar (g)	Sample (g)
	708.63	278.07	430.56	699.09	278.07	421.02

Subsamples

Subsamples	Portion weight (g)
SUBS 1	48.68 78.57
SUBS 2	Ø
SUBS 3	Ø
SUBS 4	Ø
SUBS 5	1.51
SUBS 6	392.60

Hepatopancreas jar weight: 325.79

sample + jar = 581.26

sample = 255.47

Reviewed by: CER

Date: 15 NOV 2017

Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: <i>MY</i>
Collection date: <i>8.30.17</i>	Collection time: <i>1513</i>
Location: <i>R2</i>	Method: <i>Crab Trap</i>
Species: <i>DC</i>	
Specimen ID: <i>LDW17-R2-DC004</i>	
Length (mm): <i>156</i>	Weight (g): <i>538</i>

2 Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: <i>MY</i>
Collection date: <i>9.1.17</i>	Collection time: <i>1348</i>
Location: <i>R2</i>	Method: <i>CT</i>
Species: <i>DC</i>	
Specimen ID: <i>LDW17-R2-DC008</i>	
Length (mm): <i>174</i>	Weight (g): <i>654</i>

3 Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: <i>MY</i>
Collection date: <i>9.1.17</i>	Collection time: <i>1358</i>
Location: <i>R2</i>	Method: <i>CT</i>
Species: <i>DC</i>	
Specimen ID: <i>LDW17-R2-DC009</i>	
Length (mm): <i>175</i>	Weight (g): <i>728</i>

Modified Composite Sample Preparation Record - Unprocessed Crab

WG: 61810

Date: 08 NOV 2017

Chemist: CH Contract: 4033

Axys Sample ID: V28215 - 27

Balance ID#: 3120

Sample ID	Client ID	Sample Description	Sample + Container (g)	Container (g)	Sample (g)
1 / 3	L0W17-R2-DC007	1x orangy brown whole crab	561.55	34.80	526.75
2 / 3	L0W17-R2-DC003	1x orangy brown whole crab	584.10	69.58	514.52
3 / 3	L0W17-R2-DC005	1x orangy brown whole crab	862.21	58.19	804.02
15 NOV 2017 JLG					

Reviewed by: CER

Date: 15 NOV 2017

AXYS Analytical Services Ltd.

Modified Composite Sample Preparation Record - Crab

WG: 61814Date: 08 NOV 2017Chemist: CH/ BC Contract: 4033Axys Sample ID: L28215-27 Balance ID#: 3120

Portioning for Composite

Sample ID	Edible Crab meat (direct weight) (g)	Hepatopancreas (direct weight) (g)	Crab carcass (g)
1 / 3	100.17	58.99	321.15
2 / 3	101.21	53.07	346.35
3 / 3	221.82	53.58	440.16
		15 NOV 2017 JLG	

Composite

Sample ID	Pre-Homogenization			Post Homogenization		
	Jar + Sample (g)	Jar (g)	Sample (g)	Jar + Sample (g)	Jar (g)	Sample (g)
L28215-27	698.73	276.36	422.37	688.14	276.36	411.78

Subsamples

Subsamples	Portion weight (g)
SUBS 1	68.85
SUBS 2	n/a
SUBS 3	n/a
SUBS 4	n/a
SUBS 5	3.25
SUBS 6	330.38

Hepatopancreas jar weight: 323.81Sample + jar = 489.77Sample = 165.96

ARCHIVE / BACK UP

Reviewed by: CER.Date: 15 NOV 2017

Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: KM
Collection date: 9/1/17	Collection time: 1155
Location: 1	Method: trawl
Species: Dungeness crab	
Specimen ID: LDW17- R1- DC007	
Length (mm): 164	Weight (g) 580

Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: MY
Collection date: 8-30-17	Collection time: 1573
Location: R2	Method: Crab Trap
Species: DC	
Specimen ID: LDW17- R2- DC003	
Length (mm): 161	Weight (g) 594

Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: MY
Collection date: 8-31-17	Collection time: 0838
Location: R2	Method: CT
Species: DC	
Specimen ID: LDW17- R2- DC005	
Length (mm): 184	Weight (g) 893

Notes: Batch ID: WG61816 Method: MLAxxx

Date:	Analyst	Fraction	Notes:
08 NOV 2017	CH		<p>L26215 - 25, -26, -27 After removing/taking subs1 (AXYS) SUBS (ISDLAB) portion, remaining edible parts of the crop, we labelled it as ARCHIVE and on BACK UP.</p>
<p>15-NOV-2017</p>			

Reviewed by JLG date 15-NOV-2017

Modified Composite Sample Preparation Record - Unprocessed Whole fish

~~19 OCT 2017~~ 19 OCT 2017
 WG: ~~615123~~ 61523

Date: 19 OCT 2017

Chemist: CA/MG

Contract: 4033

Axs Sample ID: L28215-28

Balance ID#: 3120

Sample ID	Client ID	Sample Description	Sample + Container (g)	Container (g)	Sample (g)
1 / 1015	LDW17-RIA-SS213	1x small silver gray fish	15.60	2.53	13.13
2 / 1015	LDW17-RIA-SS199	1x small silver gray fish	12.60	2.69	9.91
3 / 1015	LDW17-RIA-SS189	1x small silver gray fish	23.91	2.87	21.04
4 / 1015	LDW17-RIA-SS193	1x small silver gray fish	17.13	2.26	14.87
5 / 1015	LDW17-RIA-SS222	1x small silver gray fish	17.62	2.06	15.56
6 / 1015	LDW17-RIA-SS238	1x small silver gray fish	17.12	2.11	15.01
7 / 1015	LDW17-RIA-SS207	1x small silver gray fish	17.15	2.53	14.62
8 / 1015	LDW17-RIA-SS197	1x small silver gray fish	21.81	2.26	19.55
9 / 1015	LDW17-RIA-SS192	1x small silver gray fish	20.02	2.40	17.62
10 / 1015	LDW17-RIA-SS206	1x small silver gray fish	16.50	2.14	14.36
11 / 1015	LDW17-RIA-SS220	1x small silver gray fish	17.23	2.99	14.24
12 / 1015	LDW17-RIA-SS202	1x small silver gray fish	27.88	2.60	25.28
13 / 1015	LDW17-RIA-SS236	1x small silver gray fish	23.49	2.09	21.40
14 / 1015	LDW17-RIA-SS230	1x small silver gray fish	12.94	2.35	10.59
15 / 1015	LDW17-RIA-SS198	1x small silver gray fish	21.05	3.01	18.04

Reviewed by: JLG

Date: 04-NOV-2017

Modified Composite Sample Preparation Record - Whole Body Homogenization

WG: 615.23 ^{190CT2017 CH} Date: 19 Oct 2017

Chemist: OH/DRA/161 Contract: 4033

Axys Sample ID: L28215-28 Balance ID#: 3120

Sample ID	Whole Body Pre-homogenization			Whole Body - Post Homogenization		
	Jar + Sample (g)	Jar (g)	Sample (g)	Jar + Sample (g)	Jar (g)	Sample (g)
1 / 10 15	102.06	88.95	13.11	101.94	88.95	12.99
2 / 10 15	98.64	88.74	9.90	98.55	88.74	9.81
3 / 10 15	109.85	88.92	20.93	109.73	88.92	20.81
4 / 10 15	103.67	88.84	14.83	103.57	88.84	14.73
5 / 10 15	104.46	88.98	15.48	104.36	88.98	15.38
6 / 10 15	104.06	89.09	14.97	103.96	89.09	14.87
7 / 10 15	103.48	88.97	14.51	103.37	88.97	14.40
8 / 10 15	108.29	88.80	19.49	108.08	88.80	19.28
9 / 10 15	106.44	88.82	17.62	106.34	88.82	17.52
10 / 10 15	102.38	89.06	14.32	103.27	89.06	14.21
11 / 10 15	103.14	89.05	14.09	103.07	89.05	14.02
12 / 10 15	114.40	89.20	25.20	114.25	89.20	25.05
13 / 10 15	110.50	89.10	21.40	110.33	89.10	21.23
14 / 10 15	99.48	89.04	10.44	99.40	89.04	10.36
15 / 10 15	107.25	89.12	18.13	107.00	89.12	17.88

POST-BATCH

Portion amount to be used for whole body composite: 9.13 g

Reviewed by: JLG

Date: 04-NOV-2017

Modified Composite Sample Preparation Record - Whole Body

WG: 61523Date: 19-Oct-2017Chemist: DPA/AGIContract: 4033Axys Sample ID: L28215-28Balance ID#: 3120

Portioning for Composite

Sample ID	Jar + Sample before subsample taken (g)	Jar + Sample after subsample taken (g)	Sample removed from container (g)	Direct Weight of portion (g)
1/15	101.94	92.60	9.34	9.18
2/15	98.55	89.25	9.30	9.13
3/15	109.73	100.40	9.33	9.16
4/15	103.37	94.16	9.41	9.16
5/15	104.36	95.05	9.31	9.26
6/15	103.96	94.62	9.34	9.11
7/15	103.37	94.00	9.37	9.08
8/15	108.08	98.76	9.32	9.14
9/15	106.34	97.04	9.30	9.15
10/15	103.27	93.97	9.30	9.16
11/15	103.07	93.87	9.20	9.15
12/15	114.25	104.92	9.33	9.17
13/15	110.33	100.91	9.42	9.19
14/15	99.40	90.02	9.38	9.12
15/15	107.00	97.64	9.36	9.14

Composite

Sample ID	Pre-Homogenization			Post Homogenization		
	Jar + Sample (g)	Jar (g)	Sample (g)	Jar + Sample (g)	Jar (g)	Sample (g)
L28215-28	313.48	176.22	137.26	313.04	176.22	136.82

Subsamples

Subsamples	Portion weight (g)
SUBS 1	40.01
SUBS 2	50.20
SUBS 3	10.13
SUBS 4	19.01 4.47
SUBS 5	31.89

Reviewed by: JLGDate: 04-Nov-2017

L28215

1 Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: NM
Collection date: 8/31/17	Collection time: 1326
Location: 1A	Method: trawl
Species: Shiner	
Specimen ID: LDW17-R1A-SS213	
Length (mm): 105	Weight (g) 12

2 Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: NM
Collection date: 8/31/17	Collection time: 1121
Location: 1A	Method: trawl
Species: Shiner	
Specimen ID: LDW17-R1A-SS199	
Length (mm): 94	Weight (g) 10

3 Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: NM
Collection date: 8/31/17	Collection time: 1042
Location: 1A	Method: trawl
Species: Shiner	
Specimen ID: LDW17-R1A-SS189	
Length (mm): 117	Weight (g) 24

4 Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: NM
Collection date: 8/31/17	Collection time: 1042
Location: 1A	Method: trawl
Species: Shiner	
Specimen ID: LDW17-R1A-SS193	
Length (mm): 106	Weight (g) 22

5 Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: NM
Collection date: 8/31/17	Collection time: 1347
Location: 1A	Method: trawl
Species: Shiner	
Specimen ID: LDW17-R1A-SS222	
Length (mm): 113	Weight (g) 18

6 Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: NM
Collection date: 8/31/17	Collection time: 1347
Location: 1A	Method: trawl
Species: Shiner	
Specimen ID: LDW17-R1A-SS238	
Length (mm): 109	Weight (g) 14

7 Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: NM
Collection date: 8/31/17	Collection time: 1121
Location: 1A	Method: trawl
Species: Shiner	
Specimen ID: LDW17-R1A-SS207	
Length (mm): 105	Weight (g) 14

8 Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: NM
Collection date: 8/31/17	Collection time: 1121
Location: 1A	Method: trawl
Species: Shiner	
Specimen ID: LDW17-R1A-SS197	
Length (mm): 112	Weight (g) 22

L28215

9 Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: NM
Collection date: 8/31/17	Collection time: 1042
Location: 1A	Method: trawl
Species: Shiner	
Specimen ID: LDW17-R1A-SS192	
Length (mm): 109	Weight (g) 16

10 Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: NM
Collection date: 8/31/17	Collection time: 1121
Location: 1A	Method: trawl
Species: Shiner	
Specimen ID: LDW17-R1A-SS206	
Length (mm): 104	Weight (g) 14

11 Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: NM
Collection date: 8/31/17	Collection time: 1347
Location: 1A	Method: trawl
Species: Shiner	
Specimen ID: LDW17-R1A-SS220	
Length (mm): 111	Weight (g) 16

12 Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: NM
Collection date: 8/31/17	Collection time: 1121
Location: 1A	Method: trawl
Species: Shiner	
Specimen ID: LDW17-R1A-SS202	
Length (mm): 120	Weight (g) 26

13 Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: NM
Collection date: 8/31/17	Collection time: 1347
Location: 1A	Method: trawl
Species: Shiner	
Specimen ID: LDW17-R1A-SS236	
Length (mm): 120	Weight (g) 22

14 Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: NM
Collection date: 8/31/17	Collection time: 1347
Location: 1A	Method: trawl
Species: Shiner	
Specimen ID: LDW17-R1A-SS230	
Length (mm): 96	Weight (g) 12

15 Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: NM
Collection date: 8/31/17	Collection time: 1121
Location: 1A	Method: trawl
Species: Shiner	
Specimen ID: LDW17-R1A-SS198	
Length (mm): 112	Weight (g) 20

Modified Composite Sample Preparation Record - Unprocessed Whole fish

WG: 61523Date: 19 OCT 2017Chemist: At/MG Contract: 4033Axys Sample ID: L28215-29Balance ID#: 3180

Sample ID	Client ID	Sample Description	Sample + Container (g)	Container (g)	Sample (g)
1 / 15	LDW17-RIA-SS229	1x small silver gray fish	15.90	1.64	14.26
2 / 15	LDW17-RIA-SS196	1x small silver gray fish	23.90	2.48	21.42
3 / 15	LDW17-RIA-SS208	1x small silver gray fish	31.10	3.09	28.01
4 / 15	LDW17-RIA-SS237	1x small silver gray fish	12.90	1.57	11.33
5 / 15	LDW17-RIA-SS195	1x small silver gray fish	27.04	2.62	24.42
6 / 15	LDW17-RIA-SS203	1x small silver gray fish	13.77	2.56	11.21
7 / 15	LDW17-RIA-SS232	1x small silver gray fish	10.21	1.63	8.58
8 / 15	LDW17-RIA-SS218	1x small silver gray fish	15.21	2.89	12.32
9 / 15	LDW17-RIA-SS234	1x small silver gray fish	16.00	1.72	14.28
10 / 15	LDW17-RIA-SS216	1x small silver gray fish	18.49	3.44	15.05
11 / 15	LDW17-RIA-SS233	1x small silver gray fish	19.70	2.07	17.63
12 / 15	LDW17-RIA-SS240	1x small silver gray fish	11.83	2.07	9.76
13 / 15	LDW17-RIA-SS214	1x small silver gray fish	18.03	2.41	15.62
14 / 15	LDW17-RIA-SS209	1x small silver gray fish	11.57	2.36	9.21
15 / 15	LDW17-RIA-SS185	1x small silver gray fish	13.39	1.80	11.59

Reviewed by: JLGDate: 04 NOV 2017

Modified Composite Sample Preparation Record - Whole Body Homogenization

WG: 61523Date: 19 Oct 2017Chemist: CA/HGContract: 4033Axys Sample ID: 628215-29 Balance ID#: 3180

Sample ID	Whole Body Pre-homogenization			Whole Body - Post Homogenization		
	Jar + Sample (g)	Jar (g)	Sample (g)	Jar + Sample (g)	Jar (g)	Sample (g)
1 / 15	103.22	89.00	14.22	103.15	89.00	14.15
2 / 15	110.82	89.47	21.35	110.70	89.47	21.23
3 / 15	117.00	89.06	27.94	116.82	89.06	27.76
4 / 15	100.64	89.35	11.29	100.53	89.35	11.18
5 / 15	113.86	89.49	24.37	113.71	89.49	24.22
6 / 15	100.41	89.23	11.18	100.31	89.23	11.08
7 / 15	96.89	88.38	8.51	96.83	88.38	8.45
8 / 15	101.12	88.86	12.26	101.02	88.86	12.16
9 / 15	103.14	88.92	14.22	103.03	88.92	14.11
10 / 15	103.67	88.88	14.79	103.76	88.88	14.88
11 / 15	106.60	89.00	17.60	106.43	89.00	17.43
12 / 15	98.63	88.93	9.70	98.57	88.93	9.64
13 / 15	104.39	88.78	15.61	104.23	88.78	15.48
14 / 15	98.06	88.71	9.35	97.96	88.89	9.07
15 / 15	100.29	88.71	11.58	100.18	88.71	11.47

Portion amount to be used for whole body composite: 8.45 gReviewed by: JLGDate: 04-NOV-2017

Modified Composite Sample Preparation Record - Whole Body

WG: 61523Date: 19 OCT 2017Chemist: W/EL/SRM/008 Contract: 4033Axys Sample ID: L28215-29Balance ID#: 3120/3180

Portioning for Composite

Sample ID	Jar + Sample before subsample taken (g)	Jar + Sample after subsample taken (g)	Sample removed from container (g)	Direct Weight of portion (g)
1/15	103.15	94.97	8.28	8.16
2/15	110.70	102.40	8.30	8.19
3/15	116.82	108.49	8.33	8.13
4/15	100.53	92.19	8.34	8.13
5/15	113.71	105.45	8.26	8.12
6/15	100.31	92.01	8.30	8.14
7/15	96.83	88.62	8.21	8.10
8/15	101.02	92.74	8.28	8.12
9/15	103.10	94.77	8.33	8.12
10/15	103.82	95.43	8.39	8.17
11/15	106.49	98.13	8.36	8.16
12/15	98.55	90.25	8.30	8.16
13/15	104.23	95.93	8.30	8.13
14/15	97.96	89.72	8.24	8.12
15/15	100.18	91.89	8.29	8.10

Composite

Sample ID	Pre-Homogenization			Post Homogenization		
	Jar + Sample (g)	Jar (g)	Sample (g)	Jar + Sample (g)	Jar (g)	Sample (g)
L28215-29	298.43	176.40	122.03	298.10	176.40	121.70

Subsamples

Subsamples	Portion weight (g)
SUBS 1	40.37
SUBS 2	50.47
SUBS 3	N/A
SUBS 4	4.22
SUBS 5	26.50

Reviewed by: JLGDate: 04 NOV 2017

Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: KM
Collection date: 8/31/17	Collection time: 1347
Location: 1A	Method: trawl
Species: shiner	
Specimen ID: LDW17- R1A-SS229	
Length (mm): 112	Weight (g) 14

Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: NM
Collection date: 8/31/17	Collection time: 1121
Location: 1A	Method: trawl
Species: Shiner	
Specimen ID: LDW17- R1A-SS196	
Length (mm): 9120	Weight (g) 18

Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: NM
Collection date: 8/31/17	Collection time: 1251
Location: 1A	Method: trawl
Species: Shiner	
Specimen ID: LDW17- R1A-SS208	
Length (mm): 130	Weight (g) 28

Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: KM
Collection date: 8/31/17	Collection time: 1347
Location: 1A	Method: trawl
Species: shiner	
Specimen ID: LDW17- R1A-SS237	
Length (mm): 95	Weight (g) 10

Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: NM
Collection date: 8/31/17	Collection time: 1121
Location: 1A	Method: trawl
Species: Shiner	
Specimen ID: LDW17- R1A-SS195	
Length (mm): 110	Weight (g) 30

Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: NM
Collection date: 8/31/17	Collection time: 1121
Location: 1A	Method: trawl
Species: Shiner	
Specimen ID: LDW17- R1A-SS203	
Length (mm): 98	Weight (g) 10

Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: KM
Collection date: 8/31/17	Collection time: 1347
Location: 1A	Method: trawl
Species: shiner	
Specimen ID: LDW17- R1A-SS232	
Length (mm): 94	Weight (g) 8

Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: NM
Collection date: 8/31/17	Collection time: 1347
Location: 1A	Method: trawl
Species: Shiner	
Specimen ID: LDW17- R1A-SS218	
Length (mm): 103	Weight (g) 14

Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: KM
Collection date: 8/31/17	Collection time: 1347
Location: 1A	Method: trawl
Species: shiner	
Specimen ID: LDW17-R1A-SS234	
Length (mm): 100	Weight (g) 16

Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: NM
Collection date: 8/31/17	Collection time: 1347
Location: 1A	Method: trawl
Species: shiner	
Specimen ID: LDW17-R1A-SS216	
Length (mm): 111 111	Weight (g) 20

Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: KM
Collection date: 8/31/17	Collection time: 1347
Location: 1A	Method: trawl
Species: shiner	
Specimen ID: LDW17-R1A-SS233	
Length (mm): 111	Weight (g) 20

Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: KM
Collection date: 8/31/17	Collection time: 1347
Location: 1A	Method: trawl
Species: shiner	
Specimen ID: LDW17-R1A-SS240	
Length (mm): 92	Weight (g) 12

Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: NM
Collection date: 8/31/17	Collection time: 1347
Location: 1A	Method: trawl
Species: shiner	
Specimen ID: LDW17-R1A-SS214	
Length (mm): 110	Weight (g) 8

Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: NM
Collection date: 8/31/17	Collection time: 1251
Location: 1A	Method: trawl
Species: shiner	
Specimen ID: LDW17-R1A-SS209	
Length (mm): 93	Weight (g) 8

Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: NM
Collection date: 8/31/17	Collection time: 1042
Location: 1A	Method: trawl
Species: shiner	
Specimen ID: LDW17-R1A-SS185	
Length (mm): 99	Weight (g) 4

Modified Composite Sample Preparation Record - Unprocessed Whole fish

WG: 61523Date: 20-oct-2017Chemist: CH/DRAContract: 4033Axys Sample ID: L28215-30Balance ID#: 3120

Sample ID	Client ID	Sample Description	Sample + Container (g)	Container (g)	Sample (g)
1 / 15	LDW17-RIA-55235	1x small silver fish	15.69	1.76	13.93
2 / 15	LDW17-RIA-55191	1x small silver fish	15.30	1.99	13.31
3 / 15	LDW17-RIA-55217	1x small silver fish	17.18	2.64	14.54
4 / 15	LDW17-RIA-55182	1x small silver fish	19.66	2.36	17.30
5 / 15	LDW17-RIA-55225	1x small silver fish	16.57	1.76	14.81
6 / 15	LDW17-RIA-55224	1x small silver fish	19.52	2.24	17.28
7 / 15	LDW17-RIA-55212	1x small silver fish	12.79	2.34	10.45
8 / 15	LDW17-RIA-55184	1x small silver fish	15.07	2.11	12.96
9 / 15	LDW17-RIA-55228	1x small silver fish	23.23	2.16	21.07
10 / 15	LDW17-RIA-55215	1x small silver fish	19.17	3.00	16.17
11 / 15	LDW17-RIA-55211	1x small silver fish	17.97	2.74	15.23
12 / 15	LDW17-RIA-55219	1x small silver fish	13.92	2.56	11.36
13 / 15	LDW17-RIA-55194	1x small silver fish	14.02	2.78	11.24
14 / 15	LDW17-RIA-55210	1x small silver fish	12.51	2.40	10.11
15 / 15	LDW17-RIA- 55211 55186	1x small silver fish	14.57	1.91	12.66

Reviewed by: JCGDate: 04-NOV-2017

AXYS Analytical Services Ltd.

Modified Composite Sample Preparation Record - Whole Body Homogenization

WG: 61523Date: 20-Oct-2017Chemist: CH/ORAContract: 4033Axys Sample ID: L28215-30 Balance ID#: 3120

Sample ID	Whole Body Pre-homogenization			Whole Body - Post Homogenization		
	Jar + Sample (g)	Jar (g)	Sample (g)	Jar + Sample (g)	Jar (g)	Sample (g)
20-Oct-2017 ORA 1 / 15	103.20	89.29	13.91	103.11	89.29	13.82
2 / 15	102.49	89.20	13.29	102.38	89.20	13.18
3 / 15	103.74	89.23	14.51	103.63	89.23	14.40
4 / 15	106.38	89.09	17.29	106.25	89.09	17.16
5 / 15	104.20	89.43	14.77	104.11	89.43	14.68
6 / 15	106.59	89.37	17.22	106.44	89.37	17.07
7 / 15	100.02	89.58	10.44	99.95	89.58	10.37
8 / 15	102.11	89.17	12.94	102.02	89.17	12.85
9 / 15	110.32	89.31	21.01	110.20	89.31	20.89
10 / 15	105.50	89.36	16.14	105.36	89.36	16.00
11 / 15	103.89	89.19	14.70	103.79	89.19	14.60
12 / 15	100.58	89.23	11.35	100.38	89.23	11.15
13 / 15	100.39	89.23	11.16	100.23	89.23	11.00
14 / 15	99.29	89.21	10.08	99.28	89.21	10.07
15 / 15	101.76	89.13	12.63	101.63	89.13	12.50

Portion amount to be used for whole body composite: 9.95 gReviewed by: JLGDate: 04-NOV-2017

Modified Composite Sample Preparation Record - Whole Body

WG: 65523

Date: 20-0ct-2017

Chemist: ORA/CA

Contract: 4033

Axys Sample ID: L28215-30

Balance ID#: 3120

Portioning for Composite

Sample ID	Jar + Sample before subsample taken (g)	Jar + Sample after subsample taken (g)	Sample removed from container (g)	Direct Weight of portion (g)
1 / 15	103.11	92.90	10.21	9.95
2 / 15	102.38	92.29	10.09	9.95
3 / 15	103.63	93.49	10.14	9.95
4 / 15	106.25	96.19	10.06	9.95
5 / 15	104.11	94.06 ^{ORA} 94.06	10.05	9.95
6 / 15	106.44	96.37	10.07	9.95
7 / 15	99.95	89.71	10.24	9.95
8 / 15	102.02	91.94	10.08	9.95
9 / 15	110.20	100.13	10.07	9.95
10 / 15	105.36	95.31	10.05	9.95
11 / 15	103.79	93.68	10.11	9.95
12 / 15	100.38	90.34	10.04	9.95
13 / 15	100.23	90.21	10.02	9.95
14 / 15	99.28	89.24	10.04	9.95
15 / 15	101.63	91.16 ^{ORA} 91.60	10.03	9.95

20-0ct-2017

Composite

Sample ID	Pre-Homogenization			Post Homogenization		
	Jar + Sample (g)	Jar (g)	Sample (g)	Jar + Sample (g)	Jar (g)	Sample (g)
L28215-30	315.77	166.64	149.13	315.55	166.64	148.91

Subsamples

Subsamples	Portion weight (g)
SUBS 1	40.59
SUBS 2	50.09
SUBS 3	
SUBS 4	4.16
SUBS 5	53.95

20-0ct-2017
ORA

Reviewed by: JG

Date: 04-NOV-2017

1 Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: KM
Collection date: 8/31/17	Collection time: 1347
Location: 1A	Method: trawl
Species: shiner	
Specimen ID: LDW17-R1A-SS235	
Length (mm): 105	Weight (g) 12

2 Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: NM
Collection date: 8/31/17	Collection time: 1042
Location: 1A	Method: trawl
Species: SHINER	
Specimen ID: LDW17-R1A-SS191	
Length (mm): 102	Weight (g) 16

3 Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: NM
Collection date: 8/31/17	Collection time: 1347
Location: 1A	Method: trawl
Species: SHINER	
Specimen ID: LDW17-R1A-SS217	
Length (mm): 110	Weight (g) 14

4 Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: NM
Collection date: 8/31/17	Collection time: 1042
Location: 1A	Method: trawl
Species: SHINER	
Specimen ID: LDW17-R1A-SS182	
Length (mm): 116	Weight (g) 16

5 Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: KM
Collection date: 8/31/17	Collection time: 1347
Location: 1A	Method: trawl
Species: SHINER	
Specimen ID: LDW17-R1A-SS225	
Length (mm): 107	Weight (g) 16

6 Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: KM
Collection date: 8/31/17	Collection time: 1347
Location: 1A	Method: trawl
Species: shiner	
Specimen ID: LDW17-R1A-SS224	
Length (mm): 115	Weight (g) 20

7 Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: NM
Collection date: 8/31/17	Collection time: 1326
Location: 1A	Method: trawl
Species: SHINER	
Specimen ID: LDW17-R1A-SS212	
Length (mm): 99	Weight (g) 10

8 Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: NM
Collection date: 8/31/17	Collection time: 1042
Location: 1A	Method: trawl
Species: SHINER	
Specimen ID: LDW17-R1A-SS184	
Length (mm): 103	Weight (g) 16

9

Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: KM
Collection date: 8/21/17	Collection time: 1347
Location: 1A	Method: trawl
Species: Shiner	
Specimen ID: LDW17-R1A-SS228	
Length (mm): 120	Weight (g) 22

10

Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: NM
Collection date: 8/31/17	Collection time: 1347
Location: 1A	Method: trawl
Species: SHINER	
Specimen ID: LDW17-R1A-SS215	
Length (mm): 107	Weight (g) 20

11

Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: NM
Collection date: 8/31/17	Collection time: 1326
Location: 1A	Method: trawl
Species: Shiner	
Specimen ID: LDW17-R1A-SS211	
Length (mm): 105	Weight (g) 12

14

Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: NM
Collection date: 8/31/17	Collection time: 1347
Location: 1A	Method: trawl
Species: SHINER	
Specimen ID: LDW17-R1A-SS219	
Length (mm): 97	Weight (g) 12

13

Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: NM
Collection date: 8/31/17	Collection time: 1042
Location: 1A	Method: trawl
Species: Shiner	
Specimen ID: LDW17-R1A-SS194	
Length (mm): 99	Weight (g) 14

14

Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: NM
Collection date: 8/31/17	Collection time: 1326
Location: 1A	Method: trawl
Species: SHINER	
Specimen ID: LDW17-R1A-SS210	
Length (mm): 96	Weight (g) 8

15

Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: NM
Collection date: 8/31/17	Collection time: 1042
Location: 1A	Method: trawl
Species: SHINER	
Specimen ID: LDW17-R1A-SS186	
Length (mm): 100	Weight (g) 16

Modified Composite Sample Preparation Record - Unprocessed Whole fish

WG: 61523Date: 20-oct-2017Chemist: ORA/W/S-1 Contract: 4033Axy Sample ID: L28215-31Balance ID#: 3120

Sample ID	Client ID	Sample Description	Sample + Container (g)	Container (g)	Sample (g)
1/15	LDW17-RIB-SS164	1x small silver fish	23.48	1.98	21.50
2/15	LDW17-RIB-SS161	1x small silver fish	23.91	2.25	21.66
3/15	LDW17-RIB-SS125	1x small silver fish	31.47	4.05	27.42
4/15	LDW17-RIB-SS132	1x small silver fish	17.10	2.54	14.56
5/15	LDW17-RIB-SS124	1x small silver fish	20.42	4.71	15.71
6/15	LDW17-RIB-SS138	1x small silver fish	17.15	2.66	14.49
7/15	LDW17-RIB-SS145	1x small silver fish	15.46	2.90	12.56
8/15	LDW17-RIB-SS171	1x small silver fish	28.97	2.69	26.28
9/15	LDW17-RIB-SS121	1x small silver fish	22.44	2.94	19.50
10/15	LDW17-RIB-SS137	1x small silver fish	16.88	2.64	14.24
11/15	LDW17-RIB-SS179	1x small silver fish	19.04	2.68	16.36
12/15	LDW17-RIB-SS178	1x small silver fish	23.81	2.63	21.18
13/15	LDW17-RIB-SS153	1x small silver fish	12.77	1.48	11.29
14/15	LDW17-RIB-SS168	1x small silver fish	16.31	3.22	13.09
15/15	LDW17-RIB-SS150	1x small silver fish	12.85	2.23	10.62

Reviewed by: JLGDate: 04-NOV-2017

AXYS Analytical Services Ltd.

Modified Composite Sample Preparation Record - Whole Body Homogenization

WG: 61523Date: 20-04-2017Chemist: DRA/VSAContract: 4033Axys Sample ID: L28215-31Balance ID#: 3120

Sample ID	Whole Body Pre-homogenization			Whole Body - Post Homogenization		
	Jar + Sample (g)	Jar (g)	Sample (g)	Jar + Sample (g)	Jar (g)	Sample (g)
1/15	110.77	89.33	21.44	110.60	89.33	21.27
2/15	110.77	89.16	21.61	110.64	89.16	21.48
3/15	116.65	89.40	27.25	116.39	89.40	26.99
4/15	103.68	89.20	14.48	103.59	89.20	14.39
5/15	104.88	89.20	15.68	104.78	89.20	15.58
6/15	103.79	89.39	14.40	103.70	89.39	14.31
7/15	101.44	88.94	12.50	101.32	88.94	12.38
8/15	115.40	89.16	26.24	115.23	89.16	26.07
9/15	108.85	89.42	19.43	108.73	89.42	19.31
10/15	103.38	89.23	14.15	103.29	89.23	14.06
11/15	105.63	89.36	16.27	105.52	89.36	16.16
12/15	110.54	89.50	21.04	110.39	89.50	20.89
13/15	100.34	89.10	11.24	100.27	89.10	11.17
14/15	102.11	89.12	12.99	102.04	89.12	12.92
15/15	99.82	89.30	10.52	99.82	89.30	10.52

Portion amount to be used for whole body composite: 10.39 gReviewed by: JLGDate: 04-NOV-2017

AXYS Analytical Services Ltd.

Modified Composite Sample Preparation Record - Whole Body

WG: 61523Date: 20-0ct-2017Chemist: ORA/MGIContract: 4033Axys Sample ID: L28215-31Balance ID#: 3120

Portioning for Composite

Sample ID	Jar + Sample before subsample taken (g)	Jar + Sample after subsample taken (g)	Sample removed from container (g)	Direct Weight of portion (g)
1/15	110.60	100.00	10.60	10.39
2/15	110.64	100.24	10.40	10.39
3/15	116.39	105.92	10.47	10.39
4/15	103.59	93.10	10.49	10.39
5/15	104.78	94.34	10.44	10.39
6/15	103.70	93.19	10.51	10.39
7/15	101.32	90.74	10.58	10.39
8/15	115.23	104.84	10.39	10.39
9/15	108.73	98.24	10.49	10.39
10/15	103.29	92.81	10.48	10.39
11/15	105.52	95.10	10.42	10.39
12/15	110.39	99.97	10.42	10.39
13/15	100.27	89.81	10.46	10.39
14/15	102.04	91.60	10.44	10.39
15/15	99.86 99.82	89.34	10.48	10.39

Composite

Sample ID	Pre-Homogenization			Post Homogenization		
	Jar + Sample (g)	Jar (g)	Sample (g)	Jar + Sample (g)	Jar (g)	Sample (g)
L28215-31	323.48	167.65	155.83	323.32	167.65	155.67

Subsamples

Subsamples	Portion weight (g)
SUBS 1	40.94
SUBS 2	50.00
SUBS 3	
SUBS 4	4.68
SUBS 5	59.04

20-0ct-2017
ORAReviewed by: JLGDate: 04 NOV-2017

1 Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: <i>KM</i>
Collection date: <i>8/31/17</i>	Collection time: <i>1017</i>
Location: <i>1B</i>	Method: <i>trawl</i>
Species: <i>shiner</i>	
Specimen ID: LDW17- <i>R1B-SS142</i> ^{<i>KM</i>} <i>SS164</i>	
Length (mm): <i>118</i>	Weight (g) <i>22</i>

2 Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: <i>NM</i>
Collection date: <i>8/30/17</i>	Collection time: <i>0949</i>
Location: <i>1B</i>	Method: <i>trawl</i>
Species: <i>SHINER</i>	
Specimen ID: LDW17- <i>R1B-SS161</i>	
Length (mm): <i>118</i>	Weight (g) <i>24</i>

3 Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: <i>KM</i>
Collection date: <i>8/30/17</i>	Collection time: <i>1400</i>
Location: <i>1B</i>	Method: <i>trawl</i>
Species: <i>shiner</i>	
Specimen ID: LDW17- <i>R1B-SS125</i>	
Length (mm): <i>135</i>	Weight (g) <i>32</i>

4 Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: <i>KM</i>
Collection date: <i>8/30/17</i>	Collection time: <i>1400</i>
Location: <i>1B</i>	Method: <i>trawl</i>
Species: <i>shiner</i>	
Specimen ID: LDW17- <i>R1B-SS132</i>	
Length (mm): <i>107</i>	Weight (g) <i>18</i>

5 Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: <i>KM</i>
Collection date: <i>8/30/17</i>	Collection time: <i>1400</i>
Location: <i>1B</i>	Method: <i>trawl</i>
Species: <i>shiner</i>	
Specimen ID: LDW17- <i>R1B-SS124</i>	
Length (mm): <i>113</i>	Weight (g) <i>20</i>

6 Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: <i>NM</i>
Collection date: <i>8/31/17</i>	Collection time: <i>0845</i>
Location: <i>1B</i>	Method: <i>trawl</i>
Species: <i>SHINER</i>	
Specimen ID: LDW17- <i>R1B-SS138</i>	
Length (mm): <i>100</i>	Weight (g) <i>16</i>

7 Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: <i>NM</i>
Collection date: <i>8/31/17</i>	Collection time: <i>0845</i>
Location: <i>1B</i>	Method: <i>trawl</i>
Species: <i>SHINER</i>	
Specimen ID: LDW17- <i>R1B-SS145</i>	
Length (mm): <i>104</i>	Weight (g) <i>16</i>

8 Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: <i>KM</i>
Collection date: <i>8/31/17</i>	Collection time: <i>1017</i>
Location: <i>1B</i>	Method: <i>trawl</i>
Species: <i>SHINER</i>	
Specimen ID: LDW17- <i>R1B-SS144</i> <i>SS171</i>	
Length (mm): <i>127</i>	Weight (g) <i>34</i>

9

Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: NM
Collection date: 8/30/17	Collection time: 1400
Location: 1B	Method: trawl
Species: Shiner	
Specimen ID: LDW17- R1B-SS121	
Length (mm): 121	Weight (g) 24

10

Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: NM
Collection date: 8/31/17	Collection time: 0845
Location: 1B	Method: trawl
Species: Shiner	
Specimen ID: LDW17- R1B-SS137	
Length (mm): 114	Weight (g) 14

11

Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: km
Collection date: 8/31/17	Collection time: 1017
Location: 1B	Method: trawl
Species: shiner	
Specimen ID: LDW17- R1B-SS179	
Length (mm): 109	Weight (g) 18

12

Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: km
Collection date: 8/31/17	Collection time: 1017
Location: 1B	Method: trawl
Species: shiner	
Specimen ID: LDW17- R1B-SS178	
Length (mm): 121	Weight (g) 24

13

Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: NM
Collection date: 8/30/17	Collection time: 0949
Location: 1B	Method: trawl
Species: Shiner	
Specimen ID: LDW17- R1B-SS153	
Length (mm): 98	Weight (g) 12

14

Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: km
Collection date: 8/31/17	Collection time: 1017
Location: 1B	Method: trawl
Species: shiner	
Specimen ID: LDW17- R1B-SS146 ^{km} SS168	
Length (mm): 104	Weight (g) 16

15

Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: NM
Collection date: 8/31/17	Collection time: 0845
Location: 1B	Method: trawl
Species: Shiner	
Specimen ID: LDW17- R1B-SS150	
Length (mm): 96	Weight (g) 12

Modified Composite Sample Preparation Record - Unprocessed Whole fish

WG: 61523Date: 23-Oct-2017Chemist: DRA/CAContract: 4033Axys Sample ID: 628215-32Balance ID#: 3120

Sample ID	Client ID	Sample Description	Sample + Container (g)	Container (g)	Sample (g)
1/15	LDW17-RIB-SS169	1x small silver fish	17.42	2.96	14.46
2/15	LDW17-RIB-SS173	1x small silver fish	17.04	3.41	13.63
3/15	LDW17-RIB-SS133	1x small silver fish	10.45	2.16	8.29
4/15	LDW17-RIB-SS157	1x small silver fish	29.30	2.15	27.15
5/15	LDW17-RIB-SS146	1x small silver fish	15.26	3.54	11.72
6/15	LDW17-RIB-SS144	1x small silver fish	15.48	2.24	13.24
7/15	LDW17-RIB-SS163	1x small silver fish	16.54	2.84	13.70
8/15	LDW17-RIB-SS165	1x small silver fish	12.49	1.71	10.78
9/15	LDW17-RIB-SS136	1x small silver fish	15.11	2.86	12.25
10/15	LDW17-RIB-SS151	1x small silver fish	20.93	3.38	17.55
11/15	LDW17-RIB-SS135	1x small silver fish	18.25	2.47	15.78
12/15	LDW17-RIB-SS177	1x small silver fish	12.87	2.57	10.30
13/15	LDW17-RIB-SS148	1x small silver fish	23-Jul-2017 WCA 20 21.49	4.48	17.01
14/15	LDW17-RIB-SS130	1x small silver fish	11.36	1.86	9.50
15/15	LDW17-RIB-SS175	1x small silver fish	17.64	3.49	14.15

Reviewed by: JCGDate: 04-NOV-2017

Modified Composite Sample Preparation Record - Whole Body Homogenization

WG: 61523Date: 23-Oct-2017Chemist: DRA/OKContract: 4033Axys Sample ID: L28215-32 Balance ID#: 3120

Sample ID	Whole Body Pre-homogenization			Whole Body - Post Homogenization		
	Jar + Sample (g)	Jar (g)	Sample (g)	Jar + Sample (g)	Jar (g)	Sample (g)
1/15	103.66	89.21	14.45	103.38	89.21	14.37
2/15	102.76	89.21	13.55	102.66	89.21	13.45
3/15	97.52	89.26	8.26	97.44	89.26	8.18
4/15	115.74	88.63	27.11	115.54	88.63	26.96
5/15	101.26	89.56	11.70	101.17	89.56	11.61
6/15	102.74	89.57	13.22	102.67	89.57	13.10
7/15	102.37	88.82	13.55	102.24	88.82	13.42
8/15	99.45	88.72	10.73	99.34	88.72	10.62
9/15	101.73	89.55	12.18	101.62	89.55	12.07
10/15	106.49	89.53	17.46	106.88	89.53	17.35
11/15	104.98	89.25	15.73	104.84	89.25	15.63
12/15	99.51	89.26	10.25	99.43	89.26	10.17
13/15	106.37	89.44	16.93	106.25	89.44	16.81
14/15	98.47	88.99	9.48	98.37	88.99	9.38
15/15	103.17	89.28	13.89	103.04	89.28	13.76

Portion amount to be used for whole body composite: 7.63 gReviewed by: JLGDate: 04-NOV-2017

Modified Composite Sample Preparation Record - Whole Body

WG: 61523Date: 23-Oct-2017Chemist: DRA/CLContract: 4033Axys Sample ID: L28215-32Balance ID#: 3120

Portioning for Composite

Sample ID	Jar + Sample before subsample taken (g)	Jar + Sample after subsample taken (g)	Sample removed from container (g)	Direct Weight of portion (g)
1/15	103.58	95.76	7.82	7.67
2/15	102.66	94.78	7.88	7.77
3/15	97.44	89.71	7.73	7.63
4/15	115.59	107.72	7.87	7.69
5/15	101.17	93.37	7.80	7.66
6/15	102.67	94.87	7.80	7.64
7/15	102.24	94.36	7.88	7.67
8/15	99.34	91.58	7.76	7.65
9/15	101.62	93.86	7.76	7.68
10/15	106.88	99.04	7.84	7.71
11/15	104.89	97.06	7.83	7.70
12/15	99.43	91.74	7.69	7.65
13/15	106.25	98.36	7.89	7.71
14/15	98.37	90.49	7.88	7.76
15/15	103.04	95.07	7.97	7.78

Composite

Sample ID	Pre-Homogenization			Post Homogenization		
	Jar + Sample (g)	Jar (g)	Sample (g)	Jar + Sample (g)	Jar (g)	Sample (g)
L28215-32	291.27	175.93	115.34	290.64	175.93	114.71

Subsamples

Subsamples	Portion weight (g)
SUBS 1	40.20
SUBS 2	50.28
SUBS 3	
SUBS 4	4.49
SUBS 5	19.39

23-Oct-2017
DRAReviewed by: JLG.Date: 04-NOV-2017

L28215-32

1	
Windward Environmental LLC	
200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: <i>KM</i>
Collection date: <i>8/31/17</i>	Collection time: <i>1017</i>
Location: <i>1B</i>	Method: <i>trawl</i>
Species: <i>shiner</i>	
Specimen ID: LDW17- <i>R1B-55147^{PM}66-55169</i>	
Length (mm): <i>103</i>	Weight (g) <i>14</i>

2	
Windward Environmental LLC	
200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: <i>KM</i>
Collection date: <i>8/31/17</i>	Collection time: <i>1017</i>
Location: <i>1B</i>	Method: <i>trawl</i>
Species: <i>shiner</i>	
Specimen ID: LDW17- <i>R1B-55151 55173</i>	
Length (mm): <i>110</i>	Weight (g) <i>14</i>

3	
Windward Environmental LLC	
200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: <i>KM</i>
Collection date: <i>8/30/17</i>	Collection time: <i>1400</i>
Location: <i>1B</i>	Method: <i>trawl</i>
Species: <i>shiner</i>	
Specimen ID: LDW17- <i>R10-55133</i>	
Length (mm): <i>93</i>	Weight (g) <i>12</i>

4	
Windward Environmental LLC	
200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: <i>NM</i>
Collection date: <i>8/30/17</i>	Collection time: <i>0949</i>
Location: <i>1B</i>	Method: <i>trawl</i>
Species: <i>Shiner</i>	
Specimen ID: LDW17- <i>R1B-55157</i>	
Length (mm): <i>127</i>	Weight (g) <i>28</i>

5	
Windward Environmental LLC	
200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: <i>NM</i>
Collection date: <i>8/31/17</i>	Collection time: <i>0845</i>
Location: <i>1B</i>	Method: <i>trawl</i>
Species: <i>shiner</i>	
Specimen ID: LDW17- <i>R1B-55146</i>	
Length (mm): <i>103</i>	Weight (g) <i>14</i>

6	
Windward Environmental LLC	
200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: <i>NM</i>
Collection date: <i>8/31/17</i>	Collection time: <i>0845</i>
Location: <i>1B</i>	Method: <i>trawl</i>
Species: <i>shiner</i>	
Specimen ID: LDW17- <i>R1B-55144</i>	
Length (mm): <i>100</i>	Weight (g) <i>16</i>

7	
Windward Environmental LLC	
200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: <i>NM</i>
Collection date: <i>8/30/17</i>	Collection time: <i>0949</i>
Location: <i>1B</i>	Method: <i>trawl</i>
Species: <i>shiner</i>	
Specimen ID: LDW17- <i>R1B-55163</i>	
Length (mm): <i>110</i>	Weight (g) <i>18</i>

8	
Windward Environmental LLC	
200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: <i>KM</i>
Collection date: <i>8/31/17</i>	Collection time: <i>1017</i>
Location: <i>1B</i>	Method: <i>trawl</i>
Species: <i>shiner</i>	
Specimen ID: LDW17- <i>R1B-55143^{PM} 55165</i>	
Length (mm): <i>100</i>	Weight (g) <i>14</i>

9 Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: <i>KM</i>
Collection date: <i>8/30/17</i>	Collection time: <i>1400</i>
Location: <i>1B</i>	Method: <i>trawl</i>
Species: <i>shiner</i>	
Specimen ID: LDW17- <i>R1B-SS136</i>	
Length (mm): <i>106</i>	Weight (g) <i>16</i>

10 Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: <i>NM</i>
Collection date: <i>8/30/17</i>	Collection time: <i>0944</i>
Location: <i>1B</i>	Method: <i>trawl</i>
Species: <i>SHINER</i>	
Specimen ID: LDW17- <i>R1B-SS151</i>	
Length (mm): <i>114</i>	Weight (g) <i>22</i>

11 Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: <i>KM</i>
Collection date: <i>8/30/17</i>	Collection time: <i>1400</i>
Location: <i>1B</i>	Method: <i>trawl</i>
Species: <i>shiner</i>	
Specimen ID: LDW17- <i>R1B-SS135</i>	
Length (mm): <i>113</i>	Weight (g) <i>18</i>

12 Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: <i>KM</i>
Collection date: <i>8/31/17</i>	Collection time: <i>1017</i>
Location: <i>1B</i>	Method: <i>trawl</i>
Species: <i>shiner</i>	
Specimen ID: LDW17- <i>R1B-SS177</i>	
Length (mm): <i>99</i>	Weight (g) <i>14</i>

13 Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: <i>NM</i>
Collection date: <i>8/31/17</i>	Collection time: <i>0845</i>
Location: <i>1B</i>	Method: <i>trawl</i>
Species: <i>shiner</i>	
Specimen ID: LDW17- <i>R1B-SS148</i>	
Length (mm): <i>113</i>	Weight (g) <i>20</i>

14 Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: <i>KM</i>
Collection date: <i>8/30/17</i>	Collection time: <i>1400</i>
Location: <i>1B</i>	Method: <i>trawl</i>
Species: <i>shiner</i>	
Specimen ID: LDW17- <i>R1B-SS130</i>	
Length (mm): <i>95</i>	Weight (g) <i>16</i>

15 Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: <i>KM</i>
Collection date: <i>8/31/17</i>	Collection time: <i>1017</i>
Location: <i>1B</i>	Method: <i>trawl</i>
Species: <i>shiner</i>	
Specimen ID: LDW17- <i>R1B-SS175</i>	
Length (mm): <i>108</i>	Weight (g) <i>18</i>

Modified Composite Sample Preparation Record - Unprocessed Whole fish

WG: 61523Date: 23 Oct 2017Chemist: SRM/WB/ORA Contract: 4033Axys Sample ID: L28215-33Balance ID#: 3180

Sample ID	Client ID	Sample Description	Sample + Container (g)	Container (g)	Sample (g)
1/15	LDW17-RIB-SS142	1x small silver fish	17.37	2.09	15.28
2/15	LDW17-RIB-SS122	1x small silver fish	20.30	3.46	16.84
3/15	LDW17-RIB-SS140	1x small silver fish	12.88	2.07	10.81
4/15	LDW17-RIB-SS149	1x small silver fish	18.90	2.93	15.97
5/15	LDW17-RIB-SS174	1x small silver fish	16.07	2.95	13.12
6/15	LDW17-RIB-SS159	1x small silver fish	17.32	2.13	15.19
7/15	LDW17-RIB-SS158	1x small silver fish	15.59	1.91	13.68
8/15	LDW17-RIB-SS176	1x small silver fish	18.18	2.46	15.72
9/15	LDW17-RIB-SS147	1x small silver fish	13.48	2.48	11.00
10/15	LDW17-RIB-SS152	1x small silver fish	16.30	2.34	13.96
11/15	LDW17-RIB-SS129	1x small silver fish	15.10	2.24	12.86
12/15	LDW17-RIB-SS160	1x small silver fish	11.23	2.24	8.99
13/15	LDW17-RIB-SS139	1x small silver fish	11.38	2.28	9.10
14/15	LDW17-RIB-SS128	1x small silver fish	20.79	2.59	18.20
15/15	LDW17-RIB-SS155	1x small silver fish	18.63	1.58	17.05

Reviewed by: JLGDate: 04 NOV 2017

AXYS Analytical Services Ltd.

Modified Composite Sample Preparation Record - Whole Body Homogenization

WG: 61523Date: 23-Oct-2017Chemist: ORA/W/SIContract: 4033Axys Sample ID: L28215-33 Balance ID#: 3180

also MGI for CRM 17 Nov 2017 MGI

Sample ID	Whole Body Pre-homogenization			Whole Body - Post Homogenization		
	Jar + Sample (g)	Jar (g)	Sample (g)	Jar + Sample (g)	Jar (g)	Sample (g)
1 / 15	104.32	89.21	15.11	104.22	89.21	15.01
2 / 15	105.41	89.22	16.69	105.81	89.22	16.59
3 / 15	100.31	89.55	10.76	100.23	89.55	10.68
4 / 15	105.24	89.45	15.79	105.12	89.45	15.67
5 / 15	102.33	89.28	13.05	102.23	89.28	12.95
6 / 15	104.04	88.92	15.12	103.94	88.92	15.02
7 / 15	102.90	89.24	13.66	102.81	89.24	13.57
8 / 15	104.56	88.93	15.63	104.45	88.93	15.52
9 / 15	100.20	89.23	10.97	100.12	89.23	10.89
10 / 15	105.03	91.12	13.91	104.89	91.12	13.77
11 / 15	102.00	89.32	12.68	101.89	89.32	12.57
12 / 15	97.86	88.92	8.94 ^{also} 8.94 _{23-Oct-2017}	97.86	88.92	8.94
13 / 15	99.17	90.17	9.00	99.17	90.17	9.00
14 / 15	108.40	90.28	18.12	108.29	90.28	18.01
15 / 15	107.33	90.29	17.04	107.21	90.29	16.92

Portion amount to be used for whole body composite: 8.79 gReviewed by: JLGDate: 01 NOV 2017

Modified Composite Sample Preparation Record - Whole Body

WG: 61523

Date: 23 Oct 2017

Chemist: W/SI/DRA/W/SI Contract: 4033
for SRM
17 Nov 2017
W/SI

Axys Sample ID: L28215-33

Balance ID#: 3180

Portioning for Composite

Sample ID	Jar + Sample before subsample taken (g)	Jar + Sample after subsample taken (g)	Sample removed from container (g)	Direct Weight of portion (g)
1/15	104.22	95.21	9.01	8.80
2/15	105.81	96.83	8.98	8.81
3/15	100.23	91.22	9.01	8.78
4/15	105.12	96.07	9.05	8.80
5/15	102.23	93.21	9.02	8.82 8.86
6/15	103.94	94.85	9.09	8.86 8.91
7/15	102.81	93.83	8.98	8.84
8/15	104.45	95.52	8.93	8.79
9/15	100.12	91.24	8.88	8.78
10/15	104.89	95.89	9.00	8.80
11/15	101.89	93.08	8.81	8.77
12/15	97.86	89.08	8.78	8.79
13/15	99.17	90.28	8.89	8.89
14/15	108.29	99.33	8.96	8.92
15/15	107.33 107.33	98.15	9.18	8.79

23-Oct-2017
DRA

Composite

Sample ID	Pre-Homogenization			Post Homogenization		
	Jar + Sample (g)	Jar (g)	Sample (g)	Jar + Sample (g)	Jar (g)	Sample (g)
L28215-33	309.10	176.95	132.15	308.92	176.95	131.97

Subsamples

Subsamples	Portion weight (g)
SUBS 1	40.32
SUBS 2	51.26
SUBS 3	
SUBS 4	4.62
SUBS 5	35.14

23-Oct-2017
DRA

Reviewed by: JLG

Date: 04-NOV-2017

L28215-33 Original labelling
1 of 2

Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: NM
Collection date: 8/31/17	Collection time: 0845
Location: 1B	Method: trawl
Species: Shiner	
Specimen ID: LDW17-R1B-SS142	
Length (mm): 111	Weight (g) 18

Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: KM
Collection date: 8/31/17	Collection time: 1017
Location: 1B	Method: trawl
Species: shiner	
Specimen ID: LDW17-R1B-SS174	
Length (mm): 107	Weight (g) 16

Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: KM
Collection date: 8/30/17	Collection time: 1400
Location: 1B	Method: trawl
Species: Shiner	
Specimen ID: LDW17-R1B-SS122	
Length (mm): 113	Weight (g) 22

Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: NM
Collection date: 8/30/17	Collection time: 0949
Location: 1B	Method: trawl
Species: Shiner	
Specimen ID: LDW17-R1B-SS159	
Length (mm): 115	Weight (g) 18

Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: NM
Collection date: 8/31/17	Collection time: 0845
Location: 1B	Method: trawl
Species: Shiner	
Specimen ID: LDW17-R1B-SS140	
Length (mm): 96	Weight (g) 8

Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: NM
Collection date: 8/30/17	Collection time: 0949
Location: 1B	Method: trawl
Species: Shiner	
Specimen ID: LDW17-R1B-SS158	
Length (mm): 107	Weight (g) 16

Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: NM
Collection date: 8/31/17	Collection time: 0845
Location: 1B	Method: trawl
Species: Shiner	
Specimen ID: LDW17-R1B-SS149	
Length (mm): 113	Weight (g) 20

Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: KM
Collection date: 8/31/17	Collection time: 1017
Location: 1B	Method: trawl
Species: shiner	
Specimen ID: LDW17-R1B-SS176	
Length (mm): 116	Weight (g) 20

LAB15-33 Original Labelling
 2 of 2

9

Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: NM
Collection date: 8/31/17	Collection time: 0845
Location: 1B	Method: trawl
Species: Shiner	
Specimen ID: LDW17- R1B-SS147	
Length (mm): 97	Weight (g) 12

10

Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: NM
Collection date: 8/30/17	Collection time: 0949
Location: 1B	Method: trawl
Species: Shiner	
Specimen ID: LDW17- R1B-SS152	
Length (mm): 107	Weight (g) 18

11

Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: NM
Collection date: 8/30/17	Collection time: 1400
Location: 1B	Method: trawl
Species: Shiner	
Specimen ID: LDW17- R1B-SS129	
Length (mm): 138	Weight (g) 20

12

Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: NM
Collection date: 8/30/17	Collection time: 0949
Location: 1B	Method: trawl
Species: Shiner	
Specimen ID: LDW17- R1B-SS160	
Length (mm): 93	Weight (g) 12

13

Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: NM
Collection date: 8/31/17	Collection time: 0845
Location: 1B	Method: trawl
Species: Shiner	
Specimen ID: LDW17- R1B-SS139	
Length (mm): 93	Weight (g) 10

14

Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: NM
Collection date: 8/30/17	Collection time: 1400
Location: 1B	Method: trawl
Species: Shiner	
Specimen ID: LDW17- R1B-SS128	
Length (mm): 118	Weight (g) 24

15

Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: NM
Collection date: 8/30/17	Collection time: 0949
Location: 1B	Method: trawl
Species: Shiner	
Specimen ID: LDW17- R1B-SS155	
Length (mm): 109	Weight (g) 20

Modified Composite Sample Preparation Record - Unprocessed Whole fish

WG: NG61523Date: 23-11-2017Chemist: SRM/CW Contract: 4033Axys Sample ID: L28215-341Balance ID#: 3120

Sample ID	Client ID	Sample Description	Sample + Container (g)	Container (g)	Sample (g)
1/15	LDW17-R2B-SS068	1x small silver fish	15.02	2.67	12.35
2/15	LDW17-R2B-SS072	1x small silver fish	23.21	3.08	20.13
3/15	LDW17-R2B-SS089	1x small silver fish	20.61	4.41	16.20
4/15	LDW17-R2B-SS067	1x small silver fish	18.74	3.97	14.77
5/15	LDW17-R2B-SS103	1x small silver fish	18.27	2.86	15.41
6/15	²³⁻¹¹⁻²⁰¹⁷ _{SRM} LDW17-R2B-SS088	1x small silver fish	23.11	4.11	19.00
7/15	LDW17-R2B-SS108	1x small silver fish	13.59	2.63	10.96
8/15	LDW17-R2B-SS065	1x small silver fish	18.82	3.31	15.51
9/15	LDW17-R2B-SS101	1x small silver fish	17.95	3.18	14.77
10/15	LDW17-R2B-SS075	1x small silver fish	19.15 ²³⁻¹¹⁻²⁰¹⁷ 15.94	3.64	12.30
11/15	LDW17-R2B-SS085	1x small silver fish	22.17	3.25	18.92
12/15	LDW17-R2B-SS084	1x small silver fish	17.88	3.11	14.77
13/15	LDW17-R2B-SS082	1x small silver fish	15.05	3.11	11.94
14/15	LDW17-R2B-SS110	1x small silver fish	15.05 ^{18.78} 23-11-2017 SRM	4.09	14.69
15/15	LDW17-R2B-SS113	1x small silver fish	22.32	3.28	19.04

Reviewed by: JLGDate: 04-NOV-2017

AXYS Analytical Services Ltd.

Modified Composite Sample Preparation Record - Whole Body Homogenization

WG: 61523Date: 23 Oct 2017Chemist: ORA/SRM/aktContract: 4033Axys Sample ID: L28215-34Balance ID#: 3180

Sample ID	Whole Body Pre-homogenization			Whole Body - Post Homogenization		
	Jar + Sample (g)	Jar (g)	Sample (g)	Jar + Sample (g)	Jar (g)	Sample (g)
1/15	103.59	91.28	12.31	103.50	91.28	12.22
2/15	111.20	91.18	20.02	111.05	91.18	19.87
3/15	105.05	88.94	16.11	104.94	88.94	16.00
4/15	104.41	89.86	14.55	104.30	89.86	14.44
5/15	105.35	89.94	15.41	105.21	89.94	15.27
6/15	109.82	91.06	18.76	109.66	91.06	18.60
7/15	101.99	91.07	10.92	101.99	91.07	10.92
8/15	105.78	90.33	15.45	105.63	90.33	15.30
9/15	104.75	90.31	14.44	104.62	90.31	14.31
10/15	101.57	89.46	12.11	101.45	89.46	11.99
11/15	108.73	89.91	18.82	108.61	89.91	18.70
12/15	105.71	91.10	14.61	105.59	91.10	14.49
13/15	102.88	91.01	11.87	102.78 ²⁰¹⁷ 80	91.01	11.79
14/15	104.82	90.25	14.57	104.70	90.25	14.45
15/15	108.99	90.11	18.88	108.85	90.11	18.74

Portion amount to be used for whole body composite: 10.73 gReviewed by: JUGDate: 24 NOV - 2017

AXYS Analytical Services Ltd.

Modified Composite Sample Preparation Record - Whole Body

WG: 61523

Date: 23-OCT-2017

Chemist: ORA/MG/CA Contract: 4033

Axys Sample ID: L28215-34

Balance ID#: 3180

Portioning for Composite

Sample ID	Jar + Sample before subsample taken (g)	Jar + Sample after subsample taken (g)	Sample removed from container (g)	Direct Weight of portion (g)
1/15	103.50	103.54 92.57	10.93	10.73
2/15	111.05	100.25	10.80	10.73
3/15	104.94	94.13	10.81	10.73
4/15	104.30	93.55	10.75	10.74 10.74
5/15	105.21	94.38	10.83	10.76
6/15	109.66	98.82	10.84	10.75
7/15	101.99	91.16	10.83	10.73
8/15	105.63	94.79	10.84	10.75
9/15	104.62	93.86	10.76	10.75
10/15	101.45	90.66	10.79	10.74
11/15	108.61	97.69	10.92	10.75
12/15	105.59	94.84	10.75	10.73
13/15	102.78 80 102.78	91.87	10.93	10.75
14/15	104.70	93.86	10.84	10.73
15/15	108.85	98.09	10.76	10.74 10.73

MG 23 OCT 2017

Composite

Sample ID	Pre-Homogenization			Post Homogenization		
	Jar + Sample (g)	Jar (g)	Sample (g)	Jar + Sample (g)	Jar (g)	Sample (g)
L28215-34	337.83	176.78	161.05	337.25	176.78	160.47

Subsamples

Subsamples	Portion weight (g)
SUBS 1	40.51
SUBS 2	100.00
SUBS 3	4.78
SUBS 4	4.78
SUBS 5	14.73

23-OCT-2017
ORA

Reviewed by: JLG

Date: 04-NOV-2017

Labels - 54 original labelling (of 2)

Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: NM
Collection date: 8/29/17	Collection time: 1100
Location: ZB	Method: trawl
Species: Shiner	
Specimen ID: LDW17- R2B-SS068	
Length (mm): 117	Weight (g): 10

Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: KM
Collection date: 8/29/17	Collection time: 1127
Location: ZB	Method: trawl
Species: Shiner	
Specimen ID: LDW17- R2B-SS103	
Length (mm): 106	Weight (g): 18

Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: NM
Collection date: 8/29/17	Collection time: 1100
Location: ZB	Method: trawl
Species: Shiner	
Specimen ID: LDW17- R2B-SS072	
Length (mm): 120	Weight (g): 24

Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: KM
Collection date: 8/29/17	Collection time: 1100
Location: ZB	Method: trawl
Species: shiner	
Specimen ID: LDW17- R2B-SS-088	
Length (mm): 125	Weight (g): 26

Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: KM
Collection date: 8/29/17	Collection time: 1100
Location: ZB	Method: trawl
Species: shiner	
Specimen ID: LDW17- R2B-SS-089	
Length (mm): 111	Weight (g): 22

Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: KM
Collection date: 8/29/17	Collection time: 1127
Location: ZB	Method: trawl
Species: shiner	
Specimen ID: LDW17- R2B-SS108	
Length (mm): 100	Weight (g): 14

Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: NM
Collection date: 8/29/17	Collection time: 1100
Location: ZB	Method: trawl
Species: Shiner	
Specimen ID: LDW17- R2B-SS067	
Length (mm): 113	Weight (g): 22 14

Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: NM
Collection date: 8/29/17	Collection time: 1100
Location: ZB	Method: trawl
Species: Shiner	
Specimen ID: LDW17- R2B-SS065	
Length (mm): 108	Weight (g): #18

LABS-34 Original Labeling
2 of 2

Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: <i>km</i>
Collection date: <i>8/29/17</i>	Collection time: <i>1127</i>
Location: <i>ZB</i>	Method: <i>trawl</i>
Species: <i>shiner</i>	
Specimen ID: <i>LDW17-R2B-SS101</i>	
Length (mm): <i>112</i>	Weight (g) <i>16</i>

Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: <i>km</i>
Collection date: <i>8/29/17</i>	Collection time: <i>1100</i>
Location: <i>ZB</i>	Method: <i>trawl</i>
Species: <i>shiner</i>	
Specimen ID: <i>LDW17-R2B-SS075</i>	
Length (mm): <i>110</i>	Weight (g) <i>16</i>

Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: <i>km</i>
Collection date: <i>8/29/17</i>	Collection time: <i>1100</i>
Location: <i>ZB</i>	Method: <i>trawl</i>
Species: <i>shiner</i>	
Specimen ID: <i>LDW17-R2B-SS-085</i>	
Length (mm): <i>119</i>	Weight (g) <i>24</i>

Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: <i>km</i>
Collection date: <i>8/29/17</i>	Collection time: <i>1100</i>
Location: <i>ZB</i>	Method: <i>trawl</i>
Species: <i>shiner</i>	
Specimen ID: <i>LDW17-R2B-SS-084</i>	
Length (mm): <i>117</i>	Weight (g) <i>24</i>

Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: <i>km</i>
Collection date: <i>8/29/17</i>	Collection time: <i>1100</i>
Location: <i>ZB</i>	Method: <i>trawl</i>
Species: <i>shiner</i>	
Specimen ID: <i>LDW17-R2B-SS-082</i>	
Length (mm): <i>106</i>	Weight (g) <i>16</i>

Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: <i>km</i>
Collection date: <i>8/29/17</i>	Collection time: <i>1127</i>
Location: <i>ZB</i>	Method: <i>trawl</i>
Species: <i>shiner</i>	
Specimen ID: <i>LDW17-R2B-SS116</i>	
Length (mm): <i>111</i>	Weight (g) <i>18</i>

Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: <i>km</i>
Collection date: <i>8/29/17</i>	Collection time: <i>1127</i>
Location: <i>ZB</i>	Method: <i>trawl</i>
Species: <i>shiner</i>	
Specimen ID: <i>LDW17-R2B-SS113</i>	
Length (mm): <i>121</i>	Weight (g) <i>24</i>

Modified Composite Sample Preparation Record - Unprocessed Whole fish

WG: 61523Date: 24-Oct-2017Chemist: ORA/CK / WAL Contract: 4033Axy Sample ID: L28215-35Balance ID#: 3120ORA
24-Oct-2017
ORA

Sample ID	Client ID	Sample Description	Sample + Container (g)	Container (g)	Sample (g)
1 / 15	LDW17-R2B-55070	1x small silver fish	21.36	3.83	17.53
2 / 15	LDW17-R2B-55069	1x small silver fish	16.10	3.39	12.71
3 / 15	LDW17-R2B-55061	1x small silver fish	22.16	3.91	18.25
4 / 15	LDW17-R2B-55074	1x small silver fish	15.92	3.50	12.42
5 / 15	LDW17-R2B-55102	1x small silver fish	17.31	3.67	13.64
6 / 15	LDW17-R2B-55079	1x small silver fish	15.52	3.56	24-Oct-2017 ORA 11.96
7 / 15	LDW17-R2B-55086	1x small silver fish	17.38	3.81	13.57
8 / 15	LDW17-R2B-55083	1x small silver fish	18.32	2.92	15.40
9 / 15	LDW17-R2B-55087	1x small silver fish	17.68	3.36	14.32
10 / 15	LDW17-R2B-55111	1x small silver fish	15.00	3.42	11.58
11 / 15	LDW17-R2B-55105	1x small silver fish	15.36	2.28	13.08
12 / 15	LDW17-R2B-55081	1x small silver fish	20.30	3.89	16.41
13 / 15	LDW17-R2B-55091	1x small silver fish	16.83	3.15	13.68
14 / 15	LDW17-R2B-55099	1x small silver fish	16.16	3.27	12.89
15 / 15	LDW17-R2B-55097	1x small silver fish	17.06	3.91	13.15

Reviewed by: JLGDate: 04-Nov-2017

AXYS Analytical Services Ltd.

Modified Composite Sample Preparation Record - Whole Body Homogenization

WG: 61523Date: 24-04-2017Chemist: ORA/CA/161Contract: 4033Axys Sample ID: L28215-35 Balance ID#: 3120

Sample ID	Whole Body Pre-homogenization			Whole Body - Post Homogenization		
	Jar + Sample (g)	Jar (g)	Sample (g)	Jar + Sample (g)	Jar (g)	Sample (g)
1 / 15	106.66	89.45	17.21	106.55	89.45	17.10
2 / 15	102.37	89.75	12.62	102.29	89.75	12.54
3 / 15	107.38	89.17	18.21 ^{24.21-18.21} 18.21	107.23	89.17	18.17 ^{17.03-18.17} 18.06
4 / 15	101.67	89.28	12.39	101.57	89.28	12.29
5 / 15	102.91	89.38	13.53	102.83	89.38	13.45
6 / 15	101.96	90.05	11.91	101.89	90.05	11.84
7 / 15	103.00	89.59	13.41	102.88	89.59	13.29
8 / 15	105.16	89.84	15.32	105.07	89.84	15.23
9 / 15	103.40	89.26	14.14	103.29	89.26	14.03
10 / 15	100.90	89.41	11.49	100.89	89.41	11.48
11 / 15	101.51	88.45	13.06	101.43	88.45	12.98
12 / 15	105.93	89.63	16.30	105.85	89.63	16.22
13 / 15	104.79	91.18	13.61	104.70	91.18	13.52
14 / 15	101.94	89.31	12.63	101.83	89.31	12.52
15 / 15	102.33	89.29	13.04	102.16	89.29	12.87

Portion amount to be used for whole body composite: 11.35 gReviewed by: JGDate: 01-NOV-2017

AXYS Analytical Services Ltd.

Modified Composite Sample Preparation Record - Whole Body

WG: 61523Date: 24-Oct-2017Chemist: OPA/CAT/W/G Contract: 4033Axys Sample ID: L28215-35Balance ID#: 3120

Portioning for Composite

Sample ID	Jar + Sample before subsample taken (g)	Jar + Sample after subsample taken (g)	Sample removed from container (g)	Direct Weight of portion (g)
1 / 15	106.55	95.05	11.50	11.35
2 / 15	102.29	90.84	11.45	11.36
3 / 15	107.23	95.84	11.39	11.36
4 / 15	101.57	90.10	11.47	11.36
5 / 15	102.83	91.39	11.44	11.35
6 / 15	101.89	90.46	11.43	11.35
7 / 15	102.88	91.41	11.47	11.36
8 / 15	105.07	93.62	11.45	11.35
9 / 15	103.29	91.79	11.50	11.35
10 / 15	100.89	89.48	11.41	11.35
11 / 15	101.43	89.98	11.45	11.36
12 / 15	105.85	94.38	11.47	11.35
13 / 15	104.70	93.33	11.37	11.35
14 / 15	101.83	90.41	11.42	11.36
15 / 15	102.16	90.77	11.39	11.35

Composite

Sample ID	Pre-Homogenization			Post Homogenization		
	Jar + Sample (g)	Jar (g)	Sample (g)	Jar + Sample (g)	Jar (g)	Sample (g)
L28215-35	344.48	174.23	170.25	343.95	174.23	169.72

Subsamples

Subsamples	Portion weight (g)
SUBS 1	40.24
SUBS 2	100.33
SUBS 3	10.24
SUBS 4	4.89
SUBS 5	13.83

Reviewed by: JLGDate: 04-NOV-2017

1	
Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: NM
Collection date: 8/29/17	Collection time: 1100
Location: 2B	Method: trawl
Species: Shiner	
Specimen ID: LDW17- R2B-SS070	
Length (mm): 117	Weight (g) 18

2	
Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: NM
Collection date: 8/29/17	Collection time: 1100
Location: 2B	Method: trawl
Species: Shiner	
Specimen ID: LDW17- R2B-SS069	
Length (mm): 110	Weight (g) 12

3	
Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: NM
Collection date: 8/29/17	Collection time: 1100
Location: 2B	Method: trawl
Species: Shiner	
Specimen ID: LDW17- R2B-SS061	
Length (mm): 114	Weight (g) 20

4	
Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: NM
Collection date: 8/29/17	Collection time: 1100
Location: 2B	Method: trawl
Species: Shiner	
Specimen ID: LDW17- R2B-SS074	
Length (mm): 115	Weight (g) 16

5	
Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: NM
Collection date: 8/29/17	Collection time: 1127
Location: 2B	Method: trawl
Species: Shiner	
Specimen ID: LDW17- R2B-SS102	
Length (mm): 106	Weight (g) 18

6	
Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: NM
Collection date: 8/29/17	Collection time: 1100
Location: 2B	Method: trawl
Species: Shiner	
Specimen ID: LDW17- R2B-SS-079	
Length (mm): 105	Weight (g) 18

7	
Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: NM
Collection date: 8/29/17	Collection time: 1100
Location: 2B	Method: trawl
Species: Shiner	
Specimen ID: LDW17- R2B-SS-086	
Length (mm): 111	Weight (g) 20

8	
Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: NM
Collection date: 8/29/17	Collection time: 1100
Location: 2B	Method: trawl
Species: Shiner	
Specimen ID: LDW17- R2B-SS-083	
Length (mm): 114	Weight (g) 20

9 Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: <i>KM</i>
Collection date: <i>8/29/17</i>	Collection time: <i>1100</i>
Location: <i>ZB</i>	Method: <i>trawl</i>
Species: <i>Shiner</i>	
Specimen ID: <i>LDW17- R2B-SS-087</i>	
Length (mm): <i>110</i>	Weight (g) <i>20</i>

10 Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: <i>KM</i>
Collection date: <i>8/29/17</i>	Collection time: <i>1127</i>
Location: <i>ZB</i>	Method: <i>trawl</i>
Species: <i>Shiner</i>	
Specimen ID: <i>LDW17- R2B-SS111</i>	
Length (mm): <i>106</i>	Weight (g) <i>16</i>

11 Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: <i>KM</i>
Collection date: <i>8/29/17</i>	Collection time: <i>1127</i>
Location: <i>ZB</i>	Method: <i>trawl</i>
Species: <i>Shiner</i>	
Specimen ID: <i>LDW17- R2B-SS105</i>	
Length (mm): <i>108</i>	Weight (g) <i>16</i>

12 Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: <i>KM</i>
Collection date: <i>8/29/17</i>	Collection time: <i>1100</i>
Location: <i>ZB</i>	Method: <i>trawl</i>
Species: <i>Shiner</i>	
Specimen ID: <i>LDW17- R2B-SS-081</i>	
Length (mm): <i>119</i>	Weight (g) <i>24</i>

13 Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: <i>KM</i>
Collection date: <i>8/29/17</i>	Collection time: <i>1127</i>
Location: <i>ZB</i>	Method: <i>trawl</i>
Species: <i>Shiner</i>	
Specimen ID: <i>LDW17- R2B-SS-091</i>	
Length (mm): <i>107</i>	Weight (g) <i>14</i>

14 Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: <i>KM</i>
Collection date: <i>8/29/17</i>	Collection time: <i>1127</i>
Location: <i>ZB</i>	Method: <i>trawl</i>
Species: <i>Shiner</i>	
Specimen ID: <i>LDW17- R2B-SS099</i>	
Length (mm): <i>114</i>	Weight (g) <i>16</i>

15 Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: <i>KM</i>
Collection date: <i>8/29/17</i>	Collection time: <i>1127</i>
Location: <i>ZB</i>	Method: <i>trawl</i>
Species: <i>Shiner</i>	
Specimen ID: <i>LDW17- R2B-SS097</i>	
Length (mm): <i>105</i>	Weight (g) <i>14</i>

Modified Composite Sample Preparation Record - Unprocessed Whole fish

WG: 61523Date: 24OCT2017Chemist: CH/DRA/MGI Contract: 4033Axs Sample ID: L28215-36Balance ID#: 3180

Sample ID	Client ID	Sample Description	Sample + Container (g)	Container (g)	Sample (g)
1 / 15	LDW17-R2A-SS033	1x small silver fish	30.01	3.41	26.60
2 / 15	LDW17-R2A-SS036	1x small silver fish	21.56	3.59	17.97
3 / 15	LDW17-R2A-SS-009	1x small silver fish	23.25	2.21	21.04
4 / 15	LDW17-R2A-SS053	1x small silver fish	50.48	3.05	47.43
5 / 15	LDW17-R2A-SS014	1x small silver fish	19.60	2.61	16.99
6 / 15	LDW17-R2A-SS060	1x small silver fish	24.64	3.91	20.73
7 / 15	LDW17-R2A-SS-010	1x small silver fish	19.71	3.50	16.21
8 / 15	LDW17-R2A-SS035	1x small silver fish	27.81	4.18	23.63
9 / 15	LDW17-R2A-SS058	1x small silver fish	21.72	3.88	17.84
10 / 15	LDW17-R2A-SS039	1x small silver fish	29.17	3.44	25.73
11 / 15	LDW17-R2A-SS037	1x small silver fish	35.37	3.14	32.23
12 / 15	LDW17-R2A-SS028	1x small silver fish	20.49	3.49	17.00
13 / 15	LDW17-R2A-SS059	1x small silver fish	20.24	3.75	16.49
14 / 15	LDW17-R2A-SS049	1x small silver fish	37.14	4.24	32.90
15 / 15	LDW17-R2A-SS029	1x small silver fish	18.18	2.92	15.26

Reviewed by: JLGDate: 06-NOV-2017

Modified Composite Sample Preparation Record - Whole Body Homogenization

WG: 61523Date: 24 OCT 2017Chemist: W/CH/DRAContract: 4033Axys Sample ID: L28215-36 Balance ID#: 3180

Sample ID	Whole Body Pre-homogenization			Whole Body - Post Homogenization		
	Jar + Sample (g)	Jar (g)	Sample (g)	Jar + Sample (g)	Jar (g)	Sample (g)
1 / 15	116.82	90.55	24.27	116.62	90.55	24.07
2 / 15	108.89	91.48	17.41	108.73	91.48	17.25
3 / 15	111.33	90.47	20.86	111.20	90.47	20.73
4 / 15	159.00	111.71	47.29	158.68	111.71	46.97
5 / 15	108.27	91.39	16.88	108.12	91.39	16.73
6 / 15	110.99	90.40	20.59	110.82	90.40	20.42
7 / 15	106.67	90.62	16.05	106.41	90.62	15.79
8 / 15	112.39	89.20	23.19	112.29	89.20	23.09
9 / 15	107.98	90.28	17.70	107.87	90.28	17.59
10 / 15	115.95	90.96	24.99	115.82	90.96	24.86
11 / 15	121.35	89.27	32.07	121.25	89.27	31.98
12 / 15	107.89	91.14	17.75	107.77	91.14	16.63
13 / 15	106.94	90.72	16.22	106.85	90.72	16.13
14 / 15	122.82	90.44	32.38	122.60	90.44	32.16
15 / 15	104.747	89.69	15.058	104.77	89.69	15.08

24 OCT 2017 CH

24 OCT 2017 CH

Portion amount to be used for whole body composite: 14.90 gReviewed by: SLGDate: 06-NOV-2017

Modified Composite Sample Preparation Record - Whole Body

WG: 61523

Date: 24 OCT 2017

Chemist: CH/DRA/WG Contract: 4033

Axys Sample ID: L28215-36

Balance ID#: 3180

Portioning for Composite

Sample ID	Jar + Sample before subsample taken (g)	Jar + Sample after subsample taken (g)	Sample removed from container (g)	Direct Weight of portion (g)
1 15	116.62	101.65	14.97	14.90
2 15	108.73	93.72	15.01	14.90
3 15	111.20	96.25	14.95	14.90
4 15	158.68	143.76	14.92	14.90
5 15	108.12	93.19	14.93	14.90
6 15	110.82	95.84	14.98	14.90
7 15	106.41	91.34	15.07	14.90
8 15	112.29	97.26	15.03	14.90
9 15	107.87	92.89	14.98	14.90
10 15	115.82	100.73	15.09	14.90
11 15	121.25	106.29	14.96	14.90
12 15	107.77	92.85	14.92	14.90
13 15	106.85	91.86	14.99	14.90
14 15	122.60	107.47	15.13	14.90
15 15	104.77	89.79	14.98	14.90

Composite

Sample ID	Pre-Homogenization			Post Homogenization		
	Jar + Sample (g)	Jar (g)	Sample (g)	Jar + Sample (g)	Jar (g)	Sample (g)
L28215-36	400.34	176.7790	223.44	400.09	176.7790	223.19

24 OCT 2017 CH

24 OCT 2017 CH

Subsamples

Subsamples	Portion weight (g)
SUBS 1	40.55
SUBS 2	100.70
SUBS 3	
SUBS 4	4.19
SUBS 5	77.38

24-OCT-2017
DRA

Reviewed by: JG

Date: 06-NOV-2017

1	
Windward Environmental LLC	
200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: NM 1015
Collection date: 8/29/17	Collection time: 0914
Location: 2A	Method: trawl
Species: Shiner	
Specimen ID: LDW17-R2A-SS033	
Length (mm): 125	Weight (g) 30

2	
Windward Environmental LLC	
200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: NM 1015
Collection date: 8/29/17	Collection time: 0914
Location: 2A	Method: trawl
Species: Shiner	
Specimen ID: LDW17-R2A-SS036	
Length (mm): 120	Weight (g) 20

3	
Windward Environmental LLC	
200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler:
Collection date: 8/29/17	Collection time: 0914
Location: 2A	Method: trawl
Species: Shiner	
Specimen ID: LDW17-R2A-SS-009	
Length (mm): 123	Weight (g) 20

4	
Windward Environmental LLC	
200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: KM 1015
Collection date: 8/29/17	Collection time: 0914
Location: 2A	Method: trawl
Species: shiner	
Specimen ID: LDW17-R2A-SS053	
Length (mm): 153	Weight (g) 48

5	
Windward Environmental LLC	
200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler:
Collection date: 8/29/17	Collection time: 0914
Location: 2A	Method: trawl
Species: Shiner	
Specimen ID: LDW17-R2A-SS014	
Length (mm): 116	Weight (g) 24

6	
Windward Environmental LLC	
200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: KM 1015
Collection date: 8/29/17	Collection time: 0914
Location: 2A	Method: trawl
Species: shiner	
Specimen ID: LDW17-R2A-SS060	
Length (mm): 126	Weight (g) 20

7	
Windward Environmental LLC	
200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler:
Collection date: 8/29/17	Collection time: 0914
Location: 2A	Method: trawl
Species: Shiner	
Specimen ID: LDW17-R2A-SS-010	
Length (mm): 115	Weight (g) 16

8	
Windward Environmental LLC	
200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: NM 1015
Collection date: 8/29/17	Collection time: 0914
Location: 2A	Method: trawl
Species: Shiner	
Specimen ID: LDW17-R2A-SS035	
Length (mm): 125	Weight (g) 26

9	
Windward Environmental LLC	
200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: <i>KM</i> ¹⁰¹⁵
Collection date: <i>8/29/17</i>	Collection time: <i>0914</i>
Location: <i>2A</i>	Method: <i>trawl</i>
Species: <i>shiner</i>	
Specimen ID: LDW17- <i>R2A-SS058</i>	
Length (mm): <i>155</i>	Weight (g) <i>22</i>

10	
Windward Environmental LLC	
200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: <i>NM</i> ¹⁰¹⁵
Collection date: <i>8/29/17</i>	Collection time: <i>0914</i>
Location: <i>2A</i>	Method: <i>trawl</i>
Species: <i>Shiner</i>	
Specimen ID: LDW17- <i>R2A-SS039</i>	
Length (mm): <i>120</i>	Weight (g) <i>26</i>

11	
Windward Environmental LLC	
200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: <i>NM</i> ¹⁰¹⁵
Collection date: <i>8/29/17</i>	Collection time: <i>0914</i>
Location: <i>2A</i>	Method: <i>trawl</i>
Species: <i>Shiner</i>	
Specimen ID: LDW17- <i>R2A-SS037</i>	
Length (mm): <i>137</i>	Weight (g) <i>34</i>

12	
Windward Environmental LLC	
200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: <i>NM</i>
Collection date: <i>8/29/17</i>	Collection time: <i>0914</i>
Location: <i>2A</i>	Method: <i>trawl</i>
Species: <i>Shiner</i>	
Specimen ID: LDW17- <i>R2A-SS028</i>	
Length (mm): <i>110</i>	Weight (g) <i>24</i>

13	
Windward Environmental LLC	
200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: <i>KM</i> ¹⁰¹⁵
Collection date: <i>8/29/17</i>	Collection time: <i>0914</i>
Location: <i>2A</i>	Method: <i>trawl</i>
Species: <i>shiner</i>	
Specimen ID: LDW17- <i>R2A-SS059</i>	
Length (mm): <i>110</i>	Weight (g) <i>18</i>

14	
Windward Environmental LLC	
200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: <i>KM</i>
Collection date: <i>8/29/17</i>	Collection time: <i>0914</i>
Location: <i>2A</i>	Method: <i>trawl</i>
Species: <i>shiner</i>	
Specimen ID: LDW17- <i>R2A-SS049</i>	
Length (mm): 110 <i>136</i>	Weight (g) 16 <i>38</i>

15	
Windward Environmental LLC	
200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: <i>NM</i>
Collection date: <i>8/29/17</i>	Collection time: <i>0914</i>
Location: <i>2A</i>	Method: <i>trawl</i>
Species: <i>Shiner</i>	
Specimen ID: LDW17- <i>R2A-SS029</i>	
Length (mm): <i>111</i>	Weight (g) <i>22</i>

Modified Composite Sample Preparation Record - Unprocessed Whole fish

WG: 61523Date: 25-Oct-2017Chemist: DRA/CK/m/GI Contract: 4033Axy Sample ID: L28215-37Balance ID#: 3120

Sample ID	Client ID	Sample Description	Sample + Container (g)	Container (g)	Sample (g)
1 / 15	LDW17-R2A-SS050	1x small silver fish	27.62	4.27	23.35
2 / 15	LDW17-R2A-SS047	1x small silver fish	26.62	4.10	22.52
3 / 15	LDW17-R2A-SS026	1x small silver fish	23.65	3.88	19.77
4 / 15	LDW17-R2A-SS040	1x small silver fish	21.11	3.02	18.09
5 / 15	LDW17-R2A-SS016	1x small silver fish	19.68	3.29	16.39
6 / 15	LDW17-R2A-SS031	1x small silver fish	23.69	2.68	21.01
7 / 15	LDW17-R2A-SS055	1x small silver fish	23.80	3.23	20.57
8 / 15	LDW17-R2A-SS017	1x small silver fish	18.47	3.54	14.93
9 / 15	LDW17-R2A-SS045	1x small silver fish	26.86	5.16	21.70
10 / 15	LDW17-R2A-SS032	1x small silver fish	28.20	3.78	24.42
11 / 15	LDW17-R2A-SS-006	1x small silver fish	15.37	2.68	12.69
12 / 15	LDW17-R2A-SS-003	1x small silver fish	25.34	2.36	22.98
13 / 15	LDW17-R2A-SS044	1x small silver fish	30.79	6.14	24.65
14 / 15	LDW17-R2A-SS024	1x small silver fish	24.64	3.69	20.95
15 / 15	LDW17-R2A-SS-004	1x small silver fish	19.92	2.52	17.40

Reviewed by: JCGDate: 06-NOV-2017

AXYS Analytical Services Ltd.

Modified Composite Sample Preparation Record - Whole Body Homogenization

WG: 61523Date: 25-Oct-2017Chemist: DRA/CW/MGI Contract: 4033Axys Sample ID: L28215-37 Balance ID#: 3120

Sample ID	Whole Body Pre-homogenization			Whole Body - Post Homogenization		
	Jar + Sample (g)	Jar (g)	Sample (g)	Jar + Sample (g)	Jar (g)	Sample (g)
1 / 15	114.68	91.44	23.24	114.56	91.44	23.12
2 / 15	113.55	91.37	22.18	113.41	91.37	22.04
3 / 15	116.03	90.43	19.60	109.82	90.43	19.39
4 / 15	Max 2500g 108.150	90.62	17.88	108.32	90.62	17.70
5 / 15	107.23	91.11	16.12	107.14	91.11	16.03
6 / 15	110.80	89.84	20.96	110.62	89.84	20.78
7 / 15	111.02	90.56	20.46	110.91	90.56	20.35
8 / 15	105.34	90.56	14.78	105.23	90.56	14.67
9 / 15	112.31	90.67	21.64	112.14	90.67	21.47
10 / 15	137.64	113.48	24.16	137.48	113.48	24.00
11 / 15	125.75	113.26	12.49	125.73	113.26	12.47
12 / 15	136.35	113.49	22.86	136.23	113.49	22.74
13 / 15	137.24	112.94	24.30	136.97	112.94	24.03
14 / 15	132.78	112.09	20.69	132.62	112.09	20.53
15 / 15	130.95	113.74	17.21	130.78	113.74	17.04

Portion amount to be used for whole body composite: 11.98 gReviewed by: JLGDate: 06-Nov-2017

Modified Composite Sample Preparation Record - Whole Body

WG: 61523Date: 25-04-2017Chemist: ORA / CA / W/L Contract: 4033Axys Sample ID: L28215-37Balance ID#: 3120

Portioning for Composite

Sample ID	Jar + Sample before subsample taken (g)	Jar + Sample after subsample taken (g)	Sample removed from container (g)	Direct Weight of portion (g)
1 / 15	114.56	102.46	12.10	11.98
2 / 15	113.41	101.41	12.00	11.99
3 / 15	109.82	97.75	12.07	11.99
4 / 15	108.32	96.24	12.08	11.99
5 / 15	107.14	95.10	12.04	11.98
6 / 15	110.62	98.61	12.01	11.99
7 / 15	110.91	98.84	12.07	11.99
8 / 15	105.23	93.17	12.06	11.99
9 / 15	112.14	100.08	12.06	11.98
10 / 15	137.48	125.43	12.05	11.99
11 / 15	125.73	113.62	12.11	11.98
12 / 15	136.23	124.20	12.03	11.99
13 / 15	136.97	124.93	12.04	11.99
14 / 15	132.62	120.58	12.04	11.99
15 / 15	130.78	118.74	12.04	11.98

Composite

Sample ID	Pre-Homogenization			Post Homogenization		
	Jar + Sample (g)	Jar (g)	Sample (g)	Jar + Sample (g)	Jar (g)	Sample (g)
L28215-37	356.67	176.87	179.80	356.36	176.87	179.49

Subsamples

Subsamples	Portion weight (g)
SUBS 1	40.71
SUBS 2	100.67
SUBS 3	
SUBS 4	4.48
SUBS 5	33.50

25-04-2017
ORAReviewed by: JLGDate: 06-Nov-2017

1 Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: <i>KM</i> ¹⁰¹⁵
Collection date: <i>8/29/17</i>	Collection time: <i>0914</i> ^{km}
Location: <i>2A</i>	Method: <i>trawl</i>
Species: <i>shiner</i>	
Specimen ID: LDW17- <i>R2A-SS050</i> ²⁸	
Length (mm): <i>119</i> ¹²¹	Weight (g): <i>27</i> ¹⁶

2 Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: <i>KM</i> ¹⁰¹⁵
Collection date: <i>8/29/17</i>	Collection time: <i>0914</i> ^{km}
Location: <i>2A</i>	Method: <i>trawl</i>
Species: <i>shiner</i>	
Specimen ID: LDW17- <i>R2A-SS047</i>	
Length (mm): <i>142</i>	Weight (g): <i>18</i>

3 Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: <i>NM</i>
Collection date: <i>8/29/17</i>	Collection time: <i>0914</i>
Location: <i>2A</i>	Method: <i>trawl</i>
Species: <i>shiner</i>	
Specimen ID: LDW17- <i>R2A-SS026</i>	
Length (mm): <i>125</i>	Weight (g): <i>28</i>

4 Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: <i>NM</i> ¹⁰¹⁵
Collection date: <i>8/29/17</i>	Collection time: <i>0914</i>
Location: <i>2A</i>	Method: <i>trawl</i>
Species: <i>shiner</i>	
Specimen ID: LDW17- <i>R2A-SS040</i>	
Length (mm): <i>120</i>	Weight (g): <i>18</i>

5 Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: <i>NM</i>
Collection date: <i>8/29/17</i>	Collection time: <i>0914</i>
Location: <i>2A</i>	Method: <i>trawl</i>
Species: <i>shiner</i>	
Specimen ID: LDW17- <i>R2A-SS016</i>	
Length (mm): <i>117</i>	Weight (g): <i>22</i>

6 Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: <i>NM</i> ¹⁰¹⁵
Collection date: <i>8/29/17</i>	Collection time: <i>0914</i>
Location: <i>2A</i>	Method: <i>trawl</i>
Species: <i>shiner</i>	
Specimen ID: LDW17- <i>R2A-SS031</i>	
Length (mm): <i>121</i>	Weight (g): <i>24</i>

7 Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: <i>KM</i> ¹⁰¹⁵
Collection date: <i>8/29/17</i>	Collection time: <i>0914</i> ^{km}
Location: <i>2A</i>	Method: <i>trawl</i>
Species: <i>shiner</i>	
Specimen ID: LDW17- <i>R2A-SS055</i>	
Length (mm): <i>119</i>	Weight (g): <i>24</i>

8 Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: <i>NM</i>
Collection date: <i>8/29/17</i>	Collection time: <i>0914</i>
Location: <i>2A</i>	Method: <i>trawl</i>
Species: <i>shiner</i>	
Specimen ID: LDW17- <i>R2A-SS017</i>	
Length (mm): <i>109</i>	Weight (g): <i>24</i>

9 Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: NM ¹⁰¹⁵
Collection date: 8/29/17	Collection time: 0914
Location: 2A	Method: trawl
Species: Shiner	
Specimen ID: LDW17- R2A-SS045	
Length (mm): 119	Weight (g) 18

10 Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: NM ¹⁰¹⁵
Collection date: 8/29/17	Collection time: 0914
Location: 2A	Method: trawl
Species: Shiner	
Specimen ID: LDW17- R2A-SS032	
Length (mm): 131	Weight (g) 28

11 Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler:
Collection date: 8/29/17	Collection time: 0914
Location: 2A	Method: trawl
Species: Shiner	
Specimen ID: LDW17- R2A-SS-006	
Length (mm): 103	Weight (g) 16

12 Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler:
Collection date: 8/29/17	Collection time: 0914
Location: 2A	Method: trawl
Species: Shiner	
Specimen ID: LDW17- R2A-SS-003	
Length (mm): 115	Weight (g) 22

13 Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: NM ¹⁰¹⁵
Collection date: 8/29/17	Collection time: 0914
Location: 2A	Method: trawl
Species: Shiner	
Specimen ID: LDW17- R2A-SS044	
Length (mm): 129	Weight (g) 26

14 Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: NM
Collection date: 8/29/17	Collection time: 0914
Location: 2A	Method: trawl
Species: Shiner	
Specimen ID: LDW17- R2A-SS024	
Length (mm): 125	Weight (g) 32

15 Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler:
Collection date: 8/29/17	Collection time: 0914
Location: 2A	Method: trawl
Species: Shiner	
Specimen ID: LDW17- R2A-SS-004	
Length (mm): 118	Weight (g) 22

Modified Composite Sample Preparation Record - Unprocessed Whole fish

WG: 61523Date: 25-04-2017Chemist: DRA/DK/1/21 Contract: 4033Axs Sample ID: L28215-38Balance ID#: 3180

Sample ID	Client ID	Sample Description	Sample + Container (g)	Container (g)	Sample (g)
1 / 15	LDW17-R2A-55030	1x small silver fish	23.06	4.74	18.32
2 / 15	LDW17-R2A-55-002	1x small silver fish	23.17	3.01	20.16
3 / 15	LDW17-R2A-55-008	1x small silver fish	20.29	2.86	17.43
4 / 15	LDW17-R2A-55-005	1x small silver fish	20.69	3.07	17.62
5 / 15	LDW17-R2A-55013	1x small silver fish	18.89	2.10	16.79
6 / 15	LDW17-R2A-55019	1x small silver fish	27.36	4.40	22.96
7 / 15	LDW17-R2A-55046	1x small silver fish	23.91	4.52	19.39
8 / 15	LDW17-R2A-55054	1x small silver fish	27.03	4.06	22.97
9 / 15	LDW17-R2A-55043	1x small silver fish	22.19	3.06	19.13
10 / 15	LDW17-R2A-55056	1x small silver fish	23.62	3.30	20.32
11 / 15	LDW17-R2A-55048	1x small silver fish	21.53	4.72	16.81
12 / 15	LDW17-R2A-55001	1x small silver fish	20.67	2.95	17.72
13 / 15	LDW17-R2A-55-007	1x small silver fish	27.11	3.74	23.37
14 / 15	LDW17-R2A-55041	1x small silver fish	29.82	2.89	26.93
15 / 15	LDW17-R2A-55-012	1x small silver fish	20.72	2.70	18.02

Reviewed by: JCGDate: 06-NOV-2017

AXYS Analytical Services Ltd.

Modified Composite Sample Preparation Record - Whole Body Homogenization

WG: 61523Date: 25-01-2017Chemist: ORA/OK/W/GI Contract: 4033Axs Sample ID: L28215-38 Balance ID#: 3180

Sample ID	Whole Body Pre-homogenization			Whole Body - Post Homogenization		
	Jar + Sample (g)	Jar (g)	Sample (g)	Jar + Sample (g)	Jar (g)	Sample (g)
1 / 15	131.31	113.13	18.18	131.15	113.13	18.02
2 / 15	132.76	112.79	19.97	132.60	112.79	19.81
3 / 15	130.64	113.31	17.33	130.50	113.31	17.19
4 / 15	129.69	112.13	17.56	129.57	112.13	17.44
5 / 15	128.67	111.90	16.77 16.77	128.53	111.90	16.63
6 / 15	136.07	113.31	22.76	135.91	113.31	22.60
7 / 15	132.10	112.99	19.11	131.94	112.99	18.95
8 / 15	134.65	111.92	22.73	134.46	111.92	22.54
9 / 15	130.98	111.99	18.99	130.84	111.99	18.85
10 / 15	131.76	111.50	20.20	131.48	111.50	19.98
11 / 15	129.66	113.31	16.35	129.63	113.31	16.32
12 / 15	130.49	112.92	17.57	130.37	112.92	17.45
13 / 15	135.20	112.09	23.11	135.03	112.09	22.94
14 / 15	140.03	113.17	26.86	139.88	113.17	26.71
15 / 15	129.94	111.97	17.97	129.83	111.97	17.86

Portion amount to be used for whole body composite: 16.12 gReviewed by: JLGDate: 06-Nov-2017

Modified Composite Sample Preparation Record - Whole Body

WG: 61523

Date: 25-Oct-2017

Chemist: DRA/OK/WGI

Contract: 4033

Axys Sample ID: L28215-38

Balance ID#: 3180

Portioning for Composite

Sample ID	Jar + Sample before subsample taken (g)	Jar + Sample after subsample taken (g)	Sample removed from container (g)	Direct Weight of portion (g)
1 / 15	131.15	114.88	16.27	16.12
2 / 15	132.60	116.34	16.26	16.13
3 / 15	130.50	114.28	16.22	16.13
4 / 15	129.57	113.41	16.16	16.13
5 / 15	128.53	112.30	16.23	16.12
6 / 15	135.91	119.39	16.52	16.12
7 / 15	131.94	115.81	16.13	16.12
8 / 15	134.46	118.24	16.22	16.13
9 / 15	130.84	114.64	16.20	16.12
10 / 15	131.48	115.26	16.22	16.12
11 / 15	129.63	113.41	16.22	16.12
12 / 15	130.37	114.11	16.26	16.13
13 / 15	135.03	118.78	16.25	16.13
14 / 15	139.88	123.69	16.19	16.12
15 / 15	129.83	113.70 113.70	16.13	16.13

25-Oct-2017
DRA

Composite

Sample ID	Pre-Homogenization			Post Homogenization		
	Jar + Sample (g)	Jar (g)	Sample (g)	Jar + Sample (g)	Jar (g)	Sample (g)
L28215-38	418.51	176.81	241.70	418.38	176.81	241.57

Subsamples

Subsamples	Portion weight (g)
SUBS 1	42.27
SUBS 2	100.57
SUBS 3	
SUBS 4	4.14
SUBS 5	94.31

25-Oct-2017
DRA

Reviewed by: JLG

Date: 06-Nov-2017

Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: NM
Collection date: 8/29/17	Collection time: 0914
Location: 2A	Method: trawl
Species: Shiner	
Specimen ID: LDW17-R2A-SS030	
Length (mm): 117	Weight (g) 26

2 Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler:
Collection date: 8/29/17	Collection time: 0914
Location: 2A	Method: trawl
Species: Shiner	
Specimen ID: LDW17-R2A-SS-002	
Length (mm): 123	Weight (g) 26

3 Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler:
Collection date: 8/29/17	Collection time: 0914
Location: 2A	Method: trawl
Species: Shiner	
Specimen ID: LDW17-R2A-SS-008	
Length (mm): 115	Weight (g) 18

4 Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler:
Collection date: 8/29/17	Collection time: 0914
Location: 2A	Method: trawl
Species: Shiner	
Specimen ID: LDW17-R2A-SS-005	
Length (mm): 115	Weight (g) 20

5 Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler:
Collection date: 8/29/17	Collection time: 0914
Location: 2A	Method: trawl
Species: Shiner	
Specimen ID: LDW17-R2A-SS013	
Length (mm): 112	Weight (g) 16

6 Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: NM
Collection date: 8/29/17	Collection time: 0914
Location: 2A	Method: trawl
Species: Shiner	
Specimen ID: LDW17-R2A-SS019	
Length (mm): 128	Weight (g) 34

7 Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: NM 1015
Collection date: 8/29/17	Collection time: 0914
Location: 2A	Method: trawl
Species: Shiner	
Specimen ID: LDW17-R2A-SS046	
Length (mm): 120	Weight (g) 16

8 Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: NM 1015
Collection date: 8/29/17	Collection time: 0914
Location: 2A	Method: trawl
Species: shiner	
Specimen ID: LDW17-R2A-SS054	
Length (mm): 120	Weight (g) 26

9 Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: NM 1015
Collection date: 8/29/17	Collection time: 0914
Location: 2A	Method: trawl
Species: shiner	
Specimen ID: LDW17-R2A-SS043	
Length (mm): 125	Weight (g) 18

10 Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: KM 1015
Collection date: 8/29/17	Collection time: 0914
Location: 2A	Method: trawl
Species: shiner	
Specimen ID: LDW17-R2A-SS056	
Length (mm): 120	Weight (g) 26

11 Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: KM 1015
Collection date: 8/29/17	Collection time: 0914
Location: 2A	Method: trawl
Species: shiner	
Specimen ID: LDW17-R2A-SS048	
Length (mm): 121	Weight (g) 10

12 Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler:
Collection date: 8/29/17	Collection time: 0914
Location: 2A	Method: trawl
Species: shiner	
Specimen ID: LDW17-R2A-SS-001	
Length (mm): 121	Weight (g) 18

13 Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler:
Collection date: 8/29/17	Collection time: 0914
Location: 2A	Method: trawl
Species: shiner	
Specimen ID: LDW17-R2A-SS-007	
Length (mm): 124	Weight (g) 24

14 Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: NM 1015
Collection date: 8/29/17	Collection time: 0914
Location: 2A	Method: trawl
Species: shiner	
Specimen ID: LDW17-R2A-SS041	
Length (mm): 125	Weight (g) 28

15 Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler:
Collection date: 0829/17	Collection time: 914
Location: 2A	Method: trawl
Species: shiner	
Specimen ID: LDW17-R2A-SS-012	
Length (mm): 115	Weight (g) 22

Modified Composite Sample Preparation Record - Unprocessed Whole fish

WG: 61523Date: 25-Oct-2017Chemist: DRA/CA/W/61 Contract: 4033Axs Sample ID: L28215-39Balance ID#: 3120

Sample ID	Client ID	Sample Description	Sample + Container (g)	Container (g)	Sample (g)
1 / 15	LOW17-R2B-53118	1x small silver fish	12.24	3.27	8.97
2 / 15	LOW17-R2B-53112	1x small silver fish	17.18	3.94	13.24
3 / 15	LOW17-R2B-53080 25-Oct-2017 ORA	1x small silver fish	22.81	3.41	19.40
4 / 15	LOW17-R2B-53076	1x small silver fish	14.19	3.74	10.45
5 / 15	LOW17-R2B-53066	1x small silver fish	19.59	4.44	15.15
6 / 15	LOW17-R2B-53119	1x small silver fish	14.58	3.45	11.13
7 / 15	LOW17-R2B-53093	1x small silver fish	19.25	3.00	16.25
8 / 15	LOW17-R2B-53071	1x small silver fish	17.47	3.47	14.00
9 / 15	LOW17-R2B-53104	1x small silver fish	20.24	2.32	17.92
10 / 15	LOW17-R2B-53096	1x small silver fish	25.31	3.63	21.68
11 / 15	LOW17-R2B-53106	1x small silver fish	23.02	3.49	19.53
12 / 15	LOW17-R2B-53109	1x small silver fish	17.61	5.20	12.41
13 / 15	LOW17-R2B-53064	1x small silver fish	13.93	3.09	10.84
14 / 15	LOW17-R2B-53062	1x small silver fish	29.99	4.03	25.96
15 / 15	LOW17-R2B-53098	1x small silver fish	16.46	3.97	12.49

Reviewed by: JLGDate: 06-NOV-2017

AXYS Analytical Services Ltd.

Modified Composite Sample Preparation Record - Whole Body Homogenization

WG: 61523Date: 25-Oct-2017Chemist: ORA/CA/11/1 Contract: 4033Axys Sample ID: L28215-39 Balance ID#: 3120

Sample ID	Whole Body Pre-homogenization			Whole Body - Post Homogenization		
	Jar + Sample (g)	Jar (g)	Sample (g)	Jar + Sample (g)	Jar (g)	Sample (g)
1 / 15	120.91	112.20	8.71	120.91	112.20	8.71
2 / 15	124.70	111.91	12.85	124.70	111.91	12.79
3 / 15	131.25	112.16	19.09	131.11	112.16	18.95
4 / 15	123.43	113.30	10.13	123.36	113.30	10.06
5 / 15	128.03	113.23	14.80	127.94	113.23	14.71
6 / 15	123.22	112.40	10.82	123.16	112.40	10.76
7 / 15	128.21	112.12	16.09	128.14	112.12	16.02
8 / 15	125.60	111.80	13.80	125.51	111.80	13.71
9 / 15	131.18	113.38	17.80	131.07	113.38	17.69
10 / 15	133.26	112.08	21.18	133.16	112.08	21.08
11 / 15	132.65	113.24	19.41	132.50	113.24	19.26
12 / 15	125.50	113.54	11.96	125.38	113.54	11.84
13 / 15	123.95	113.40	10.55	123.84	113.40	10.44
14 / 15	138.24	112.42	25.82	138.09	112.42	25.67
15 / 15	125.21	112.84	12.37	125.13	112.84	12.29

Portion amount to be used for whole body composite: 8.55 gReviewed by: TGDate: 08-NOV-2017

AXYS Analytical Services Ltd.

Modified Composite Sample Preparation Record - Whole Body

WG: 61523Date: 25-Oct-2017Chemist: OPA/CH/Mgr Contract: 4033Axys Sample ID: L28215-39Balance ID#: 3120

Portioning for Composite

Sample ID	Jar + Sample before subsample taken (g)	Jar + Sample after subsample taken (g)	Sample removed from container (g)	Direct Weight of portion (g)
1 / 15	120.91	112.31	8.60	8.55
2 / 15	124.70	116.01	8.69	8.55
3 / 15	131.11	122.53	8.58	8.55
4 / 15	123.36	114.77	8.59	8.55
5 / 15	127.94	119.29	8.65	8.55
6 / 15	123.16	114.55	8.61	8.55
7 / 15	128.14	119.49	8.65	8.55
8 / 15	125.51	116.94	8.57	8.55
9 / 15	131.07	122.44	8.63	8.55
10 / 15	133.16	124.56	8.60	8.56
11 / 15	132.50	123.91	8.59	8.55
12 / 15	125.38	116.78	8.60	8.56
13 / 15	123.84	115.12	8.72	8.56
14 / 15	138.09	129.50	8.59	8.56
15 / 15	125.13	116.50	8.63	8.56

Composite

Sample ID	Pre-Homogenization			Post Homogenization		
	Jar + Sample (g)	Jar (g)	Sample (g)	Jar + Sample (g)	Jar (g)	Sample (g)
L28215-39	306.28	177.97	128.31	306.16	177.97	128.19

Subsamples

Subsamples	Portion weight (g)
SUBS 1	40.13
SUBS 2	50.63
SUBS 3	NIL
SUBS 4	4.66
SUBS 5	32.50

Reviewed by: JLGDate: 26-Nov-2017

9 Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: <i>KM</i>
Collection date: <i>8/29/17</i>	Collection time: <i>1127</i>
Location: <i>ZB</i>	Method: <i>trawl</i>
Species: <i>shiner</i>	
Specimen ID: LDW17- <i>R2B-SS104</i>	
Length (mm): <i>112</i>	Weight (g) <i>20</i>

10 Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: <i>KM</i>
Collection date: <i>8/29/17</i>	Collection time: <i>1127</i>
Location: <i>ZB</i>	Method: <i>trawl</i>
Species: <i>shiner</i>	
Specimen ID: LDW17- <i>R2B-SS096</i>	
Length (mm): <i>124</i>	Weight (g) <i>24</i>

11 Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: <i>KM</i>
Collection date: <i>8/29/17</i>	Collection time: <i>1127</i>
Location: <i>ZB</i>	Method: <i>trawl</i>
Species: <i>shiner</i>	
Specimen ID: LDW17- <i>R2B-SS106</i>	
Length (mm): <i>120</i>	Weight (g) <i>22</i>

12 Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: <i>KM</i>
Collection date: <i>8/29/17</i>	Collection time: <i>1127</i>
Location: <i>ZB</i>	Method: <i>trawl</i>
Species: <i>shiner</i>	
Specimen ID: LDW17- <i>R2B-SS109</i>	
Length (mm): <i>110</i>	Weight (g) <i>16</i>

13 Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: <i>NM</i>
Collection date: <i>8/29/17</i>	Collection time: <i>1100</i>
Location: <i>ZB</i>	Method: <i>trawl</i>
Species: <i>Shiner</i>	
Specimen ID: LDW17- <i>R2B-SS064</i>	
Length (mm): <i>100</i>	Weight (g) <i>14</i>

14 Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: <i>NM</i>
Collection date: <i>8/29/17</i>	Collection time: <i>1100</i>
Location: <i>ZB</i>	Method: <i>trawl</i>
Species: <i>Shiner</i>	
Specimen ID: LDW17- <i>R2B-SS062</i>	
Length (mm): <i>128</i>	Weight (g) <i>30</i>

15 Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: <i>KM</i>
Collection date: <i>8/29/17</i>	Collection time: <i>1127</i>
Location: <i>ZB</i>	Method: <i>trawl</i>
Species: <i>shiner</i>	
Specimen ID: LDW17- <i>R2B-SS098</i>	
Length (mm): <i>105</i>	Weight (g) <i>14</i>

1 Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: <i>KM</i>
Collection date: <i>8/29/17</i>	Collection time: <i>1127</i>
Location: <i>ZB</i>	Method: <i>trawl</i>
Species: <i>Shiner</i>	
Specimen ID: <i>LDW17-R2B-SS118</i>	
Length (mm): <i>98</i>	Weight (g) <i>14</i>

2 Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: <i>KM</i>
Collection date: <i>8/29/17</i>	Collection time: <i>1127</i>
Location: <i>ZB</i>	Method: <i>trawl</i>
Species: <i>shiner</i>	
Specimen ID: <i>LDW17-R2B-SS112</i>	
Length (mm): <i>106</i>	Weight (g) <i>18</i>

3 Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: <i>KM</i>
Collection date: <i>8/29/17</i>	Collection time: <i>1100</i>
Location: <i>ZB</i>	Method: <i>trawl</i>
Species: <i>Shiner</i>	
Specimen ID: <i>LDW17-R2B-SS-080</i>	
Length (mm): <i>123</i>	Weight (g) <i>26</i>

4 Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: <i>KM</i>
Collection date: <i>8/29/17</i>	Collection time: <i>1100</i>
Location: <i>ZB</i>	Method: <i>trawl</i>
Species: <i>Shiner</i>	
Specimen ID: <i>LDW17-R2B-SS076</i>	
Length (mm): <i>102</i>	Weight (g) <i>14</i>

5 Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: <i>NM</i>
Collection date: <i>8/29/17</i>	Collection time: <i>1100</i>
Location: <i>ZB</i>	Method: <i>trawl</i>
Species: <i>Shiner</i>	
Specimen ID: <i>LDW17-R2B-SS066</i>	
Length (mm): <i>110</i>	Weight (g) 18 <i>22</i>

6 Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: <i>KM</i>
Collection date: <i>8/29/17</i>	Collection time: <i>1127</i>
Location: <i>ZB</i>	Method: <i>trawl</i>
Species: <i>Shiner</i>	
Specimen ID: <i>LDW17-R2B-SS119</i>	
Length (mm): <i>102</i>	Weight (g) <i>14</i>

7 Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: <i>KM</i>
Collection date: <i>8/29/17</i>	Collection time: <i>1127</i>
Location: <i>ZB</i>	Method: <i>trawl</i>
Species: <i>Shiner</i>	
Specimen ID: <i>LDW17-R2B-SS093</i>	
Length (mm): <i>108</i>	Weight (g) <i>18</i>

8 Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: <i>NM</i>
Collection date: <i>8/29/17</i>	Collection time: <i>1100</i>
Location: <i>ZB</i>	Method: <i>trawl</i>
Species: <i>Shiner</i>	
Specimen ID: <i>LDW17-R2B-SS071</i>	
Length (mm): <i>115</i>	Weight (g) <i>20</i>

Modified Composite Sample Preparation Record - Carcass fish

WG: 61534Date: 25-oct-2017Chemist: ORA/CH Contract: 4033Axys Sample ID: L28258-1Balance ID#: 3120

Sample ID	Client ID	Sample Description	Sample + Container (g)	Container (g)	Sample (g)
1/10	LDW17-R1-ES045	1x gray/brown flat fish carcass	226.37	180.78	45.59
2/10	LDW17-R1-ES087	1x gray/brown flat fish carcass	467.07	329.19	137.88
3/10	LDW17-R1-ES142	1x brown flat fish carcass	444.62	328.78	115.84
4/10	LDW17-R1-ES090	1x brown flat fish carcass	262.72	180.86	81.86
5/10	LDW17-R1-ES103	1x brown flat fish carcass	243.40	181.24	62.16
6/10	LDW17-R1-ES130	1x brown flat fish carcass	245.82	180.66	65.16
7/10	LDW17-R1-ES098	1x brown flat fish carcass	288.25	176.09	112.16
8/10	LDW17-R1-ES122	1x brown flat fish carcass	272.16	175.09	97.07
9/10	LDW17-R1-ES110	1x brown flat fish carcass	251.90	178.50	73.40
10/10	LDW17-R1-ES084	1x brown flat fish carcass	501.26	329.41	171.85

Reviewed by: JHGDate: 03-NOV-2017

AXYS Analytical Services Ltd.

Modified Composite Sample Preparation Record - Carcass Homogenization

WG: ^{ORA-25-oct-2017} ~~61527~~ 61534 Date: 25-oct-2017 Chemist: CU/ORA Contract: 4033

Axys Sample ID: L 28 258-1 Balance ID#: 3120

Sample ID	Carcass - Pre-homogenization			Carcass - Post Homogenization		
	Jar + Sample (g)	Jar (g)	Sample (g)	Jar + Sample (g)	Jar (g)	Sample (g)
1 / 10	226.37	180.78	45.59	223.95	180.78	43.17
2 / 10	467.07	329.19	137.88	437.01	329.19	107.82
3 / 10	444.62	328.78	115.84	423.39	328.78	94.61
4 / 10	262.72	180.86	81.86	260.08	180.86	79.22
5 / 10	243.40	181.24	62.16	241.58	181.24	60.34
6 / 10	245.82	180.66	65.16	244.55	180.66	63.89
7 / 10	288.25	176.09	112.16	269.61	176.09	93.52
8 / 10	272.16	175.09	97.07	258.72	^{25-oct-2017} 175.09 ORA 175.09	83.63
9 / 10	251.90	178.50	73.40	250.21	178.50	71.71
10 / 10	501.26	329.41	171.85	472.44	329.41	143.03

Portion amount to be used for carcass composite: 41.96 g

Reviewed by: JLG Date: 03-NOV-2017

Modified Composite Sample Preparation Record - Carcasse Composite + Subsample

WG: 61534Date: 25 OCT 2017Chemist: CA/DRAContract: 4033Axys Sample ID: L28258-1Balance ID#: 3120

Portioning for Composite

Sample ID	Jar + Sample before subsample taken (g)	Jar + Sample after subsample taken (g)	Sample removed from container (g)	Direct Weight of portion (g)
1 / 10	223.95	181.67	42.28	41.96
2 / 10	437.01	394.90	42.11	41.96
3 / 10	423.39	381.33	42.06	41.96
4 / 10	260.08	217.72	42.36	41.96
5 / 10	241.58	199.49	42.09	41.96
6 / 10	244.55	202.53	42.02	41.96
7 / 10	269.61	227.42	42.19	41.97
8 / 10	258.72	216.49	42.23	41.96
9 / 10	250.21	208.15	42.06	41.97
10 / 10	472.44	430.02	42.42	41.97

Composite

Sample ID	Pre-Homogenization			Post Homogenization		
	Jar + Sample (g)	Jar (g)	Sample (g)	Jar + Sample (g)	Jar (g)	Sample (g)
L28258-1	729.71	310.12	419.59	729.53	310.12	419.41

Subsamples

Subsamples	Portion weight (g)
SUBS 1	42.10
SUBS 2	100.10
SUBS 3	11.10
SUBS 4	5.29
SUBS 5	255.38

Reviewed by: JLGDate: 03-NOV-2017

Modified Composite Sample Preparation Record - Carcass fish

WG: 61534Date: 26-Oct-2017Chemist: DBA/OAContract: 4033Axys Sample ID: L28258-2Balance ID#: 3120

Sample ID	Client ID	Sample Description	Sample + Container (g)	Container (g)	Sample (g)
1 / 10	LDW17-R1-ES121	1x flat brown fish carcass	262.39	179.77	82.62
2 / 10	LDW17-R1-ES096	1x flat brown fish carcass	231.11	178.99	52.12
3 / 10	LDW17-R1-ES131	1x flat brown fish carcass	280.67	179.08	101.59
4 / 10	LDW17-R1-ES094	1x flat brown fish ^{26-Oct-2017} carcass _{carcass}	274.99	179.19	95.80
5 / 10	LDW17-R1-ES071	1x flat brown fish carcass	232.98	178.64	54.34
6 / 10	LDW17-R1-ES111	1x flat brown fish carcass	290.86	179.32	111.54
7 / 10	LDW17-R1-ES139	1x flat brown fish carcass	280.10	179.55	100.55
8 / 10	LDW17-R1-ES100	1x flat brown fish carcass	296.49	179.72	116.77
9 / 10	LDW17-R1-ES132	1x flat brown fish carcass	235.70	179.62	56.08
10 / 10	LDW17-R1-ES102	1x flat brown fish carcass	304.00	178.71	125.29

Reviewed by: JLGDate: 03-Nov-2017

Modified Composite Sample Preparation Record - Carcass Homogenization

WG: 61534Date: 26-Oct-2017Chemist: DRA/CHContract: 4033Axys Sample ID: L28258-2 Balance ID#: 3120

Sample ID	Carcass - Pre-homogenization			Carcass - Post Homogenization		
	Jar + Sample (g)	Jar (g)	Sample (g)	Jar + Sample (g)	Jar (g)	Sample (g)
1 / 10	262.39	179.77	82.62	260.08	179.77	80.31
2 / 10	231.11	178.99	52.12	229.26	178.99	50.27
3 / 10	280.67	179.08	101.59	264.53	179.08	85.45
4 / 10	274.99	179.19	95.80	272.28	179.19	93.09
5 / 10	232.98	178.64	54.34	230.55	178.64	51.91
6 / 10	290.86	179.32	111.54	274.89	179.32	95.57
7 / 10	280.10	179.55	100.55	277.60	179.55	98.05
8 / 10	296.49	179.72	116.77	274.85	179.72	95.13
9 / 10	235.70	179.62	56.08	233.43	179.62	53.81
10 / 10	304.00	178.71	125.29	281.56	178.71	102.85

Portion amount to be used for carcass composite: 49.81 gReviewed by: JLGDate: 04 NOV 2017

AXYS Analytical Services Ltd.

Modified Composite Sample Preparation Record - Carcasse Composite + Subsample

WG: 61534Date: 26-Oct-2017Chemist: DRA/CHContract: 4033Axys Sample ID: L28258-2Balance ID#: 3120

Portioning for Composite

Sample ID	Jar + Sample before subsample taken (g)	Jar + Sample after subsample taken (g)	Sample removed from container (g)	Direct Weight of portion (g)
1 / 10	260.08	210.07	50.01	49.81
2 / 10	229.26	179.20	50.06	49.81
3 / 10	264.53	214.59	49.94	49.81
4 / 10	272.28	222.23	50.05	49.81
5 / 10	230.55	180.72	49.83	49.81
6 / 10	274.89	224.88	50.01	49.81
7 / 10	277.60	227.79	49.81	49.81
8 / 10	274.85	224.84	50.01	49.82
9 / 10	233.43	183.60	49.83	49.82
10 / 10	281.56	231.45	50.11	49.82

Composite

Sample ID	Pre-Homogenization			Post Homogenization		
	Jar + Sample (g)	Jar (g)	Sample (g)	Jar + Sample (g)	Jar (g)	Sample (g)
L28258-2	823.69	325.56	498.13	823.53	325.56	497.97 26-Oct-2017 DRA 497.97

Subsamples

Subsamples	Portion weight (g)
SUBS 1	45.20
SUBS 2	100.88
SUBS 3	10.98
SUBS 4	4.54
SUBS 5	335.84

Reviewed by: JLGDate: 04 NOV-2017

Modified Composite Sample Preparation Record - Carcass fish

WG: 61534Date: 26-Oct-2017Chemist: ORA/CH Contract: 4033Axys Sample ID: L28258-3Balance ID#: 3120

Sample ID	Client ID	Sample Description	Sample + Container (g)	Container (g)	Sample (g)
1 / 10	LDW17-R1-ES116	1x gray brown flat fish carcass	333.99	180.24	153.75
2 / 10	LDW17-R1-ES091	1x gray brown flat fish carcass	288.20	177.74	110.46
3 / 10	LDW17-R1-ES088	1x gray brown flat fish carcass	299.57	178.80	120.77
4 / 10	LDW17-R1-ES073	1x gray brown flat fish carcass	273.12	178.65	94.47
5 / 10	LDW17-R1-ES118	1x gray brown flat fish carcass	290.61	178.13	112.48
6 / 10	LDW17-R1-ES125	1x gray brown flat fish carcass	248.24	179.28	68.96
7 / 10	LDW17-R1-ES138	1x gray brown flat fish carcass	284.57	179.02	105.55
8 / 10	LDW17-R1-ES113	1x gray brown flat fish ^{26-Oct-2017} carcass ORA carcass	220.22	179.38	40.84
9 / 10	LDW17-R1-ES092	1x gray brown flat fish carcass	323.60	179.31	144.29
10 / 10	LDW17-R1-ES129	1x gray brown flat fish carcass	296.05	178.56	57.49

Reviewed by: JLGDate: 04 Nov-2017

Modified Composite Sample Preparation Record - Carcass Homogenization

WG: 61534Date: 26-Oct-2017Chemist: CA/ORAContract: 4033Axys Sample ID: L28258-3Balance ID#: 3120

Sample ID	Carcass - Pre-homogenization			Carcass - Post Homogenization		
	Jar + Sample (g)	Jar (g)	Sample (g)	Jar + Sample (g)	Jar (g)	Sample (g)
1 / 10	333.99	180.24	153.75	312.13	180.24	131.89
2 / 10	288.20	177.74	110.46	271.63	177.74	93.89
3 / 10	299.57	178.80	120.77	283.27	178.80	104.47
4 / 10	273.12	178.65	94.47	270.38	178.65	91.73
5 / 10	290.61	178.13	112.48	274.83	178.13	96.70
6 / 10	248.24	179.28	68.96	246.02	179.28	66.74
7 / 10	284.57	179.02	105.55	280.96	179.02	101.94
8 / 10	220.22	179.38	40.84	218.93	179.38	^{26-Oct-2017 ORA} 39.05 39.55
9 / 10	323.60	179.31	144.29	300.08	179.31	120.77
10 / 10	236.05	178.56	57.49	234.23	178.56	55.67

Portion amount to be used for carcass composite: 39.50 gReviewed by: JLGDate: 04-10-2017

Modified Composite Sample Preparation Record - Carcass Composite + Subsample

WG: 61534Date: 26-Oct-2017Chemist: DRA/CHContract: 4033Axs Sample ID: L28258-3Balance ID#: 3120

Portioning for Composite

Sample ID	Jar + Sample before subsample taken (g)	Jar + Sample after subsample taken (g)	Sample removed from container (g)	Direct Weight of portion (g)
1 / 10	312.13	272.47	39.66	39.53
2 / 10	271.63	232.04	39.59	39.50
3 / 10	283.27	243.66	39.61	39.50
4 / 10	270.38	230.77	39.61	39.52
5 / 10	274.83	235.28	39.55	39.50
6 / 10	246.02	206.25	39.77	39.50
7 / 10	280.96	241.15	39.81	39.50
8 / 10	218.93	179.40	39.53	39.50
9 / 10	300.08	259.90	40.18	39.50
10 / 10	234.23	194.67	39.56	39.50

Composite

Sample ID	Pre-Homogenization			Post Homogenization		
	Jar + Sample (g)	Jar (g)	Sample (g)	Jar + Sample (g)	Jar (g)	Sample (g)
L28258-3	720.45	325.45	395.00	719.77	325.45	394.32

Subsamples

Subsamples	Portion weight (g)
SUBS 1	45.06
SUBS 2	100.18
SUBS 3	10.23
SUBS 4	4.64
SUBS 5	233.40

Reviewed by: JLQDate: 04-NOV-2017

1 Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: <i>KM</i>
Collection date: <i>8/31/17</i>	Collection time: <i>1347</i>
Location: <i>1</i>	Method: <i>trawl</i>
Species: <i>English sole</i>	
Specimen ID: LDW17- <i>R1-ES116</i>	
Length (mm): <i>278</i>	Weight (g) <i>248</i>

2 Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: <i>KM</i>
Collection date: <i>8/31/17</i>	Collection time: <i>845</i>
Location: <i>1</i>	Method: <i>trawl</i>
Species: <i>English sole</i>	
Specimen ID: LDW17- <i>R1-ES091</i>	
Length (mm): <i>276</i>	Weight (g) <i>202</i>

3 Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: <i>KM</i>
Collection date: <i>8/21/17</i>	Collection time: <i>845</i>
Location: <i>1</i>	Method: <i>trawl</i>
Species: <i>English sole</i>	
Specimen ID: LDW17- <i>R1-ES088</i>	
Length (mm): <i>282</i>	Weight (g) <i>2000</i>

4 Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: <i>NM</i>
Collection date: <i>8/30/17</i>	Collection time: <i>1400</i>
Location: <i>1</i>	Method: <i>trawl</i>
Species: <i>english sole</i>	
Specimen ID: LDW17- <i>R1-ES073</i>	
Length (mm): <i>245</i>	Weight (g) <i>165</i>

5 Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: <i>KM</i>
Collection date: <i>8/31/17</i>	Collection time: <i>1347</i>
Location: <i>1</i>	Method: <i>trawl</i>
Species: <i>English sole</i>	
Specimen ID: LDW17- <i>R1-ES118</i>	
Length (mm): <i>261</i>	Weight (g) <i>190</i>

6 Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: <i>KM</i>
Collection date: <i>9/1/17</i>	Collection time: <i>0834</i>
Location: <i>1</i>	Method: <i>trawl</i>
Species: <i>English sole</i>	
Specimen ID: LDW17- <i>R1-ES125</i>	
Length (mm): <i>216</i>	Weight (g) <i>112</i>

7 Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: <i>NM</i>
Collection date:	Collection time: <i>037</i>
Location: <i>1</i>	Method: <i>trawl</i>
Species: <i>english sole</i>	
Specimen ID: LDW17- <i>R1-ES138</i>	
Length (mm): <i>251</i>	Weight (g) <i>174</i>

8 Windward Environmental LLC 200 W. Mercer St., Suite 401, Seattle, WA 98119 Tel: 206.378.1364 Fax: 206.973.3048	
Project/Task #: AOC3	Sampler: <i>KM</i>
Collection date: <i>8/31/17</i>	Collection time: <i>1347</i>
Location: <i>1</i>	Method: <i>trawl</i>
Species: <i>English sole</i>	
Specimen ID: LDW17- <i>R1-ES113</i>	
Length (mm): <i>194</i>	Weight (g) <i>80</i>

L28258-3

original Labels

2 of 2

9		Windward Environmental LLC	
200 W. Mercer St., Suite 401, Seattle, WA 98119			
Tel: 206.378.1364 Fax: 206.973.3048			
Project/Task #: AOC3		Sampler: KM	
Collection date: 8/31/17		Collection time: 0845	
Location: 1		Method: trawl	
Species: English sole			
Specimen ID: LDW17-R2-65092			
Length (mm): 284		Weight (g) 238	

10		Windward Environmental LLC	
200 W. Mercer St., Suite 401, Seattle, WA 98119			
Tel: 206.378.1364 Fax: 206.973.3048			
Project/Task #: AOC3		Sampler: NM	
Collection date: 9/1/17		Collection time: 0834	
Location: 1		Method: trawl	
Species: english sole			
Specimen ID: LDW17-R1-ES129			
Length (mm): 212		Weight (g) 110	

Modified Composite Sample Preparation Record - Carcass fish

WG: 61534Date: 26 OCT 2017Chemist: W/GI KA/RS Contract: 4033Axs Sample ID: L28258-4Balance ID#: 3120

Sample ID	Client ID	Sample Description	Sample + Container (g)	Container (g)	Sample (g)
1/10	LDW17 - R1 - E5099	1x flat brown fish carcass	230.95	177.63	53.32
2/10	LDW17 - R1 - E5141	1x brown flat fish carcass	227.13	178.60	48.53
3/10	LDW17 - R1 - E5124	1x brown flat fish carcass	263.08	179.56	83.52
4/10	LDW17 - R1 - E5080	1x brown flat fish carcass	530.54	328.37	202.17
5/10	LDW17 - R1 - E5128	1x brown flat fish carcass	258.57	178.22	80.35
6/10	LDW17 - R1 - E5101	1x brown flat fish carcass	218.57	178.17	40.40
7/10	LDW17 - R1 - E5108	1x brown flat fish carcass	608.33	325.94 178.60 260.79	282.39
8/10	LDW17 - R1 - E5117	1x brown flat fish carcass	274.95	178.65	96.30
9/10	LDW17 - R1 - E5093	1x brown flat fish carcass	262.27	179.12	83.15
10/10	LDW17 - R1 - E5086	1x brown flat fish carcass	252.38	177.24 330.00 260.79	75.14

Reviewed by: JLGDate: 04-NOV-2017

Modified Composite Sample Preparation Record - Carcass Homogenization

WG: 61534Date: 26 OCT 2017Chemist: CH/ORAContract: 4033Axys Sample ID: L25258-4Balance ID#: 3120

Sample ID	Carcass - Pre-homogenization			Carcass - Post Homogenization		
	Jar + Sample (g)	Jar (g)	Sample (g)	Jar + Sample (g)	Jar (g)	Sample (g)
1 / 10	230.95	177.63	53.32	229.47	177.63	51.84
2 / 10	227.13	178.60	48.53	225.74	178.60	47.14
3 / 10	263.08	179.56	83.52	260.65	179.56	81.09
4 / 10	530.54	328.37	202.17	486.66	328.37	158.29
5 / 10	258.57	178.22	80.35	256.39	178.22	78.17
6 / 10	218.57	178.17	40.40	217.13	178.17	38.96
7 / 10	608.33	178.60 325.94 26-OCT-2017 ORA	282.39	561.41	178.60 325.94 26-OCT-2017 ORA	235.47
8 / 10	274.95	178.65	96.30	258.96	178.65	80.31
9 / 10	262.27	179.12	83.15	260.83	179.12	81.71
10 / 10	252.38	330.03 177.24 26-OCT-2017 ORA	75.14	238.71	330.03 177.24 26-OCT-2017 ORA	61.47

Portion amount to be used for carcass composite: 38.52 gReviewed by: JUGDate: 04-NOV-2017

Modified Composite Sample Preparation Record - Carcass Composite + Subsample

WG: 61534

Date: 26 OCT 2017

Chemist: w/er / CM / ORA Contract: 4033

Axys Sample ID: L28258-4

Balance ID#: 3120

Portioning for Composite

Sample ID	Jar + Sample before subsample taken (g)	Jar + Sample after subsample taken (g)	Sample removed from container (g)	Direct Weight of portion (g)
1/10	229.47	190.75	38.72	38.54
2/10	225.74	187.10	38.64	38.53
3/10	260.65	221.94	38.71	38.52
4/10	486.66	447.79	38.87	38.55
5/10	256.39	218.00 217.80	38.59	38.53
6/10	217.13	178.38	38.75	38.52
7/10	561.41	522.62	38.79	38.54
8/10	258.96	220.35	38.61	38.54
9/10	260.83	222.00 222.22	38.61	38.52
10/10	238.71	200.16	38.55	38.55

Composite

Sample ID	Pre-Homogenization			Post Homogenization		
	Jar + Sample (g)	Jar (g)	Sample (g)	Jar + Sample (g)	Jar (g)	Sample (g)
L28258-4	711.55	326.23	385.32	710.88	326.23	384.65

Subsamples

Subsamples	Portion weight (g)
SUBS 1	45.34
SUBS 2	100.32
SUBS 3	
SUBS 4	4.58
SUBS 5	234.18

26-oct-2017
ORA

Reviewed by: JLG

Date: 04-NOV-2017

SGS AXYS Analytical Services Ltd.

Tissue Sample Preparation Record

WG: WG61534

Date: 25 Oct 2017

Chemist: CA

Contract: 4033

Sample ID	Sample type	Discard excess tissue	Grinder	Equipment used:
L28258-1	<input type="checkbox"/> whole body <input type="checkbox"/> fillet	<input checked="" type="checkbox"/> yes <input type="checkbox"/> no	<input type="checkbox"/> GO4 <input type="checkbox"/> GO5 <input type="checkbox"/> GO6 <input type="checkbox"/> GO7	<input type="checkbox"/> spatula <input checked="" type="checkbox"/> scissors <input type="checkbox"/> forceps <input type="checkbox"/> scalpel
CA	<input checked="" type="checkbox"/> other carcass	Filletted/Dissected	Blender	<input checked="" type="checkbox"/> spoon <input type="checkbox"/> shears <input type="checkbox"/> knife
		<input type="checkbox"/> yes <input checked="" type="checkbox"/> no	<input type="checkbox"/> Virtis large bla <input type="checkbox"/> Virtis stator	<input type="checkbox"/> stainless steel bowl
Protocol Followed	<input type="checkbox"/> TOC <input checked="" type="checkbox"/> PFOS	<input checked="" type="checkbox"/> Metals <input checked="" type="checkbox"/> routine organics	<input type="checkbox"/> Omni Mixer	<input type="checkbox"/> other
L28258-2	<input type="checkbox"/> whole body <input type="checkbox"/> fillet	<input checked="" type="checkbox"/> yes <input type="checkbox"/> no	<input type="checkbox"/> GO4 <input type="checkbox"/> GO5 <input type="checkbox"/> GO6 <input type="checkbox"/> GO7	<input type="checkbox"/> spatula <input checked="" type="checkbox"/> scissors <input type="checkbox"/> forceps <input type="checkbox"/> scalpel
CA	<input checked="" type="checkbox"/> other carcass	Filletted/Dissected	Blender / 17 NOV 2017 JLG	<input checked="" type="checkbox"/> spoon <input type="checkbox"/> shears <input type="checkbox"/> knife
		<input type="checkbox"/> yes <input checked="" type="checkbox"/> no	<input type="checkbox"/> Virtis large bla <input type="checkbox"/> Virtis stator	<input type="checkbox"/> stainless steel bowl
Protocol Followed	<input type="checkbox"/> TOC <input checked="" type="checkbox"/> PFOS	<input checked="" type="checkbox"/> Metals <input checked="" type="checkbox"/> routine organics	<input type="checkbox"/> Omni Mixer	<input type="checkbox"/> other
L28258-3	<input type="checkbox"/> whole body <input type="checkbox"/> fillet	<input checked="" type="checkbox"/> yes <input type="checkbox"/> no	<input type="checkbox"/> GO4 <input type="checkbox"/> GO5 <input type="checkbox"/> GO6 <input type="checkbox"/> GO7	<input type="checkbox"/> spatula <input checked="" type="checkbox"/> scissors <input type="checkbox"/> forceps <input type="checkbox"/> scalpel
CA	<input checked="" type="checkbox"/> other carcass	Filletted/Dissected	Blender	<input checked="" type="checkbox"/> spoon <input type="checkbox"/> shears <input type="checkbox"/> knife
		<input type="checkbox"/> yes <input checked="" type="checkbox"/> no	<input type="checkbox"/> Virtis large bla <input type="checkbox"/> Virtis stator	<input type="checkbox"/> stainless steel bowl
Protocol Followed	<input type="checkbox"/> TOC <input checked="" type="checkbox"/> PFOS	<input checked="" type="checkbox"/> Metals <input checked="" type="checkbox"/> routine organics	<input checked="" type="checkbox"/> Omni Mixer	<input type="checkbox"/> other
L28258-4	<input type="checkbox"/> whole body <input type="checkbox"/> fillet	<input checked="" type="checkbox"/> yes <input type="checkbox"/> no	<input type="checkbox"/> GO4 <input type="checkbox"/> GO5 <input type="checkbox"/> GO6 <input checked="" type="checkbox"/> GO7	<input type="checkbox"/> spatula <input checked="" type="checkbox"/> scissors <input type="checkbox"/> forceps <input type="checkbox"/> scalpel
CA	<input checked="" type="checkbox"/> other carcass	Filletted/Dissected	Blender	<input checked="" type="checkbox"/> spoon <input type="checkbox"/> shears <input type="checkbox"/> knife
		<input type="checkbox"/> yes <input checked="" type="checkbox"/> no	<input type="checkbox"/> Virtis large bla <input type="checkbox"/> Virtis stator	<input type="checkbox"/> stainless steel bowl
Protocol Followed	<input type="checkbox"/> TOC <input checked="" type="checkbox"/> PFOS	<input checked="" type="checkbox"/> Metals <input checked="" type="checkbox"/> routine organics	<input type="checkbox"/> Omni Mixer	<input type="checkbox"/> other
	<input type="checkbox"/> whole body <input type="checkbox"/> fillet	<input type="checkbox"/> yes <input type="checkbox"/> no	<input type="checkbox"/> GO4 <input type="checkbox"/> GO5 <input type="checkbox"/> GO6 <input type="checkbox"/> GO7	<input type="checkbox"/> spatula <input type="checkbox"/> scissors <input type="checkbox"/> forceps <input type="checkbox"/> scalpel
	<input type="checkbox"/> other	Filletted/Dissected	Blender	<input type="checkbox"/> spoon <input type="checkbox"/> shears <input type="checkbox"/> knife
		<input type="checkbox"/> yes <input type="checkbox"/> no	<input type="checkbox"/> Virtis large bla <input type="checkbox"/> Virtis stator	<input type="checkbox"/> stainless steel bowl
Protocol Followed	<input type="checkbox"/> TOC <input type="checkbox"/> PFOS	<input type="checkbox"/> Metals <input type="checkbox"/> routine organics	<input type="checkbox"/> Omni Mixer	<input type="checkbox"/> other
	<input type="checkbox"/> whole body <input type="checkbox"/> fillet	<input type="checkbox"/> yes <input type="checkbox"/> no	<input type="checkbox"/> GO4 <input type="checkbox"/> GO5 <input type="checkbox"/> GO6 <input type="checkbox"/> GO7	<input type="checkbox"/> spatula <input type="checkbox"/> scissors <input type="checkbox"/> forceps <input type="checkbox"/> scalpel
	<input type="checkbox"/> other JLG	Filletted/Dissected	Blender	<input type="checkbox"/> spoon <input type="checkbox"/> shears <input type="checkbox"/> knife
	17 NOV 2017	<input type="checkbox"/> yes <input type="checkbox"/> no	<input type="checkbox"/> Virtis large bla <input type="checkbox"/> Virtis stator	<input type="checkbox"/> stainless steel bowl
Protocol Followed	<input type="checkbox"/> TOC <input type="checkbox"/> PFOS	<input type="checkbox"/> Metals <input type="checkbox"/> routine organics	<input type="checkbox"/> Omni Mixer	<input type="checkbox"/> other

Reviewed by: JLG

Date: 17 NOV 2017

Modified Composite Sample Preparation Record - Carcass fish

WG: 6/1695 #6117 Nov 2017Date: 26 OCT 2017Chemist: CH/DRAContract: 4033Axys Sample ID: L28258-5Balance ID#: 3120

Sample ID	Client ID	Sample Description	Sample + Container (g)	Container (g)	Sample (g)
1 / 10	LDW17-R1-E5127	1x brown flat fish carcass	261.72	180.64	81.08
2 / 10	LDW17-R1-E5085	1x brown flat fish carcass	216.81	179.00	37.81
3 / 10	LDW17-R1-E5082	1x brown flat fish carcass	253.00 252 266.71	181.38	71.62
4 / 10	LDW17-R1-E5109	1x brown flat fish carcass	306.71	181.37	125.34
5 / 10	LDW17-R1-E5097	1x brown flat fish carcass	247.19	180.87	66.32
6 / 10	LDW17-R1-E5089	1x brown flat fish carcass	255.86	182.00	73.86
7 / 10	LDW17-R1-E5119	1x brown flat fish carcass	525.93	329.08	196.85
8 / 10	LDW17-R1-E5140	1x brown flat fish carcass	253.33	179.24	74.09
9 / 10	LDW17-R1-E5072	1x brown flat fish carcass	265.92	179.42	86.50
10 / 10	LDW17-R1-E5081	1x brown flat fish carcass	292.00	181.09	111.00

Reviewed by: JLGDate: 02-NOV-2017

Modified Composite Sample Preparation Record - Carcass Homogenization

 WG: 6/21695 ^{Wkt 17 Nov 2017} Date: 26 OCT 2017 Chemist: CA/OPA Contract: 4033

 Axy Sample ID: L28259-5 ^{Wkt 17 Nov 2017} Balance ID#: 3120

Sample ID	Carcass - Pre-homogenization			Carcass - Post Homogenization		
	Jar + Sample (g)	Jar (g)	Sample (g)	Jar + Sample (g)	Jar (g)	Sample (g)
1 / 10	261.72	180.64	81.08	242.74	180.64	62.10
2 / 10	216.81	179.00	37.81	215.53	179.00	36.53
3 / 10	253.00	181.38	71.62	250.11	181.38	68.73
4 / 10	306.71	181.37	125.34	284.78	181.37	103.41
5 / 10	247.19	180.87	66.32	245.59 245.59 ^{26 Oct 2017}	180.87	64.72
6 / 10	255.86	182.00	73.86	253.61	182.00	71.61
7 / 10	525.93	329.08	196.85	472.33	329.08	143.25
8 / 10	253.33	179.24	74.09	238.80	179.24	59.62
9 / 10	265.92	179.42	86.50	248.95 288.96 288.96 ^{26 Oct 2017}	179.42	69.53
10 / 10	292.09	181.09	111.00	288.96	181.09	107.87

 Portion amount to be used for carcass composite: 35.52 g

 Reviewed by: JLG

 Date: 02 NOV 2017

Modified Composite Sample Preparation Record - Carcass Composite + Subsample

WG: ~~21695~~ 61695 ^{N/A 17N⁰⁰} ₂₀₁₇

Date: 26 OCT 2017

Chemist: CA/DPA

Contract: 4033

Axs Sample ID: L28258-5

Balance ID#: 3120

Portioning for Composite

Sample ID	Jar + Sample before subsample taken (g)	Jar + Sample after subsample taken (g)	Sample removed from container (g)	Direct Weight of portion (g)
1 / 10	242.74	206.96	35.78	35.55
2 / 10	215.53	179.61	35.92	35.52
3 / 10	250.11	214.56	35.55	35.52
4 / 10	284.78	248.99	35.79	35.54
5 / 10	245.59	209.87	35.72	35.55
6 / 10	253.61	217.83	35.78	35.54
7 / 10	472.33	436.57	35.76	35.53
8 / 10	238.86	203.33	35.53	35.53
9 / 10	248.95	213.36	35.59	35.54
10 / 10	288.96	253.35	35.61	35.5653

26-OCT-2017
DPA

Composite

Sample ID	Pre-Homogenization			Post Homogenization		
	Jar + Sample (g)	Jar (g)	Sample (g)	Jar + Sample (g)	Jar (g)	Sample (g)
L28258-5	681.70	326.35	355.35	681.22	326.35	354.87

26 OCT 2017 CA

Subsamples

Subsamples	Portion weight (g)
SUBS 1	45.99
SUBS 2	100.14
SUBS 3	10.40
SUBS 4	4.50
SUBS 5	192.98

Reviewed by: JLG

Date: 02-NOV-2017

Modified Composite Sample Preparation Record - Carcass fish

WG: 61695Date: 27-Oct-2017Chemist: DRAContract: 4033Axy Sample ID: L28258-6Balance ID#: 3180

Sample ID	Client ID	Sample Description	Sample + Container (g)	Container (g)	Sample (g)
1 / 10	LDW17 - RI-ES136	1x brown flat fish carcass	706.02	326.31	379.71
2 / 10	LDW17 - RI-ES133	1x brown flat fish carcass	242.02	178.22	63.80
3 / 10	LDW17 - RI-ES137	1x brown flat fish carcass	216.64	177.22	39.42
4 / 10	LDW17 - RI-ES144	1x brown flat fish carcass	318.97	177.02	141.95
5 / 10	LDW17 - RI-ES135	1x brown flat fish carcass	240.61	177.39	63.22
6 / 10	LDW17 - RI-ES143	1x brown flat fish carcass	255.42	177.19	78.23
7 / 10	LDW17 - RI-ES123	1x brown flat fish carcass	267.05	177.48	89.57
8 / 10	LDW17 - RI-ES134	1x brown flat fish carcass	240.60	176.78	63.82
9 / 10	LDW17 - RI-ES126	1x brown flat fish carcass	250.51	177.01	73.50
10 / 10	LDW17 - RI-ES120	1x brown flat fish carcass	266.75	176.80	89.95

Reviewed by: JLGDate: 02-NOV-2017

Modified Composite Sample Preparation Record - Carcass Homogenization

WG: 61695Date: 27-Oct-2017Chemist: ORAContract: 4033Axys Sample ID: L28258-6 Balance ID#: 3180

Sample ID	Carcass - Pre-homogenization			Carcass - Post Homogenization		
	Jar + Sample (g)	Jar (g)	Sample (g)	Jar + Sample (g)	Jar (g)	Sample (g)
1 / 10	706.02	326.31	379.71	652.72	326.31	326.41
2 / 10	242.02	178.22	63.80	241.63 241.64 27-Oct-2017 ORA	178.22	63.42
3 / 10	216.64	177.22	39.42	216.32	177.22	39.10
4 / 10	318.97	177.02	141.95	294.79	177.02	117.77
5 / 10	240.61	177.39	63.22	239.91	177.39	62.52
6 / 10	255.42	177.19	78.23	254.89	177.19	77.70
7 / 10	267.05	177.48	89.57	266.12	177.48	88.64
8 / 10	240.60	176.78	63.82	239.92	176.78	63.14
9 / 10	250.51	177.01	73.50	249.66	177.01	72.65
10 / 10	266.75	176.80	89.95	266.12	176.80	89.32

Portion amount to be used for carcass composite: 37.26 gReviewed by: JLGDate: 02-NOV-2017

AXYS Analytical Services Ltd.

Modified Composite Sample Preparation Record - Carcass Composite + Subsample

WG: 61695Date: 27-Oct-2017Chemist: DRAContract: 4033Axs Sample ID: L28258-6Balance ID#: 3180

Portioning for Composite

Sample ID	Jar + Sample before subsample taken (g)	Jar + Sample after subsample taken (g)	Sample removed from container (g)	Direct Weight of portion (g)
1 / 10	652.72	615.16	37.56	37.26
2 / 10	241.64	204.22	37.42	37.27
3 / 10	216.32	178.86	37.46	37.26
4 / 10	294.79	256.95	37.84	37.27
5 / 10	239.91	202.41	37.50	37.28
6 / 10	254.89	217.35	37.54	37.27
7 / 10	266.12	228.77	37.35	37.26
8 / 10	239.92	202.66	37.26	37.26
9 / 10	249.66	212.34	37.32	37.2627 <small>27-Oct-2017 DRA</small>
10 / 10	266.12	228.84	37.28	37.28

Composite

Sample ID	Pre-Homogenization			Post Homogenization		
	Jar + Sample (g)	Jar (g)	Sample (g)	Jar + Sample (g)	Jar (g)	Sample (g)
L28258-6	698.26	325.64	372.62	697.63	325.64	371.99

27-Oct-2017
DRA

Subsamples

Subsamples	Portion weight (g)
SUBS 1	45.67
SUBS 2	100.41
SUBS 3	
SUBS 4	4.49
SUBS 5	221.16

27-Oct-2017
DRAReviewed by: JLGDate: 02-NOV-2017

Modified Composite Sample Preparation Record - Carcass fish

WG: 61695Date: 27-Oct-2017Chemist: DRAContract: 4033Axys Sample ID: L28258-7Balance ID#: 3180

Sample ID	Client ID	Sample Description	Sample + Container (g)	Container (g)	Sample (g)
1 / 10	LDW17-R2-ES030	1x flat brown fish carcass	234.40	174.41	59.99
2 / 10	LDW17-R2-ES052	1x flat brown fish carcass	561.14	325.64	235.50
3 / 10	LDW17-R2-ES014	1x flat brown fish carcass	312.19	173.74	138.45
4 / 10	LDW17-R2-ES152	1x flat brown fish carcass	645.51	326.18	319.33
5 / 10	LDW17-R2-ES007	1x flat brown fish carcass	274.55	174.10	100.45
6 / 10	LDW17-R2-ES041	1x flat brown fish carcass	254.16	177.58	76.58
7 / 10	LDW17-R2-ES058	1x flat brown fish carcass	579.59	325.80	253.79
8 / 10	LDW17-R2-ES048	1x flat brown fish carcass	261.53	173.39	88.14
9 / 10	LDW17-R2-ES068	1x flat brown fish carcass	244.82	176.01	68.81
10 / 10	LDW17-R2-ES067	1x flat brown fish carcass	264.88	174.37	90.51

Reviewed by: JLGDate: 02-NOV-2017

Modified Composite Sample Preparation Record - Carcass Homogenization

WG: 61695Date: ^{27-Oct-2017}
~~27~~ 27-Oct-2017
ORAChemist: ORAContract: 4033Axs Sample ID: L28258-7 Balance ID#: 3180

Sample ID	Carcass - Pre-homogenization			Carcass - Post Homogenization		
	Jar + Sample (g)	Jar (g)	Sample (g)	Jar + Sample (g)	Jar (g)	Sample (g)
1 / 10	234.40	174.41	59.99	^{27-Oct-2017 ORA} 6 233.93	174.41	59.52
2 / 10	561.14	325.64	235.50	540.46	325.64	214.82
3 / 10	312.19	173.74	138.45	291.18	173.74	117.44
4 / 10	645.51	326.18	319.33	619.18	326.18	^{293.00} 29.50
5 / 10	274.55	174.10	100.45	257.74	174.10	83.64
6 / 10	254.16	177.58	76.58	260.56	177.58	82.98
7 / 10	579.59	325.80	253.79	561.63	325.80	235.83
8 / 10	261.53	173.39	88.14	252.63	173.39	79.24
9 / 10	244.82	176.01	68.81	244.37	176.01	68.36
10 / 10	264.88	174.37	90.51	248.51	174.37	74.14

27-Oct-2017
ORAPortion amount to be used for carcass composite: 56.14gReviewed by: JLGDate: 02-NOV-2017

Modified Composite Sample Preparation Record - Carcass Composite + Subsample

WG: 61695Date: 27-Oct-2017Chemist: OPAContract: 4033Axs Sample ID: L28258-7Balance ID#: 3180

Portioning for Composite

Sample ID	Jar + Sample before subsample taken (g)	Jar + Sample after subsample taken (g)	Sample removed from container (g)	Direct Weight of portion (g)
1 / 10	233.93	177.45	56.48	56.14
2 / 10	540.46	483.92	56.54	56.17
3 / 10	291.18	234.75	56.43	56.18
4 / 10	619.18	562.23	56.95	56.16
5 / 10	257.74	201.24	56.50	56.14
6 / 10	260.56	204.13	56.43	56.15
7 / 10	561.63	504.89	56.74	56.14
8 / 10	252.63	196.35	56.28	56.16
9 / 10	244.37	188.08	56.29	56.17
10 / 10	248.51	192.21	56.30	56.18

Composite

Sample ID	Pre-Homogenization			Post Homogenization		
	Jar + Sample (g)	Jar (g)	Sample (g)	Jar + Sample (g)	Jar (g)	Sample (g)
L28258-7	885.24	325.34	559.90	878.92	325.34	553.58

553.58
w/g 17 Nov 2017

Subsamples

Subsamples	Portion weight (g)
SUBS 1	45.36
SUBS 2	100.71
SUBS 3	10.54
SUBS 4	4.52
SUBS 5	392.85

Reviewed by: JLGDate: 02-NOV-2017

Modified Composite Sample Preparation Record - Carcass fish

WG: WG61695Date: 30 Oct 2017Chemist: SRM/DRA Contract: 4033Axy Sample ID: L28258-8Balance ID#: 3120

Sample ID	Client ID	Sample Description	Sample + Container (g)	Container (g)	Sample (g)
1/10	LDW17-R2-ES061	1x Brown flat fish carcass	223.89	174.94	48.95
2/10	LDW17-R2-ES060	1x brown flat fish carcass	222.53	178.63	43.90
3/10	LDW17-R2-ES056	1x brown flat fish carcass	312.06	179.09	132.97
4/10	LDW17-R2-ES055	1x brown flat fish carcass	295.20	173.17	122.03
5/10	LDW17-R2-ES032	1x brown flat fish carcass	220.33	174.65	45.68
6/10	LDW17-R2-ES002	1x brown flat fish carcass	238.26	179.28	58.98
7/10	LDW17-R2-ES026	1x brown flat fish carcass	249.16	178.79	70.37
8/10	LDW17-R2-ES148	1x brown flat fish carcass	269.45	173.86	95.59
9/10	LDW17-R2-ES016	1x brown flat fish carcass	576.35	326.68	249.67
10/10	LDW17-R2-ES005	1x brown flat fish carcass	467.22	325.96	141.26

Reviewed by: JLGDate: 02-NOV-2017

Modified Composite Sample Preparation Record - Carcass Homogenization

WG: W661695Date: 30-06-2017Chemist: IPA/SRMContract: 4033Axys Sample ID: L28258-8Balance ID#: 3120

Sample ID	Carcass - Pre-homogenization			Carcass - Post Homogenization		
	Jar + Sample (g)	Jar (g)	Sample (g)	Jar + Sample (g)	Jar (g)	Sample (g)
1 / 10	223.89	174.94	48.95	223.48	174.94	48.54
2 / 10	222.53	178.63	43.90	222.17	178.63	43.54
3 / 10	312.06	179.09	132.97	311.28	179.09	132.19
4 / 10	295.20	173.17	122.03	294.51	173.17	121.34
5 / 10	220.33	174.65	45.68	220.04	174.65	45.39
6 / 10	238.26	179.28	58.98	237.71	179.28	58.43
7 / 10	249.16	178.79	70.37	248.66	178.79	69.87
8 / 10	269.45	173.86	95.59	267.97	173.86	94.11
9 / 10	576.35	326.68	249.67	527.98	326.68	201.30
10 / 10	467.22	325.96	141.26	440.22	325.96	114.26

Portion amount to be used for carcass composite: 41.35 gReviewed by: JLGDate: 02 NOV 2017

Modified Composite Sample Preparation Record - Carcass Composite + Subsample

WG: W661695

Date: 30-Oct-2017

Chemist: DRA/WGI ^{For SRM 17 Nov 2017} Contract: 4033

Axys Sample ID: L28258-8

Balance ID#: 3120

Portioning for Composite

Sample ID	Jar + Sample before subsample taken (g)	Jar + Sample after subsample taken (g)	Sample removed from container (g)	Direct Weight of portion (g)
1 / 10	223.48	181.64	41.84	41.35
2 / 10	222.17	180.855 ^{30-Oct-2017 DRA}	41.62	41.35
3 / 10	311.28	268.56	42.72	41.35 ^{30-Oct-2017 DRA} 41.35
4 / 10	294.51	252.55	41.96	41.36
5 / 10	220.04	178.68	41.36	41.36
6 / 10	237.71	196.00	41.71	41.36
7 / 10	248.66	207.17	41.49	41.37
8 / 10	267.97	226.38	41.59	41.35
9 / 10	527.98	486.45	41.53	41.36
10 / 10	440.22	397.37	42.85	41.36

Composite

Sample ID	Pre-Homogenization			Post Homogenization		
	Jar + Sample (g)	Jar (g)	Sample (g)	Jar + Sample (g)	Jar (g)	Sample (g)
L28258-8	739.94	326.46	413.48	739.39	326.46	412.93

Subsamples

Subsamples	Portion weight (g)
SUBS 1	42.52
SUBS 2	100.15
SUBS 3	
SUBS 4	4.81
SUBS 5	264.48

30-Oct-2017
DRA

Reviewed by: JLG

Date: 02-NOV-2017

Tissue Sample Preparation Record

WG: WG61695

Date: 26 OCT 2017

Chemist: W/G

Contract: 4033

Sample ID L28258-5	Sample type <input type="checkbox"/> whole body <input type="checkbox"/> fillet <input checked="" type="checkbox"/> other <i>CarCASS</i>	Discard excess tissue <input checked="" type="checkbox"/> yes <input checked="" type="checkbox"/> no <i>W/G 17 Nov 2017</i>	Grinder <input type="checkbox"/> GO4 <input type="checkbox"/> GO5 <input type="checkbox"/> GO6 <input type="checkbox"/> GO7 Blender <input type="checkbox"/> Virtis large bla <input type="checkbox"/> Virtis stator <input type="checkbox"/> Omni Mixer	Equipment used: <input type="checkbox"/> spatula <input checked="" type="checkbox"/> scissors <input type="checkbox"/> forceps <input type="checkbox"/> scalpel <input checked="" type="checkbox"/> spoon <input type="checkbox"/> shears <input type="checkbox"/> knife <input type="checkbox"/> stainless steel bowl <input type="checkbox"/> other
Protocol Followed	<input type="checkbox"/> TOC <input checked="" type="checkbox"/> PFOS <input checked="" type="checkbox"/> Metals <input checked="" type="checkbox"/> routine organics			
Sample ID L28258-6	Sample type <input type="checkbox"/> whole body <input type="checkbox"/> fillet <input checked="" type="checkbox"/> other <i>CarCASS</i>	Discard excess tissue <input checked="" type="checkbox"/> yes <input checked="" type="checkbox"/> no <i>W/G 17 Nov 2017</i>	Grinder <input type="checkbox"/> GO4 <input type="checkbox"/> GO5 <input type="checkbox"/> GO6 <input type="checkbox"/> GO7 Blender <input type="checkbox"/> Virtis large bla <input type="checkbox"/> Virtis stator <input type="checkbox"/> Omni Mixer	Equipment used: <input type="checkbox"/> spatula <input checked="" type="checkbox"/> scissors <input type="checkbox"/> forceps <input type="checkbox"/> scalpel <input checked="" type="checkbox"/> spoon <input type="checkbox"/> shears <input type="checkbox"/> knife <input type="checkbox"/> stainless steel bowl <input type="checkbox"/> other
Protocol Followed	<input type="checkbox"/> TOC <input checked="" type="checkbox"/> PFOS <input checked="" type="checkbox"/> Metals <input checked="" type="checkbox"/> routine organics			
Sample ID L28258-7	Sample type <input type="checkbox"/> whole body <input type="checkbox"/> fillet <input checked="" type="checkbox"/> other <i>CarCASS</i>	Discard excess tissue <input checked="" type="checkbox"/> yes <input type="checkbox"/> no	Grinder <input type="checkbox"/> GO4 <input checked="" type="checkbox"/> GO5 <input type="checkbox"/> GO6 <input type="checkbox"/> GO7 Blender <input type="checkbox"/> Virtis large bla <input type="checkbox"/> Virtis stator <input type="checkbox"/> Omni Mixer	Equipment used: <input type="checkbox"/> spatula <input checked="" type="checkbox"/> scissors <input type="checkbox"/> forceps <input type="checkbox"/> scalpel <input checked="" type="checkbox"/> spoon <input type="checkbox"/> shears <input type="checkbox"/> knife <input type="checkbox"/> stainless steel bowl <input checked="" type="checkbox"/> other <i>foil</i>
Protocol Followed	<input type="checkbox"/> TOC <input checked="" type="checkbox"/> PFOS <input checked="" type="checkbox"/> Metals <input checked="" type="checkbox"/> routine organics			
Sample ID L28258-8	Sample type <input type="checkbox"/> whole body <input type="checkbox"/> fillet <input checked="" type="checkbox"/> other <i>CarCASS</i>	Discard excess tissue <input checked="" type="checkbox"/> yes <input type="checkbox"/> no	Grinder <input type="checkbox"/> GO4 <input type="checkbox"/> GO5 <input type="checkbox"/> GO6 <input type="checkbox"/> GO7 Blender <input type="checkbox"/> Virtis large bla <input type="checkbox"/> Virtis stator <input type="checkbox"/> Omni Mixer	Equipment used: <input type="checkbox"/> spatula <input checked="" type="checkbox"/> scissors <input type="checkbox"/> forceps <input type="checkbox"/> scalpel <input checked="" type="checkbox"/> spoon <input type="checkbox"/> shears <input type="checkbox"/> knife <input type="checkbox"/> stainless steel bowl <input type="checkbox"/> other
Protocol Followed	<input type="checkbox"/> TOC <input checked="" type="checkbox"/> PFOS <input checked="" type="checkbox"/> Metals <input checked="" type="checkbox"/> routine organics			
Sample ID	Sample type <input type="checkbox"/> whole body <input type="checkbox"/> fillet <input type="checkbox"/> other	Discard excess tissue <input type="checkbox"/> yes <input type="checkbox"/> no Filletted/Dissected <input type="checkbox"/> yes <input type="checkbox"/> no	Grinder <input type="checkbox"/> GO4 <input type="checkbox"/> GO5 <input type="checkbox"/> GO6 <input type="checkbox"/> GO7 Blender <input type="checkbox"/> Virtis large bla <input type="checkbox"/> Virtis stator <input type="checkbox"/> Omni Mixer	Equipment used: <input type="checkbox"/> spatula <input type="checkbox"/> scissors <input type="checkbox"/> forceps <input type="checkbox"/> scalpel <input type="checkbox"/> spoon <input type="checkbox"/> shears <input type="checkbox"/> knife <input type="checkbox"/> stainless steel bowl <input type="checkbox"/> other
Protocol Followed	<input type="checkbox"/> TOC <input type="checkbox"/> PFOS <input type="checkbox"/> Metals <input type="checkbox"/> routine organics		<input type="checkbox"/> Omni Mixer <i>17 NOV 2017</i>	
Sample ID	Sample type <input type="checkbox"/> whole body <input type="checkbox"/> fillet <input type="checkbox"/> other	Discard excess tissue <input type="checkbox"/> yes <input type="checkbox"/> no Filletted/Dissected <input type="checkbox"/> yes <input type="checkbox"/> no	Grinder <i>JLG</i> <input type="checkbox"/> GO4 <input type="checkbox"/> GO5 <input type="checkbox"/> GO6 <input type="checkbox"/> GO7 Blender <input type="checkbox"/> Virtis large bla <input type="checkbox"/> Virtis stator <input type="checkbox"/> Omni Mixer	Equipment used: <input type="checkbox"/> spatula <input type="checkbox"/> scissors <input type="checkbox"/> forceps <input type="checkbox"/> scalpel <input type="checkbox"/> spoon <input type="checkbox"/> shears <input type="checkbox"/> knife <input type="checkbox"/> stainless steel bowl <input type="checkbox"/> other
Protocol Followed	<input type="checkbox"/> TOC <input type="checkbox"/> PFOS <input type="checkbox"/> Metals <input type="checkbox"/> routine organics			

Reviewed by: JEG Date: 02 NOV 2017
JLG 17 NOV 2017

Modified Composite Sample Preparation Record - Carcass fish

WG: 61696Date: 30-Oct-2017Chemist: DRA/CW Contract: 4033Alys Sample ID: L28258-9Balance ID#: 3120

Sample ID	Client ID	Sample Description	Sample + Container (g)	Container (g)	Sample (g)
1/10	LDW17-R2-ES047	1x brown flat fish carcass	245.23	178.43	66.80
2/10	LDW17-R2-ES044	1x brown flat fish carcass	237.31	179.56	57.75
3/10	LDW17-R2-ES039	1x brown flat fish carcass	244.09	178.77	65.32
4/10	LDW17-R2-ES057	1x brown flat fish carcass	489.06	325.78	163.28
5/10	LDW17-R-ES147	1x brown flat fish carcass	473.03	325.16	147.87
6/10	LDW17-R2-ES034	1x brown flat fish carcass	261.42	177.84	83.58
7/10	LDW17-R2-ES018	1x brown flat fish carcass	536.66	325.67	211.59
8/10	LDW17-R2-ES022	1x brown flat fish carcass	520.36	325.67	194.69
9/10	LDW17-R2-ES019	1x brown flat fish carcass	585.04	326.62	258.42
10/10	LDW17-R2-ES035	1x brown flat fish carcass	284.23	179.18	105.05

Reviewed by: JLGDate: 16NOV2017

Modified Composite Sample Preparation Record - Carcass Homogenization

WG: 61696Date: 30-OCT-2017Chemist: DRA/CHContract: 4033Axy Sample ID: L28258-9Balance ID#: 3120

Sample ID	Carcass - Pre-homogenization			Carcass - Post Homogenization		
	Jar + Sample (g)	Jar (g)	Sample (g)	Jar + Sample (g)	Jar (g)	Sample (g)
1 / 10	245.23	178.43	66.80	244.89	178.43	66.46
2 / 10	237.31	179.56	57.75	236.99	179.56	57.43
3 / 10	244.09	178.77	65.32	243.74	178.77	64.99
4 / 10	489.06	325.78	163.28	464.31	325.78	140.53
5 / 10	473.03	325.16	147.87	439.83 473.46 31 OCT 2017 CH	325.16	114.67 148.30 31 OCT 2017 CH
6 / 10	261.42	177.84	83.58	260.70	177.84	82.86
7 / 10	536.66	325.07	211.59	490.35	325.07	165.28
8 / 10	520.36	325.67	194.69	502.10	325.67	176.43
9 / 10	585.04	326.62	258.42	550.29	326.62	223.67
10 / 10	284.23	179.18	105.05	283.57	179.18	104.39

Portion amount to be used for carcass composite: 54.47 gReviewed by: JLG.Date: 16 NOV 2017

Modified Composite Sample Preparation Record - Carcass Composite + Subsample

WG: 61696

Date: 30-Oct-2017

Chemist: DRA/CH

Contract: 4033

Axys Sample ID: L28258-9

Balance ID#: 3120

Portioning for Composite

Sample ID	Jar + Sample before subsample taken (g)	Jar + Sample after subsample taken (g)	Sample removed from container (g)	Direct Weight of portion (g)
1 / 10	294.89	190.22	54.67	54.57
2 / 10	236.99	182.01	54.98	54.57
3 / 10	243.76	189.07	54.69	54.57
4 / 10	466.31	411.59	54.72	54.57
5 / 10	439.83	385.09	54.74 <small>17 Nov 2017 CH</small>	54.57
6 / 10	260.70	206.07	54.63	54.57
7 / 10	490.35	435.61	54.74	54.57
8 / 10	502.10	446.90	55.20	54.57
9 / 10	550.29	495.19	55.10	54.57
10 / 10	283.57	228.99 228.99	54.58	54.57

31-Oct-2017 DRA

31-Oct-2017 DRA

Composite

Sample ID	Pre-Homogenization			Post Homogenization		
	Jar + Sample (g)	Jar (g)	Sample (g)	Jar + Sample (g)	Jar (g)	Sample (g)
L28258-9	870.95	325.26	545.69	866.44	325.24	541.18

Subsamples

Subsamples	Portion weight (g)
SUBS 1	42.37
SUBS 2	100.91
SUBS 3	
SUBS 4	9.44
SUBS 5	393.29

31-Oct-2017 DRA

Reviewed by: JLG

Date: 16-Nov-2017

Modified Composite Sample Preparation Record - Carcass fish

WG: 61696Date: 31 OCT 2017Chemist: WGL/CATContract: 4033Axys Sample ID: L28258-10Balance ID#: 3120

Sample ID	Client ID	Sample Description	Sample + Container (g)	Container (g)	Sample (g)
1/10	LDW17-R2-ES021	1x brown flat fish carcass	221.89	177.54	44.35
2/10	LDW17-R2-ES027	1x brown flat fish carcass	343.53	177.11	166.42
3/10	LDW17-R2-ES059	1x brown flat fish carcass	252.80	177.25	75.55
4/10	LDW17-R2-ES011	1x brown flat fish carcass	602.16	327.00	275.10
5/10	LDW17-R2-ES054	1x brown flat fish carcass	620.47	326.56	293.91
5/10 6/10	LDW17-R2-ES145	1x brown flat fish carcass	682.06	326.31	355.75
7/10	LDW17-R2-ES069	1x brown flat fish carcass	533.45	325.71	207.74
8/10	LDW17-R2-ES154 -ES154	1x brown flat fish carcass	273.98	176.60	97.38
9/10	LDW17-R2-ES146	1x brown flat fish carcass	254.99	176.61	78.38
10/10	LDW17-R2-ES042	1x brown flat fish carcass	225.84	175.84	50.00

Reviewed by: JLGDate: 16 NOV 2017

AXYS Analytical Services Ltd.

Modified Composite Sample Preparation Record - Carcass Composite + Subsample

WG: 61696Date: 31 OCT 2017Chemist: wkx/cutContract: 4033Axys Sample ID: L28258-10Balance ID#: 3120

Portioning for Composite

Sample ID	Jar + Sample before subsample taken (g)	Jar + Sample after subsample taken (g)	Sample removed from container (g)	Direct Weight of portion (g)
1/10	221.57	179.55	42.02	41.80
2/10	318.81	276.59	42.22	41.84
3/10	252.33	210.33	42.00	41.82
4/10	550.71	508.62	42.09	41.83
5/10	581.14	539.08	42.06	41.81
6/10	589.29	547.29	42.00	41.80
7/10	499.32	457.51	41.81	41.84
8/10	273.39	231.13	42.24	41.83
9/10	254.50	212.95	41.55	41.82
10/10	225.47	183.57	41.90	41.81

Composite

Sample ID	Pre-Homogenization			Post Homogenization		
	Jar + Sample (g)	Jar (g)	Sample (g)	Jar + Sample (g)	Jar (g)	Sample (g)
L28258-10	742.82	324.63	418.19	742.29	324.63	417.66

Subsamples

Subsamples	Portion weight (g)
SUBS 1	40.04
SUBS 2	100.68
SUBS 3	0
SUBS 4	4.83
SUBS 5	271.38

Reviewed by: JLGDate: 16 Nov 2017

Modified Composite Sample Preparation Record - Carcass Homogenization

WG: 611696Date: 31 OCT 2017Chemist: W/GI / CHContract: 4033Axys Sample ID: L28258-10 Balance ID#: 3120

Sample ID	Carcass - Pre-homogenization			Carcass - Post Homogenization		
	Jar + Sample (g)	Jar (g)	Sample (g)	Jar + Sample (g)	Jar (g)	Sample (g)
1/10	221.89	177.54	44.35	221.57	177.54	44.03
2/10	343.53	177.11	166.42	318.81	177.11	141.70
3/10	252.80	177.25	75.55	252.33	177.25	75.08
4/10	602.10	327.00	275.10	550.71	327.00	223.71
5/10	620.47	326.56	293.91	581.14	326.56	254.58
6/10	682.06	326.31	355.75	589.29	326.31	262.98
7/10	533.45	325.71	207.74	499.32	325.71	173.61
8/10	273.98	176.60	97.38	273.39	176.60	96.79
9/10	254.99	176.61	78.38	254.50	176.61	77.89
10/10	225.84	175.84	50.00	225.47	175.84	49.63

Portion amount to be used for carcass composite: 41.80 gReviewed by: JLGDate: 16 NOV 2017

Modified Composite Sample Preparation Record - Carcass fish

WG: 61696Date: 31-Oct-2017Chemist: DRA/CAContract: 4033Axy Sample ID: L28258-11Balance ID#: 3120

Sample ID	Client ID	Sample Description	Sample + Container (g)	Container (g)	Sample (g)
1 / 10	LDW17-R2-E5088 E5038	1x brown flat fish carcass	239.93	177.47	62.46
2 / 10	LDW17-R2-E5001	1x brown flat fish carcass	593.29	326.90	266.39
3 / 10	LDW17-R2-E5006	1x brown flat fish carcass	257.53	176.22	81.31
4 / 10	LDW17-R2-E5062	1x brown flat fish carcass	224.28	176.24	48.04
5 / 10	LDW17-R2-E5037	1x brown flat fish carcass	238.34	176.64	61.70
6 / 10	LDW17-R2-E5031	1x brown flat fish carcass	591.61	326.66	264.95
7 / 10	LDW17-R2-E5066	1x brown flat fish carcass	223.80	177.30	46.50
8 / 10	LDW17-R2-E5150	1x brown flat fish carcass	623.92	327.10	296.82
9 / 10	LDW17-R2-053	1x brown flat fish carcass	523.10	327.16	195.94
10 / 10	LDW17-R2-E5153	1x brown flat fish carcass	269.73	176.44	93.29

Reviewed by: JLGDate: 16 NOV 2017

Modified Composite Sample Preparation Record - Carcass Homogenization

WG: 61696Date: 31-01-2017Chemist: DRA/WGI/CA Contract: 4033Axys Sample ID: L28258-11Balance ID#: 3120

Sample ID	Carcass - Pre-homogenization			Carcass - Post Homogenization		
	Jar + Sample (g)	Jar (g)	Sample (g)	Jar + Sample (g)	Jar (g)	Sample (g)
1 / 10	239.93	177.47	62.46	239.64	177.47	62.17
2 / 10	593.29	326.90	266.39	547.60	326.90	220.70
3 / 10	257.53	176.22	81.31	256.83	176.22	80.61
4 / 10	224.28	176.24	48.04	223.89	176.24	47.65
5 / 10	238.34	176.64	61.70	237.93	176.64	61.29
6 / 10	591.61	326.66	264.95	548.94	326.66	222.28
7 / 10	223.80	177.30	46.50	223.58	177.30	46.28
8 / 10	623.92	327.10	296.82	570.94	327.10	243.84
9 / 10	523.10	327.16	195.94	495.58	327.16	168.42
10 / 10	269.73	176.44	93.29	269.22	176.44	92.78

Portion amount to be used for carcass composite: 44.47 gReviewed by: JLGDate: 16 NOV 2017

Modified Composite Sample Preparation Record - Carcass Composite + Subsample

WG: 61696 Date: 31-Oct-2017 Chemist: ORA/MGJ/CAT Contract: 4033
 Axs Sample ID: L28258-11 Balance ID#: 3120

Portioning for Composite

Sample ID	Jar + Sample before subsample taken (g)	Jar + Sample after subsample taken (g)	Sample removed from container (g)	Direct Weight of portion (g)
1 / 10	239.64	195.05	44.59	44.47
2 / 10	547.60	502.97	44.63	44.47
3 / 10	256.83	212.23	44.60	44.47
4 / 10	223.89	179.21	44.68	44.48
5 / 10	237.93	193.15	44.78	44.47
6 / 10	548.94	504.12	44.82	44.47
7 / 10	223.58	178.89	44.69	44.47
8 / 10	570.94	526.39 w/g 31 Oct 2017	44.55	44.47
9 / 10	495.58	450.59	44.99	44.49
10 / 10	269.22	224.76 72 31-Oct-2017 ORA	44.46 50 31-Oct-2017 ORA	44.88 48 w/g 31 Oct 2017

Composite

Sample ID	Pre-Homogenization			Post Homogenization		
	Jar + Sample (g)	Jar (g)	Sample (g)	Jar + Sample (g)	Jar (g)	Sample (g)
L28258-11	324.76 769.45 w/g 31 Oct 2017	324.76	444.69	324.76 769.12 w/g 31 Oct 2017	324.76	444.36

Subsamples

Subsamples	Portion weight (g)
SUBS 1	40.34
SUBS 2	100.23
SUBS 3	0
SUBS 4	4.55
SUBS 5	298.62

Reviewed by: JLG

Date: 16 NOV 2017

Modified Composite Sample Preparation Record - Carcass fish

WG: 61696Date: 31 OCT 2017Chemist: MGI/ORA/CH Contract: 4033Axys Sample ID: L28258-12Balance ID#: 320

Sample ID	Client ID	Sample Description	Sample + Container (g)	Container (g)	Sample (g)
1/10	LDW17-R2-ES151	1x brown flat fish carcass	304.33	179.09	125.24
2/10	LDW17-R2-ES028	1x brown flat fish carcass	247.32	177.16	70.16
3/10	LDW17-R2-ES008	1x brown flat fish carcass	273.32	176.90	96.42
4/10	LDW17-R2-ES012	1x brown flat fish carcass	252.30	176.95	75.35
5/10	LDW17-R2-ES045	1x brown flat fish carcass	221.01	176.52	44.49
6/10	LDW17-R2-ES051	1x brown flat fish carcass	511.14	54.95	456.19
7/10	LDW17-R2-ES009	1x brown flat fish carcass	239.20 238.90	176.71	62.19
8/10	LDW17-R2-ES036	1x brown flat fish carcass	257.97	176.62	81.35
9/10	LDW17-R2-ES025	1x brown flat fish carcass	237.30	176.85	60.45
10/10	LDW17-R2-ES003	1x brown flat fish carcass	253.11	177.67	75.44

31 OCT 2017

Reviewed by: JLG.Date: 16 NOV 2017

Modified Composite Sample Preparation Record - Carcass Homogenization

WG: 61696Date: 31 OCT 2017Chemist: W/GI/ORA/CA Contract: 4033Axys Sample ID: L28258-12 Balance ID#: 3120

Sample ID	Carcass - Pre-homogenization			Carcass - Post Homogenization		
	Jar + Sample (g)	Jar (g)	Sample (g)	Jar + Sample (g)	Jar (g)	Sample (g)
1/10	304.33	179.09	125.24	302.08	179.09	122.99
2/10	247.32	177.16	70.16	246.57	177.16	69.41
3/10	273.32	176.90	96.42	272.62	176.90	95.72
4/10	252.30	176.95	75.35	251.76	176.95	74.81
5/10	221.01	176.52	44.49	220.81	176.52	44.29
6/10	511.14	54.95	456.19	421.13	54.95	366.18
7/10	238.90	176.71	62.19	238.45	176.71	61.74
8/10	257.97	176.62	81.35	257.40	176.62	80.78
9/10	237.30	176.85	60.45	236.84	176.85	59.99
10/10	253.11	177.67	75.44	252.74	177.67	75.07

Portion amount to be used for carcass composite: 41.95 gReviewed by: JLGDate: 16 NOV 2017

Modified Composite Sample Preparation Record - Carcass Composite + Subsample

WG: 61696

Date: 31 OCT 2017

Chemist: W/GI/CW/ORA

Contract: 4033

Axys Sample ID: L28258-12

Balance ID#: 3120

Portioning for Composite

Sample ID	Jar + Sample before subsample taken (g)	Jar + Sample after subsample taken (g)	Sample removed from container (g)	Direct Weight of portion (g)
1/10	302.08	259.48	42.60	41.95 41.95 ^{ORA 31-01-2017}
2/10	246.57	204.55	42.02	41.98
3/10	272.62	230.52	42.08 42.10 ^{ORA 17 Nov 2017}	41.96
4/10	251.76	207.76	44.00	41.95
5/10	220.81	178.58	42.23	41.95
6/10	421.13	377.28	43.85	41.96
7/10	238.45	196.60-44 ^{31-01-2017 ORA}	42.01	41.97
8/10	257.40	215.39	42.01	41.98
9/10	236.84	194.79	42.05	41.97
10/10	252.74	210.58	42.16	41.96

Composite

Sample ID	Pre-Homogenization			Post Homogenization		
	Jar + Sample (g)	Jar (g)	Sample (g)	Jar + Sample (g)	Jar (g)	Sample (g)
L28258-12	476.39	56.76	419.63	476.25	56.78	419.47

Subsamples

Subsamples	Portion weight (g)
SUBS 1	41.36
SUBS 2	100.12
SUBS 3	
SUBS 4	4.01
SUBS 5	269.93

31-01-2017 ^{2017 31-01-2017 ORA}
ORA

Reviewed by: JLG

Date: 16 NOV 2017

SGS AXYS Analytical Services Ltd.

Tissue Sample Preparation Record

WG: WG61696

Date: 30-OCT-2017

Chemist: Ch/Mey

Contract: 4033

Sample ID L28258-9 <i>Ch/Mey</i>	Sample type <input type="checkbox"/> whole body <input type="checkbox"/> fillet <input checked="" type="checkbox"/> other <i>CarCASS</i>	Discard excess tissue <input checked="" type="checkbox"/> yes <input type="checkbox"/> no Filletted/Dissected <input type="checkbox"/> yes <input checked="" type="checkbox"/> no	Grinder <input type="checkbox"/> GO4 <input type="checkbox"/> GO5 <input type="checkbox"/> GO6 <input checked="" type="checkbox"/> GO7 Blender <input type="checkbox"/> Virtis large bla <input type="checkbox"/> Virtis stator <input type="checkbox"/> Omni Mixer	Equipment used: <input type="checkbox"/> spatula <input checked="" type="checkbox"/> scissors <input type="checkbox"/> forceps <input type="checkbox"/> scalpel <input checked="" type="checkbox"/> spoon <input type="checkbox"/> shears <input type="checkbox"/> knife <input type="checkbox"/> stainless steel bowl <input type="checkbox"/> other
Protocol Followed	<input type="checkbox"/> TOC <input checked="" type="checkbox"/> PFOS	<input checked="" type="checkbox"/> Metals <input checked="" type="checkbox"/> routine organics		
Sample ID L28258-10 <i>Ch/Mey</i>	Sample type <input type="checkbox"/> whole body <input type="checkbox"/> fillet <input checked="" type="checkbox"/> other <i>CarCASS</i>	Discard excess tissue <input checked="" type="checkbox"/> yes <input type="checkbox"/> no Filletted/Dissected <input type="checkbox"/> yes <input checked="" type="checkbox"/> no	Grinder <input type="checkbox"/> GO4 <input type="checkbox"/> GO5 <input type="checkbox"/> GO6 <input checked="" type="checkbox"/> GO7 Blender <input type="checkbox"/> Virtis large bla <input type="checkbox"/> Virtis stator <input type="checkbox"/> Omni Mixer	Equipment used: <input type="checkbox"/> spatula <input checked="" type="checkbox"/> scissors <input type="checkbox"/> forceps <input type="checkbox"/> scalpel <input checked="" type="checkbox"/> spoon <input type="checkbox"/> shears <input type="checkbox"/> knife <input type="checkbox"/> stainless steel bowl <input type="checkbox"/> other
Protocol Followed	<input type="checkbox"/> TOC <input checked="" type="checkbox"/> PFOS	<input checked="" type="checkbox"/> Metals <input checked="" type="checkbox"/> routine organics		
Sample ID L28258-11 <i>Ch/Mey</i>	Sample type <input type="checkbox"/> whole body <input type="checkbox"/> fillet <input checked="" type="checkbox"/> other <i>CarCASS</i>	Discard excess tissue <input checked="" type="checkbox"/> yes <input type="checkbox"/> no Filletted/Dissected <input type="checkbox"/> yes <input checked="" type="checkbox"/> no	Grinder <input type="checkbox"/> GO4 <input type="checkbox"/> GO5 <input type="checkbox"/> GO6 <input checked="" type="checkbox"/> GO7 Blender <input type="checkbox"/> Virtis large bla <input type="checkbox"/> Virtis stator <input checked="" type="checkbox"/> Omni Mixer	Equipment used: <input type="checkbox"/> spatula <input checked="" type="checkbox"/> scissors <input type="checkbox"/> forceps <input type="checkbox"/> scalpel <input checked="" type="checkbox"/> spoon <input type="checkbox"/> shears <input type="checkbox"/> knife <input type="checkbox"/> stainless steel bowl <input type="checkbox"/> other
Protocol Followed	<input type="checkbox"/> TOC <input checked="" type="checkbox"/> PFOS	<input checked="" type="checkbox"/> Metals <input checked="" type="checkbox"/> routine organics		
Sample ID L28258-12 <i>Ch/Mey</i>	Sample type <input type="checkbox"/> whole body <input type="checkbox"/> fillet <input checked="" type="checkbox"/> other <i>CarCASS</i>	Discard excess tissue <input checked="" type="checkbox"/> yes <input type="checkbox"/> no Filletted/Dissected <input type="checkbox"/> yes <input checked="" type="checkbox"/> no	Grinder <input type="checkbox"/> GO4 <input type="checkbox"/> GO5 <input type="checkbox"/> GO6 <input checked="" type="checkbox"/> GO7 Blender <input type="checkbox"/> Virtis large bla <input type="checkbox"/> Virtis stator <input type="checkbox"/> Omni Mixer	Equipment used: <input type="checkbox"/> spatula <input checked="" type="checkbox"/> scissors <input type="checkbox"/> forceps <input type="checkbox"/> scalpel <input checked="" type="checkbox"/> spoon <input type="checkbox"/> shears <input type="checkbox"/> knife <input type="checkbox"/> stainless steel bowl <input checked="" type="checkbox"/> other <i>foil</i>
Protocol Followed	<input type="checkbox"/> TOC <input checked="" type="checkbox"/> PFOS	<input checked="" type="checkbox"/> Metals <input checked="" type="checkbox"/> routine organics		
Sample ID	Sample type <input type="checkbox"/> whole body <input type="checkbox"/> fillet <input type="checkbox"/> other	Discard excess tissue <input type="checkbox"/> yes <input type="checkbox"/> no Filletted/Dissected <input type="checkbox"/> yes <input type="checkbox"/> no	Grinder <input type="checkbox"/> GO4 <input type="checkbox"/> GO5 <input type="checkbox"/> GO6 <input type="checkbox"/> GO7 Blender <input type="checkbox"/> Virtis large bla <input type="checkbox"/> Virtis stator <input type="checkbox"/> Omni Mixer	Equipment used: <input type="checkbox"/> spatula <input type="checkbox"/> scissors <input type="checkbox"/> forceps <input type="checkbox"/> scalpel <input type="checkbox"/> spoon <input type="checkbox"/> shears <input type="checkbox"/> knife <input type="checkbox"/> stainless steel bowl <input type="checkbox"/> other
Protocol Followed	<input type="checkbox"/> TOC <input type="checkbox"/> PFOS	<input type="checkbox"/> Metals <input type="checkbox"/> routine organics		
Sample ID	Sample type <input type="checkbox"/> whole body <input type="checkbox"/> fillet <input type="checkbox"/> other	Discard excess tissue <input type="checkbox"/> yes <input type="checkbox"/> no Filletted/Dissected <input type="checkbox"/> yes <input type="checkbox"/> no	Grinder <input type="checkbox"/> GO4 <input type="checkbox"/> GO5 <input type="checkbox"/> GO6 <input type="checkbox"/> GO7 Blender <input type="checkbox"/> Virtis large bla <input type="checkbox"/> Virtis stator <input type="checkbox"/> Omni Mixer	Equipment used: <input type="checkbox"/> spatula <input type="checkbox"/> scissors <input type="checkbox"/> forceps <input type="checkbox"/> scalpel <input type="checkbox"/> spoon <input type="checkbox"/> shears <input type="checkbox"/> knife <input type="checkbox"/> stainless steel bowl <input type="checkbox"/> other
Protocol Followed	<input type="checkbox"/> TOC <input type="checkbox"/> PFOS	<input type="checkbox"/> Metals <input type="checkbox"/> routine organics		

Reviewed by: JLG

Date: 17NOV2017

AXYS Analytical Services Ltd.

Modified Composite Sample Preparation Record - Hipatopancreas

WG: 61817 Date: 10 Nov 2017 Chemist: SEM Contract: 4033Axs Sample ID: L28417-1 Balance ID#: 3120

Portioning for Composite

Sample ID	Jar + Sample (g)	Jar (g)	Sample (g)
L28215-13	101.59	113.40	68.19
L28215-14	241.73	176.17	65.56

Composite

Sample ID	Pre-Homogenization			Post Homogenization		
	Jar + Sample (g)	Jar (g)	Sample (g)	Jar + Sample (g)	Jar (g)	Sample (g)
L28417-1	308.66	177.20	131.46	302.74	177.20	125.54

Subsamples

Subsamples	Portion weight (g)
SUBS 1	40.76 47.60 ^{10/10/2017 SEM}
SUBS 2	70.40
SUBS 3	N/A
SUBS 4	5.26
SUBS 5	N/A
SUBS 6	0

Reviewed by: JLGDate: 15-NOV-2017

Modified Composite Sample Preparation Record - Hipatopancreas

WG: 61817Date: 10 NOV 2017Chemist: SEMContract: 4033Axys Sample ID: L28417-2 Balance ID#: 320

Portioning for Composite

Sample ID	Jar + Sample (g)	Jar (g)	Sample (g)
<u>L28215-15</u>	<u>254.98</u>	<u>175.72</u>	<u>79.26</u>
<u>L28215-16</u>	<u>236.40</u>	<u>176.11</u>	<u>60.29</u>

Composite

Sample ID	Pre-Homogenization			Post Homogenization		
	Jar + Sample (g)	Jar (g)	Sample (g)	Jar + Sample (g)	Jar (g)	Sample (g)
<u>L28417-2</u>	<u>313.67</u>	<u>176.11</u>	<u>137.56</u>	<u>309.82</u>	<u>176.11</u>	<u>133.71</u>

Subsamples

Subsamples	Portion weight (g)
SUBS 1	<u>41.15</u>
SUBS 2	<u>70.36</u>
SUBS 3	<u>N/A</u>
SUBS 4	<u>4.99</u>
SUBS 5	<u>N/A</u>
SUBS 6	<u>14.72</u>

Reviewed by: CERDate: 15 NOV 2017

Modified Composite Sample Preparation Record - Hipatopancreas

WG: 601817 Date: 10 Nov 2017 Chemist: SRM Contract: 4033

Axys Sample ID: L28417-3 Balance ID#: 3220

Portioning for Composite

Sample ID	Jar + Sample (g)	Jar (g)	Sample (g)
L28215-17	217.07	113.64	103.43
L28215-18	194.54	113.59	80.95

Composite

Sample ID	Pre-Homogenization			Post Homogenization		
	Jar + Sample (g)	Jar (g)	Sample (g)	Jar + Sample (g)	Jar (g)	Sample (g)
L28417-3	357.00	176.23	180.77	326.95 342.20 <i>10 Nov 2017 SRM</i>	176.23	156.72 165.97 <i>15 Nov 2017 JLG for SRM</i>

Subsamples

Subsamples	Portion weight (g)
SUBS 1	42.25 <i>10 Nov 2017 SRM</i>
SUBS 2	85.53 108.09
SUBS 3	N/A
SUBS 4	4.32
SUBS 5	N/A
SUBS 6	33.14 10.58 <i>10 Nov 2017 SRM</i>

Reviewed by: JLG

Date: 15-NOV-2017

AXYS Analytical Services Ltd.

Modified Composite Sample Preparation Record - Hipatopancreas

WG: 61817 Date: 10 Nov 2017 Chemist: SPU Contract: 4033Axys Sample ID: L28417-4 Balance ID#: 3120

Portioning for Composite

Sample ID	Jar + Sample (g)	Jar (g)	Sample (g)
L28215-19	264.89	176.15	88.74
L28215-20	234.78	176.19	58.59

Composite

Sample ID	Pre-Homogenization			Post Homogenization		
	Jar + Sample (g)	Jar (g)	Sample (g)	Jar + Sample (g)	Jar (g)	Sample (g)
L28417-4	320.80	176.19	144.61	313.38	176.19	137.19

Subsamples

Subsamples	Portion weight (g)
SUBS 1	40.70
SUBS 2	70.64
SUBS 3	1042
SUBS 4	4.84
SUBS 5	N/A
SUBS 6	8.60

Reviewed by: JLGDate: 15-NOV-2017

Modified Composite Sample Preparation Record - Hipatopancreas

WG: 61817Date: 10 Nov 2017Chemist: SRM Contract: 4033Axys Sample ID: L28417-5 Balance ID#: 3120

Portioning for Composite

Sample ID	Jar + Sample (g)	Jar (g)	Sample (g)
L28215-21	229.09	175.83	53.26
L28215-22	238.64	176.24	62.40

Composite

Sample ID	Pre-Homogenization			Post Homogenization		
	Jar + Sample (g)	Jar (g)	Sample (g)	Jar + Sample (g)	Jar (g)	Sample (g)
L28417-5	289.47	175.83 176.24	113.23	286.05	176.24	109.81

Subsamples

Subsamples	Portion weight (g)
SUBS 1	40.61 36.23
SUBS 2	65.49 10 Nov 2017 SRM
SUBS 3	N/A
SUBS 4	4.35
SUBS 5	N/A
SUBS 6	0

176.24
10 Nov 2017 SRMReviewed by: JLGDate: 15-NOV-2017

Modified Composite Sample Preparation Record - Hipatopancreas

WG: 61817Date: 10 Nov 2017Chemist: SPM Contract: 4033Axys Sample ID: L28417-6 Balance ID#: 3120

Portioning for Composite

Sample ID	Jar + Sample (g)	Jar (g)	Sample (g)
<u>L28215-23</u>	<u>237.95</u>	<u>175.48</u>	<u>62.47</u>
<u>L28215-24</u>	<u>260.77</u>	<u>176.01</u>	<u>84.76</u>

Composite

Sample ID	Pre-Homogenization			Post Homogenization		
	Jar + Sample (g)	Jar (g)	Sample (g)	Jar + Sample (g)	Jar (g)	Sample (g)
	<u>319.99</u>	<u>175.48</u>	<u>144.51</u>	<u>313.57</u>	<u>175.48</u>	<u>138.09</u>

Subsamples

Subsamples	Portion weight (g)
SUBS 1	<u>40.34</u>
SUBS 2	<u>76.72</u>
SUBS 3	<u>N/A</u>
SUBS 4	<u>452</u>
SUBS 5	<u>N/A</u>
SUBS 6	<u>20.34</u>

Reviewed by: JLGDate: 15-NOV-2017

Notes: Batch ID: WG61817 Method: MLAxxx

Date:	Analyst	Fraction	Notes:
10 Nov 2017	SPM		Pre hang weights for L28147-7, -8, and -9 can be found in WG61816. Below
			are the after hang weights taken as direct weights:
			L28147-7: 129.53g
			L28147-8: 237.53g
			L28147-9: 154.08g
			15-NOV-2017
			JLG

Reviewed by JLG date 15-NOV-2017